

AUES PROJECT NO. TCS/00704/14

CONTRACT NO. MTRC6593-13C – Wan Chai Station Lee Tung Street Subway

29th Environmental Monitoring and Audit (EM&A) Monthly Report – January 2017

PREPARED FOR Build King Construction Limited

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Version	Date	Description
1	8 February 2017	First Submission
2	13 February 2017	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

13 February 2017

Dear Sirs

Consultancy Agreement A130-13 Independent Environmental Checker for CRS and LTS LTS - Verification for 29th Monthly Environmental Monitoring and Audit (EM&A) Report (January 2017) (Report No.: CS00704/14/600/R0130v2)

We refer to the 29th Monthly EM&A Report (January 2017) received under cover of the email from the Environmental Team, AUES, dated on 8 February 2017.

Further to our comments provided on 13 February 2017 and subsequent revision of the Report by AUES on 13 February 2017, we have no further comment and have verified the captioned report (Report No.: CS00704/14/600/R0130v2).

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 **29th** monthly EM&A Report presenting the monitoring results and inspection findings for the period from **1 to 31 January 2017** (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:-

		Reporting Period	
Environmental Aspect	Environmental Monitoring Parameters / Inspection	Number of Monitoring LocationTotal Occasion	
Air Quality	24-hour TSP	1	5
Construction Noise	L _{eq(30min)} 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	Monitoring	Action Limit		Event & Action		
Aspect	Monitoring Parameters	Level		NOE Issued	Investigation	Corrective Actions
Air Quality	24-hour TSP	0	0	0	0	0
Construction Noise	Leq(30min) 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 5, 13, 19 and 26 January 2017 and the IEC was joined the site inspection on 26 January 2017. No non-compliance but five (5) observations and three (3) reminders were recorded during the site inspection.
- ES08 It is reported that the transplanted tree TR-02 for this project was collapsed due to typhoon signal No. 8 HAIMA on 22 October 2016 and the tree has been subsequently removed. Further follow-up action will be made after an agreement is reached with Leisure and Cultural Services Department (LCSD).

FUTURE KEY ISSUES

ES09 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.



- ES010 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.
- ES011 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.
- ES012 The Contractor should pay attention and implement sufficient protection to the transplanted tree for this project to avoid any damage done to the transplanted tree and prevent tree collapse in the future.



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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 **29th** monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from **1 to 31 January 2017**.

REPORT STRUCTURE

1.07 This Report is structured into the following sections:-

This Report is	s 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.

<u>Resident Engineer (RE)</u>

- 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

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

EP ConditionSubmissionStatus2.3Management Organization of Main Construction CompaniesSubmitted2.7Landscape PlanSubmitted3.3Baseline Monitoring Report (TCS00704/14/600/R0010v4)Submitted4.2Internet websitelive

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

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.	
2	Chemical Waste Producer Registration - Waste Producers Number	WPN:5213-131-K3099-01 Approved on 14/05/2014	
3		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-RS0928-16 obtained on 11
	Ordinance	August 2016
		Valid from 10 September 2016 to 09
		March 2017
		GW-RS0929-16 obtained on 14 August 2016
		Valid from 14 September 2016 to 13
		March 2017
		GW-RS1213-16 obtained on 30 November 2016
		Valid from 11 December 2016 to 10
		June 2017

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*.
 - RC structures for Subway
 - BS installation
 - ABWF (VE Panel, floor tile)
 - Breakthrough of D-wall at H15
 - demolition and modification of WAC kiosks



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	 Quality 24-hour Total Suspended Particulate (hereinafter '24-hour TSP') 1-hour TSP monitoring ^(*) 			
Construction• A-weighted equivalent continuous sound pressure level (30mi (hereinafter 'L _{eq(30min)} ' during the normal working hours				

Remarks:

(*) In case 24-hour TSP exceed the air quality criteria to be carried out

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*.

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

 Table 3-2
 Air and Noise Monitoring Locations

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.

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*.

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	

Table 3-3Air Quality Monitoring Equipment

- 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⁻¹. 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 / Rion NL-52
Calibrator	B&K Type 4231/ Rion NC-73
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 L	evels for Air (Quality Monitoring
	riction and Linne L		Zuanty monitoring

Monitoring Station	Action Level (µg /m ³)		Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
A1	290	162	500	260	

Table 3-6Action and Limit Levels for Construction Noise

Manitaning Station	0700-1900 hours on normal weekdays				
Monitoring Station	Action Level	Limit Level			
N1 and N2	When one documented	75 dB(A)			
	complaint is received	75 dD(11)			

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*.

Date	24-hour TSP (µg/m ³)	Action Level	Limit Level
5-Jan-17	75		
11-Jan-17	55		
17-Jan-17	81		
23-Jan-17	62	162	260
27-Jan-17	62		
Average (Range)	67 (55 - 81)		

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

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 4-2Noise Monitoring Results of N1 (2/F floor of Hennessey Building), dB(A)Det1st2nd3rd4th5th6th4th

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	L _{eq30min}
4-Jan-17	10:17	73.4	73.3	73.0	72.6	74.0	73.4	73
13-Jan-17	10:41	69.5	67.8	69.0	68.3	68.9	68.0	69
19-Jan-17	13:05	70.1	68.5	70.1	69.4	69.9	70.3	70
26-Jan-17	13:21	70.0	68.4	68.9	70.0	66.5	71.1	69
Limit I 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 _{eq30min}
4-Jan-17	9:32	65.5	72.3	69.9	67.4	65.4	65.5	69
13-Jan-17	11:27	69.7	70.4	69.7	69.8	68.5	68.0	69
19-Jan-17	14:01	69.5	70.5	68.5	69.0	68.0	68.5	69
26-Jan-17	14:01	70.6	69.5	69.5	71.6	72.0	68.7	70
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*.

 $[\]label{eq:listication} Z: Jobs \ 2014 \ TCS 00704 \quad (Wan Chi MTR) \ 600 \ Monthly EM&A Report \ 2017 \ January \ 2017 \ R0130v \ 2.doc \ Action-United Environmental Services and Consulting$



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 ³)	567	-
Reused in this Contract (Inert) (m ³)	0	-
Reused in other Projects (Inert) (m ³)	0	-
Disposal as Public Fill (Inert) (m ³)	567	TKO 137

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

Type of Waste	Quantity	Disposal Location
Recycled Metal (m ³)	0	-
Recycled Paper / Cardboard Packing (m ³)	0	-
Recycled Plastic (m ³)	0	-
Chemical Wastes (m ³ /L)	0	-
General Refuses (m ³)	0	-

- 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

- 6.02 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 5, 13, 19 and 26 January 2017 and the IEC was joined the site inspection on 26 January 2017.
- 6.03 No non-compliance was noted. However, five (5) observations and three (3) reminders were recorded by the ET. The findings / deficiencies observed during the weekly site inspections are listed in *Table 6-1*.

