

#### **AUES PROJECT NO. TCS/00704/14**

CONTRACT NO. MTRC6593-13C – WAN CHAI STATION LEE TUNG STREET SUBWAY

20<sup>th</sup> Environmental Monitoring and Audit (EM&A) Monthly Report –April 2016

PREPARED FOR KADEN CONSTRUCTION LIMITED

#### **Quality Index**

**Date** 

10 May 2016	TCS00704/14/600/R0095v2	Ath	Thum
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**Approved By** 

Version	Date	Description	
1	9 May 2016	First Submission	
2	10 May 2016	Amended against IEC's comment	

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#### By Email and Post

MTR Corporation Limited Fo Tan Railway House No. 9, Lok King Street, Fo Tan Shatin, N.T., Hong Kong

Attn.: Mr. Kenneth Chow / Environmental Engineer II

10 May 2016

Dear Sirs

Consultancy Agreement A130-13 Independent Environmental Checker for CRS and LTS LTS - Verification for 20th Monthly Environmental Monitoring and Audit (EM&A) Report (April 2016) (Report No.: TCS00704/14/600/R0095v2)

We refer to the 20th Monthly EM&A Report (April 2016) received under cover of the email from the Environmental Team, AUES, dated on 9 April 2016.

Further to our comments provided on 10 March 2016 and subsequent revision of the Report by AUES on 10 March 2016, we have no further comment and have verified the captioned report (Report No.: TCS00704/14/600/R0095v2).

Should you have any queries, please feel free to contact the undersigned at 3922 9366.

Yours faithfully

**AECOM Consulting Services Ltd** 

Y. W. Fung

Independent Environmental Checker

LLMC/wwsc

cc Kaden Consturction Limited (Attn.: Mr. Ronald Fung) via email

**AUES** 

(Attn.: Ms. Nicola Hon) via email



#### **EXECUTIVE SUMMARY**

ES01 This is the **20**<sup>th</sup> monthly EM&A Report presenting the monitoring results and inspection findings for the period from **1 to 30 April 2016** (hereinafter 'the Reporting Period').

#### SUMMARY OF ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES02 The monitoring and audit activities during the Reporting Period are summarized in below:-

		<b>Reporting Period</b>		
Environmental Aspect	Environmental Monitoring Parameters / Inspection	Number of Monitoring Location	oring Occasions	
Air Quality	24-hour TSP	1	5	
Construction Noise	L <sub>eq(30min)</sub> Daytime	2	8	
Site Inspection	Weekly inspection with ET, the Contractor and RE		4	
Audit	Monthly joint inspection with ET, the Contractor, RE and IEC		1	

#### BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES03 In the Reporting Period, no air quality and noise monitoring exceedances were registered. The statistics of environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

Environmental	Manitaring	Action Limi		Event & Action		
Aspect	Monitoring Parameters		Limit	N DH	Investigation	Corrective Actions
Air Quality	24-hour TSP	0	0	0	0	0
Construction Noise	L <sub>eq(30min)</sub> Daytime	0	0	0	0	0

#### **ENVIRONMENTAL COMPLAINT**

ES04 No public complaint was received in the Reporting Period.

#### NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES05 No environmental summons or successful prosecutions were recorded in the Reporting Period.

#### REPORTING CHANGE

ES06 No reporting changes were made in the Reporting Period.

#### SITE INSPECTION

ES07 In the Reporting Period, weekly site inspection by the MTRC, ET and Contractor was carried out on **8**, **13**, **20** and **27** April **2016** and the IEC was joined the site inspection on **20** April **2016**. No non-compliance but two (2) observations and four (4) reminders were recorded during the site inspection.

#### **FUTURE KEY ISSUES**

- ES08 Construction noise is the key environmental issue during construction work of the Project as there are residential buildings nearby. Noise mitigation measures should be fully implemented in accordance with the EM&A requirement.
- ES09 Special attention should be paid on the potential construction dust impact as the construction site is located near the residential area. The Contractor should fully implement the construction dust mitigation measures properly.

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ES010 The Contractor should prevent muddy water and other water pollutants via site surface water runoff get into public areas and implement water quality mitigation measures properly. Any discharge water should be strictly complied with wastewater discharge license requirement.



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#### 1 INTRODUCTION

#### PROJECT BACKGROUND

- 1.01 **KADEN CONSTRUCTION LIMITED** (hereinafter 'KCL') has been awarded by the MTR Corporation Limited (MTRCL) the Contract No. *MTRC6593-13C Wan Chai Station Lee Tung Street Subway* (hereinafter "the Project"), which is a Designated Project to be implemented under Environmental Permit EP-444/2012 (hereinafter referred as "the EP-444/2012" or "the EP").
- 1.02 The Project includes redevelopment of the Lee Tung Street area to improve pedestrian networking by enhancing the accessibility, connectivity and circulation of human traffic north-south from Queen's Road East area to Wan Chai MTR Station, and providing a safe and attractive means for pedestrian crossing of Johnston Road. The Project site layout plan is shown in *Appendix A* and works under the Project comprise of:
  - (i) Construction of a pedestrian subway link between Urban Renewal Authority's Redevelopment at Site H15 (the Development) and Wan Chai Station (WAC);
  - (ii) Construction of two ventilation shafts; and
  - (iii) Modification works of some of the station concourse.
- 1.03 The Project is expected to be undertaken for 36 months. In order to effectively implement the environmental protection measures as stipulated in the Particular Specification (PS), an Environmental Monitoring and Audit Plan (EMAP) which enclosed in the Project Profile (PP) was prepared to guide the setup of the environmental monitoring and audit (EM&A) programme of the Project.
- 1.04 Action-United Environmental Services and Consulting (AUES) has been commissioned by the KCL as the independent environmental team (ET) to implement the relevant EM&A programme for the Project.
- 1.05 The baseline monitoring program was carried out between 3 June 2014 and 19 June 2014 at the proposed monitoring locations by the ET according to the approved EMAP. The "Baseline Monitoring Report (R0010 Version 4)" has been verified by IEC submitted to the EPD on 15 July 2014 before commencement of major construction works. The construction of the Project was commenced on 28 August 2014 as notified by KCL. Accordingly, relevant EM&A programme was started on 28 August 2014.
- 1.06 This is **20**<sup>th</sup> monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from **1 to 30 April 2016**.

#### REPORT STRUCTURE

- 1.07 This Report is structured into the following sections:-
  - Section 1 Introduction
  - Section 2 Project Organization
  - Section 3 Environmental Impact Monitoring Requirement
  - **Section 4** Monitoring Results
  - Section 5 Waste Management
  - **Section 6** Site Inspections
  - Section 7 Environmental Complaint and Non-Compliance
  - **Section 8** Implementation Status of Mitigation Measures
  - Section 9 Conclusions and Recommendations



#### 2 PROJECT ORGANIZATION AND SUBMISSION

#### **PROJECT ORGANIZATION**

2.01 The project organization is shown in *Appendix B*. The responsibilities of respective parties are:

#### MTR Corporation Limited (MTRCL)

2.02 MTRCL is the Project Proponent and the Permit Holder of the EP of the development of the Project and will assume overall responsibility for the project. Also, an Independent Environmental Checker (IEC) should be employed by MTRCL to audit the results of the EM&A work conducted by Environmental Team.

#### **Environmental Protection Department (EPD)**

2.03 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

#### Resident Engineer (RE)

- 2.04 The RE is responsible for overseeing the construction works and for ensuring that the works are undertaken by the Contractor in accordance with the specification and contract requirements. The duties and responsibilities of the ER with respect to EM&A are:
  - Monitor the Contractor's compliance with Contract Specifications, including the effective implementation and operation of the environmental mitigation measures;
  - Inform the Contractor when action is required to reduce impacts in accordance with the Event and Action Plans;
  - Participate in site inspections undertaken by the ET; and
  - Co-operate with the ET in providing all the necessary information and assistance for completion of the complaint investigation works.

#### Independent Environmental Checker (IEC)

- 2.05 The IEC should advise the ET and RE on environmental issues related to the project. The IEC should audit from an independent viewpoint on the environmental performance during the construction of the project. The IEC should be a person who has relevant professional qualifications in environmental control and at least 7 years' experience in EM&A and environmental management. The duties and responsibilities of the IEC are:
  - Review and audit in an independent, objective and professional manner in all aspects of the EM&A programme;
  - Validate and confirm the accuracy of monitoring results, appropriateness of monitoring equipment, monitoring locations with reference to the locations of the nearby sensitive receivers, and monitoring procedures;
  - Carry out random sample check and audit on monitoring data and sampling procedures, etc;
  - Conduct random site inspection;
  - Review the effectiveness of environmental mitigation measures and project environmental performance;
  - On an as-need basis, verify and certify the environmental acceptability of the construction methodology (both temporary and permanent works), relevant design plans and submissions under the environmental permit. Where necessary, the IEC should agree in consultation with the ET and the Contractor least impact alternative;
  - Check complaint cases and the effectiveness of corrective measures;
  - Verify EM&A report certified by the ET Leader; and
  - Feedback audit results to RE/ET according to the Event/Action Plan.

#### Environmental Team (ET)

- 2.06 The ET should conduct the EM&A programme and ensure the Contractor's compliance with the project's environmental performance requirements during construction. The ET should plan, organize and manage the implementation of the EM&A programme and ensure that the EM&A works are undertaken to the required standard.
- 2.07 The ET should be led and managed by the ET Leader. The ET Leader should have relevant



professional qualifications in environmental control and possess at least 7 years' experience in EM&A. The ET Leader should be responsible for the implementation of the EM&A programmes in accordance with the EM&A requirements. The duties and responsibilities of the ET include:

- Sampling, analysis and statistical evaluation of monitoring parameters;
- Environmental site surveillance;
- Inspection and audit of compliance with environmental protection, and pollution prevention and control regulations;
- Assess the effectiveness of the environmental mitigation measures implemented;
- Monitor compliance with the environmental protection clauses/specifications in the Contract;
- Review construction programme and comment as necessary:
- Review work methodologies which may affect the extent of environmental impact during the construction phase and comment as necessary;
- Complaint investigation, evaluation and identification of corrective measures:
- Liaison with the IEC on all environmental performance matters, and timely submission of all relevant EM&A proforma for IEC's approval; and
- Advice to Contractor on environmental improvement, awareness and enhancement matters etc.

#### The Contractor

- 2.08 The Contractor should report to the RE. The duties and responsibilities of the Contractor are:
  - Comply with the relevant contract conditions and specifications on environmental protection
  - Participate in the site inspections undertaken by the ET;
  - Provide assistance to ET to carry out monitoring:
  - Provide requested information to the ET in the event of any exceedance in the environmental criteria (Action/Limit levels);
  - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event / Action Plans; and
  - Cooperate with the ET in providing all the necessary information and assistance for completion of the complaint investigation works. If mitigation measures are required following the investigation, the Contractor should promptly carry out these measures.

#### SUMMARY OF ENVIRONMENTAL SUBMISSIONS

In accordance with the EP stipulation, the required documents and submission status to EPD are 2.09 listed in Table 2-1.

Table 2-1 Submission/Set-up Status of the EP Requirements

<b>EP Condition</b>	Submission	Status
2.3	Management Organization of Main Construction Companies	Submitted
2.7	Landscape Plan	Submitted
3.3	Baseline Monitoring Report (TCS00704/14/600/R0010v4)	Submitted
4.2	Internet website	live

2 10 Summary of environmental permits, licenses, and relevant notifications on environmental protection for the Project are presented in Table 2-2.

Table 2-2 Status of Environmental Licenses and Permits of the Project

Item	Description	License/Permit Status	
1	Air Pollution Control (Construction Dust) Regulation	Notified EPD.	
,	Chemical Waste Producer Registration - Waste Producers Number	WPN:5213-131-K3099-01 Approved on 14/05/2014	
3	Water Pollution Control Ordinance - Discharge License	License no.: WT00019539-2014 Approved on 16/07/2014 Valid to: 31/07/2019	
4	Waste Disposal Regulation - Billing Account for Disposal of Construction Waste	Account no.: 7019837 Approved on 30/04/2014	



Item	Description	License/Permit Status
5	Construction Noise Permit under Noise Control	GW-RS0164-16 obtained on 11 Mar
	Ordinance	2016
		Valid from 11 Mar 2016 to 10 Sep
		2016
		GW-RS0165-16 obtained on 14 Mar
		2016
		Valid from 14 Mar 2016 to 13 Sep
		2016

#### **CONSTRUCTION PROGRESS**

- 2.11 The construction activities conducted in the Reporting Period are listed in below. Moreover, the master construction program is shown in *Appendix B*.
  - Construction of main beam for mini piles at Eastbound
  - Mini piles and Construction of main beam for mini piles at Westbound footpath
  - RC structure for new subway for North Basketball Court
  - ABWF for external finishing at WAC Station



#### 3 ENVIRONMENTAL IMPACT MONITORING REQUIREMENT

3.01 The ET will implement the EM&A programme in accordance with the requirements in EMAP. Details of the EM&A programme are presented in the following sub-sections.

#### MONITORING PARAMETERS

- 3.02 The EM&A impact monitoring program covers the following environmental aspects:
  - Air quality; and
  - Construction noise
- 3.03 A summary of the monitoring parameters is presented in *Table 3-1*:

Table 3-1 Summary of the monitoring parameters of EM&A Requirements

Environmental Issue	Parameters			
Air Quality	<ul> <li>24-hour Total Suspended Particulate (hereinafter '24-hour TSP')</li> <li>1-hour TSP monitoring (*)</li> </ul>			
Construction Noise	• A-weighted equivalent continuous sound pressure level (30min) (hereinafter 'L <sub>eq(30min)</sub> ' during the normal working hours			

#### Remarks:

#### MONITORING LOCATIONS

3.04 According to Sections 2.3 and 3.4 of the EMAP which enclosed in the Project Profile (Register No. PP-472/2012), construction noise and air quality monitoring locations are required to be set up at Hennessy Building and Chiu Hin Mansion. In early May 2014, site visit was conducted to select suitable locations to carry out relevant noise and air monitoring for the EM&A Programme. It was noted that both Hennessy Building and Chiu Hin Mansion are residential buildings and only the 1/F to 2/F of the buildings could be accessed which are commercial premises. It is not possible to set up the monitoring station at upper floors inside the residential apartment which will cause nuisance to the residents. Finally, two locations at lower floor were selected which access were successfully granted by the premises occupiers. The monitoring stations proposed for the Project are summarized in *Table 3-2* and illustrated in *Appendix C*.

**Table 3-2** Air and Noise Monitoring Locations

Aspect	Monitoring Location	Location ID	Address	Description
Air Quality	Chiu Hin Mansion	A1	balcony at 1/F of Chiu Hin Mansion	ASR close to the Project site
Construction	Hennessey Building	N1	2/F floor of Hennessey Building	NSR facing to the Project site
Noise	Chiu Hin Mansion	N2	balcony at 1/F of Chiu Hin Mansion	NSR facing to the Project site

#### MONITORING FREQUENCY AND PERIOD

3.05 The requirements of impact monitoring as stipulated in the EMAP are presented in following.

#### Air Quality

- 3.06 Frequency of impact air quality monitoring:
  - 24-hour TSP Once every 6 days during course of works.
- 3.07 In case of non-compliance with the air quality criteria, a more frequent monitoring exercise adopting 1-hour TSP monitoring undertaken when the highest dust impact occurs, as specified in the Event and Action Plan, should be conducted within 24 hours after the result is obtained. This additional monitoring should be continued until excessive dust emission or the deterioration in air quality is rectified.

<sup>(\*)</sup> In case 24-hour TSP exceed the air quality criteria to be carried out



#### **Construction Noise**

3.08 One set of  $L_{eq(30min)}$  as 6 consecutive  $L_{eq(5min)}$  between 0700-1900 hours on normal weekdays and once every week during course of works. If construction work necessary to carry out at other time periods, i.e. restricted time period (19:00 to 07:00 the next morning and whole day on public holidays) (hereinafter referred as "the restricted hours"), 3 consecutive  $L_{eq(5min)}$  measurement will be depended on CNP requirements to undertake. Supplementary information for data auditing, statistical results such as  $L_{10}$  and  $L_{90}$  shall also be obtained for reference.

#### MONITORING EQUIPMENT

#### Air Quality Monitoring

- 3.09 The 24-hour TSP shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B (USEPA)*. A direct reading dust meter is used to measure 1-hour TSP air quality, in case of non-compliance of air quality criteria occurred in 24-hour TSP measurement.
- 3.10 The filter paper sample collected in 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory. All equipments to be used for air quality monitoring are listed in *Table 3-3*.

**Table 3-3 Air Quality Monitoring Equipment** 

Equipment	Model
24-hour TSP	
High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
Calibration Kit	TISCH Model TE-5025A
1- hour TSP	
	TSI Model 8520 DustTrak Aerosol Monitor / Aerocet 531
Portable Dust Meter	Handheld Particle Mass Profiler & Counter / Sibata LD-3A
	Laser Dust Monitor

- 3.11 According to the EMAP, wind data monitoring equipment shall be provided and set up for logging wind speed and wind direction near the dust monitoring locations. The equipment installation location shall be proposed by the ET and agreed with the IEC. For installation and operation of wind data monitoring equipment, the following points shall be observed:
  - 1) The wind sensors should be installed 10 m above ground so that they are clear of obstructions or turbulence caused by buildings.
  - 2) The wind data should be captured by a data logger. The data shall be downloaded for analysis at least once a month.
  - 3) The wind data monitoring equipment should be re-calibrated at least once every six months.
  - 4) Wind direction should be divided into 16 sectors of 22.5 degrees each.
- 3.12 Although ET was successful granted HVS installation premises, the owners rejected to install wind data monitoring equipment.
- 3.13 In this situation, the ET proposed to adopt the meteorological information from King's Park Weather Station from the Hong Kong Observatory as the representative wind data. King's Park Station provided all useful from information such as humidity, rainfall, and air pressure and temperature etc.
- 3.14 Although there are other closer weather stations, King's Park Station was selected as it is the nearest weather station that measures all the relevant parameters mentioned above. Moreover, the ET has compared the data among the stations, and concluded that there is minimal difference between meteorological data collected at the King's Park station and other stations.

#### **Construction Noise Monitoring**

3.15 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind



speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms<sup>-1</sup>. Furthermore, an acoustic calibrator and sound level meter shall be calibrated yearly.

3.16 Noise monitoring equipment to be used for monitoring is listed in *Table 3-4*.

**Table 3-4 Construction Noise Monitoring Equipment** 

Equipment	Model
Integrating Sound Level Meter	B&K Type 2238
Calibrator	Rion NC-73 / B&K Type 4231/ Cesva CB-5
Portable Wind Speed Indicator	Testo Anemometer

#### MONITORING METHODOLOGY

#### 24-hour TSP

- 3.17 The equipment used for 24-hour TSP measurement is a Tisch Environmental, Inc. Model TE-5170 TSP high volume air sampling system, which complied with USEPA Code of Federal Regulation, Appendix B to Part 50. The High Volume Air Sampler (HVS) consists of the following:
  - a. An anodized aluminum shelter;
  - b. A 8"x10" stainless steel filter holder;
  - c. A blower motor assembly;
  - d. A continuous flow/pressure recorder;
  - e. A motor speed-voltage control/elapsed time indicator;
  - f. A 7-day mechanical timer, and
  - g. A power supply of 220v/50 hz
- 3.18 The HVS is calibrated in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5028A). The 24-hour TSP monitoring using the HVS is also processed in accordance with the manufacturer's Operations Manual. The valid calibration certificate of the calibration kit with the certificate of HVS calibrated is shown in *Appendix D*.
- 3.19 24-hour TSP is collected on filters of the HVS and quantified by a local HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd (ALS), upon receipt of the samples. The ET will keep all the sampled 24-hour TSP filters in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal. HOKLAS-accreditation certificate of ALS Technichem (HK) Pty Ltd (ALS) is provided in *Appendix E*.

#### **Noise**

- 3.20 Sound level meter complied with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications, as recommended in Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO). The valid of calibration certificates including sound level meter and an acoustic were shown in *Appendix D*.
- 3.21 The noise measurement is performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level ( $L_{eq}$ ).  $L_{eq(30min)}$  in six consecutive  $L_{eq(5min)}$  measurements were used as the monitoring parameter.
- 3.22 During monitoring, the sound level meter mounted at the monitoring locations and oriented such that the microphone pointed to the site with the microphone facing perpendicular to the line of sight. The windshield was fitted for the measurement. For the monitoring, N1 and N2 are conducted 1 m from the exterior of the building façade.
- 3.23 Prior construction noise measurement, the accuracy of the sound level meter checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The calibration level from before and after the noise measurement agrees to within 1.0dB.



#### DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.24 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to EMAP, the air quality and construction noise criteria were set up, namely Action and Limit levels are listed in *Tables 3-5* and *3-6*.