Date	Findings / Deficiencies	Follow-Up Status
5 January 2017	• The contractor was advised to treat wastewater before discharge.	 Waste water was treated before discharge.
	• Chemical containers were observed on ground. The contractor was advised to place chemical containers inside drip tray.	• Chemical containers were removed from site.
13 January 2017	• Contractor was advised to remove construction materials from tree protection zone.	• Construction materials was removed from tree protection zone.
	• The contractor was reminded to perform housekeeping.	• Not required for reminder.
19 January 2017	• The contractor was advised to treat the wastewater through AquaSed before discharge.	• Wastewater was treated by AquaSed before discharge.
26 January 2017	• The contractor was advised to place chemical containers inside drip tray.	• To be follow-up in next reporting period.
	• The contractor was reminded to remove sediment in AquaSed.	• Not required for reminder.
	• The contractor was reminded to avoid works activity near tree protection zone.	• Not required for reminder.

Table 6-1Site Observations

- 6.04 It is reported that the transplanted tree TR-02 for this project was collapsed due to typhoon signal No. 8 HAIMA on 22 October 2016 and the tree has been subsequently removed. Further follow-up action will be made after an agreement is reached with Leisure and Cultural Services Department (LCSD).
- 6.05 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	Ene en en	Cumulative	Complaint Nature					
	Frequency		Air	Noise	Water	Others		
28 Aug 2014 – 31 December 2016	0	0	NA	NA	NA	NA		
1-31 January 2017	0	0	NA	NA	NA	NA		

Table 7-2 Statistical Summary of Environmental Summons

Donouting Dowied	Environmental Summons Statistics							
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others		
28 Aug 2014 – 31 December 2016	0	0	NA	NA	NA	NA		
1-31 January 2017	0	0	NA	NA	NA	NA		

Table 7-3 Statistical Summary of Environmental Prosecution

Departing Davied	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others	
28 Aug 2014 – 31 December 2016	0	0	NA	NA	NA	NA	
1-31 January 2017	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
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Issues	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	Good 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	• Wastewater were appropriately treated by treatment facilities;
Quality	• Drainage channels were provided to convey run-off into the treatment facilities; and
	• Drainage systems were regularly and adequately maintained.
Waste and Chemical Management	• 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 works by hoardings/noise barriers around Works area in visually unobtrusive colors.
General	• The site was generally kept tidy and clean.
<u>.</u>	



TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 8.03 Construction activities as undertaken in the coming month for the Project lists below:
 - Mini-piles at Eastbound
 - Excavation at Eastbound Footpath & Slow Lane
 - Excavation at Tram Track RC Decking
 - Excavation at Westbound Slowlane
 - Excavation Children Playground
 - RC Structure Works

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 **29th** monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from **1** to **31 January 2017**.
- 9.02 In the Reporting Period, **five (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 **eight (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 5, 13, 19 and 26 January 2017 and the IEC was joined the site inspection on 26 January 2017. No non-compliance was noted but five (5) observations and three (3) reminders were recorded by the ET.
- 9.06 It is reported that the transplanted tree TR-02 for this project was collapsed due to typhoon signal No. 8 HAIMA on 22 October 2016 and the tree has been subsequently removed. Further follow-up action will be made after an agreement is reached with Leisure and Cultural Services Department (LCSD).
- 9.07 In the Reporting Period, no site inspection was undertaken by external parties i.e. EPD.

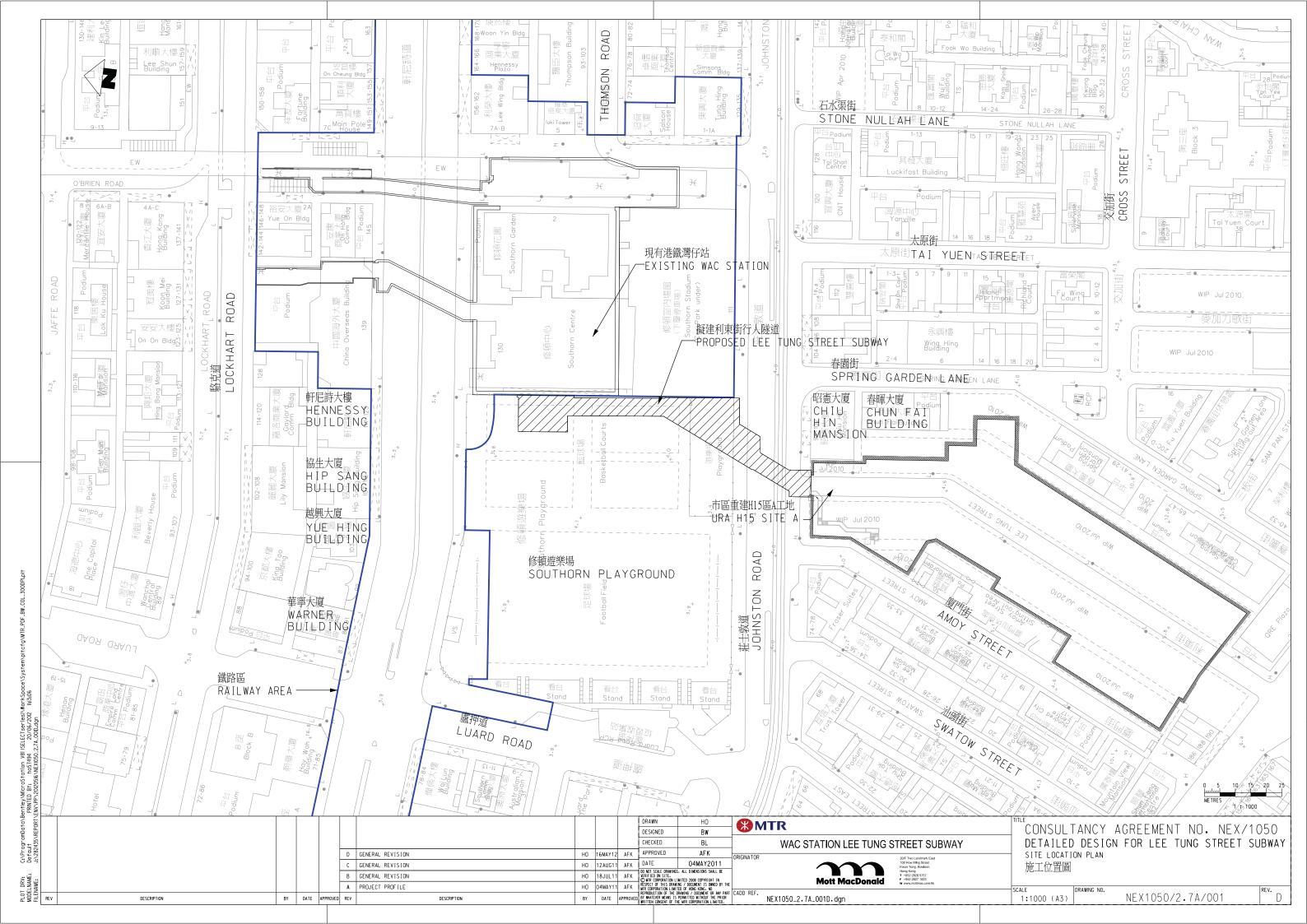
RECOMMENDATIONS

- 9.08 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.
- 9.09 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.
- 9.10 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.
- 9.11 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