Table 3-5 Action and Limit Levels for Air Quality Monitoring

Monitoring Station	Action Lev	vel (μg/m³)	Limit Level (μg/m³)		
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
A1	290	162	500	260	

**Table 3-6** Action and Limit Levels for Construction Noise

Manitanina Station	0700-1900 hours on normal weekdays				
Monitoring Station	Action Level	Limit Level			
N1 and N2	When one documented complaint is received	75 dB(A)			

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the NCA have to be followed.

3.25 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

#### DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.26 The all monitoring data were handled by the ET's in-house data recording and management system.
- 3.27 The monitoring data recorded in the equipment were downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data were input into a computerized database properly maintained by the ET. The laboratory results were input directly into the computerized database and checked by personnel other than those who input the data.
- 3.28 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



#### 4 MONITORING RESULTS

4.01 The impact air quality and construction noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

#### 24-HOUR TSP AIR QUALITY MONITORING RESULTS

4.02 In the Reporting Period, 5 occasions of 24-hours TSP monitoring were carried out at the proposed location A1 and the monitoring results are summarized in *Table 4-1*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

Table 4-1 Summary of 24-hour TSP Monitoring Results – A1

Date	24-hour TSP (μg/m³)	Action Level	Limit Level
5-Apr-16	51		
11-Apr-16	50		
16-Apr-16	78	162	260
22-Apr-16	85	162	260
28-Apr-16	65		
Average (Range)	66 (50 – 85)		

4.03 As shown in *Table 4-1*, 24-hour TSP monitoring results are fluctuated below Action/ Limit Levels.

#### NOISE MONITORING RESULTS

4.04 In the Reporting Period, **8** occasions noise measurement were conducted at N1 and N2. The sound level meter was set in 1m from the exterior of the building façade at N1 and N2. Therefore, no façade correction (+3dB(A)) is added according to acoustical principles and EPD guidelines. The noise measurement results at N1 and N2 are listed in *Tables 4-2* and *4-3*. The relevant graphical plots are shown in *Appendix I*.

Table 4-2 Noise Monitoring Results of N1 (2/F floor of Hennessey Building), dB(A)

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	$L_{ m eq30min}$
5-Apr-16	11:19	65.5	66.0	63.9	65.1	64.8	64.7	65
12-Apr-16	13:54	72.1	72.5	72.5	72.0	72.5	73.3	73
19-Apr-16	10:29	69.5	69.8	72.2	70.5	70.4	69.3	70
26-Apr-16	15:22	75.2	74.9	75.5	76.1	74.4	74.6	75
Limit L Construct		75 dB(A)						

Table 4-3 Noise Monitoring Results of N2 (balcony at 1/F of Chiu Hin Mansion), dB(A)

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	L <sub>eq30min</sub>
5-Apr-16	10:39	73.7	73.1	73.1	72.7	73.7	72.2	73
12-Apr-16	10:38	68.7	68.5	68.7	69.1	69.0	68.8	69
19-Apr-16	11:18	73.0	72.9	73.2	72.8	72.5	73.2	73
26-Apr-16	14:43	73.7	74.8	71.9	73.6	75.8	75.3	74
Limit L Construct		75 dB(A)						

4.05 As shown in Tables 4-2 and 4-3, no noise measurement exceedance was recorded at both N1 and N2. Furthermore, there is no noise complaint (Action Level exceedance) received by the MTRCL and Contractor or EPD in the Reporting Period. The meteorological data during the impact monitoring days are shown in *Appendix J*.



#### 5 WASTE MANAGEMENT

#### GENERAL WASTE MANAGEMENT

5.01 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

#### **RECORDS OF WASTE QUANTITIES**

- 5.02 All types of waste arising from the construction work are classified into the following:
  - Construction & Demolition (C&D) Material;
  - Chemical Waste;
  - General Refuse; and
  - Excavated Soil.
- 5.03 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 5-1* and *5-2* and the Monthly Summary Waste Flow Table is shown in *Appendix K*.

Table 5-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Total C&D Materials (Inert) (m <sup>3</sup> )	0	-
Reused in this Contract (Inert) (m <sup>3</sup> )	0	-
Reused in other Projects (Inert) (m <sup>3</sup> )	0	-
Disposal as Public Fill (Inert) (m <sup>3</sup> )	0.03399	TKO 137

Table 5-2 Summary of Quantities of Non-Inert C&D Wastes

Type of Waste	Quantity	Disposal Location
Recycled Metal (m <sup>3</sup> )	0	-
Recycled Paper / Cardboard Packing (m <sup>3</sup> )	0	-
Recycled Plastic (m <sup>3</sup> )	0	-
Chemical Wastes (m³/L)	0	-
General Refuses (m <sup>3</sup> )	0.001	SENT Landfill

- 5.04 In the Reporting Period, effluent generated from the Project was discharged in accordance with the Wastewater Discharge License.
- 5.05 Moreover, it is reminded that C&D materials would be reused on-site as far as practicable.



#### **6** SITE INSPECTION

6.01 According to the EMAP, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should carry out to confirm the environmental performance.

#### FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- During the Reporting Period, Four (4) occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on 8, 13, 20 and 27 April 2016 and the IEC was joined the site inspection on 20 April 2016.
- 6.03 No non-compliance was noted. However, two (2) observations and four (4) reminders were recorded by the ET. The findings / deficiencies observed during the weekly site inspections are listed in *Table 6-1*.

**Table 6-1 Site Observations** 

Date	Findings / Deficiencies	Follow-Up Status
8 April 2016	No adverse environmental issue was observed.	• NA
13 April 2016	The contractor should provide proper tree protection zone for retained trees.	Proper tree protection zone was provided for retained trees.
	• The contractor was reminded to cover construction storage area with tarpaulin sheets.	Not required for reminder.
20 April 2016	The contractor was advised to clear the mud trails on the entry/exit area.	The mud trails on the entry/exit area were removed.
	The contractor was reminded to dispose construction waste regularly.	Not required for reminder.
27 April 2016	• The contractor was reminded to update the EP at the entrance.	Not required for reminder.
	The contractor was reminded to provide shoes washing tank at site office near Johnston road.	Not required for reminder.

6.04 No site inspection was undertaken by external parties i.e. EPD in this Reporting Month.



#### 7 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### **ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION**

7.01 For the Project, no environmental complaint, summons and prosecution was received in the Reporting Period. The statistical summary table of environmental complaint is presented in *Tables 7-1*, 7-2 and 7-3.

**Table 7-1** Statistical Summary of Environmental Complaints

		Environmental Complaint Statistics						
Reporting Period	Enganon av Completion		Complaint Nature					
	Frequency Cumulativ	Cumulative	Air	Noise	Water	Others		
28 Aug 2014 – 31 Mar 2016	0	0	NA	NA	NA	NA		
1–30 Apr 2016	0	0	NA	NA	NA	NA		

Table 7-2 Statistical Summary of Environmental Summons

Donowting Dowlad	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others	
28 Aug 2014 – 31 Mar 2016	0	0	NA	NA	NA	NA	
1–30 Apr 2016	0	0	NA	NA	NA	NA	

**Table 7-3 Statistical Summary of Environmental Prosecution** 

Donouting Dowind	Environmental Prosecution Statistics													
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others								
28 Aug 2014 – 31 Mar 2016	0	0	NA	NA	NA	NA								
1–30 Apr 2016	0	0	NA	NA	NA	NA								



#### 8 IMPLEMENTATION STATUS OF MITIGATION MEASURES

#### GENERAL REQUIREMENTS

- 8.01 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the EMAP covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix L*.
- 8.02 The Works under the Project shall be implementing the required environmental mitigation measures according to the EMAP as subject to the site condition. Environmental mitigation measures generally to be implemented by the Contractor is listed in *Table 8-1*.

**Table 8-1 Environmental Mitigation Measures** 

Air Quality  Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather; Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers; Cover all excavated or stockpile of dusty material by impervious sheeting or sprayed with water to maintain the entire surface wet; Public areas around the site entrance/exit had been kept clean and free from dust; and Tarpaulin covering of any dusty materials on a vehicle leaving the site.  Noise  Noise  Ogod site practices to limit noise emissions at the sources; Use of quiet plant and working methods; Use of site hoarding or other mass materials as noise barrier to screen the working site; Use of shrouds/temporary noise barriers to screen noise from relatively static PMEs; and Limiting as use one construction plant within worksite, where practicable.  Water Quality  Wastewater were appropriately treated by treatment facilities; Drainage channels were provided to convey run-off into the treatment facilities; and Drainage systems were regularly and adequately maintained.  Excavated material should be reused on site as far as possible to minimize off-site disposal. Scrap metals or abandoned equipment should be recycled if possible; Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner; The Contractor should adopt a trip ticket system for the disposal of C&D materials to any designed public filling facility and/or landfill; and Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.  Landscape and Visual  Clear demarcation of works area to prevent damages to existing trees in close proximity; Protection of all trees planned to be retained onsite; Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for approval in accordance with ETWB TCW 3/2006; and Screening of construction wo	Issues	Environmental Mitigation Measures
air sensitive receivers;  Cover all excavated or stockpile of dusty material by impervious sheeting or sprayed with water to maintain the entire surface wet;  Public areas around the site entrance/exit had been kept clean and free from dust; and  Tarpaulin covering of any dusty materials on a vehicle leaving the site.  Noise  Noise  Ogod site practices to limit noise emissions at the sources; Use of quiet plant and working methods; Use of site hoarding or other mass materials as noise barrier to screen the working site; Use of shrouds/temporary noise barriers to screen noise from relatively static PMEs; and Limiting as use one construction plant within worksite, where practicable.  Water Quality  Porainage channels were provided to convey run-off into the treatment facilities; and Drainage systems were regularly and adequately maintained.  Excavated material should be reused on site as far as possible to minimize off-site disposal. Scrap metals or abandoned equipment should be recycled if possible;  Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner;  The Contractor should adopt a trip ticket system for the disposal of C&D materials to any designed public filling facility and/or landfill; and Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.  Landscape and Visual  Clear demarcation of works area to prevent damages to existing trees in close proximity; Protection of all trees planned to be retained onsite; Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for approval in accordance with ETWB TCW 3/2006; and	Air Quality	
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• Screening of construction works by hoardings/noise barriers around Works		• Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for
area in visually unobtrusive colors.		8 J
General • The site was generally kept tidy and clean.	General	The site was generally kept tidy and clean.



#### TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.03 Construction activities as undertaken in the coming month for the Project lists below:
  - Temporary traffic deck of stage 2 ELS on Johnston Road Eastbound Fast Lane
  - RC decking of Temp. Tram Deck
  - Bulk excavation of stage 2
  - ABWF works at completed new LTS subway
  - AFC Audit Room external ABWF works
  - AFA modification at WAV Station plantroom and concourse

#### **KEY ISSUES FOR THE COMING MONTH**

- 8.04 Key issues to be considered in the coming month of the Project include:
  - Implementation of dust suppression measures at all times;
  - Potential wastewater quality impact due to surface runoff;
  - Potential fugitive dust quality impact due from the dry/loose/exposure soil surface/dusty material;
  - Disposal of empty engine oil containers within site area;
  - Ensure dust suppression measures are implemented properly;
  - Silt removal facilities should be regularly maintained;
  - Management of chemical wastes;
  - Discharge of site effluent and stockpiling or disposal of materials at this area are prohibited;
  - Follow-up of improvement on general waste management issues; and
  - Implementation of construction noise preventative control measures
- 8.05 In addition, mosquito control measures should be continued to prevent mosquito breeding on site.



#### 9 CONCLUSIONS AND RECOMMENDATIONS

#### **CONCLUSION**

- 9.01 This is the **20**<sup>th</sup> monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from **1** to **30** April **2016**.
- 9.02 In the Reporting Period, **5** occasions of 24-hours TSP monitoring were conducted at A1. The monitoring results are all below the Action/ Limit Level. No Notifications of Exceedances (NOEs) or the associated corrective actions were therefore issued.
- 9.03 In the Reporting Period, total of **8** occasions of noise measurement were conducted at N1 and N2 and no exceedance were recorded.
- 9.04 No environmental complaint, notification of summons or successful prosecution was received in the Reporting Period.
- 9.05 **Four (4)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **8, 13, 20 and 27 April 2016** and the IEC was joined the site inspection on **20 April 2016**. No non-compliance was noted but two (2) observations and four (4) reminders were recorded by the ET.
- 9.06 In the Reporting Period, no site inspection was undertaken by external parties i.e. EPD.

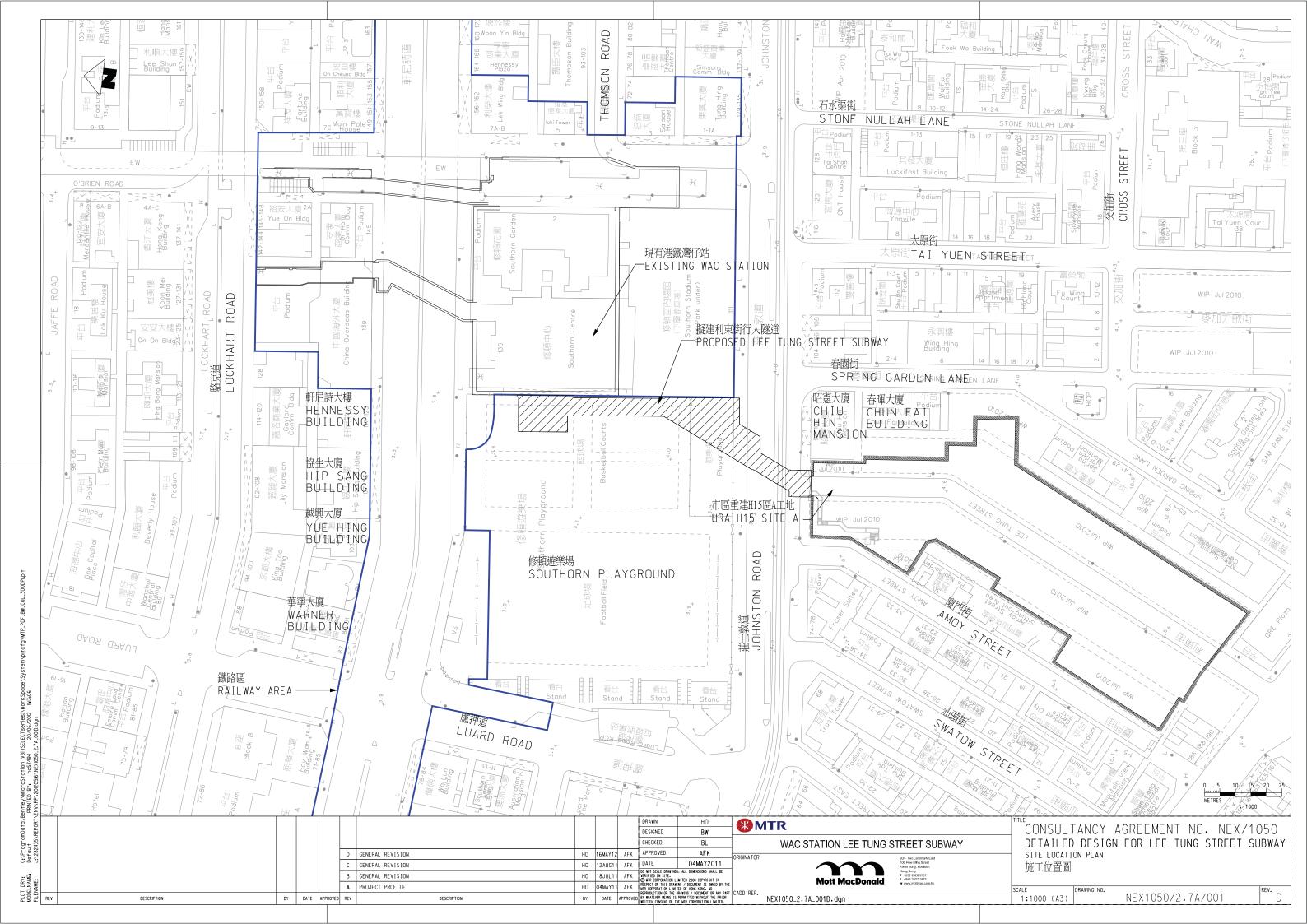
#### RECOMMENDATIONS

- 9.07 Construction noise is the key environmental issue during construction work of the Project as there are residential buildings nearby. Noise mitigation measures should be fully implemented in accordance with the EM&A requirement.
- 9.08 Also, special attention should be paid on the potential construction dust impact as the construction site is located near the residential area. The Contractor should fully implement the construction dust mitigation measures properly.
- 9.09 The Contractor should also prevent muddy water and other water pollutants via site surface water runoff get into public areas. Any discharge water should be strictly complied with wastewater discharge license requirement. As a reminder, water quality mitigation measures should be properly implemented in accordance with the EM&A requirement.
- 9.10 As a reminder, the Contractor should be regular checking and maintenance wastewater treatment facilities ensure compliance with the currently Discharge License stipulation. A warning sign should be provided all the retained trees as remind the workers prevent scratch the trees. In addition, mosquito control should be kept to prevent mosquito breeding on site.



## Appendix A

**Project Site Layout Plan** 

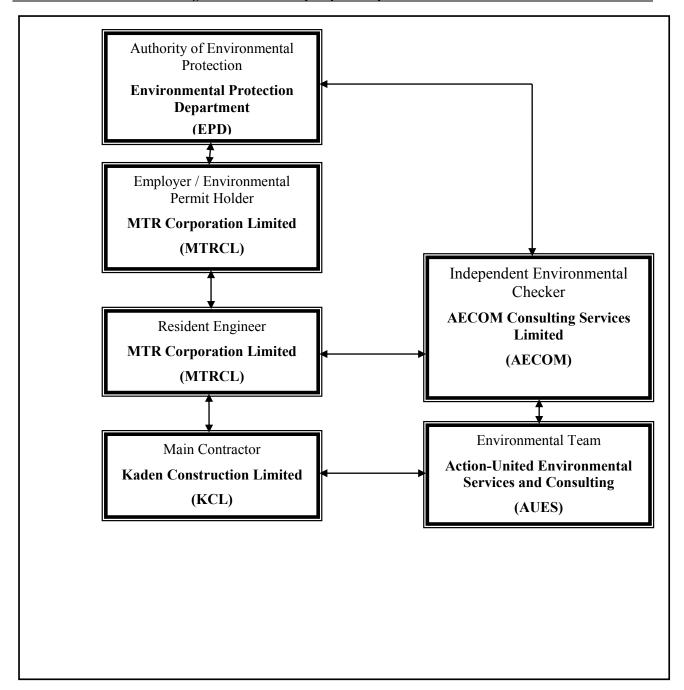




## Appendix B

Organization of the Project and Master Construction Programme







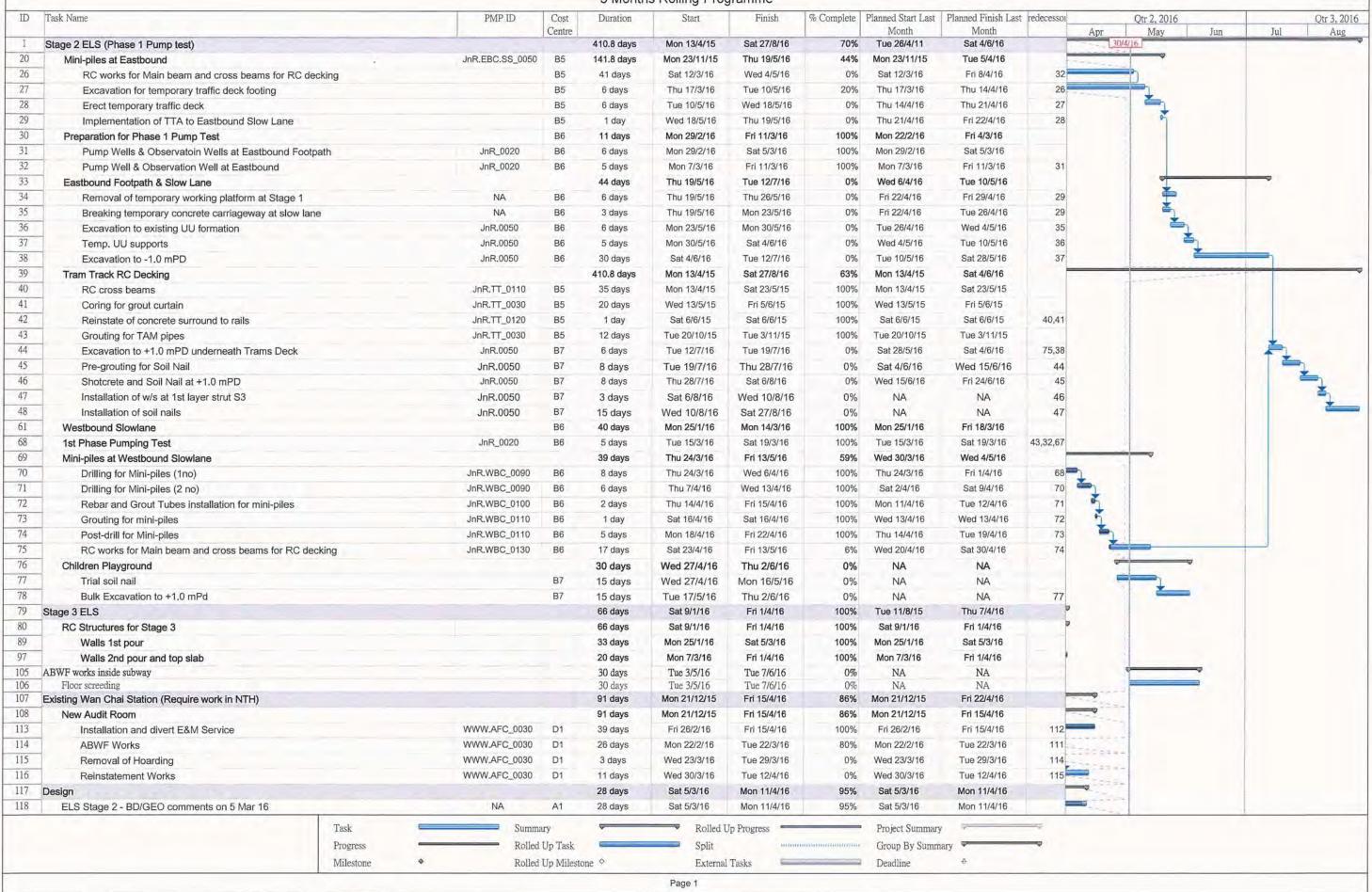
### **Contact Details of Key Personnel for the Project**