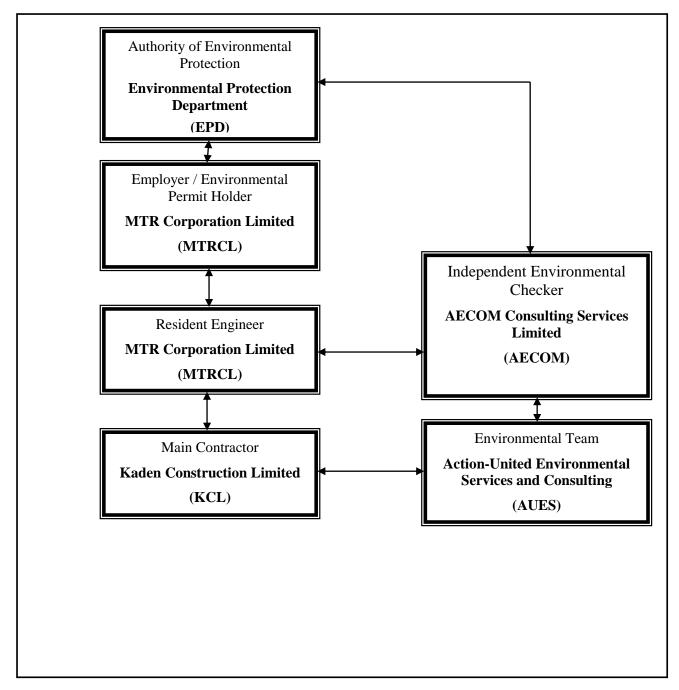




Appendix B

Organization of the Project and Master Construction Programme







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			6462 8910	2770 4278
KCL			9533 1115	2770 4278
AUES	Environmental Team Leader			2959 6079
AUES	Environmental Team LeaderMr. T. W. TamEnvironmental ConsultantMs. 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

Contact Details of Key Personnel for the Project

Legend:

MTRCL (Employer) – MTR Corporation Limited

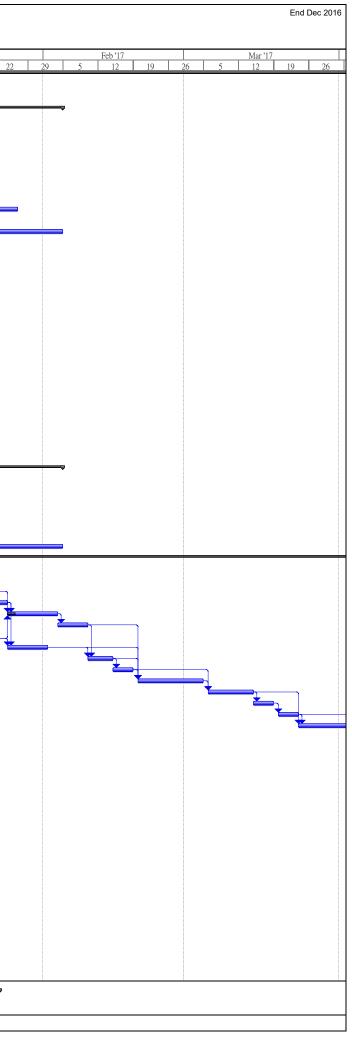
MTRCL (Resident Engineer) – MTR Corporation Limited

KCL (Main Contractor) – Kaden Construction Limited

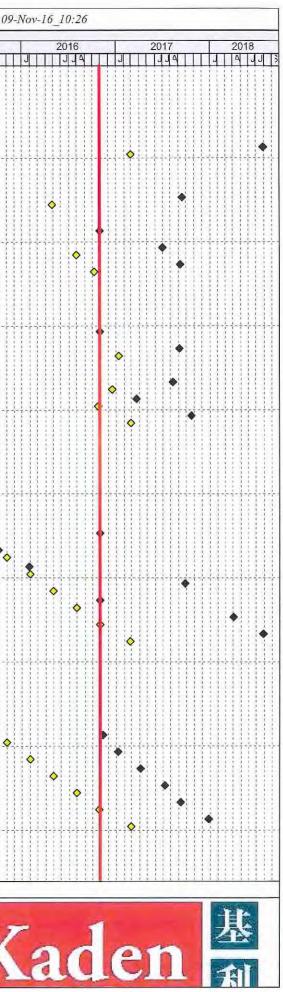
AECOM (IEC) – AECOM Consulting Services Limited

AUES (ET) – Action-United Environmental Services & Consulting

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Waling/Struk Removal (H15 to Grid J) JnR_0160 B10 4 days Mon 63/17 Tue 143/17 0% Mon 63/17 Tue 143/17 101,102 Installation of potal fame for H15 and lot 1- Top slab NA B10 4 days Mon 203/17 Tue 143/17 Stit 183/17 103 Top Slab (H15 to Grid J) JnR_0170 B10 15 days Mon 203/17 Tue 133/17 104 Walling/Struk Removal (Grid L to J) JnR_0170 B10 8 days Wed 124/17 Tue 134/17 108 Non 244/17 Tue 134/17 105, 106 Vext Shatt (Free hait) 1.2 no Roof NA B10 5 days Wed 124/17 Tre 235/17 106 Vext Shatt (Free hait) 1.2 no Roof NA B10 5 days Wed 124/17 Tre 236/17 108 107 5 days Wed 124/17 Tre 236/17 106 Vext Shatt (Free hait) 1.2 no Roof NA B10 5 days Wed 124/17 Tre 236/17 108 108 128 178 111/17 102/117 110 108 108 108 108														
Installation of portal frame for H15 fand fdt - Top slab NA B10 4 days Wed 15/3/17 Sat 18/3/17 103 Concrete encassement to sele portal b H15 - Top Slab NA B10 4 days Mon 20/3/17 Thu 23/3/17 103 Top Slab (H15 to Gid J) JnR_0170 B10 15 days Fin 24/3/17 Tun 11/4/17 0% Mon 22/3/17 Tun 31/3/17 103 Wailing/Struct Removal (Grid L to J) JnR_0170 B10 16 days Wed 12/4/17 Tun 21/3/17 106 106 106 107 108 Mon 24/4/17 Tun 21/4/17 106 106 107 108 107 108 107 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108 108														
Concrete encasement to steel portal to H15 - Top Slab NA B10 4 days Mon 20/317 Thu 23/017 Thu 23/017<														
Waling/Strut.Removal (Grid L to J) J.R. 0170 B10 8 days Wed 12/4/17 Mon 24/4/17 0% Wed 12/4/17 Tuo 25/17 106 Clearance of Falsework (14 days lead time + 2 days for removal) J.R. 0170 B10 14 days Wed 12/4/17 Tuo 25/17 0% Wed 12/4/17 Fit 28/4/17 106 106 Vent Shaft (Fresh air) 1.2m to Rood NA B10 5 days Wed 12/4/17 Thu 20/4/17 0% Wed 12/4/17 Thu 20/4/17 106 Vent Shaft (Smoke extraction) 1.2m koor NA B10 5 days Wed 12/4/17 Thu 20/4/17 0% Wed 12/4/17 Thu 20/4/17 106 Waterproofing and Protective Screeding for Subway Top Slab (Grid L to Grid J) J.R. 0170 B10 6 days Fri 21/4/17 Thu 27/4/17 Thu 27/4/17 Thu 27/4/17 110 Waterproofing and Protective Screeding for Subway Top Slab (Grid L to H15) J.R. 0170 B10 6 days Fri 21/4/17 Thu 27/4/17 Fri 21/4/17														
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Vent Shaft (Smoke extraction) up to 1.2m above ground NA B10 6 days Wet 12/4/17 Thu 20/4/17 Th														
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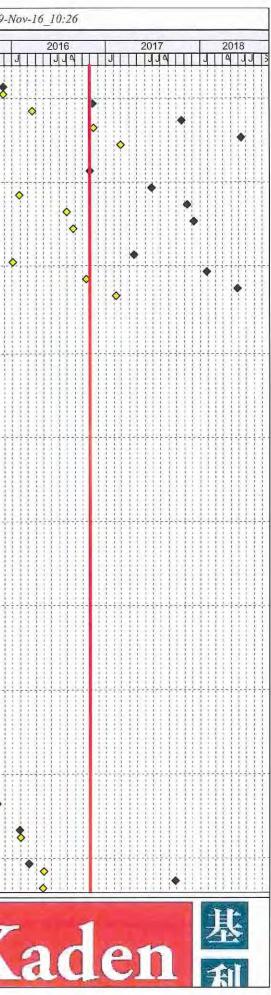