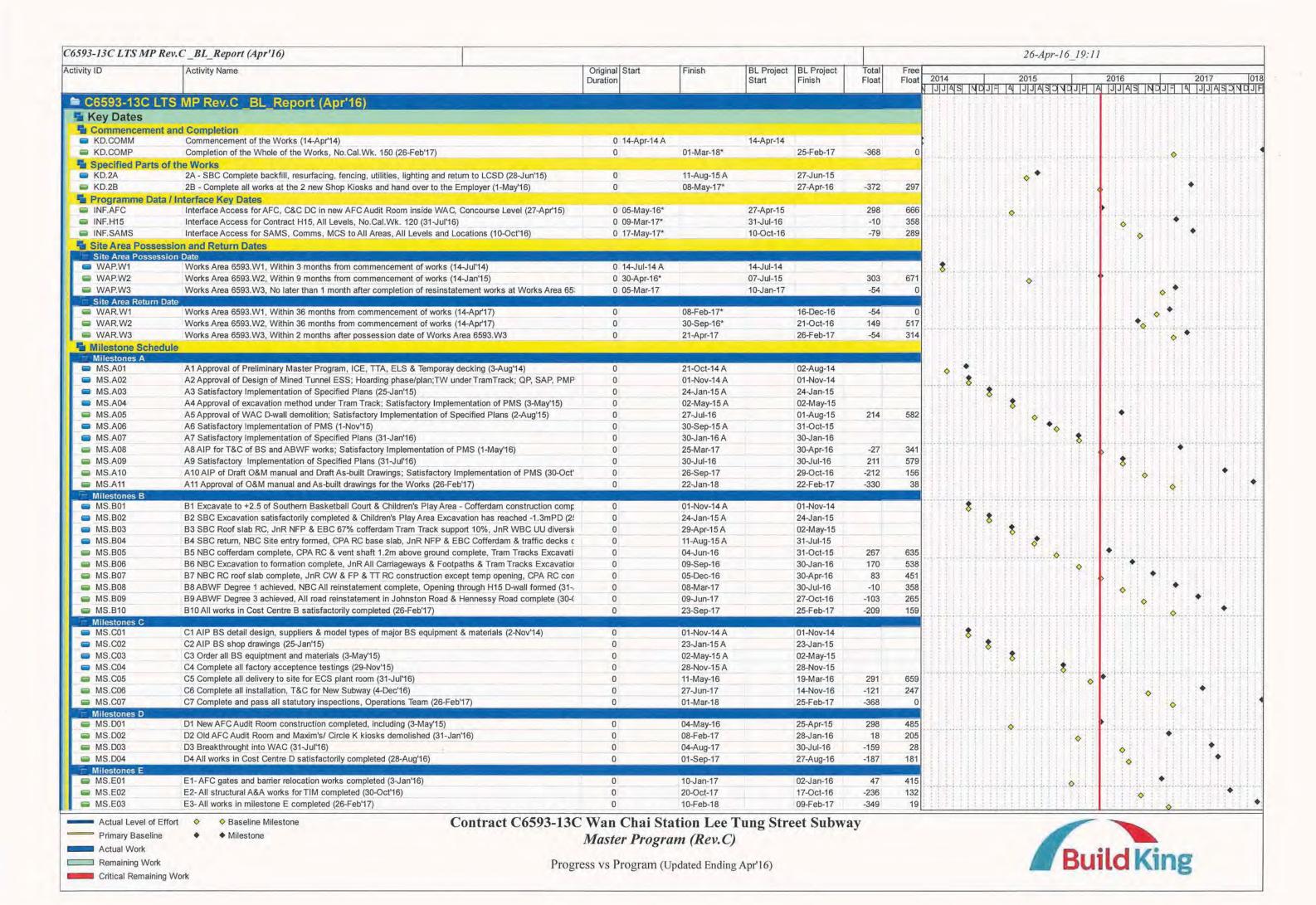
Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
MTRCL	Resident Engineer	Mr. Raymond Lee	3547 0002	3547 0090
AECOM	Independent Environmental Checker	Mr. Y. W. Fung	3922 9366	3922 9797
KCL	Project Manager	Mr. Vincent, Kwan Chun Yin	9833 1313	2770 4278
KCL	Site Agent	Mr. Chan Kam Chuen	6462 8910	2770 4278
KCL	Environmental Officer	Ms. Ricci Poon Wai Tin	9533 1115	2770 4278
AUES	Environmental Team Leader	Mr. T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Ms. Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Mr. Ben Tam	2959 6059	2959 6079
AUES	Assistant Environmental Consultant	Mr. Martin Li	2959 6059	2959 6079

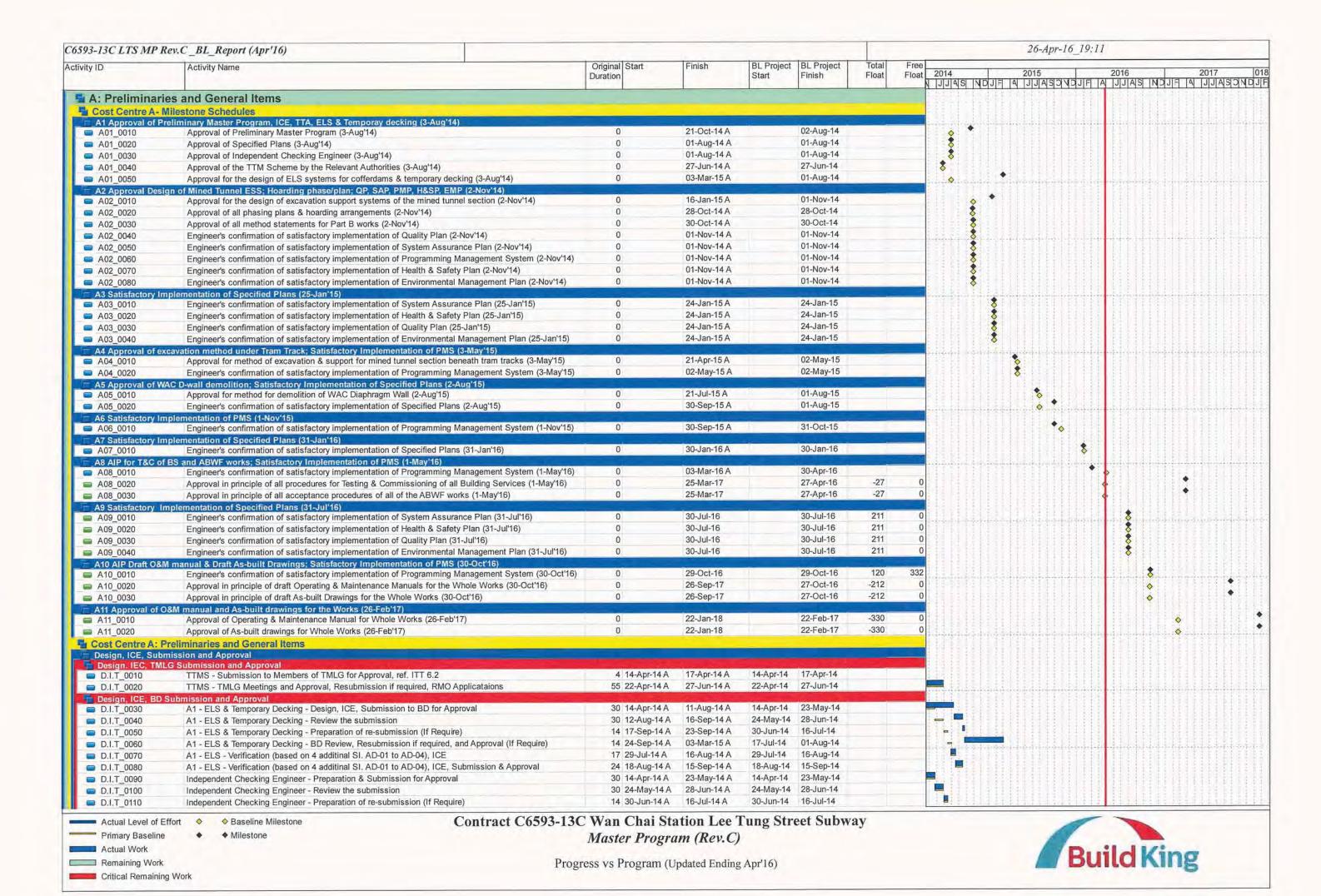
#### Legend:

MTRCL (Employer) – MTR Corporation Limited
MTRCL (Resident Engineer) – MTR Corporation Limited
KCL (Main Contractor) – Kaden Construction Limited
AECOM (IEC) – AECOM Consulting Services Limited
AUES (ET) – Action-United Environmental Services & Consulting

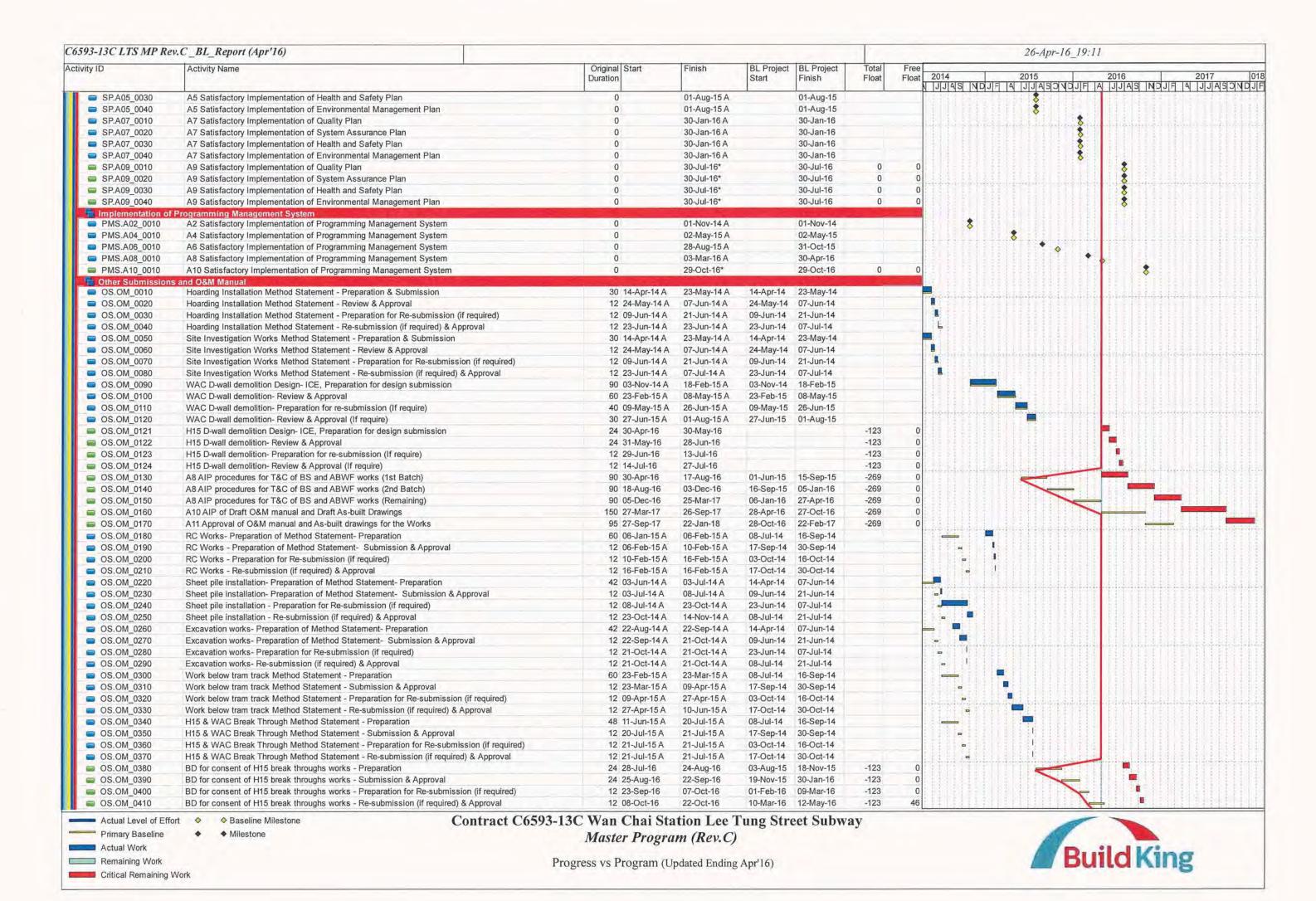
# MTR Contract C6593-13C Wan Chai Statoin Lee Tung Street Subway 3 Months Rolling Programme