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cess for Contract H15, All Levels, No.Cal.Wk. 120 (31-Jul'16) cess for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct' tes 6593.W1, Within 3 months from commencement of works (14-Jul'14) 6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 01-Jul-17* 0 07-Sep-17* 0 14-Jul-14 A 0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	01-Jul-17 07-Sep-17 14-Jul-14 31-Oct-16		-124 -192 -192	393 325			.
beess for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Od ¹⁻ tes 6593.W1, Within 3 months from commencement of works (14-Jul'14) 6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 07-Sep-17* 0 14-Jul-14 A 0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	07-Sep-17 14-Jul-14 31-Oct-16		-192	325			
tes 6593.W1, Within 3 months from commencement of works (14-Jul'14) 6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 14-Jul-14 A 0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	14-Jul-14 31-Oct-16		119				
6593.W1, Within 3 months from commencement of works (14-Jul'14) 6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	31-Oct-16			636 D			
6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	31-Oct-16			636 0			
6593.W2, Within 9 months from commencement of works (14-Jan'15) 6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 31-Oct-16* 0 05-Sep-17 0 0	11-Aug-17* 22-Mar-17*	31-Oct-16			636 0			
6593.W3, No later than 1 month after completion of resinstatement works a 6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0 05-Sep-17	11-Aug-17* 22-Mar-17*				636 0	A	111	
6593.W1, Within 36 months from commencement of works (14-Apr'17) 6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0	11-Aug-17* 22-Mar-17*	05-Sep-17		-238	0	1111		
6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0	22-Mar-17*						111	
6593.W2, Within 36 months from commencement of works (14-Apr'17) 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0	22-Mar-17*					1111		
6593.W3, Within 2 months after possession date of Works Area 6593.W3				11-Aug-17	-238	0			
	0	00 0+ 17		22-Mar-17	-24	494	1111	111	
of Preliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Aug		22-Oct-17		22-Oct-17	-238	279	1111	111	
of Preliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Auc								111	
of Preliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Auc							1111	111	
	0	21-Oct-14 A		02-Aug-14			\	111	
of Design of Mined Tunnel ESS; Hoarding phase/plan;TW under TramTrac	0	01-Nov-14 A		29-Jul-15		1	118		
ory Implementation of Specified Plans (25-Jan'15)	0	24-Jan-15 A		31-Mar-15				8	
of excavation method under Tram Track; Satisfactory Implementation of PN	0	02-May-15 A		07-Jul-15			1111	111	8
of WAC D-wall demolition; Satisfactory Implementation of Specified Plans (2	0	31-Oct-16		31-Oct-16	119	636	1111	111	
ory Implementation of PMS (1-Nov'15)	0	30-Sep-15 A		30-Sep-15				111	
ory Implementation of Specified Plans (31-Jan'16)	0	30-Jan-16 A		29-Feb-16			1111	111	111
&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16)	0	26-Sep-17		26-Sep-17	-212	305	1111	111	
ory Implementation of Specified Plans (31-Jul'16)	0	31-Oct-16	-	31-Oct-16	119	636	1111	111	
Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation	0	03-Apr-18		03-Apr-18	-401	116	1111	111	111
al of O&M manual and As-built drawings for the Works (26-Feb'17)	0	28-Jul-18		28-Jul-18	-517	0	1111	111	
								111	
to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc	0	01-Nov-14 A		01-Nov-14			8		
avation satisfactorily completed & Children's Play Area Excavation has reach	0	24-Jan-15 A		31-Mar-15			1111	8	
and a second	0	29-Apr-15 A		23-May-15			1111	111	8
Irn, NBC Site entry formed, CPA RC base slab, Jn R NFP & EBC Cofferdam	0	11-Aug-15 A		25-Aug-15			111	111	
	0	09-Nov-16		09-Nov-16	109	626		111	1.1.1
	0	07-Jan-17		07-Jan-17	50	567	1111	111	
roof slab complete, JnR CW & FP & TT RC construction except temp openi	0	05-Apr-17		05-Apr-17	-38	479		111	
egree 1 achieved, NBC All reinstatement complete, Opening through H15 D	0	06-Jul-17		06-Jul-17	-130		1111	111	
egree 3 achieved, All road reinstatement in Johnston Road & Hennessy Roa	0	07-Sep-17		07-Sep-17			1111	111	
s in Cost Centre B satisfactorily completed (26-Feb'17)	0	27-Dec-17		27-Dec-17	-303	214	111	111	111
	0	01-Nov-14 A		01-Nov-14			8		
hop drawings (25-Jan'15)	0	23-Jan-15 A		31-Mar-15			1111	18	
	I of WAC D-wall demolition; Satisfactory Implementation of Specified Plans (2 tory Implementation of PMS (1-Nov'15) fory Implementation of Specified Plans (31-Jan'16) T&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) fory Implementation of Specified Plans (31-Jul'16) Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation al of O&M manual and As-built drawings for the Works (26-Feb'17) to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc cavation satisfactorily completed & Children's Play Area - Cofferdam oc cavation satisfactorily completed & Children's Play Area Excavation has reach of slab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR urn, NBC Site entry formed, CPA RC base slab, Jn R NFP & EBC Cofferdam fredam complete, CPA RC & vent shaft 1.2m above ground complete, Tram cavation to formation complete, JnR All Carriageways & Footpaths & Tram Ti C roof slab complete, JnR CW & FP & TT RC construction except temp openi Degree 1 achieved, NBC All reinstatement complete, Opening through H15 D Degree 3 achieved, All road reinstatement in Johnston Road & Hennessy Roa ks in Cost Centre B satisfactorily completed (26-Feb'17) detail design, suppliers & model types of major BS equipment & materials (2-I shop drawings (25-Jan'15)	tory Implementation of PMS (1-Nov'15) 0 tory Implementation of Specified Plans (31-Jan'16) 0 "&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 tory Implementation of Specified Plans (31-Jul'16) 0 Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation 0 al of O&M manual and Draft As-built Drawings for the Works (26-Feb'17) 0 e to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc 0 cavation satisfactorily completed & Children's Play Area - Cofferdam oc 0 of slab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR 0 urn, NBC Site entry formed, CPA RC base slab, Jn R NFP & EBC Cofferdam 0 of redam complete, CPA RC & vent shaft 1.2m above ground complete, Tram 0 cavation