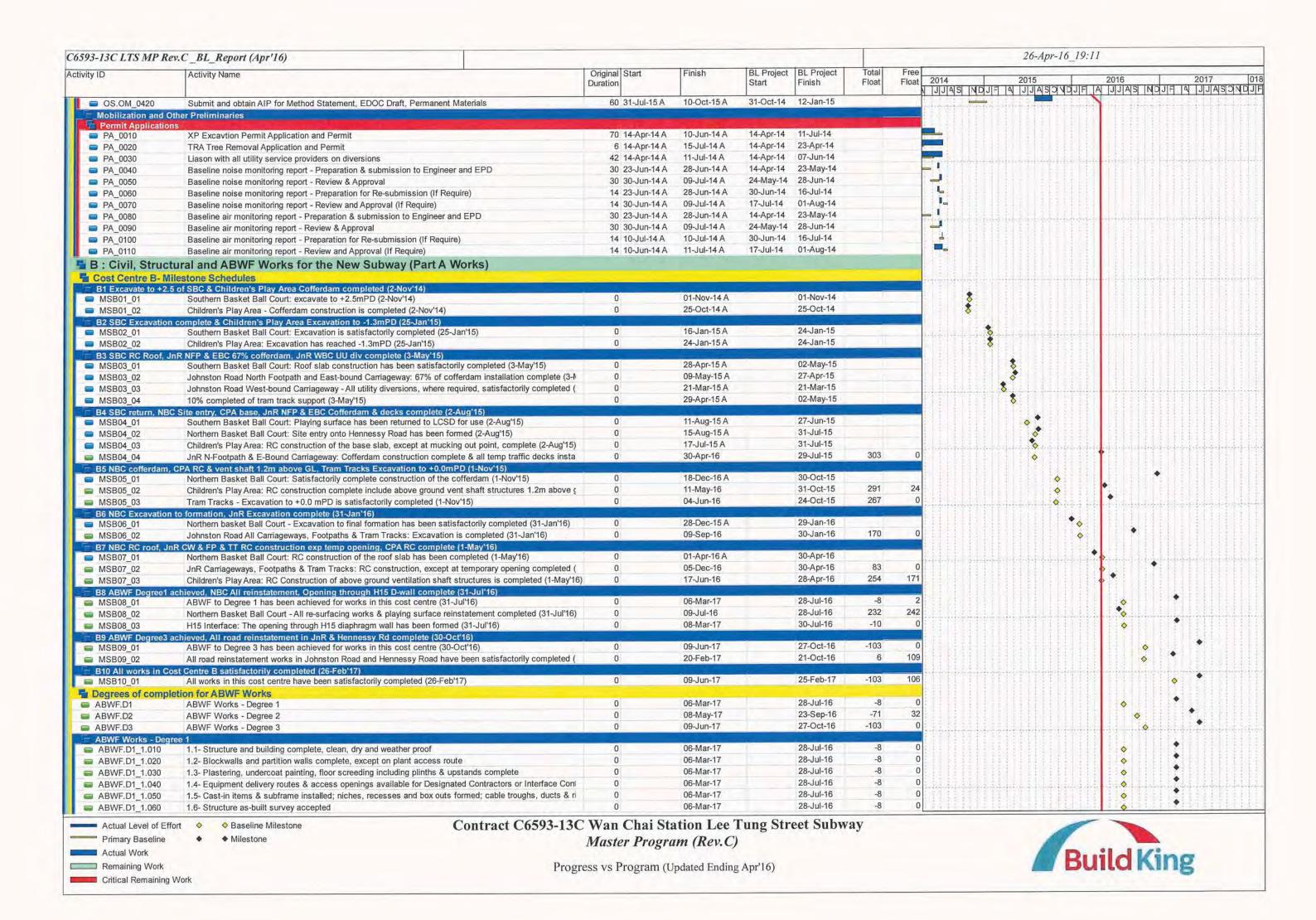






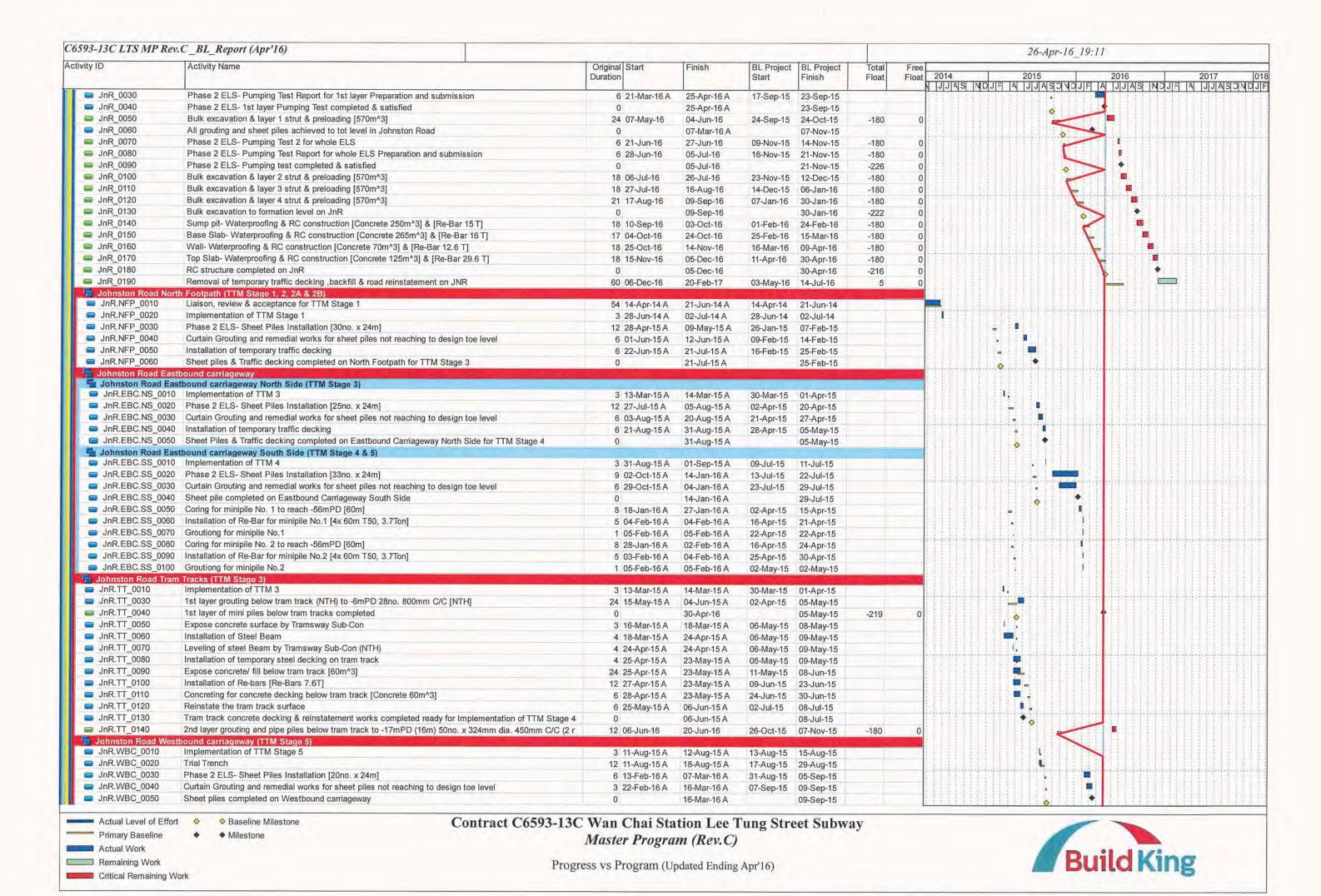
D	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free 201	Mol Life ii	2015	2016	2017
DIT 0400	Independent Checking Engineer - Resubmission if required, & Approval (If Require)	14 17-Jul-14 A	01-Aug-14 A	17-Jul-14	01-Aug-14		N J J	AS NOJE A	INDICEDIO	F A JJAS IN	TANE IN INIA
D.I.T_0120 D.I.T_0130	A2 - Excavation support system for the mined tunnel section design - Prepare, ICE and submission to BI	104 14-Apr-14 A	05-Dec-14 A		20-Aug-14						
D.I.T_0130	A2 - Excavation support system for the mined tunnel section design - Review submission	24 06-Dec-14 A	23-Dec-14 A		18-Sep-14		1 1 1 1				
D.I.T_0150	A2 - Excavation support system for the mined tunnel section design - Address comments, ICE & Resubr	12 24-Dec-14 A	03-Jan-15 A	19-Sep-14			11.55			11 111 11	
D.I.T_0160	A2 - Excavation support system for the mined tunnel section design - Review & Approval (if required)	24 05-Jan-15 A	01-Feb-15 A		01-Nov-14						Hittelili
D.I.T 0170	A4 - Excavation method under tram track and TW design - Prepare, ICE and submission to BD/ GEO for	55 14-Apr-14 A	05-Dec-14 A		08-Jan-15						
D.I.T 0180	A4 - Excavation method under tram track and TW design - Review submission	30 06-Dec-14 A	23-Dec-14 A	09-Jan-15	12-Feb-15						1111111111
D.I.T 0190	A4 - Excavation method under tram track and TW design - Address comments, ICE & Resubmission (if	30 24-Dec-14 A	03-Jan-15 A	13-Feb-15	23-Mar-15			1 _			
D.I.T 0200	A4 - Excavation method under tram track and TW design - Review & Approval (if required)	30 05-Jan-15 A	21-Apr-15 A	24-Mar-15	02-May-15				A	Ti Hittii	
Contractor Submiss											
	cified Plans and Hoarding Plan				Carlo Francis	-					
P.SP.H_0010	Submission schedule - Preparation & submission	30 14-Apr-14 A	14-May-14 A		23-May-14						
P.SP.H_0020	Submission schedule - Review & Approval	30 15-May-14 A	30-Jun-14 A	24-May-14							
P.SP.H_0030	Submission schedule - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14	16-Jul-14		1.		/	10 10 11 10	A1 11 11 11 11 11 11 11 11 11 11 11 11 1
P.SP.H_0040	Submission schedule - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14					alabata da la composita de la	Administration of the con-
P.SP.H_0050	Initial Three Month Rolling Program - Preparation & submission	14 14-Apr-14 A	28-Apr-14 A		03-May-14					11 11 11 11	41 11 11 11 11 11
P.SP.H_0060	Initial Three Month Rolling Program - Review & Approval	30 29-Apr-14 A	28-May-14 A	05-May-14	10-Jun-14					11 11 11 11 11	
P.SP.H_0070	Initial Three Month Rolling Program - Preparation for Re-submission (If Require)	14 29-May-14 A	12-Jun-14 A	11-Jun-14	26-Jun-14					11 11 111	
P.SP.H_0080	Initial Three Month Rolling Program - Review and Approval (If Require)	14 13-Jun-14 A	26-Jun-14 A	27-Jun-14	14-Jul-14			1111111111			
P.SP.H_0090	Preliminary Master Program - Preparation & submission	47 14-Apr-14 A	20-Jun-14 A	14-Apr-14	13-Jun-14				4-1-1-4-1-1-1-4-4		his construction
P.SP.H_0100	Preliminary Master Program - Review & Approval	14 21-Jun-14 A	19-Jul-14 A	14-Jun-14	30-Jun-14		- 115			11 11 111	
P.SP.H_0110	Preliminary Master Program - Preparation for Re-submission (If Require)	14 16-Sep-14 A	30-Sep-14 A	02-Jul-14	17-Jul-14				/1:12:11/7	12 311111	
P.SP.H_0120	Preliminary Master Program - Review and Approval (If Require)	14 30-Sep-14 A	22-Oct-14 A	18-Jul-14	02-Aug-14					17 111111	
P.SP.H_0130	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation & submission	30 14-Apr-14 A	23-May-14 A		23-May-14		- 1	1111111111	/- X 7 / 1 / /	11 11 11 11 11	
P.SP.H_0140	Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval	14 24-May-14 A	10-Jun-14 A		10-Jun-14						44-44-44-44
P.SP.H_0150	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require)	14 11-Jun-14 A	26-Jun-14 A	11-Jun-14				1 1 1 1 1 1 1 1 1 1			
P.SP.H_0160	Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require)	30 24-Jun-14 A	01-Aug-14 A		01-Aug-14			1111111	A	11 111111	
P.SP.H_0170	Environmental management plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A	and the second s	23-May-14						
P.SP.H_0180	Environmental management plan - Review & Approval	30 15-May-14 A	12-Jun-14 A	The second second	28-Jun-14						
P.SP.H_0190	Environmental management plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14					and the state of		
P.SP.H_0200	Environmental management plan - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14						
P.SP.H_0210	Appoint Environmental team- submit for engineer approval	30 14-Apr-14 A	23-May-14 A		23-May-14						
P.SP.H_0220	Appoint Environmental team - Review & Approval	30 27-Jun-14 A	11-Jul-14 A	The second secon	28-Jun-14						
P.SP.H_0230	Appoint Environmental team - Preparation for Re-submission (If Require)	14 14-Apr-14 A	14-May-14 A	30-Jun-14							
P.SP.H_0240	Appoint Environmental team - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14					older beträckt	4-1-1-1-2-2-1-2-2-1
P.SP.H_0250	Quality Plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A		23-May-14						
P.SP.H_0260	Quality Plan - Review & Approval	30 15-May-14 A	12-Jun-14 A	30-Jun-14	28-Jun-14					10 111111	
P.SP.H_0270	Quality Plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A								444414411
P.SP.H_0280	Quality Plan - Review and Approval (If Require)	14 17-Jun-14 A	11-Jul-14 A 14-May-14 A		01-Aug-14 23-May-14						
P.SP.H_0290	Health and Safety Plan - Preparation & submission	30 14-Apr-14 A	12-Jun-14 A	24-May-14							
P.SP.H_0300	Health and Safety Plan - Review & Approval	30 15-May-14 A 14 13-Jun-14 A	26-Jun-14 A	30-Jun-14			I.				
P.SP.H_0310	Health and Safety Plan - Preparation for Re-submission (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14						
P.SP.H_0320	Health and Safety Plan - Review and Approval (If Require)	30 14-Apr-14 A	14-May-14 A		23-May-14						
P.SP.H_0330	System Assurance Plan - Preparation & submission		12-Jun-14 A		28-Jun-14						
P.SP.H_0340	System Assurance Plan - Review & Approval	30 15-May-14 A	26-Jun-14 A	30-Jun-14			T.				
P.SP.H_0350	System Assurance Plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A 14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14				41111111111		
P.SP.H_0360	System Assurance Plan - Review and Approval (If Require)		30-Apr-14 A		15-Aug-14				/1:13:31:17		
P.SP.H_0370	A2 Hearding phase - Preparation & submission	100 14-Apr-14 A	30-Apr-14 A 30-May-14 A		13-Aug-14 13-Sep-14				1 1 1 1 1 1 1 1 1 1		
P.SP.H_0380	A2 Hoarding phase - Review & Approval	24 02-May-14 A 12 31-May-14 A	14-Jun-14 A		27-Sep-14				11-13-11-17		
P.SP.H_0390	A2 Hoarding phase - Preparation for Re-submission (If Require)	12 31-May-14 A 24 16-Jun-14 A	28-Jun-14 A		28-Oct-14		1714				
P.SP.H_0400 Implementation of	A2 Hoarding phase - Review and Approval (If Require)	24 10-Juli-14 A	20 0011-1474	20-00p-14	20 000 14	TEUET					
SP.A02_0010	A2 Satisfactory Implementation of Quality Plan	0	01-Nov-14 A		01-Nov-14			8			
SP.A02_0010	A3 Satisfactory Implementation of System Assurance Plan	0	01-Nov-14 A		01-Nov-14			8			
SP.A03_0020	A3 Satisfactory Implementation of Health and Safety Plan	0	01-Nov-14 A		01-Nov-14		111	8			
SP.A03_0030	A3 Satisfactory Implementation of Environmental Management Plan	0	01-Nov-14 A		01-Nov-14		1.3.4	\$			
SP.A03_0040	A3 Satisfactory Implementation of Quality Plan	0	24-Jan-15 A		24-Jan-15			8			
SP.A03_0050	A3 Satisfactory Implementation of System Assurance Plan	0	24-Jan-15 A		24-Jan-15			*			
SP.A03_0060	A3 Satisfactory Implementation of Health and Safety Plan	0	24-Jan-15 A		24-Jan-15		111	*			
SP.A03_0070	A3 Satisfactory Implementation of Environmental Management Plan	0	24-Jan-15 A		24-Jan-15			*			
SP.A05_0010	A5 Satisfactory Implementation of Quality Plan	0	01-Aug-15 A		01-Aug-15		FAF		8		
SP.A05_0020	A5 Satisfactory Implementation of System Assurance Plan	0	01-Aug-15 A		01-Aug-15				\$		
		7 TT 01 101		D	-46-1	5.				_	
Actual Level of Effe	ort   Baseline Milestone  Contract C6593-13C	Wan Chai Sta	tion Lee	lung Str	eet Subwa	ıy			1		
Primary Baseline	♦ Milestone	Master Progra	m (Rev.C.						No. of		
Actual Work		0	, , , , ,						All I was	uild K	10





ity ID	Activity Name	Original Start	Finish	BL Project	BL Project	Total	Free		
*=		Duration	-	Start	Finish	Float	Float 201	114 2015 2016  J  4  5  N  D  F  4  J  J  5  V  D  F  A  J  J  A	2017
■ ABWF.D1_1.070	1.7- Structural & blockwork E&M openings formed & survey complete	0	06-Mar-17	1	28-Jul-16	-8	0 13		3 14491 14 1994
BWF.D1_1.080	1.8- Movement joints & stitch strips complete	0	06-Mar-17		28-Jul-16	-8	0		•
■ ABWF.D1_1.090	1.9- Drainage system & discharge connections complete with temporary pumps operational	0	04-Mar-17		27-Jul-16	-6	2		
■ ABWF.D1_1.100	1.10- Escalator zones & pits complete; survey reference lines accepted	0	06-Mar-17		28-Jul-16	-8	0		•
■ ABWF.D1_1.110	1.11- Earthing mat, earthing rods & earthing pits complete & test results accepted	0	06-Mar-17		28-Jul-16	-8	0		
■ ABWF.D1_1.120	1.12- Underground pipework complete including manholes, ductworks & drawpits	0	06-Mar-17		28-Jul-16	-8	0		
■ ABWF.D1_1.130	1.13- Civil & building provisions for designated & interfacing contractors complete	0	30-Apr-16		14-Apr-14	303	311	/21//11	
ABWF Works - Degr			1000						
■ ABWF.D2_2.010	2.1- Permanent door frames installed with temporary doors and locks	0	28-Apr-17		15-Sep-16	-61	10		<b>•</b>
■ ABWF.D2_2.020	2.2- Floor finishes & wall tilling in plant rooms for Designated Contractors complete	0	08-May-17		23-Sep-16	-71	0	/ 0.0 4 6 3 .0 4 3 7 .0 3 .0 1 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	•
ABWF.D2_2.030	2.3- Glazing & Balustrade support installed	0	20-Mar-17		11-Aug-16	-22	49		
■ ABWF.D2_2.040	2.4- Metal staircases, cat-ladders & catwalks complete	0	28-Apr-17		15-Sep-16	-61	10		
■ ABWF.D2_2.050	2.5- External louvers installed	0	28-Apr-17		15-Sep-16	-61	10	<u> </u>	<b>\langle</b>
■ ABWF.D2_2.060	2.6- Framework for final finishes installed	0	28-Apr-17		15-Sep-16	-61	10		•
■ ABWF.D2_2.070	2.7- Water tightness testing to water tanks passed	0	28-Apr-17		15-Sep-16	-61	10	/40/06/14/14/10/06/14/14/14/14/14/14	<b>o</b>
ABWF Works - Degr			00 1 47	_	07.0-140	400			
ABWF.D3_3.010	3.1-All finishes complete including permanent doors, ironmongery	0	09-Jun-17		27-Oct-16	-103	0	/88   18   18   18   18   18   18   18	<b>*</b>
■ ABWF.D3_3.020	3.2- Balustrade installed	0	09-Jun-17		27-Oct-16	-103	0		
ABWF.D3_3.030	3.3- Signage hangers & supports installed     3.4- Roller shutters, fire shutters & smoke barriers installed	0	06-Jun-17 06-Jun-17		24-Oct-16 24-Oct-16	-100 -100	3		•
<ul><li>■ ABWF.D3_3.040</li><li>■ ABWF.D3_3.050</li></ul>	3.4- Roller shutters, fire shutters & smoke parners installed 3.5- Acoustic treatment applied	0	06-Jun-17 06-Jun-17	-	24-Oct-16 24-Oct-16	-100	3	/88   68   6   6   6   7   7   8   8   8   8   8   7   7   7	•
	3.6- Louvres & grilles installed	0	06-Jun-17	_	24-Oct-16	-100	3	/ 8   8   8   8   8   9   1   8   8   1   1   1   1   1   1   1	•
■ ABWF.D3_3.060	The state of the s	0					3		•
■ ABWF.D3_3.070	3.7- All openings & Penetrations sealed	0	06-Jun-17		24-Oct-16	-100	3		
	und Reprovision works  LCSD handover Northern Basket Ball Court 1	1 09-Feb-17	00 Feb 47	17 Dec 10	17 Dec 16	40	0		
RW_0010 RW 0020	Fence off the site	2 10-Feb-17	09-Feb-17 11-Feb-17	17-Dec-16	17-Dec-16 20-Dec-16	-40 -40	0	/2  01    01  01  11  11  1   01  01	
		6 13-Feb-17	18-Feb-17	100000000000000000000000000000000000000		-40 -40	0		
RW_0030 RW_0040	Expose the surface Resurfacing works	14 20-Feb-17	07-Mar-17	21-Dec-16 30-Dec-16		<del>-4</del> 0	0		
RW_0050	Hand over to LCSD, additional remedial if require	5 08-Mar-17	13-Mar-17	17-Jan-17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-40	0		all from the later when
RW_0060	LCSD handover Southern Basket Ball Court 2	1 14-Mar-17	14-Mar-17	23-Jan-17		-40	0	/21:14:11:12:11:13:11)	
RW_0000	Fence off the site	2 15-Mar-17	16-Mar-17		25-Jan-17	-40	0	/815181111711111111111111	
RW_0080	Expose the surface	6 17-Mar-17	23-Mar-17	26-Jan-17	04-Feb-17	-40	0	/15:11:11:11:11:11:11:11:11:11:11	
RW 0090	Resurfacing works	13 24-Mar-17	08-Apr-17		20-Feb-17	-40	0		
RW 0100	Hand over to LCSD, additional remedial if require	5 10-Apr-17	18-Apr-17	21-Feb-17		-40	3	and stated determined by the determined the stated at the	delicated delicated
	rt A Works, Civil and Structural Works for the New Subway	0 1071pi 11	107 (рі-17	2110011	2010011	10			
B.RC_Comp	RC Structure completed for the new subway	0	05-Dec-16		30-Apr-16	-216	0		•
Site Preliminary Wo			1.2.	The second					A. I. H. H. I. H.
SPW_0010	LCSD handover SBC & Play's Area	3 14-Apr-14 A	The second secon	14-Apr-14			-		
SPW_0020	Fence off the Site area for SBC & Play's Area		23-Apr-14 A				- 111		
SPW_0030	Employ security guard & security booth delivery	3 24-Apr-14 A	26-Apr-14 A	24-Apr-14				. 8 (   1   1   1   1   1   1   1   1   1	
SPW_0040	Removal of existing furniture for SBC & Play's Area as require	6 28-Apr-14 A	05-May-14 A	28-Apr-14					
SPW_0050	Trial trenches and expose existing UU service in SBC & Play's area	40 14-Apr-14 A	05-Jun-14 A		05-Jun-14				
SPW_0060	Setting up site office & misc.	50 07-May-14 A		07-May-14				in the contract of the contrac	
SPW_0070	Form site access for vehicle	12 07-Jul-14 A	19-Jul-14 A		19-Jul-14				
■ SPW 0080	Diversion of existing utilities & misc. works if require for SBC & Play's Area	24 09-Jun-14 A	07-Jul-14 A	09-Jun-14					ALLES THE FIRE
		40 40 1001	00 1 1 1 1				11 11 1		
SPW_0090	Erect hoarding for SBC	12 16-Jul-14 A	29-Jul-14 A	and the second second second	21-Jul-14		9 1 1		THE RESERVE OF THE RE
■ SPW_0090 ■ SPW_0100	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area	18 08-Jul-14 A	28-Jul-14 A	08-Jul-14	28-Jul-14				
SPW_0090 SPW_0100 SPW_0110	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal		The second second second	and the second second second	28-Jul-14				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal	18 08-Jul-14 A 72 24-Apr-14 A	28-Jul-14 A 21-Jul-14 A	08-Jul-14 24-Apr-14	28-Jul-14 21-Jul-14				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal I Court Liaison with relevance parties for TTM	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A	08-Jul-14 24-Apr-14 02-Apr-15	28-Jul-14 21-Jul-14 13-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020 NBC_0030	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020 NBC_0030 NBC_0040	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 3 11-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020 NBC_0030 NBC_0040 NBC_0050	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM Relocation of metal fence access door for public	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 3 11-Aug-15 A 6 11-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 11-Jul-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020 NBC_0030 NBC_0040 NBC_0050 NBC_0060	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM Relocation of metal fence access door for public Hoarding installation, installation of site entry on Hennessy Road	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 3 11-Aug-15 A 6 11-Aug-15 A 5 11-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 15-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 11-Jul-15 18-Jul-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15				
SPW_0090 SPW_0100 SPW_0110 Northern Basket Bal NBC_0010 NBC_0020 NBC_0030 NBC_0040 NBC_0050 NBC_0060 NBC_0070	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM Relocation of metal fence access door for public Hoarding installation, installation of site entry on Hennessy Road Expose UU & trial trench for sheet piles works	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 3 11-Aug-15 A 6 11-Aug-15 A 5 11-Aug-15 A 12 17-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 15-Aug-15 A 20-Aug-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 11-Jul-15 18-Jul-15 01-Aug-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15 14-Aug-15			i i i i i i i i i i i i i i i i i i i	
■ SPW_0090 ■ SPW_0100 ■ SPW_0110 ■ Northern Basket Bal ■ NBC_0010 ■ NBC_0020 ■ NBC_0030 ■ NBC_0040 ■ NBC_0050 ■ NBC_0060 ■ NBC_0070 ■ NBC_0080	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM Relocation of metal fence access door for public Hoarding installation, installation of site entry on Hennessy Road Expose UU & trial trench for sheet piles works Phase 3 ELS- Sheet Piles Installation [104 no. x 24m]	18 08-Jul-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 3 11-Aug-15 A 6 11-Aug-15 A 5 11-Aug-15 A 12 17-Aug-15 A 48 24-Aug-15 A	28-Jul-14 A 21-Jul-14 A 02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 15-Aug-15 A 20-Aug-15 A 23-Sep-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 11-Jul-15 18-Jul-15 01-Aug-15 15-Aug-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15 14-Aug-15 12-Oct-15				
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<ul><li>■ SPW_0090</li><li>■ SPW_0100</li><li>■ SPW_0110</li></ul>	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal  I Court Liaison with relevance parties for TTM LCSD handover Northern Basket Ball Court for LTS construction works Preparation works for NBC site access Implementation of TTM Relocation of metal fence access door for public Hoarding installation, installation of site entry on Hennessy Road Expose UU & trial trench for sheet piles works Phase 3 ELS- Sheet Piles Installation [104 no. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test	18 08-Jul-14 A 72 24-Apr-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 3 11-Aug-15 A 6 11-Aug-15 A 5 11-Aug-15 A 12 17-Aug-15 A 48 24-Aug-15 A 15 30-Sep-15 A 12 09-Oct-15 A 6 27-Oct-15 A	28-Jul-14 A 21-Jul-14 A 21-Jul-14 A  02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 20-Aug-15 A 20-Aug-15 A 23-Sep-15 A 13-Oct-15 A 26-Oct-15 A 01-Nov-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 18-Jul-15 01-Aug-15 15-Aug-15 13-Oct-15 31-Oct-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15 14-Aug-15 12-Oct-15 30-Oct-15 27-Oct-15 06-Nov-15 13-Nov-15			i i i i i i i i i i i i i i i i i i i	
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SPW_0090 SPW_0100 SPW_0110 Northern Basket Ball NBC_0010 NBC_0020 NBC_0030 NBC_0040 NBC_0050 NBC_0060 NBC_0070 NBC_0080 NBC_0100 NBC_0110 NBC_0110 NBC_0110 NBC_0130  Actual Level of Efformary Baseline	Erect hoarding for SBC  Ground/ Site Investigation in SBC & Play's Area  Transplant and tree removal  I Court  Liaison with relevance parties for TTM  LCSD handover Northern Basket Ball Court for LTS construction works  Preparation works for NBC site access  Implementation of TTM  Relocation of metal fence access door for public  Hoarding installation, installation of site entry on Hennessy Road  Expose UU & trial trench for sheet piles works  Phase 3 ELS- Sheet Piles Installation [104 no. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 3 ELS- Pumping Test preparation works  Phase 3 ELS- Pumping Test  Phase 3 ELS- Pumping Test Report Preparation and submission to BD  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m]  Contract C6593-13C	18 08-Jul-14 A 72 24-Apr-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 6 11-Aug-15 A 5 11-Aug-15 A 12 17-Aug-15 A 48 24-Aug-15 A 15 30-Sep-15 A 12 09-Oct-15 A 6 27-Oct-15 A 6 02-Nov-15 A	28-Jul-14 A 21-Jul-14 A 21-Jul-14 A  02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 20-Aug-15 A 20-Aug-15 A 23-Sep-15 A 13-Oct-15 A 26-Oct-15 A 01-Nov-15 A 10-Nov-15 A	08-Jul-14 24-Apr-14 02-Apr-15 29-Jun-15 07-Jul-15 11-Jul-15 11-Jul-15 01-Aug-15 15-Aug-15 13-Oct-15 31-Oct-15 07-Nov-15 14-Nov-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15 14-Aug-15 12-Oct-15 30-Oct-15 27-Oct-15 06-Nov-15 13-Nov-15 24-Nov-15	ay			
SPW_0090 SPW_0100 SPW_0110 Northern Basket Ball NBC_0010 NBC_0020 NBC_0030 NBC_0040 NBC_0050 NBC_0060 NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 NBC_0130  Actual Level of Effor	Erect hoarding for SBC Ground/ Site Investigation in SBC & Play's Area Transplant and tree removal    Court	18 08-Jul-14 A 72 24-Apr-14 A 72 24-Apr-14 A 80 02-Apr-15 A 6 11-Aug-15 A 4 11-Aug-15 A 5 11-Aug-15 A 12 17-Aug-15 A 48 24-Aug-15 A 15 30-Sep-15 A 12 09-Oct-15 A 6 27-Oct-15 A 9 04-Nov-15 A	28-Jul-14 A 21-Jul-14 A 21-Jul-14 A  02-Jul-15 A 11-Aug-15 A 11-Aug-15 A 11-Aug-15 A 15-Aug-15 A 20-Aug-15 A 23-Sep-15 A 13-Oct-15 A 02-Nov-15 A 02-Nov-15 A 10-Nov-15 A	08-Jul-14 24-Apr-14  02-Apr-15 29-Jun-15 07-Jul-15 14-Jul-15 11-Jul-15 15-Aug-15 13-Oct-15 13-Oct-15 31-Oct-15 07-Nov-15 14-Nov-15	28-Jul-14 21-Jul-14 13-Jul-15 06-Jul-15 10-Jul-15 16-Jul-15 17-Jul-15 31-Jul-15 14-Aug-15 12-Oct-15 30-Oct-15 27-Oct-15 06-Nov-15 13-Nov-15 24-Nov-15	ay		i i i i i i i i i i i i i i i i i i i	King