to formation complete, JnR All Carriageways & Footpaths & Tram Ti 0 cavation to formation complete, JnR C W & FP & TT RC construction except temp openi 0 cave 1 achieved, NBC All reinstatement complete, Opening through H15 D 0 Degree 3 achieved, All road reinstatement in Johnston Road & Hennessy Roa 0 etail design, suppliers & model types of major BS equipment & materials (2-1 0	tory Implementation of PMS (1-Nov'15)030-Sep-15 Atory Implementation of Specified Plans (31-Jan'16)030-Jan-16 A"& of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16)026-Sep-17tory Implementation of Specified Plans (31-Jul'16)031-Oct-16Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation03-Apr-18al of O&M manual and As-built drawings for the Works (26-Feb'17)028-Jul-18at to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc001-Nov-14 Acavation satisfactorily completed & Children's Play Area Excavation has reach024-Jan-15 Aof slab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR029-Apr-15 Aurn, NBC Site entry formed, CPA RC base slab, Jn R NFP & EBC Cofferdam011-Aug-15 Aof redam complete, CPA RC & vent shaft 1.2m above ground complete, Tram007-Jan-17O roof slab complete, JnR CW & FP & TT RC construction except temp openi005-Apr-17Degree 1 achieved, NBC All reinstatement omplete, Opening through H15 D006-Jul-17Degree 3 achieved, All road reinstatement in Johnston Road & Hennessy Roz007-Sep-17detail design, suppliers & model types of major BS equipment & materials (2-I)001-Nov-14 A	tory Implementation of PMS (1-Nov'15) 0 30-Sep-15A tory Implementation of Specified Plans (31-Jan'16) 0 30-Jan-16A "&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 26-Sep-17 tory Implementation of Specified Plans (31-Jul'16) 0 31-Oct-16 Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation 0 03-Apr-18 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 et o +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc 0 01-Nov-14 A cavation satisfactorily completed & Children's Play Area Excavation has reach 0 24-Jan-15 A of slab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR 0 29-Apr-15 A urn, NBC Site entry formed, CPARC base slab, JnR NFP & EBC Cofferdam 0 11-Aug-15 A ferdam complete, CPA RC & vent shaft 1.2m above ground complete, Tram 0 09-Nov-16 cavation to formation complete, JnR All Carriageways & Footpaths & Tram Ti 0 07-Jan-17 C roof slab complete, JNR CAll reinstatement complete, Opening through H15 D 0 06-Jul-17 Degree 1 achieved, NBC All reinstatement in Johnston Road & Hennessy Roz 0 07-Sep-17 cs	tory Implementation of PMS (1-Nov'15)030-Sep-15 A30-Sep-15tory Implementation of Specified Plans (31-Jan'16)030-Jan-16 A29-Feb-16tex of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16)026-Sep-1726-Sep-17tory Implementation of Specified Plans (31-Jul'16)031-Oct-1631-Oct-16Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation00-Apr-1803-Apr-18al of O&M manual and As-built drawings for the Works (26-Feb'17)028-Jul-1828-Jul-18e to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam or001-Nov-14 A01-Nov-14of sab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR029-Apr-15 A23-May-15of sab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR029-Apr-1707-Jan-17Or-Jan-15 A25-Aug-15cavation to formation complete, JnR All Carriageways & Footpaths & Tram005-Apr-1707-Jan-17Or-Jan-1707-Jan-1707-Jan-17Or-Sep-1706-Jul-17Oe-Jul-18cord colspan="2">cord colsp	tory Implementation of PMS (1-Nov'15) 0 30-Sep-15A 30-Sep-15 tory Implementation of Specified Plans (31-Jan'16) 0 30-Jan-16A 29-Feb-16 1%C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 26-Sep-17 26-Sep-17 -212 tory Implementation of Specified Plans (31-Jul'16) 0 31-Oct-16 31-Oct-16 119 Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation 0 03-Apr-18 03-Apr-18 -401 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 28-Jul-18 -517 et o+2.5 of Southern Basketball Court & Children's Play Area - Cofferdam cc 0 01-Nov-14 A 01-Nov-14	fory Implementation of PMS (1-Nov'15) 0 30-Sep-15 A 30-Sep-15 A 30-Sep-15 B fory Implementation of Specified Plans (31-Jan'16) 0 30-Jan-16 A 29-Feb-16 20 r&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 26-Sep-17 26-Sep-17 -212 305 fory Implementation of Specified Plans (31-Jul'16) 0 31-Oct-16 31-Oct-16 119 636 Draft O&M manual and Draft As-built Drawings for the Works (26-Feb'17) 0 28-Jul-18 03-Apr-18 03-Apr-18 -401 1116 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 28-Jul-18 28-Jul-18 -401 116 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 23-May-15 0 et o+2.5 of Southern Basketball Court & Children's Play Area - Cofferdam oc 0 01-Nov-14A 01-Nov-14 1 23-May-15 1 1 avation satisfactorily completed & Children's Play Area - Cofferdam oc 0 01-Nov-14A 01-Nov-14 1 6 6 6 6 6 6	ory Implementation of PMS (1-Nov'15) 0 30-Sep-15 A 30-Sep-15 A 30-Sep-15 A ory Implementation of Specified Plans (31-Jan'16) 0 30-Jan-16 A 29-Feb-16 -212 305 r&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 26-Sep-17 26-Sep-17 -212 305 ory Implementation of Specified Plans (31-Jul'16) 0 31-Oct-16 31-Oct-16 119 636 Oraft O&M manual and Draft As-built Drawings for the Works (26-Feb'17) 0 28-Jul-18 28-Jul-18 28-Jul-18 -212 305 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 28-Jul-18 28-Jul-18 -25 0 to +2.5 of Southern Basketball Court & Children's PlayArea - Cofferdam oc 0 01-Nov-14 A 01-Nov-14 - e to +2.5 of Southern Basketball Court & Children's PlayArea - Cofferdam oc 0 24-Jan-15 A 31-Mar-15 - e to +2.5 of Southern Basketball Court & Children's PlayArea Excavation has reach 0 24-Jan-15 A 23-May-15 - urn, NBC Site entry formed, CPA RC base slab, Jn R NFP & EBC Cofferdam 0 11-Aug-15 A 25-Aug-15 - -	ory Implementation of PMS (1-Nov'15) 0 30-Sep-15 A 30-Sep-15 A ory Implementation of Specified Plans (31-Jan'16) 0 30-Jan-16 A 29-Feb-16 r&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16) 0 26-Sep-17 26-Sep-17 -212 305 ory Implementation of Specified Plans (31-Jul'16) 0 31-Oct-16 31-Oct-16 119 636 Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation 0 03-Apr-18 03-Apr-18 -401 116 al of O&M manual and Draft As-built drawings for the Works (26-Feb'17) 0 28-Jul-18 28-Jul-18 28-Jul-18 -401 116 al of O&M manual and As-built drawings for the Works (26-Feb'17) 0 29-Jul-18 01-Nov-14 A 01-Nov-14