	Activity Name	Original St	tart	Finish		BL Project	Total	Free			
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■ NBC_0140	Bulk excavation & layer 2 strut & preloading [500m^3]	15 11	1-Nov-15 A	21-Nov-15 A	25-Nov-15	11-Dec-15			100170 14001 14	1212122242311	IN MANUAL IN IN
NBC_0150	Bulk excavation & layer 3 strut & preloading [500m^3]		3-Nov-15 A	03-Dec-15 A	12-Dec-15					1.	
NBC_0160	Bulk excavation & layer 4 strut & preloading [500m^3]	21 04	4-Dec-15 A	04-Jan-16 A	06-Jan-16	29-Jan-16					
■ NBC_0170	Plate load test		5-Jan-16 A	08-Jan-16 A	30-Jan-16					1.	
■ NBC_0180	Plate load test- Preparation of report & submission to BD		9-Jan-16 A	31-Jan-16 A	06-Feb-16						
■ NBC_0190	Base Slab- Waterproofing & RC construction [Concrete 490m^3] & [Re-Bar 29.5 T]	1000	3-Jan-16 A	22-Jan-16 A	17-Feb-16						4   3   4   5   4   5   5   5   5   5   5   5
■ NBC_0200	Wall- Waterproofing & RC construction [Concrete 300m^3] & [Re-Bar 54 T]		0-Feb-16 A	08-Mar-16 A	05-Mar-16						<u> </u>
■ NBC_0210	Top Slab- Waterproofing & RC construction [Concrete 180m^3] & [Re-Bar 42.7 T]		7-Mar-16 A	01-Apr-16 A	02-Apr-16						
■ NBC_0220	Construction of flood light footing [2 nos.]			01-Apr-16 A		17-May-16					
Chicketham and and and		1000	9-Mar-16 A			and the second s	440	0		11111111111	
■ NBC_0230	Reinstatement and installation of flood light [2nos.]		9-Mar-16 A	04-May-16		24-May-16	119	0		11111111111	7
■ NBC_0240	Backfilling for Northern Basketball Court		5-May-16	19-May-16	25-May-16		119	0			(L
■ NBC_0250	Reinstate hard paving of Northern Basketball Court	1 2000	0-May-16	10-Jun-16	08-Jun-16		119	0		1111111111	
■ NBC_0260	Reinstate surface coating of Northern Basketball Court	100000000000000000000000000000000000000	1-Jun-16	24-Jun-16	30-Jun-16		119	0			<u></u>
■ NBC_0270	Hand over to LCSD, additional remedial if require	12 25	5-Jun-16	09-Jul-16		28-Jul-16	119	0		11131313131	0_
■ NBC_0280	Reinstate road surface on Hennessy Road	70 11	I-Jul-16	30-Sep-16	29-Jul-16	21-Oct-16	119	.0			
Southern Basket Ball											
■ SBC_0010	Phase 1 ELS- Sheet Piles Installation [184n. x 24m]	65 22	2-Jul-14 A	15-Nov-14 A	22-Jul-14	08-Oct-14		3			
SBC_0020	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15 15	5-Oct-14 A	15-Nov-14 A	09-Oct-14	25-Oct-14		1		11111111111	
■ SBC_0030	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [800m	21 09	9-Oct-14 A	01-Nov-14 A	09-Oct-14	01-Nov-14				11111111111	
SBC_0040	Phase 1 ELS- Pumping Test preparation works	15 16	6-Oct-14 A	08-Nov-14 A	09-Oct-14	25-Oct-14		1	<b>■</b> 6 1 17 1	MINIMI	
■ SBC 0050	Phase 1 ELS- Pumping Test	-	7-Nov-14 A	28-Nov-14 A	27-Oct-14				_t	III III III III	
■ SBC_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD		1-Dec-14 A	19-Jan-15 A	08-Nov-14						
SBC_0070	Bulk excavation & layer 2 strut & preloading [800m^3]		5-Nov-14 A	17-Dec-14 A	15-Nov-14					11111111111	.
■ SBC 0080	Bulk excavation & layer 3 strut & preloading [800m^3]		8-Dec-14 A	24-Jan-15 A	18-Dec-14					1313111111	1 4 1 2 1 2 1 2 1 2 1 4 1 1 4 1
The state of the s	Plate load test					TATE STATE OF THE PARTY OF THE					
SBC_0090		-	6-Jan-15 A	31-Jan-15 A	26-Jan-15					1111111111	
SBC_0100	Temporary Traffic Deck construction		)-Jan-15 A	28-Jan-15 A	26-Jan-15			- 6			
■ SBC_0110	Plate load test- Preparation of report & submission to BD		2-Feb-15 A	16-Mar-15 A	02-Feb-15					11111111111	4 11111111111111
■ SBC_0120	Base Slab- Waterproofing & RC construction [Concrete 420m^3] & [Re-Bar 25.3 T]		1-Sep-15 A	04-Sep-15 A	16-Feb-15					HILL HILL	
■ SBC_0130	Wall- Waterproofing & RC construction [Concrete 280m^3] & [Re-Bar 50.4 T]		2-Mar-15 A	17-Mar-15 A	09-Mar-15						
■ SBC_0140	Top Slab- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 50 T]	22 28	3-Mar-15 A	02-Apr-15 A	02-Apr-15	02-May-15					
SBC_0150	Construction of flood light footing (2 nos.)	7 14	4-May-15 A	21-May-15 A	04-May-15	11-May-15					
■ SBC_0160	Reinstatement and installation of flood light (2nos.)	3 05	5-Jun-15 A	05-Jun-15 A	12-May-15	14-May-15				Jerrin	
■ SBC_0170	Backfilling for Southern Basketball Court	6 18	8-May-15 A	16-Jun-15 A	15-May-15	21-May-15		1			
- CDC 0100	Reinstate hard paving of Southern Basketball Court	0.40	S-Jun-15 A	18-Jun-15 A	22-May-15					20111111111	
3BC 0100	Relistate hard pavilly of Southern basketball Court	9 10									
■ SBC_0180 ■ SBC_0190											
■ SBC_0190	Reinstate surface coating of Southern Basketball Court	9 20	)-Jun-15 A	29-Jun-15 A	03-Jun-15	12-Jun-15					
SBC_0190 SBC_0200	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require	9 20	)-Jun-15 A		03-Jun-15 13-Jun-15	12-Jun-15 27-Jun-15				4	
SBC_0190 SBC_0200 Children's Play Area	Reinstate surface coating of Southern Basketball Court	9 20 12 30	)-Jun-15 A	29-Jun-15 A	03-Jun-15 13-Jun-15	12-Jun-15				<u>.</u>	
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require	9 20 12 30 65 22	)-Jun-15 A )-Jun-15 A	29-Jun-15 A 11-Aug-15 A	03-Jun-15 13-Jun-15 22-Jul-14	12-Jun-15 27-Jun-15				<u>.</u>	
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]	9 20 12 30 65 22 15 15	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14	12-Jun-15 27-Jun-15 08-Oct-14				-	
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level	9 20 12 30 65 22 15 15 15 16	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14				-1-	
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works	9 20 12 30 65 22 15 15 15 16 32 27	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test	9 20 12 30 65 22 15 15 15 16 32 27 11 17	2-Jun-15 A 2-Jul-15 A 2-Jul-14 A 5-Oct-14 A 3-Oct-14 A 7-Oct-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 7-Nov-14 A 1-Dec-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 08-Nov-14	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 7-Nov-14 A 1-Dec-14 A 3-Dec-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 08-Nov-14 18-Dec-14	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 7-Nov-14 A 8-Dec-14 A 3-Dec-14 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 08-Nov-14 18-Dec-14 26-Jan-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction Bulk excavation & layer 3 strut & preloading [680m^3]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 7-Nov-14 A 4-Dec-14 A 3-Dec-14 A 3-Dec-14 A 3-Feb-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Jan-15 A 28-Feb-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 08-Nov-14 18-Dec-14 26-Jan-15 09-Feb-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction Bulk excavation & layer 3 strut & preloading [680m^3] Bulk excavation & layer 4 strut & preloading [680m^3]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 7-Nov-14 A 4-Dec-14 A 3-Dec-14 A 3-Dec-14 A 3-Jan-15 A 3-Feb-15 A 1-Mar-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Jan-15 A 28-Feb-15 A 27-Mar-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction Bulk excavation & layer 3 strut & preloading [680m^3] Bulk excavation & layer 4 strut & preloading [680m^3] Plate load test	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A 7-Oct-14 A 7-Nov-14 A 1-Dec-14 A 0-Jan-15 A 0-Jan-15 A 0-Mar-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction Bulk excavation & layer 3 strut & preloading [680m^3] Bulk excavation & layer 4 strut & preloading [680m^3] Plate load test Plate load test- Preparation of report & submission to BD	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 1-Dec-14 A 1-Dec-14 A 1-Dec-14 A 1-Dec-15 A 1-Feb-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 23-May-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0060 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120 CPA_0130	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test  Phase 1 ELS- Pumping Test Report Preparation and submission to BD  Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]  Play's Area Temporary Traffic Deck construction  Bulk excavation & layer 3 strut & preloading [680m^3]  Bulk excavation & layer 4 strut & preloading [680m^3]  Plate load test  Plate load test- Preparation of report & submission to BD  Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 8-Dec-14 A 8-Dec-14 A 9-Feb-15 A 1-Mar-15 A 0-Mar-15 A 3-Apr-15 A 3-Apr-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A 23-May-15 A 17-Jul-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15 31-Jul-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120 CPA_0130 CPA_0140	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test  Phase 1 ELS- Pumping Test Report Preparation and submission to BD  Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]  Play's Area Temporary Traffic Deck construction  Bulk excavation & layer 3 strut & preloading [680m^3]  Bulk excavation & layer 4 strut & preloading [680m^3]  Plate load test  Plate load test  Plate load test- Preparation of report & submission to BD  Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]  Wall- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 37.8 T]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23 18 18	0-Jun-15 A 0-Jun-15 A 2-Jul-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 1-Dec-14 A 1-Dec-14 A 1-Dec-14 A 1-Dec-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A 1-Mar-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A 23-May-15 A 17-Jul-15 A 06-Aug-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 09-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15 01-Aug-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15 31-Jul-15 21-Aug-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120 CPA_0130 CPA_0140 CPA_0150	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test  Phase 1 ELS- Pumping Test Report Preparation and submission to BD  Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]  Play's Area Temporary Traffic Deck construction  Bulk excavation & layer 3 strut & preloading [680m^3]  Bulk excavation & layer 4 strut & preloading [680m^3]  Plate load test  Plate load test  Plate load test- Preparation of report & submission to BD  Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]  Wall- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23 18 18 20 07	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 8-Dec-14 A 8-Dec-14 A 9-Feb-15 A 1-Mar-15 A 9-Mar-15 A 8-Apr-15 A 3-Apr-15 A 3-Apr-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A 23-May-15 A 17-Jul-15 A 06-Aug-15 A 11-Sep-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 27-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15 01-Aug-15 22-Aug-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15 31-Jul-15 21-Aug-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120 CPA_0130 CPA_0140 CPA_0150 CPA_0150 CPA_0160	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test  Phase 1 ELS- Pumping Test Report Preparation and submission to BD  Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]  Play's Area Temporary Traffic Deck construction  Bulk excavation & layer 3 strut & preloading [680m^3]  Bulk excavation & layer 4 strut & preloading [680m^3]  Plate load test  Plate load test  Plate load test- Preparation of report & submission to BD  Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]  Wall- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]  Ventilation Shaft Below Ground- Waterproofing & RC construction [Concrete 35m^3] & [Re-Bar 43.8 T]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23 18 18 20 07 20 22	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 5-Oct-14 A 6-Oct-14 A 7-Nov-14 A 8-Dec-14 A 8-Dec-14 A 9-Feb-15 A 1-Mar-15 A 9-Mar-15 A 8-Apr-15 A 3-Apr-15 A 3-Jun-15 A 2-Aug-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A 23-May-15 A 17-Jul-15 A 06-Aug-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 27-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15 01-Aug-15 22-Aug-15 15-Sep-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15 31-Jul-15 21-Aug-15 14-Sep-15 09-Oct-15					
SBC_0190 SBC_0200 Children's Play Area CPA_0010 CPA_0020 CPA_0030 CPA_0040 CPA_0050 CPA_0060 CPA_0070 CPA_0080 CPA_0090 CPA_0100 CPA_0110 CPA_0120 CPA_0130 CPA_0140 CPA_0150 CPA_0150 CPA_0160	Reinstate surface coating of Southern Basketball Court  Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]  Curtain Grouting and remedial works for sheet piles not reaching to design toe level  Phase 1 ELS- Pumping Test preparation works  Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test  Phase 1 ELS- Pumping Test Report Preparation and submission to BD  Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]  Play's Area Temporary Traffic Deck construction  Bulk excavation & layer 3 strut & preloading [680m^3]  Bulk excavation & layer 4 strut & preloading [680m^3]  Plate load test  Plate load test  Plate load test- Preparation of report & submission to BD  Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]  Wall- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23 18 18 20 07 20 22	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 5-Oct-14 A 6-Oct-14 A 7-Oct-14 A 8-Dec-14 A 8-Dec-14 A 9-Feb-15 A 1-Mar-15 A 9-Mar-15 A 8-Apr-15 A 3-Apr-15 A 3-Apr-15 A	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 02-Apr-15 A 23-May-15 A 17-Jul-15 A 06-Aug-15 A 11-Sep-15 A	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 27-Oct-14 27-Oct-14 27-Oct-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15 01-Aug-15 22-Aug-15	12-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 03-Jun-15 10-Jun-15 25-Jun-15 31-Jul-15 21-Aug-15 14-Sep-15 09-Oct-15	-40	0			
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■ SBC_0190 ■ SBC_0200	Reinstate surface coating of Southern Basketball Court Hand over to LCSD, additional remedial if require  Phase 1 ELS- Sheet Piles Installation [123 No. x 24m] Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 1 ELS- Pumping Test preparation works Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m Phase 1 ELS- Pumping Test Phase 1 ELS- Pumping Test Report Preparation and submission to BD Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3] Play's Area Temporary Traffic Deck construction Bulk excavation & layer 3 strut & preloading [680m^3] Bulk excavation & layer 4 strut & preloading [680m^3] Plate load test Plate load test Plate load test- Preparation of report & submission to BD Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T] Wall- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 37.8 T] Top Slab- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T] Ventilation Shaft Below Ground- Waterproofing & RC construction [Concrete 25m^3] & [Re-Bar 4.5 Ventilation Shaft - Waterproofing & RC construction reach +7.40 & +9.50mPD [Concrete 50m^3] & [Re-Bar 4.5 Ventilation Shaft - Waterproofing & RC construction reach +7.40 & +9.50mPD [Concrete 50m^3] & [Re-E Site cleaning for Play Area reinstatement & Landscape works  Reinstatement works for Plays Area Landscape works	9 20 12 30 65 22 15 15 15 16 32 27 11 17 6 04 30 18 12 10 40 09 50 01 6 30 12 08 30 23 18 18 20 07 20 22 18 14 30 12 18 66 04 66 20	2-Jun-15 A 2-Jul-14 A 5-Oct-14 A 5-Oct-14 A 7-Oct-14 A 7-Nov-14 A 1-Dec-14 A 3-Dec-14 A 3-Dec-14 A 3-Dec-15 A 3-Feb-15 A 3-Apr-15 A 3-Apr-15 A 3-Jun-15 A 2-Aug-15 A 2-Aug-15 A 2-Aug-15 A 2-Aug-15 A 2-Aug-15 A 3-Jun-16 1-Jul-16 1-Sep-16	29-Jun-15 A 11-Aug-15 A 15-Nov-14 A 15-Nov-14 A 08-Nov-14 A 02-Dec-14 A 28-Nov-14 A 19-Jan-15 A 24-Jan-15 A 28-Feb-15 A 27-Mar-15 A 23-May-15 A 17-Jul-15 A 06-Aug-15 A 11-Sep-15 A 11-Sep-15 A 11-May-16 17-Jun-16 02-Jul-16 19-Sep-16 07-Dec-16	03-Jun-15 13-Jun-15 22-Jul-14 09-Oct-14 27-Oct-14 27-Oct-14 27-Oct-14 08-Nov-14 18-Dec-14 26-Jan-15 09-Feb-15 31-Mar-15 04-Jun-15 11-Jun-15 26-Jun-15 22-Aug-15 15-Sep-15 10-Oct-15 21-Mar-16 29-Apr-16 16-May-16 03-Aug-16	12-Jun-15 27-Jun-15 27-Jun-15 08-Oct-14 25-Oct-14 25-Oct-14 02-Dec-14 07-Nov-14 14-Nov-14 24-Jan-15 07-Feb-15 30-Mar-15 10-Jun-15 25-Jun-15 31-Jul-15 21-Aug-15 14-Sep-15 09-Oct-15 31-Oct-15 28-Apr-16 13-May-16 02-Aug-16 21-Oct-16	-40 -40 -40 -40	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
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H15,0000 Breaking out beth 5- Form posing, cost blose & wire cut, 60 no. x 0.9m x 1m blocks	H15 Break Through W									1111						51 11
H15,0000 Breaking out to H15 - Form opening, core holes & wire cut, 80 no. x 0.6m x 0.9m x 1m blocks			3	16-Dec-16	19-Dec-16	13-May-16	17-May-16	-169	0	1111		11111	111111		0	1111
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ABWF.D1_0090 Form escalator zones & pits complete; survey reference lines for acceptance 72 06-Dec-16 06-Mar-17 03-May-16 28-Jul-16 -7 0 Installation of Earthing mat, earthing rods & earthing pits, test & acceptance 72 06-Dec-16 06-Mar-17 03-May-16 28-Jul-16 -7 0 Installation of underground pipe work including manholes, ductworks & drawpits 72 06-Dec-16 06-Mar-17 03-May-16 28-Jul-16 -7 0 Installation of underground pipe work including manholes, ductworks & drawpits 72 06-Dec-16 06-Mar-17 03-May-16 28-Jul-16 -7 0 Installation of Install	■ ABWF.D1_0080	Installation of movement joints & stitch strips	72	06-Dec-16	06-Mar-17			-7	0	TITT		17777	7171711			TTIT
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ABWF.D1_0110 Installation of underground pipe work including manholes, ductworks & drawpits 72 06-Dec-16 06-Mar-17 03-May-16 28-Jul-16 -7 0  ABWF Works - Degree 2  ABWF.D2_0010 Permanent door frames installed with temporary doors & locks 42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -166 0  ABWF.D2_0020 Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors 36 21-Mar-17 08-May-17 12-Aug-16 23-Sep-16 -172 0  ABWF.D2_0030 Install Glazing & Balustrade support 12 07-Mar-17 29-Jul-16 11-Aug-16 1					Providence of the second				0	11:13	111111		1111111			3111
ABWF.D2_0010 Permanent door frames installed with temporary doors & locks 42_07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -166_0 0									0	1111	11111	1111	1111111			1111
■ ABWF.D2_0010 Permanent door frames installed with temporary doors & locks 42 07-Mar-17 29-Jul-16 15-Sep-16 -166 0 □ ■ ABWF.D2_0020 Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors 36 21-Mar-17 08-May-17 12-Aug-16 23-Sep-16 -172 0 □ ■ ABWF.D2_0030 Install Glazing & Balustrade support 12 07-Mar-17 29-Jul-16 11-Aug-16 -172 0 □ ■ ABWF.D2_0040 Install Metal staircases, cat-ladders & catwalks 42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0 □ ■ ABWF.D2_0050 Install External louvers 42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0 □ ■ Actual Level of Effort ★ Baseline Milestone Contract C6593-13C Wan Chai Station Lee Tung Street Subway			12	50 500-10	OO Mai-17	ou-way-10	20 00F-10	-1	-	11111	11111		1111111	10 14	HILLIII	1111
ABWF.D2_0020 Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors  36 21-Mar-17 08-May-17 12-Aug-16 23-Sep-16 -172 0  ■ ABWF.D2_0030 Install Glazing & Balustrade support  12 07-Mar-17 20-Mar-17 29-Jul-16 11-Aug-16 -172 0  ■ ABWF.D2_0040 Install Metal staircases, cat-ladders & catwalks  42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0  ■ ABWF.D2_0050 Install External louvers  Actual Level of Effort  ◆ ◆ Baseline Milestone  Contract C6593-13C Wan Chai Station Lee Tung Street Subway			40	07-Mar-17	28-Apr-17	20. lul 46	15-San 18	166	0	THEFT		111111				
■ ABWF.D2_0030									0	11111	111111	11111	1111111			1111
■ ABWF.D2_0040       Install Metal staircases, cat-ladders & catwalks       42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0       0         ■ ABWF.D2_0050       Install External louvers       42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0       0    Actual Level of Effort          ◆ Baseline Milestone       Contract C6593-13C Wan Chai Station Lee Tung Street Subway	and the second s			the first transfer from the property of					0				1111111	-		1111
ABWF.D2_0050 Install External louvers 42 07-Mar-17 28-Apr-17 29-Jul-16 15-Sep-16 -169 0  Actual Level of Effort ♦ Baseline Milestone Contract C6593-13C Wan Chai Station Lee Tung Street Subway									0	11111	11111	11111	1111111	-		3334
Actual Level of Effort						The state of the s			0	11111	11111	11111	1111111	-		1111
MARKET PARTIES. A A MARKET A CONTROL OF THE PARTIES AND A CONTROL OF THE P	■ ABWF.D2_0050	Install External louvers	42	07-Mar-17	28-Apr-17	29-Jul-16	15-Sep-16	-169	0	1111	11111	1111	1111111	-		1111
MARKET PARTIES.				100			100200									
MANUAL HALLERY A AMERICAN	— Actual Level of Effort	♦ Baseline Milestone Contract C6593-130	C Wan	Chai Sta	tion Lee 7	ung Stre	eet Subwa	ly						-		
Master Drogram (Day C)	Primary Baseline	♦ Milestone											100	1		
VINIOT PROGRAM (KOVI)			Muste	r Frogra	m (nev.c)							1				
Driila		12/10				and the same						1	V De		lina	
Remaining Work  Progress vs Program (Updated Ending Apr'16)  Critical Remaining Work			ress vs P	rogram (Up	odated Ending	Apr'16)						1			MILIE	