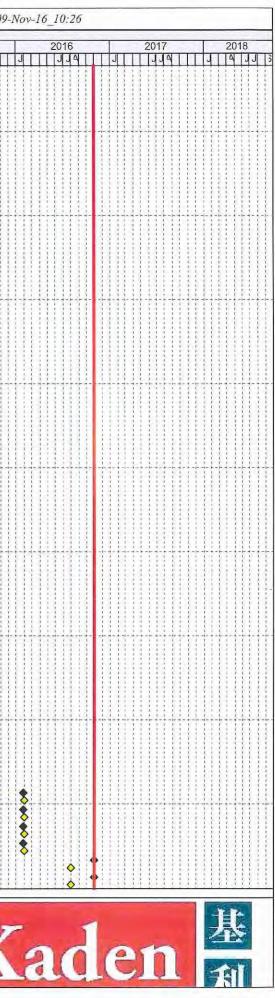
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3-13C LTS MP Rev.C_BI y ID	Activity Name	Original	Start	Finish	BL Project	BL Project	Total	Free			-	0.
y ID	Activity Name	Duration	Start	T II HOIT	Start	Finish	Float	Float			2015	
MS.C03	C3 Order all BS equiptment and materials (3-May'15)	0		02-May-15 A		01-Jun-15			JA		ALL	
MS.C04	C4 Complete all factory acceptence testings (29-Nov'15)	0		28-Nov-15 A		31-Mar-16					YIII	
MS.C05	C5 Complete all delivery to site for ECS plant room (31-Jul'16)	0		09-Nov-16		09-Nov-16	109	626				111
MS.C06	C6 Complete all installation, T&C for New Subway (4-Dec'16)	0		20-Oct-17		20-Oct-17	-235	282	$\Pi \Pi$		1111	
MS.C07	C7 Complete and pass all statutory inspections, Operations Team (26-Feb'17)	0		12-Jun-18		12-Jun-18	-471	46	HHI	11111		
Milestones D			1	100 2000 109								
MS.D01	D1 New AFC Audit Room construction completed, including (3-May'15)	0		31-Oct-16		31-Oct-16	119	405		1111	0	111
MS.D02	D2 Old AFC Audit Room and Maxim's/ Circle K kiosks demolished (31-Jan'16)	0		26-Jun-17		26-Jun-17	-120	166	m		Y	111
MS.D03	D3 Breakthrought into WAC (31-Jul'16)	0		11-Nov-17		11-Nov-17	-258	28	$\Pi \Pi$			11
MS.D04	D4 All works in Cost Centre D satisfactorily completed (28-Aug'16)	0		09-Dec-17		09-Dec-17	-286	231				11
 Milestones E 					de la composition de la compos	1 10 10 10						
MS.E01	E1-AFC gates and barrier relocation works completed (3-Jan'16)	0		18-Apr-17		18-Apr-17	-51	466			1111	11
MS.E02	E2- All structural A&A works for TIM completed (30-Oct'16)	0		29-Jan-18		29-Jan-18	-337	180				
MS.E02	E3- All works in milestone E completed (26-Feb'17)	0		28-May-18		28-May-18	-456	61	1111		1111	11
		0		20 May 10		20 may 10	100					
A: Preliminaries ar			-	_								
Cost Centre A- Mileste	nary Master Program, ICE, TTA, ELS & Temporay decking (3-Aug'14)											11
Al Approvarior Prenimi	Approval of Preliminary Master Program (3-Aug'14)	0	1	21-Oct-14 A		02-Aug-14					++++	-+-
-	and a contract of the contract	0		01-Aug-14 A		02-Aug-14 01-Aug-14					IIII	11
A01_0020	Approval of Specified Plans (3-Aug'14)											
A01_0030	Approval of Independent Checking Engineer (3-Aug'14)	0		01-Aug-14 A		01-Aug-14			\		1111	11
A01_0040	Approval of the TTM Scheme by the Relevant Authorities (3-Aug'14)	0		27-Jun-14 A	-	27-Jun-14			Ö		1111	
A01_0050	Approval for the design of ELS systems for cofferdams & temporary decking (3-Aug'14)	0		03-Mar-15 A		01-Aug-14			Q			Ļį
	Mined Tunnel ESS; Hoarding phase/plan; QP, SAP, PMP, H&SP, EMP (2-Nov'14)				-	1	1 1					1 1 1 1
A02_0010	Approval for the design of excavation support systems of the mined tunnel section (2-No	0		16-Jan-15 A		01-Nov-14			1111		1111	11
A02_0020	Approval of all phasing plans & hoarding arrangements (2-Nov'14)	0		28-Oct-14 A	1	28-Oct-14			2		1111	
A02_0030	Approval of all method statements for Part B works (2-Nov'14)	0		30-Oct-14 A		30-Oct-14	_			5	1111	įį
A02_0040	Engineer's confirmation of satisfactory implementation of Quality Plan (2-Nov'14)	0		01-Nov-14 A		01-Nov-14				<u>} </u>	1111	11
A02_0050	Engineer's confirmation of satisfactory implementation of System Assurance Plan (2-Nov	0		01-Nov-14 A		01-Nov-14			1	\$	1111	
A02_0060	Engineer's confirmation of satisfactory implementation of Programming Management Sy.	0		01-Nov-14 A		01-Nov-14				\$11111	1111	11
A02_0070	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (2-Nov'14	0		01-Nov-14 A		01-Nov-14				5	1111	
A02_0080	Engineer's confirmation of satisfactory implementation of Environmental Management Pl	0		01-Nov-14 A		01-Nov-14				5	1111	
A3 Satisfactory Implem	nentation of Specified Plans (25-Jan'15)											
A03_0010	Engineer's confirmation of satisfactory implementation of System Assurance Plan (25-Jai	0		24-Jan-15 A		24-Jan-15				8	1111	
A03_0020	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (25-Jan'1:	0		24-Jan-15 A		24-Jan-15				8	1111	
A03 0030	Engineer's confirmation of satisfactory implementation of Quality Plan (25-Jan'15)	0		24-Jan-15 A		24-Jan-15				1 🕺 I	1111	11
A03 0040	Engineer's confirmation of satisfactory implementation of Environmental Management Pl	0	1	24-Jan-15 A		24-Jan-15		1		X		
A4 Approval of excavat	tion method under Tram Track; Satisfactory Implementation of PMS (3-May'15)					- Jungo				I I I Î I I	ATT:	
A04 0010	Approval for method of excavation & support for mined tunnel section beneath tram trac	0		21-Apr-15 A	1	07-Jul-15	1			$\Box \Box \Box \Box \Box$		11
A04_0020	Engineer's confirmation of satisfactory implementation of Programming Management Sy	0		02-May-15 A		01-Jun-15					8	11
	wall demolition; Satisfactory Implementation of Specified Plans (2-Aug'15)						di ande				Y	
A05 0010	Approval for method for demolition of WAC Diaphragm Wall (2-Aug'15)	0	1	21-Jul-15A		23-Mar-16	1				*	11
A05_0020	Engineer's confirmation of satisfactory implementation of Specified Plans (2-Aug'15)	0		30-Sep-15 A		30-Sep-15					?	4
an and a second se	nentation of PMS (1-Nov'15)	0		100 Ocp 1077		100 000 10	de la composition de la compos		+++++	<u></u>	?	H
A06_0010	Engineer's confirmation of satisfactory implementation of Programming Management Sy	0	1	30-Sep-15 A	1	30-Sep-15	1-1					4
		0	1	100-00p-10A	1	50 Ocp 10			1111		1111	11
	nentation of Specified Plans (31-Jan'16)	0		20 Jan 16 A		31-Mar-16					1111	
A07_0010	Engineer's confirmation of satisfactory implementation of Specified Plans (31-Jan'16)	0	- Income and a set	30-Jan-16 A		51-Wal-10		_			1111	11
	nd ABWF works; Satisfactory Implementation of PMS (1-May'16)			00.11 10.1		00 0 40	1				++++	łł
A08_0010	Engineer's confirmation of satisfactory implementation of Programming Management Sy:	0		03-Mar-16 A		30-Apr-16					1111	11
a08_0020	Approval in principle of all procedures for Testing & Commissioning of all Building Service	0		26-Sep-17		26-Sep-17	-212	0	1111		1111	1.1
Actual Level of Eff	ort Critical Remaining Contract C6593-1	13C Wa	n Cha	i Station L	ee Tung	Street Su	bway					
Primary Baseline	 Baseline Milestone 	Mas	ter Pro	ogram (Rev	.C)						5	2
Actual Work	Milestone			5								1
		rooress v	s Proors	m (Undated En	ding Oct'16)							D
Actual Work		Progress v	vs Progra	am (Updated En	ding Oct'16)							1