ivity ID	Activity Name	Original Start	Finish	BL Project	BL Project	Total	Free				
3	The date of grant of the second of the secon	Duration	O BOATS	Start	Finish	Float	Float	2014 2015		2016	2017
■ ABWF.D2_0060	Install Framework for final finishes	42 07-Mar-17	28-Apr-17	29-Jul-16	15-Sep-16	-169	0		199 19911 17		4 19979
■ ABWF.D2_0070	Water tightness testing to water tanks & acceptance	42 07-Mar-17	28-Apr-17	29-Jul-16	15-Sep-16	-169	0		83888888		
ABWF Works - Degree		and the same of							11111111		
ABWF.D3_0010	Inatall & apply all remaining finishes including permanent doors, ironmongery	27 09-May-17	09-Jun-17		27-Oct-16	-172	0				
■ ABWF.D3_0011	Installation of VE Panel [591m^2]	33 29-Apr-17	09-Jun-17	17-Sep-16	27-Oct-16	-82	0		+		
<ul><li>■ ABWF.D3_0012</li><li>■ ABWF.D3_0013</li></ul>	Installation of Ceiling Panel [565 m^2] Installation of floor finishing [565 m^2]	33 29-Apr-17	09-Jun-17	24-Sep-16		-82 -82	0				
■ ABWF.D3_0020	Install Balustrade	27 09-May-17 27 09-May-17	09-Jun-17	24-Sep-16 24-Sep-16	CONTRACTOR OF THE PARTY OF THE	-172	0	168616111611111			
■ ABWF.D3_0030	Install Signage hangers & supports	30 29-Apr-17	09-Jun-17 06-Jun-17		24-Oct-16	-169	0		11111111		
■ ABWF.D3_0040	Install smoke barriers	30 29-Apr-17	06-Jun-17	17-Sep-16		-169	0		4344411		
■ ABWF.D3_0050	Apply Acoustic treatment	30 29-Apr-17	06-Jun-17	17-Sep-16		-169	0		+++++++		
■ ABWF.D3_0060	Install Louvres & grilles	30 29-Apr-17	06-Jun-17	17-Sep-16		-169	0	14	11 11 11 11 11		
■ ABWF.D3 0070	Seal All openings & Penetrations	30 29-Apr-17	06-Jun-17		24-Oct-16	-169	0		11111111		
C: Building Servi		00 20 / Ipi 17	oo cuii ii	11 Oct 10	21.000.10	100			1111111111		
	ings, Materials & Equipments Submission and Approval										
BS.DS_0010	BS Works- Preparation and submission for detailed design of BS works	128 14-Apr-14 A	18-Sep-14 A	14-Apr-14	18-Sep-14				THITTIT	Tirtitiit	
BS.DS_0020	BS Works- Review and approval for detailed design of BS works	12 19-Sep-14 A	04-Oct-14 A	19-Sep-14			1				
BS.DS_0030	BS Works- Preparation and re-submission for detailed design of BS works (If require)	12 06-Oct-14 A	18-Oct-14 A	06-Oct-14					12 12 13 13 13		THE PE
BS.DS_0040	BS Works- Review and approval for detailed design of BS works (If require)	12 20-Oct-14 A	01-Nov-14 A	20-Oct-14	the state of the s				11111111		
BS.DS_0050	BS Works- Contractor prepare & submit the propose suppliers & model types of major BS equipment & r	128 14-Apr-14 A	18-Sep-14 A	14-Apr-14					15161111		
BS.DS 0060	BS Works- Review & approval the propose suppliers & model types of major BS equipment & materials	12 19-Sep-14 A	04-Oct-14 A		04-Oct-14		-				
BS.DS_0070	BS Works- Contractor prepare & re-submit propose suppliers & model types of major BS equipment & m	12 06-Oct-14 A	18-Oct-14 A		18-Oct-14			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111		
BS.DS 0080	BS Works- Review the propose suppliers & model types of major BS equipment & materials (If requie)	12 20-Oct-14 A	01-Nov-14 A	20-Oct-14						HI HILLIAN	
BS.DS_0090	BS Works- Preparation and submission of BS shop drawings	32 03-Nov-14 A	09-Dec-14 A	03-Nov-14			- 1		11111111	111111111	
BS.DS 0100	BS Works- Review and approval of BS shop drawings	12 10-Dec-14 A	23-Dec-14 A		23-Dec-14				11111111		
BS.DS_0110	BS Works- Preparation and re-submission of BS shop drawings (If require)	12 24-Dec-14 A	09-Jan-15 A	24-Dec-14	09-Jan-15				THEFT		
BS.DS_0120	BS Works- Review and approval of BS shop drawings (If require)	12 10-Jan-15 A	23-Jan-15 A	10-Jan-15	23-Jan-15				111111111		
BS.DS_0130	Exchange of Design Information with Designated and Interfacing Contractors	100 24-Jan-15 A	30-May-15 A	24-Jan-15	30-May-15						
Procurement and Do	elivery of Materials and Equipments										
■ BS.PD_0010	All Major building service equipments & materials - Manufacture & fabrication - Procurement	50 03-Nov-14 A	02-Jan-15 A	03-Nov-14	02-Jan-15				A STREET, STRE		
BS.PD_0020	Others Major building service equipments & materials - Place order	95 03-Jan-15 A	02-May-15 A	03-Jan-15	02-May-15						
BS.PD_0030	Others Major building service equipments & materials - Manufacture & fabrication	90 04-May-15 A	19-Aug-15 A	04-May-15	19-Aug-15				ALS LOCKED IN		
BS.PD_0040	Others Major building service equipments & materials - Factory acceptance testing	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15	16-Sep-15					INTERNATION.	
BS.PD_0050	Others Major building service equipments & materials - Remedial works (If require)	36 17-Sep-15 A	31-Oct-15 A	17-Sep-15	31-Oct-15					1111111111	111111
■ BS.PD_0060	Others Major building service equipments & materials - Factory acceptance (If require)	24 02-Nov-15 A	18-Nov-15 A	02-Nov-15	28-Nov-15						
BS.PD_0070	Others Major building service equipments & materials - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	The state of the s						
BS.PD_0080	Air Handling Unit - Place Order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15							
BS.PD_0090	Air Handling Unit - Manufacture & fabrication	90 04-May-15 A	19-Aug-15 A	04-May-15							111111
BS.PD_0100	Air Handling Unit - Factory acceptance testing	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15							
BS.PD_0110	Air Handling Unit - Remedial works (If require)	36 17-Sep-15 A		17-Sep-15							
BS.PD_0120	Air Handling Unit - Factory acceptance testing (If require)	24 02-Nov-15 A	28-Nov-15 A	02-Nov-15							
BS.PD_0130	Air Handling Unit - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15			- :		A STATE OF		
BS.PD_0140	In-line Centrifugal Fan - Place Order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15							
THE RESERVE THE PARTY OF THE PA	In-line Centrifugal Fan - Manufacture & fabrication	90 04-May-15 A	19-Aug-15 A	04-May-15							
the state of the s	In-line Centrifugal Fan - Factory acceptance testing	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15							1 1 1 1 1
	In-line Centrifugal Fan - Remedial works (If require)	36 17-Sep-15 A	31-Oct-15 A	17-Sep-15							
	In-line Centrifugal Fan - Factory acceptance testing (If require)	24 02-Nov-15 A	28-Nov-15 A	02-Nov-15 30-Nov-15							
	In-line Centrifugal Fan - Delivery to Site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A								111111
BS.PD_0200	Smoke Extraction Fan - Place Order  Smoke Extraction Fan - Manufacture & fabrication	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15							111111
BS.PD_0210 BS.PD_0220	Smoke Extraction Fan - Manufacture & labilication  Smoke Extraction Fan - Factory acceptance testing	90 04-May-15 A	19-Aug-15 A	04-May-15						****	
BS.PD_0220	Smoke Extraction Fan - Factory acceptance testing  Smoke Extraction Fan - Remedial works (If require)	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15							THITT
BS.PD_0240	Smoke Extraction Fan - Factory acceptance testing (If require)	36 17-Sep-15 A	31-Oct-15 A 28-Nov-15 A	17-Sep-15 02-Nov-15							
BS.PD_0240	Smoke Extraction Fan - Pactory acceptance testing (if require)  Smoke Extraction Fan - Delivery to site/ ECS Room	24 02-Nov-15 A 90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	Control of the Contro					HILLIAM	111111
BS.PD_0260	Fan Coil Unit - Place order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15							
	Fan Coil Unit - Manufacture & fabrication	90 04-May-15 A	19-Aug-15 A	04-May-15							
AND THE RESERVE AND ADDRESS OF THE PARTY OF	Fan Coil Unit - Factory acceptance testing	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15							111111
BS.PD_0290	Fan Coil Unit - Remedial works (If require)	36 17-Sep-15 A	31-Oct-15 A	17-Sep-15					1 11111		111111
	Fan Coil Unit - Factory acceptance testing (If require)	24 02-Nov-15 A	28-Nov-15 A	02-Nov-15							111111
	Fan Coil Unit - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15							HIHI
	Motorized Smoke & Fire damper - Place order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15	the plant of the later of the l				THE PURPLE		mitti
			12-2-2-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3								
Actual Level of Effort	♦ ♦ Baseline Milestone Contract C6593-13C	Wan Chai Sta	tion Lee 7	Tung Str	eet Subw	av					
Primary Baseline	♦ Milestone				- LL NUMBER	J			1		
Actual Work		Master Progra	m (Kev.C)								
Remaining Work	24.5	ess vs Program (U		3,100				V	RI IT	ld Kin	0
											4

vity ID	Activity Name		Original Start	Finish	BL Project	BL Project	Total	Free	Marie			
			Duration		Start	Finish	Float	Float	2014 JJJAS NDJF	2015 	2016 IAI JIJIAISI NIDJ	2017 JF   4   J  J  A S
BS.PD_0330	Motorized Smoke & Fire damper - Manufacture & fabrication		90 04-May-15 A	19-Aug-15 A	04-May-15	19-Aug-15						
BS.PD_0340	Motorized Smoke & Fire damper - Factory acceptance testing		24 20-Aug-15 A	16-Sep-15 A	provide extra Contra	16-Sep-15		- 1				
BS.PD_0350	Motorized Smoke & Fire damper - Remedial works (If require)		36 17-Sep-15 A	31-Oct-15 A	17-Sep-15	31-Oct-15						
BS.PD_0360	Motorized Smoke & Fire damper - Factory acceptance testing (If require)		24 02-Nov-15 A	28-Nov-15 A	02-Nov-15					ullialia <mark>-</mark> Mad		
BS.PD_0370	Motorized Smoke & Fire damper - Delivery to site/ ECS Room		90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16						
BS.PD_0380	All Major equipment BS equipment & materials - Completed placing order		0	02-May-15 A		02-May-15				\$		
BS.PD_0390	All Major equipment BS equipment & materials - Completed all factory ac	No. 1 of Schools Schools College Colle	0	28-Nov-15 A		28-Nov-15		- 6		\$		1111111111
BS.PD_0400	All Major equipment BS equipment & materials - Completed delivery to E	CS room	0	19-Mar-16 A		19-Mar-16						
Installation of Buildi		and MAC station	17 06 Dec 16	24 Dec 46	02 May 16	22 May 16	100	0				
BS.I_0009 BS.I_0010	Installation of trucking, cable for the whole subway linking between H15 a		17 06-Dec-16	24-Dec-16	03-May-16	and the second second second second	-180	149				
BS.I 0020	Electrical - Within Stn, Distribution equip. 16 nr, cable tray & trunk 420m,		49 30-Apr-16	29-Jun-16 28-Feb-17	24-May-16	23-May-16	-31 -180	149	1111111111			
BS.I_0030	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light		50 28-Dec-16	100000000000000000000000000000000000000		03-Oct-16	-180	0				
BS.I 0040	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, ligh	t iit 9 mi, earth 170m, sign 42m.	60 01-Mar-17	16-May-17 04-Feb-17	24-May-16		-166	0				
BS.I 0050	ECS - Within WAC Stn, Grille 6 nr, air duct 115m2, damper 7 nr. ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, pain	t 60m2 domner 26m central 4	30 28-Dec-16 42 06-Feb-17	25-Mar-17	29-Jun-16		-166	0			in the state of th	
BS.I_0060	ECS - Subway, Pipe/insul.75m, fan 12m, grille 45m, airduct 1106m2, pain		24 27-Mar-17	27-Apr-17	18-Aug-16		-166	14				
BS.1 0070	FS Works - Within H15, Pipe 59m, dectector 7 nr, hose reel 1 nr	t bomz, damper son, control 41	21 09-Mar-17	01-Apr-17	01-Aug-16		-169	0				
BS.I 0080	FS Works - Subway, Pipe 155m, valve 2 nr, detectors 38 nr, hose reel 1 i	or fire outinguisher 4 pr. connec	21 03-Apr-17	01-Api-17 02-May-17	25-Aug-16		-169	11	\$151 FB 1 5			
BS.I 0090							-125	- 11				
BS.I_0100	Drainage System - Waste - Existing WSC Stn, 35 m pipe, 2 valve, 4 pit,		18 28-Dec-16 18 19-Jan-17	18-Jan-17 11-Feb-17	15-Jun-16	14-Jun-16	-125	0				
BS.I_0100	Drainage System - Waste - Subway, Pipe DI/Cl 257+18m, 7 joint, 6 OTC		18 13-Feb-17	04-Mar-17		27-Jul-16	-125	0				
BS.I 0120	Drainage System - Rainwater Discharge, Clipipe, 8+18m above/below gro		54 28-Dec-16	04-Mar-17	24-May-16		-173	0				
BS.I 0130	Cleansing Water System - Within WAC Station, 137m copper pipe, 3 gate Cleansing Water System - Subway, 87m copper pipe, 1 gate valve, 1 join					22-Sep-16	-173	0				
BS.I 0140	Installation of Air Handling Unit	U	48 06-Mar-17	06-May-17 16-May-17	28-Jul-16 24-May-16		-173	0				
BS.I_0150	Installation of In-line Centrifugal Fan		110 28-Dec-16 110 28-Dec-16	100000000000000000000000000000000000000	24-May-16		-180	0			the transfer to the	
BS.I 0160	Installation of Smoke Extraction Fan		110 28-Dec-16	16-May-17	24-May-16	Contract of the Contract of th	-180	0				
BS.I_0170	Installation of Fan Coil Unit			16-May-17 16-May-17	24-May-16		-180	0	\$1 \$1 \$1 \$1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
BS.I 0180	- 1 4 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1		110 28-Dec-16					0				
	Installation of Motorized Smoke & Fire damper		110 28-Dec-16	16-May-17	24-May-16		-180	0				
BS.I_0190	Installation & integration of control system		110 28-Dec-16	16-May-17	24-May-16		-180 -177	0			H-10-1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
BS.I_0200 INF.SAMSp	Remaining BS Works Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Lo	anations (10 Oatl16)	21 17-May-17 0	10-Jun-17 16-May-17	04-Oct-16	03-Oct-16	-79	0				
Testing and Commis		ocations (10-Oct 16)	U	16-iviay-17		03-OCI-16	-19	- 0			<b>•</b>	
	T&C ECS - Tests on Ventilation Fans, Air Balancing, Equipment & System	n Control Noise & Sound etc	24 17-May-17	14-Jun-17	04-Oct-16	01-Nov-16	-180	0	######################################			
	T&C - SAT of HV Sw Boards/ TX, LV Sw Boards & MCC, Lighting Contro		24 17-May-17	14-Jun-17	04-Oct-16		-180	0	111111111			
	T&C Fire Services - Performance Test/ FH & HR System/ Auto Fire Alam		24 17-May-17	14-Jun-17	04-Oct-16		-180	0				
BS.TC_0040	T&C Plumbing and Drainage - P&D Pumps, Control System	Oyatem	24 08-May-17	05-Jun-17	23-Sep-16		-173	0	TELLET !			
BS.TC 0050	T&C ELV System - Contol Systems		24 17-May-17	14-Jun-17	04-Oct-16		-180	0				
FSI	FSI - Integrated Test		11 15-Jun-17	27-Jun-17	02-Nov-16		-180	0				•
Statutory Inspection			11 10 0011 11	Et ouit 17	02 1101 10	111101 10	,,,,,		151636161		H REFERENCE	
BS.SIA_0010	Submit BA14 for completion of breakthrough		6 09-Mar-17	15-Mar-17	01-Aug-16	06-Aug-16	-39	0				
The state of the s	BD's acknowledgementletter obtained		24 16-Mar-17	13-Apr-17	08-Aug-16		-39	260				
	DSD/ WSD Inspection and Connection		24 06-Jun-17	04-Jul-17	24-Oct-16		-173	7	111111111			
	Connection for electricity		12 28-Jun-17	12-Jul-17			-180	0				
BS.SIA_0050	Submit Form 1 and Form 2		1 13-Jul-17	13-Jul-17	29-Nov-16	Control of the Contro	-180	0	1111111111			1
	FS Inpection / Re-inspection		12 14-Jul-17	27-Jul-17	30-Nov-16		-180	0				
	FS Defect Rectification and Approval		12 29-Jul-17	11-Aug-17	15-Dec-16		-180	0				
	Form 3 Obtained		1 12-Aug-17	12-Aug-17	31-Dec-16		-180	0	1111111111			11111111
	BD Inpection/ Re-inspection		6 14-Aug-17	19-Aug-17		09-Jan-17	-180	0				
BS.SIA_0100	EMSD-RB Pre-Inspection by MTRC Ops Team		1 21-Aug-17	21-Aug-17		10-Jan-17	-180	0				
BS.SIA 0110	Remedial Works		24 22-Aug-17	18-Sep-17		10-Feb-17	-180	119	777777777			THAT HAD 🔳
BS.SIA_0120	EMSD-RB Formal Inspection		1 12-Feb-18	12-Feb-18		11-Feb-17	-299	0				
BS.SIA_0130	Remedial Works & Re-Inspection (If Require)		6 13-Feb-18	22-Feb-18	13-Feb-17	18-Feb-17	-299	0				
BS.SIA_0140	EMSD Letter of "No Objection" Obtained/ Ready to Open		6 23-Feb-18	01-Mar-18		25-Feb-17	-299	0				
BS.SIA_Comp	Complete & pass all statutory, joint Inspection & handover to Operation Te	eam for the BS of new Subway-	0	01-Mar-18	A Property of	25-Feb-17	-368	0				<b>•</b>
	ion Works (Part B Works)											
WAC Station Modific								- 8				
	Install New Telephone Booth and associated works (NTH)		60 20-Oct-16	30-Dec-16	12-Oct-15	21-Dec-15	-270	30				
	Relocate 4 Advertising Panels (NTH)		21 09-Feb-17	04-Mar-17	29-Jan-16		-281	0			1111111111	
- All Production Conference on the Conference on	Finishing, Remedial works & site cleaning		24 05-Aug-17	01-Sep-17	01-Aug-16		-299	0				
AFC Audit Room	Thiomig, remedial works a site occurring		24 00 Mag-11	01-0cp-17	or rug to	21 Mag 10	200					1-1-1-1-1-1-1-1
	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC,	Concourse Level (3-May'15)	0	28-Dec-15 A		25-Apr-15				<b>√</b>		
Actual Level of Effort		Contract C6593-13C	Wan Chai Sta	tion Lee T	Tung Str	eet Subwa	ay					
	♦ Milestone		7.7	10 0						100		
Primary Baseline	• Willestone		Master Program	m (Rev ()								
Primary Baseline Actual Work	▼ Millestolle		Master Program	m (Rev.C)							ıild Kir	

6593-13C LTS MP Rev.	.C_BL_Report (Apr'16)								26-Apr-	16_19:11			
ctivity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float	2014 [J]J]AISI [N]D	2015   J        J		2016 [JIJIAIS  IND	2017 JIFI IAI J.J.J.AISI	0
WMW.AFC_0010	Preparation works for works in WAC station	10 28-Dec-15 A	02-Jan-16 A	13-Jan-15	23-Jan-15			10101 101 1110		1501111	001101111	11 11 199719	5 15 5
WMW.AFC_0020	Internal Hoarding in WAC station (NTH)	12 04-Jan-16 A	09-Jan-16 A	24-Jan-15	06-Feb-15					1		11.111111	1111
■ WMW.AFC_0030	Construct new AFC/Audit Room next to Entrance B1, B2, ABWF & BS Works (NTH)	60 28-Dec-15 A	04-May-16	07-Feb-15	25-Apr-15	-300	0	1111111				1111111111	1111
Existing AFC Aduit F	Room, Maxim's & Circle K Kiosks			200	41.4			TITTE					TITE
■ WMW.K_0010	Liaison with MTR/ relevance parties for modification works of existing Kiosks & Audit Room	36 05-May-16	17-Jun-16	27-Apr-15	09-Jun-15	-300	0	1111111				4 1 1 4 4 1 E 4 3	1111
■ WMW.K_0020	Internal Hoarding in WAC station (NTH)	12 18-Jun-16	02-Jul-16	10-Jun-15	24-Jun-15	-300	0	1111111	\ \			111111111	311
■ WMW.K_0030	Modification Works to existing AFC/Audit, Store & Kiosk 3 & 5 (NTH)	90 04-Jul-16	19-Oct-16	25-Jun-15	10-Oct-15	-300	0					110101111	111
■ WMW.K_0040	Modification to existing Kiosk 2 (NTH)	90 20-Oct-16	08-Feb-17	12-Oct-15	28-Jan-16	-300	0	Milli					
ABWF Works & Mis	sc Works									<b>\</b>			1111
WMW.ABWF_0010	ABWF - Plaster & titling 29 m2, baffling ceiling 10 m2, metal cladding 9 m2	70 09-Feb-17	08-May-17	29-Jan-16	27-Apr-16	-300	0	11111111					
Breaking Out WAC	Station												1111
■ WMW.BO_0010	Installation protection measurement for break through	2 09-May-17	10-May-17	03-May-16	04-May-16	-299	0	1111111				1	
■ WMW.BO_0020	Breaking out WAC Station - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m blocks	54 11-May-17	14-Jul-17	05-May-16	09-Jul-16	-299	0				-		
■ WMW.BO_0030	Breaking out WAC Station - Installation of temporary steel proping	30 17-May-17	21-Jun-17	11-May-16	16-Jun-16	-280	19	THITTE					7773
■ WMW.BO_0040	Breaking out WAC Station - Construct the portal frame	12 15-Jul-17	28-Jul-17	11-Jul-16	23-Jul-16	-299	0						
■ WMW.BO_0050	Demolish the propping steel members	6 29-Jul-17	04-Aug-17	25-Jul-16	30-Jul-16	-299	0	1111111				1 1 1 1 1 0 1	111
Testing and Commi	issioning						1	1111111		/			111
■ WMW.C_0010	Testing and Commissioning	30 06-Mar-17	10-Apr-17	26-Feb-16	05-Apr-16	-281	19						
WMW.K_Comp	Specified Part 2B - Complete all works at the 2 new Shop Kiosks and hand over to the Employer - Progra	0	08-May-17		27-Apr-16	-372	0	THURST			TTTTT		TIT
E. WAC Station I	mporvement Works (Part C Works)												
Improvement Work								. 1 1 1 1 1 1 1				1111111111	1111
■ WIW 0010	Modify, provide & install new glass barrier to suit new AFC gates (NTH)	34 20-Oct-16	28-Nov-16	12-Oct-15	20-Nov-15	37	0	1111111				111111111	111
■ WIW 0020	Provide and install additional AFC gates (NTH)	34 29-Nov-16	10-Jan-17	21-Nov-15		37	0	1111111					111
■ WIW 0030	Provide builder works for TIMS relocation (NTH)	40 02-Sep-17	20-Oct-17	29-Aug-16		-299	0					11-11-11-1	
■ WIW 0040	T&C by Designated Contractor for TIMS (NTH)	40 21-Oct-17	07-Dec-17	18-Oct-16		-299	0	1111111				111111111	
■ WIW_0050	Make Good builder works for TIMS (NTH)	53 08-Dec-17	10-Feb-18	03-Dec-16		-299	0	111111					
WIW Comp	E3- All works in milestone E completed - Programmed	0	10-Feb-18	30 200 10	09-Feb-17	-365	0	3171111				THILLIA	111

Contract C6593-13C Wan Chai Station Lee Tung Street Subway

Master Program (Rev. C) ♦ Baseline Milestone Actual Level of Effort Primary Baseline ♦ Milestone Actual Work Remaining Work

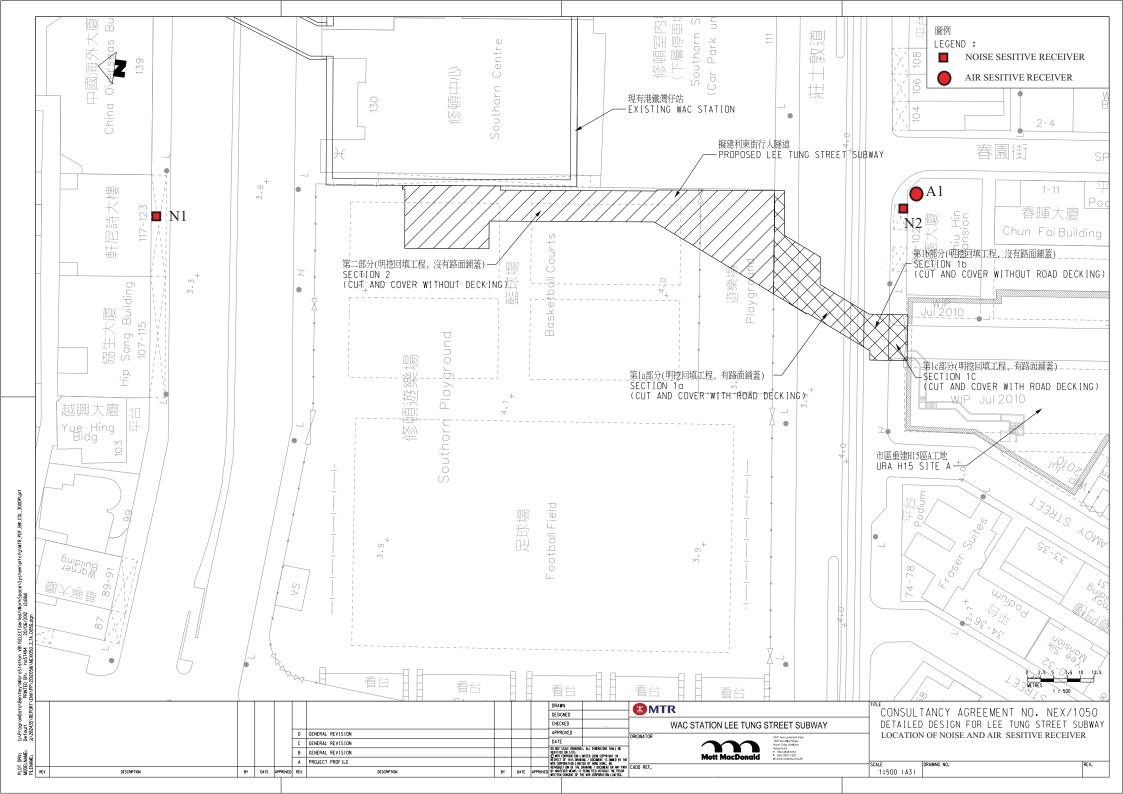
Critical Remaining Work





# **Appendix C**

**Monitoring Locations** 





# Appendix D

Calibration Certificate of Monitoring Equipment

#### TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Chiu Hin Mansion

Date of Calibration: 13-Feb-16

Location ID: A1

Next Calibration Date: 13-May-16

Technician: Mr. Ip Ka Hing

#### **CONDITIONS**

Sea Level Pressure (hPa) Temperature (°C) 1012.5 23.1 Corrected Pressure (mm Hg)
Temperature (K)

759.375

#### **CALIBRATION ORIFICE**

Make-> TISCH Model-> 5025A Serial # -> 1941

Qstd Slope -> Qstd Intercept ->

2.10265 -0.00335

#### **CALIBRATION**

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.5	6.5	13	1.721	52	52.31	Slope = 32.4312
13	5.1	5.1	10.2	1.525	47	47.28	Intercept = -3.1140
10	4.1	4.1	8.2	1.367	41	41.25	Corr. coeff. = 0.9978
7	2.9	2.9	5.8	1.150	33	33.20	
5	1.5	1.5	3	0.828	24	24.14	

#### Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration ( deg K

Pstd = actual pressure during calibration ( mm Hg

#### For subsequent calculation of sampler flow:

1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)

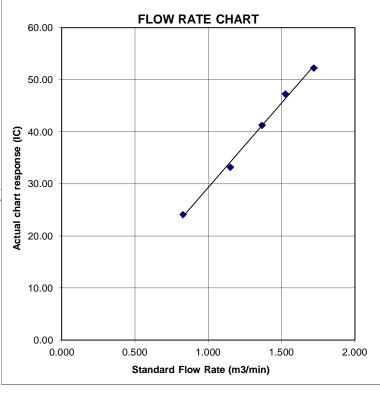
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





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

Date - Ma Operator		Rootsmeter Orifice I.I	-/	438320 1941	Ta (K) - Pa (mm) -	292 756.92
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	1.4880 1.0510 0.9360 0.8920 0.7360	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

#### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
1.0121 1.0078 1.0057 1.0046 0.9993	0.6802 0.9589 1.0745 1.1262 1.3578	1.4258 2.0163 2.2543 2.3644 2.8515	0.9958 0.9916 0.9895 0.9884 0.9832	0.6692 0.9434 1.0571 1.1080 1.3358	0.8784 1.2422 1.3888 1.4566 1.7568
Ostd slo intercep coeffici	t (b) = ent (r) =	2.10265 -0.00335 0.99999	Qa slor intercer coeffici	ot (b) =	1.31664 -0.00206 0.99999

#### 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.: C153244

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC15-0720)

Date of Receipt / 收件日期: 11 June 2015

Description / 儀器名稱

Integrating Sound Level Meter (EQ009)

Manufacturer / 製造商

Brüel & Kjær

Model No. / 型號 Serial No. / 編號

2238 2285722

Supplied By / 委託者

Action-United Environmental Services and Consulting

Unit A, 20/F., Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 温度 : (23 ± 2)°C

Line Voltage / 雷壓:

Relative Humidity / 相對濕度:  $(55 \pm 20)\%$ 

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 June 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within 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

Project Engineer

Certified By

核證

Engineer

Date of Issue 簽發日期

16 June 2015

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 & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, I Hing On Lane, Tuen Mun. New Territories. Hong Kong 師創工程有限公司 - 核正及檢測實驗所

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/傳章L: 2744 8986

E-mail/Ili #1: callab(a) supereation.com

Website/Illfil: www.suncreation.com

Page 1 of 4



#### Sun Creation Engineering Limited

Calibration and Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No.: C153244

證書編號

- 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 using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment:

Equipment ID

Description

Certificate No.

CL280 CL281 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator C150014 DC130171

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

#### 6.1.1.1 Before Self-calibration

	UUT	Setting		Applied	UUT	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
50 - 130	LAFP	A	F	94.00	1	94.2

#### 6.1.1.2 After Self-calibration

UUT Setting				Applied Value		UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec. (dB)	
50 - 130	LAFP	A	F	94.00	1	94.0	± 0.7	

#### 6.1.2 Linearity

	UU	Γ Setting		Applie	d Value	UUT Reading (dB)	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
50 - 130	LAFP	A	F	94.00	1	94.0 (Ref.)	
				104.00		104.0	
				114.00	1	114.0	

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

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.: C153244

證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

	UUT	Setting		Applie	d Value	UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec.	
50 - 130	LAFP	A	F	94.00	1	94.0	Ref.	
	L <sub>ASP</sub>		S		1100 (	94.1	± 0.1	
	L <sub>AIP</sub>		I			94.1	± 0.1	

6.2.2 Tone Burst Signal (2 kHz)

	UUT	Setting		App	lied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration	Reading (dB)	Type 1 Spec. (dB)
30 - 110	L <sub>AFP</sub>	A	F	106.0	Continuous	106.0	Ref.
	L <sub>AFMax</sub>				200 ms	104.9	$-1.0 \pm 1.0$
	L <sub>ASP</sub>		S		Continuous	106.0	Ref.
	L <sub>ASMax</sub>				500 ms	101.9	$-4.1 \pm 1.0$

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appli	ed Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	LAFP	A	F	94.00	31.5 Hz	54.4	-39.4 ± 1.5
					63 Hz	67.7	$-26.2 \pm 1.5$
				125 Hz	77.8	$-16.1 \pm 1.0$	
					250 Hz	85.3	$-8.6 \pm 1.0$
					500 Hz	90.7	$-3.2 \pm 1.0$
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.0$
					4 kHz	95.0	$+1.0 \pm 1.0$
					8 kHz	92.8	-1.1 (+1.5; -3.0)
					12.5 kHz	89.7	-4.3 (+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.: C153244

證書編號

6.3.2 C-Weighting

	UUT	Setting		Appli	ed Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	L <sub>CFP</sub>	C	F	94.00	31.5 Hz	90.8	$-3.0 \pm 1.5$
					63 Hz	93.1	$-0.8 \pm 1.5$
					125 Hz	93.8	$-0.2 \pm 1.0$
					250 Hz	94.0	$0.0 \pm 1.0$
					500 Hz	94.0	$0.0 \pm 1.0$
					1 kHz	94.0	Ref.
					2 kHz	93.8	$-0.2 \pm 1.0$
					4 kHz	93.2	$-0.8 \pm 1.0$
					8 kHz	90.9	-3.0 (+1.5; -3.0
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0

6.4 Time Averaging

UUT Setting					Applied Value					UUT IEC 60804			
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)			
30 - 110	LAcq	A	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5			
		1 1				1/102		90	89.7	± 0.5			
			60 sec.			1/103		80	79.2	± 1.0			
			5 min.	1		1/104		70	69.2	±1.0			

Remarks: - UUT Microphone Model No.: 4188 & S/N: 2812707

- 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 :  $\pm 0.30 \text{ dB}$  1 kHz :  $\pm 0.20 \text{ dB}$  2 kHz - 4 kHz :  $\pm 0.35 \text{ dB}$  8 kHz :  $\pm 0.45 \text{ dB}$ 12.5 kHz :  $\pm 0.70 \text{ dB}$ 

12.5 kHz : ± 0.70 dB : 1 kHz : ± 0.10 dB (Ret

104 dB : 1 kHz  $\pm$  0.10 dB (Ref. 94 dB) 114 dB : 1 kHz  $\pm$  0.10 dB (Ref. 94 dB) Burst equivalent level  $\pm$  0.2 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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#### Sun Creation Engineering Limited

Calibration and Testing Laboratory

# Certificate of Calibration 校正證書

證書編號

Certificate No.: C153052

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC15-0720)

Date of Receipt / 收件日期: 15 May 2015

Description / 儀器名稱

Acoustical Calibrator (EQ082)

Manufacturer/製造商

Brüel & Kjær

Model No. / 型號

4231

Serial No. / 編號

2713428

Supplied By / 委託者

Action-United Environmental Services and Consulting

Unit A, 20/F., Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 温度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓:

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 4 June 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within 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

K C Lee

Project Engineer

Certified By

核證

Date of Issue 簽發日期

5 June 2015

Engineer

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

證書編號

Certificate No.: C153052

- 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:

Description Equipment ID Certificate No. CL130 Universal Counter C143868 CL281 Multifunction Acoustic Calibrator DC130171 TST150A Measuring Amplifier C141558

- Test procedure: MA100N.
- 5. Results:

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.0		

Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

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

#### Note:

Tel/電話: 2927 2606

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.

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# **Appendix E**

**HOKLAS-Accreditation Certificate of the Testing Laboratory** 



#### Hong Kong Accreditation Service 香港認可處

### Certificate of Accreditation

認可證書

This is to certify that 特此證明

### ALS TECHNICHEM (HK) PTY LIMITED

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 為香港認可處執行機關根據認可諮詢委員會建議而接受的

### **HOKLAS Accredited Laboratory**

「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO / IEC 17025: 2005 - General requirements for the competence 此實驗所符合ISO / IEC 17025: 2005 -《測試及校正實驗所能力的通用規定》所訂的要求, of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as 獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下述測試類別中的指定 listed in the HOKLAS Directory of Accredited Laboratories within the test category of 測試或校正工作

### **Environmental Testing**

環境測試

This laboratory is accredited in accordance with the recognised International Standard ISO / IEC 17025: 2005. 本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。 This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 這項認可資格演示在指定範疇所需的技術能力及實驗所質量管理體系的運作 quality management system (see joint IAF-ILAC-ISO Communiqué). (見國際認可論壇‧國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處根據認可處執行機關的權限在此蓋上通用印章

CHAN Sing Sing, Terence, Executive Administrator

執行幹事 陳成城 Issue Date: 5 May 2009

簽發日期:二零零九年五月五日

Registration Number : HOKLAS 066

註冊號碼:



Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日



# Appendix F

**Event and Action Plan** 



### **Event and Action Plan for Construction Noise**

E4		Action		
Event	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor.  2. Carry out investigation.  3. Report the results of investigation to the IEC and Contractor.  4. Discuss with the Contractor and formulate remedial measures  5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed result submitted by ET.  2. Review the proposed remedial measures by the Contractor and advise the ER accordingly.  3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance 2. Notify Contractor 3. Require Contractor to propose remedial measures for the analyzed noise problem 4. Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC     Implement noise mitigation proposals
Limit Level	1. Notify IEC, ER, EPD and Contractor, and follow other actions  2. Identify source  3. Repeat measurement to confirm findings  4. Increase monitoring frequency  5. Check Contractor's working procedures to determine possible mitigation to be implemented  6. Inform IEC, ER and EPD the causes and actions taken for the exceedances  7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, ER informed of the results  8. If exceedance stops, cease additional monitoring	1. Discuss amongst ER, ET and Contractor on the potential remedial actions  2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly  3. Supervise the implementation of remedial measures	1. Confirm receipt of notification of exceedances  2. Notify Contractor  3. Require Contractor to propose remedial measures  4. Ensure remedial measures are properly implemented  5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance  2. Submit proposals for remedial actions to IEC within 3 working days of notifications  3. Implement the agreed proposals  4. Revise and resubmit proposals if problem still not under control  5. Stop the relevant portion of works as determined by the ER until the exceedance is abated



### **Event and Action Plan for Air Quality**

Event		Action		
Event	ET	IEC	ER	Contractor
Action Level				
Exceedance for one sample	1. Identify source;     2. If valid, inform IEC and ER;     3. Repeat measurement to confirm finding;     4. Increase monitoring frequency to daily	Check monitoring data submitted by ET;     Check Contractor's working method.	1. Notify Contractor	1. Rectify any     unacceptable     practice;     2. Amend working     methods if     appropriate
Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and EPD; 3. Repeat measurements to 1. confirm findings; 4. Increase monitoring frequency to daily; 5. Discuss with IEC and Contractor on remedial action required; 6. If exceedance continues, arrange meeting with IEC and ER; 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET;     2. Check Contractor's working method;     3. Discuss with ET and Contractor on possible remedial measures;     4. Advise the ER on the effectiveness of the proposed remedial measures;     5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing;     2. Notify Contractor;     3. Ensure remedial Measure properly implemented.	1. Submit proposals for remedial action to IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level		Lagran		
Exceedance for one sample	<ol> <li>Identify source;</li> <li>Inform ER and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and the Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing;     2. Notify Contractor;     3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify sources; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops cease additional monitoring.	1. Discuss amongst ER, ET and Contractor on the potential remedial actions;  2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly.  3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.



# Appendix G

**Monitoring Schedule** 



#### Monitoring Schedule in the Reporting Period – April 2016

	DATE	AIR QUALITY	Noise
		24-HOUR TSP	L <sub>EQ</sub> 30MIN
Fri	1-Apr-16		
SAT	2-Apr-16		
SUN	3-APR-16		
Mon	4-APR-16		
TUE	5-APR-16	✓	✓
WED	6-APR-16		
THU	7-APR-16		
Fri	8-Apr-16		
SAT	9-Apr-16		
SUN	10-Apr-16		
Mon	11-Apr-16	✓	
TUE	12-Apr-16		✓
WED	13-APR-16		
THU	14-APR-16		
Fri	15-Apr-16		
SAT	16-Apr-16	✓	
SUN	17-Apr-16		
Mon	18-Apr-16		
TUE	19-Apr-16		✓
WED	20-Apr-16		
THU	21-Apr-16		
Fri	22-Apr-16	✓	
SAT	23-APR-16		
SUN	24-Apr-16		
Mon	25-Apr-16		
TUE	26-Apr-16		✓
WED	27-APR-16		_
THU	28-APR-16	✓	
Fri	29-APR-16		
SAT	30-APR-16		

✓	Monitoring Day
	Sunday or Public Holiday

#### **Air Quality Monitoring Location**

A1 - balcony at 1/F of Chiu Hin Mansion

#### **Construction Noise Monitoring Location:**

N1 - 2/F floor of Hennessey Building

N2 - balcony at 1/F of Chiu Hin Mansion



	DATE	AIR QUALITY	Noise
		24-HOUR TSP	L <sub>eo</sub> 30min
Sun	1-May-16		·
Mon	2-May-16		
Tue	3-May-16		✓
Wed	4-May-16	✓	
Thu	5-May-16		
Fri	6-May-16		
Sat	7-May-16		
Sun	8-May-16		
Mon	9-May-16		
Tue	10-May-16	✓	✓
Wed	11-May-16		
Thu	12-May-16		
Fri	13-May-16		
Sat	14-May-16		
Sun	15-May-16		
Mon	16-May-16	✓	
Tue	17-May-16		✓
Wed	18-May-16		
Thu	19-May-16		
Fri	20-May-16		
Sat	21-May-16	✓	
Sun	22-May-16		
Mon	23-May-16		
Tue	24-May-16		✓
Wed	25-May-16		
Thu	26-May-16		
Fri	27-May-16	✓	
Sat	28-May-16		
Sun	29-May-16		
Mon	30-May-16		
Tue	31-May-16		✓

✓	Monitoring Day
	Sunday or Public Holiday

#### **Remarks:**

Designated Location for Impact noise measurement:

- N1 Hennessey Building; and
- N2 Chiu Hin Mansion

Designated Location for Impact air quality monitoring

• A1 Chiu Hin Mansion



# Appendix H

**Database of Monitoring Results** 



### **Result of 24-hour TSP Monitoring**

Location: A	ocation: A1 (balcony at 1/F of Chiu Hin Mansion)														
	C	Elapsed Time			Cł	art Rea	ding	Ave.		Standard		Filter \ (§	Weight g)	Weight	Dust 24-hour
Date	Sample Number	Initial	Final	Actual (min)	Min	Max	Ave	Temp. (°C)	Ave. Press. (hPa)	Flow Rate (m³/min)	Air Volume (std m³)	Initial	Final Dust Collected (g)	TSP in Air (μg/m³)	
5-Apr-16	29362	17724.70	17748.82	1447.20	40	41	40.5	22.3	1013.3	1.35	1954	2.8793	2.9782	0.0989	51
11-Apr-16	29408	17748.82	17772.95	1447.80	38	38	38.0	21.5	1010.1	1.27	1843	2.8683	2.9613	0.0930	50
16-Apr-16	29372	17772.95	17797.07	1447.20	40	42	41.0	22.3	1013.3	1.37	1977	2.8738	3.0281	0.1543	78
22-Apr-16	29422	17799.68	17823.78	1446.00	38	39	38.5	23.7	1010.7	1.29	1859	2.8858	3.0444	0.1586	85
28-Apr-16	29130	17823.79	17847.91	1447.20	40	45	42.5	24.1	1012.1	1.41	2036	2.8262	2.9579	0.1317	65

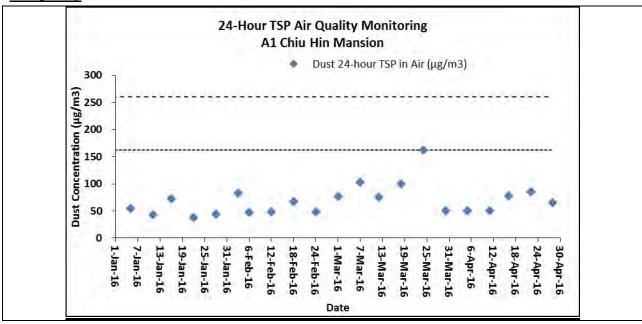


# Appendix I

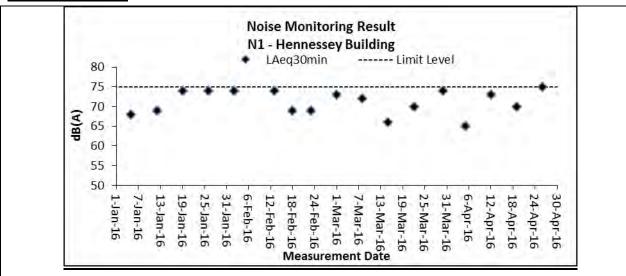
**Graphical Plots** 

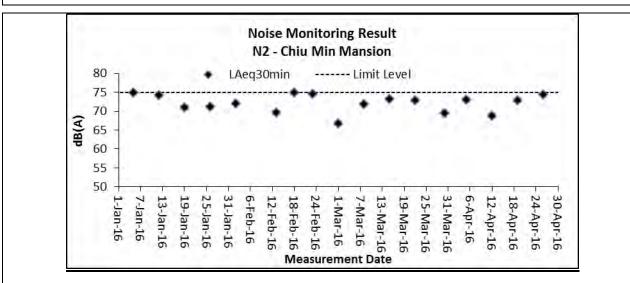


#### **Air Quality**



#### **Construction Noise**







# Appendix J

**Meteorological Information** 



Meteorological Data downloaded from HKO in the Reporting Period								
						Park Station		
Date	Date Weather		Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)		
1-Apr-16	Fri	Mainly cloudy and foggy with a few showers.	0	22.6	5.8	80.7	W/NW	
2-Apr-16	Sat	Mainly cloudy and foggy with a few showers.	Trace	22.6	7	84	W/NW	
3-Apr-16	Sun	Mainly cloudy and foggy with a few showers.	0	23.3	7.9	82.1	E/SE	
4-Apr-16	Mon	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	4.3	24.5	8	81	E/SE	
5-Apr-16	Tue	Mainly cloudy and foggy with a few showers.	Trace	25.5	8.5	87.5	E/SE	
6-Apr-16	Wed	Mainly cloudy and foggy with a few showers.	0	23.6	8.2	88	SE	
7-Apr-16	Thu	Mainly cloudy and foggy with a few showers.	0	24.5	6.7	86.2	E/SE	
8-Apr-16	Fri	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	Trace	25.3	6.5	84.7	E/SE	
9-Apr-16	Sat	Cloudy with a few showers	Trace	25.6	7.2	85	SE	
10-Apr-16	Sun	Cloudy with a few showers	22.1	23.5	9	89.5	SE	
11-Apr-16	Mon	Mainly cloudy and foggy with a few showers.	0.4	21.1	10.5	90.5	SE	
12-Apr-16	Tue	Mainly cloudy and foggy with a few showers.	11.4	20.1	13	92.5	E/SE	
13-Apr-16	Wed	Mainly cloudy and foggy with a few showers.	76.4	22.6	9.6	94.5	E/SE	
14-Apr-16	Thu	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	0.7	23	6.4	98	SE	
15-Apr-16	Fri	Cloudy and foggy with a few showers. Moderate south to southeasterly winds.	3.4	21.4	15.5	98.2	SE	
16-Apr-16	Sat	Mainly cloudy and foggy with a few showers.	Trace	24.3	9.7	89	S/SW	
17-Apr-16	Sun	Mainly cloudy and foggy with a few showers.	Trace	25.8	9.1	85	S/SW	
18-Apr-16	Mon	Cloudy with a few showers	23.1	22.9	7.2	82.2	W/NW	
19-Apr-16	Tue	Cloudy with a few showers	Trace	20.7	17.7	84.7	E/SE	
20-Apr-16	Wed	Moderate southerly winds.	Trace	21.4	14.1	84.5	SE	
21-Apr-16	Thu	Moderate southerly winds.	Trace	24.7	6.1	84.5	W/NW	
22-Apr-16	Fri	Cloudy with a few showers	8.3	23.6	9.7	80	E/SE	
23-Apr-16	Sat	Cloudy with a few showers and thunderstorms.	2.8	24.7	8	83	E/SE	
24-Apr-16	Sun	Cloudy with a few showers and thunderstorms.	41.4	24.8	7.5	88	W/NW	
25-Apr-16	Mon	Cloudy with a few showers and thunderstorms.	12.4	25.8	6.5	88	W/NW	
26-Apr-16	Tue	Sunny intervals and a few showers. Fog patches at first.	Trace	27.2	9.7	85	S/SW	
27-Apr-16	Wed	Mainly cloudy with a few showers	0.9	27.3	7.5	82	W/NW	
28-Apr-16	Thu	Mainly cloudy. A few showers later	1.7	26.4	5.5	77.5	W/NW	
29-Apr-16	Fri	Mainly cloudy with a few showers	Trace	23.8	12	74	E/NE	
30-Apr-16	Sat	Mainly cloudy with a few showers	1.5	21.8	8	79	E/NE	



# Appendix K

**Monthly Summary Waste Flow Table** 

### Wan Chai Station Lee Tung Street Subway- C6593-13C

### **Monthly Summary Waste Flow Table for 2016**

Name of Emp	oloyer: MTR Co	rporation Limi	ted								Contract No.:	C65931-13C			
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of Non-Inert C&D Wastes Generated Monthly							
Month	Total Quantity Generated	Broken Concrete	Building Debris	Mixed Rock & Soil	Bentonite	Rubbish	Slurry	Rock	Soil	Reused in this Project	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m3/ Litre)	(in m³)
Jan	0.01559	0	0	0	0	0	0	0	0.01559	0	0	0	0	0	0.001
Feb	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Mar	0.03685	0	0	0	0	0	0	0	0.03685	0	0	0	0	0	0.001
Apr	0.03399	0	0	0	0	0	0	0	0.03399	0	0	0	0	0	0.001
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.09343	0	0	0	0	0	0	0	0.08643	0	0	0	0	0	0.01



# **Appendix** L

Implementation Schedule for Environmental Mitigation Measures (ISEMM)



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
NOISE IM	PACT					
S.5.1.1	Use of quieter plant	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance
S.5.1.1	Use of noise enclosure and movable barrier	To minimize	Contractor	Work site	Construction	ProPECC PN2/93,
	movable barrier can achieve a 5 dB(A) reduction for movable PME and 10 dB(A) reduction for stationary PME;	construction noise emissions			Stage	Noise Control Ordinance and EIAO Guidance
	noise enclosure can achieve 15dB(A) reduction for PME;					Note NO. 9/2010
	• noise enclosure is proposed to be built after open excavation in order to minimize the noise impact due to further excavation work and construction of subway. The enclosure should either be provided with acoustic door for access purpose which should be kept closed during the construction works or should be designed with no direct line of sight from the open side to the NSRs;					
	• A typical design barrier with a steel frame of vertical / cantilever type would be adopted and located close to the noise generating part of PME;					
	Barrier material of surface mass in excess of 7kg/m² shall be required to achieve the maximum screening effect (and minimum 10kg/m² for noise enclosure);					
	• The length of barrier should generally be at least five times greater than its height and the minimum height of a barrier should be such that no part of the noise source will be visible from the noise sensitive receiver being protected.					
S.5.1.1	<b>General Construction Noise Control Measures</b>	To minimize	Contractor	Work site	Construction	ProPECC PN2/93
	• The Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD shall be adopted;	construction noise emissions			Stage	and Noise Control Ordinance
	The statutory and non-statutory requirements and guidelines shall be complied with;					
	Approval for the method of working, equipment and noise mitigation measures intended to be used at the site shall be granted from the Project Engineer before commencing any work;					



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
	Working methods to minimize the noise impact on the surrounding NSRs shall be formulated and executed, and the implementation of these methods shall be monitored by experienced personnel with suitable training;					
	Noisy equipment and noisy activities shall be located as far away from the NSRs as is practical;					
	Unused equipment shall be turned off;					
	PME should be kept to a minimum and the parallel use of noisy equipment / machinery should be avoided;					
	All plant and equipment shall be maintained regularly; and					
	Material stockpiles and other structures shall be effectively utilized as noise barriers, whenever practicable.					
AIR QUAL	ITY IMPACT					
S.5.1.2	Construction Dust Control Measures	To minimize the dust	Contractor	Work site	Construction	Air Pollution
	Regular watering to reduce dust emissions from all exposed site surface, particularly during dry weather;	impacts arising from the construction works			Stage	Control (Construction Dust) Regulation
	• Frequent watering for particularly dusty construction areas and areas close to air sensitive receivers;					. O
	• Covering of stockpile of excavated dusty materials, if any, with impervious sheeting or spraying with water to maintain the entire surface wet;					
	Provision of vehicle washing facilities at the entry and exit points of site;					
	Tarpaulin covering of any dusty materials being transported to and from site by vehicle;					
	• Positioning of construction plant at maximum practicable distance from air sensitive receivers; and					
	Due to the small size of the works sites and lack of space for stockpiling, excavated materials should be hauled off-site almost immediately. However, in the event of any stockpiled excavated materials, they should be covered with tarpaulin and be removed offsite as soon as practicable to avoid any dust nuisance arising					



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
WATER Q	UALITY IMPACT					
S.5.1.3	Construction Water Quality Impact Measures	To reduce water	Contractor	Work site	Construction	ProPECC PN1/94;
	Collection of wastewater into a sedimentation tank for treatment before discharge into the public drainage system;	quality impact induced by the construction work			Stage	Water Pollution Control Ordinance
	• Provision of silt trap and oil interceptor to remove the oil, lubricants, grease, silt, grit and debris from the wastewater prior to discharge to the public stormwater system. The silt traps and oil interceptors should be cleaned and maintained regularly;					
	Installation of wheel washing facilities to minimize muddy runoff;					
	Regular maintenance and inspection of drainage systems and erosion control and silt removal facilities;					
	Management and monitoring of sewage treatment facilities (if any);					
	Any foul effluent should not be discharged into any public sewer and stormwater drain, unless an effluent discharge permit is obtained under the WPCO by the Contractor;					
	Coverage of stockpiles of C&D materials (if any) during rainstorms; and					
	• Site toilet facilities, if needed, should be chemical toilets or should have the sewage discharge directed to a foul sewer.					
WASTE M	ANAGEMENT		ı			
S.5.1.4	Construction Waste Management Measures	To adopt waste	Contractor	Work site	Construction	Waste Disposal
	Scrap metals or abandoned equipment should be recycled if possible;	management measures in the way			Stage	Ordinance (Cap. 354); Waste Disposal (Chemical Waste) (General) Regulation; DEVB TCW No. 6/2010; ETWB TCW No. 19/2005.
	Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner;	of avoiding, minimizing, reusing and recycling so as to reduce waste generation				
	The Contractor should adopt a trip ticket system for the disposal of C&D materials to any designated public filling facility and/or landfill. Independent audits of the Contractor and resident site staff will be undertaken to ensure that the correct procedures are being followed;					
	Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes; and					



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
	• All general refuse should be segregated and stored in enclosed bins or compaction units and waste separation facilities for paper, aluminum cans, plastic bottles etc. should be provided to facilitate reuse or recycling of materials and their proper disposal.					
LANDSCA	PE AND VISUAL IMPACT					
S.5.1.5	Landscape and Visual Measures     Clear demarcation of works area to prevent damages to existing trees in close proximity;	To reduce landscape and visual impact by construction works.	Contractor	Work Site and nearby playground	Construction Stage	EIAO; ETWB TCW No. 3/2006.
	Protection of all trees planned to be retained onsite;					
	<ul> <li>Preserving all affected trees by transplanting where practical. Tree transplanting application and tree removal application shall be submitted for approval in accordance with ETWB TCW 3/2006; and</li> <li>Screening of construction works by hoardings/noise barriers around Works area in visually unobtrusive colors.</li> </ul>					