93-13C LTS MP Rev.C_B. ty ID	Activity Name	Original Start	Finish	BL Project	BL Project	Total	Free	-	-	-	09-Nov-16_10:20	,		
iy ib	Adavity Ivaline	Duration	1 main	Start	Finish	Float	Float			2015	2016		2017	2018
A08_0030	Approval in principle of all acceptance procedures of all of the ABWF works (1-May'16)	0	26-Sep-17		26-Sep-17	-212	0	1141		1 JJAI	J∆		1 444	
the state of the s	mentation of Specified Plans (31-Jul'16)		1		1						HI HIY HI			
A09 0010	Engineer's confirmation of satisfactory implementation of System Assurance Plan (31-Jul	0	31-Oct-16	1	31-Oct-16	119	0							
A09_0020	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (31-Jul'16	0	31-Oct-16		31-Oct-16	119	0	t †††		11111	⁺††††††† †	to the		11111
A09 0030	Engineer's confirmation of satisfactory implementation of Quality Plan (31-Jul'16)	0	31-Oct-16		31-Oct-16	119	0					•		
A09 0040	Engineer's confirmation of satisfactory implementation of Environmental Management Pl	0	31-Oct-16		31-Oct-16	119	0				IIIIIIX			
A10 AIP Draft O&M ma	nual & Draft As-built Drawings; Satisfactory Implementation of PMS (30-Oct'16)			1							HH HH I I I I I I I I I I I I I I I I I			
A10 0010	Engineer's confirmation of satisfactory implementation of Programming Management Sy	0	31-Oct-16		31-Oct-16	119	520	111						
A10_0020	Approval in principle of draft Operating & Maintenance Manuals for the Whole Works (3)	0	03-Apr-18	1	03-Apr-18	-401	0		<u>}</u>	++++++		d X tttt	- - - - - - - - - - - - - - - - -	•
A10 0030	Approval in principle of draft As-built Drawings for the Whole Works (30-Oct'16)	0	03-Apr-18		03-Apr-18	-401	0	1111		111111		I I I I		
A11 Approval of O&M r	manual and As-built drawings for the Works (26-Feb'17)		1									Y		
A11 0010	Approval of Operating & Maintenance Manual for Whole Works (26-Feb'17)	0	28-Jul-18	1	28-Jul-18	-517	0			111111				11111
A11 0020	Approval of As-built drawings for Whole Works (26-Feb'17)	0	28-Jul-18		28-Jul-18	-517	0					•		
and the second s	ninaries and General Items		1		Tes in is	1 2001	-	1-1-1-1-			**********	····		$-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
– Design, ICE, Submissi		100 C 100 C 100 C 100												
Design. IEC, TMLG St								111	нн	11111				
D.I.T_0010	TTMS - Submission to Members of TMLG for Approval, ref. ITT 6.2	4 14-Apr-14 /	17-Apr-14 A	14-Apr-14	17-Apr-14	1								
D.I.T 0020	TTMS - TMLG Meetings and Approval, Resubmission if required, RMO Applicataions	55 22-Apr-14 A			27-Jun-14									
Design, ICE, BD Subr								T+++-	┝┼┼┼┤╴	+++++	+++++++	┝┥╍┝┥┥┥	++++++	++++
D.I.T 0030	A1 - ELS & Temporary Decking - Design, ICE, Submission to BD for Approval	30 14-Apr-14 /	11-Aug-14 A	14-Apr-14	23-May-14	r r								1111
D.I.T 0040	A1 - ELS & Temporary Decking - Review the submission	30 12-Aug-14/			28-Jun-14									
D.I.T 0050	A1 - ELS & Temporary Decking - Preparation of re-submission (If Require)	14 17-Sep-14/			16-Jul-14									
D.I.T 0060	A1 - ELS & Temporary Decking - Floparation on e-submission (in Require) A1 - ELS & Temporary Decking - BD Review, Resubmission if required, and Approval (If	14 11-Sep-14/			01-Aug-14									1111
D.I.T_0070	A1 - ELS - Verification (based on 4 additinal SI. AD-01 to AD-04), ICE	17 29-Jul-14 A		1	16-Aug-14						+++++++++++++++++++++++++++++++++++++++			+++++
D.I.T 0080	A1 - ELS - Verification (based on 4 additinal SI, AD-01 to AD-04), ICE, Submission & Apj	24 18-Aug-14	These Party and the second second second second second		15-Sep-14									1111
D.I.T 0090	Independent Checking Engineer - Preparation & Submission for Approval	30 14-Apr-14 /		-	23-May-14									
D.I.T 0100	Independent Checking Engineer - Review the submission	30 24-May-14			28-Jun-14									1111
D.I.T 0110	Independent Checking Engineer - Preparation of re-submission (If Require)	14 30-Jun-14 A			16-Jul-14				HHH					1111
D.I.T 0120	Independent Checking Engineer - Resubmission if required, & Approval (If Require)	14 17-Jul-14 A			01-Aug-14					+++++	• • • • • • • • • • • • • • • •			++++++
D.I.T 0130	A2 - Excavation support system for the mined tunnel section design - Prepare, ICE and s	104 14-Apr-14 A	0		20-Aug-14			1911						1111
D.I.T_0140	A2 - Excavation support system for the mined tunnel section design - Prepare, rot and a	24 06-Dec-14/			16-May-14									1111
D.I.T_0140	A2 - Excavation support system for the mined tunnel section design - Address comments	12 24-Dec-14/			11-Aug-14				[[]]					11111
D.I.T_0160	A2 - Excavation support system for the mined tunnel section design - Address comments A2 - Excavation support system for the mined tunnel section design - Review & Approval	24 05-Jan-15 A			08-Sep-14			P. P.						11111
D.I.T_0170	A2 - Excavation support system for the mined time section design - Review & Approval A4 - Excavation method under tram track and TW design - Prepare, ICE and submission	55 14-Apr-14 A		-	17-Sep-15									
D.I.T 0180	A4 - Excavation method under tram track and TW design - Review submission	30 06-Dec-14/	present in the same of the same in the same state of the same stat		26-Oct-15			11:1		111111				11111
D.I.T 0190	A4 - Excavation method under tram track and TW design - Address comments, ICE & R	30 24-Dec-14/			30-Nov-15									1111
D.I.T_0200	A4 - Excavation method under train track and TW design - Address comments, ice a R A4 - Excavation method under train track and TW design - Review & Approval (if require	30 05-Jan-15 A						1111						1111
Contractor Submissio		30 05-Jan-157	21-Apr-15A	01-Dec-15	07-Jan-10		_							
The second se	ied Plans and Hoarding Plan							++++		++++++	• • • • • • • • • • • • • • • • • • • •			
Programming, Specif	Submission schedule - Preparation & submission	30 14-Apr-14 A	14 May 14 A	21 Mar 15	09-May-15			111						11111
P.SP.H_0010	Submission schedule - Preparation & submission Submission schedule - Review & Approval	30 14-Apr-14 Apr-14 Apr			15-Jun-15									
	Submission schedule - Review & Approval Submission schedule - Preparation for Re-submission (If Require)			-	15-Jun-15 03-Jul-15									
 P.SP.H_0030 P.SP.H_0040 		14 13-Jun-14 A			20-Jul-15									
P.SP.H_0040	Submission schedule - Review and Approval (If Require) Initial Three Month Rolling Program - Preparation & submission	14 27-Jun-14 A 14 14-Apr-14 A			20-Jul-15 20-Apr-15					+++++				
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P.SP.H_0060	Initial Three Month Rolling Program - Review & Approval	30 29-Apr-14 A			27-May-15					11111				HILL
P.SP.H_0070	Initial Three Month Rolling Program - Preparation for Re-submission (If Require)	14 29-May-14			12-Jun-15									
 P.SP.H_0080 P.SP.H_0090 	Initial Three Month Rolling Program - Review and Approval (If Require) Preliminary Master Program - Preparation & submission	14 13-Jun-14 A 47 14-Apr-14 A			30-Jun-15 30-May-15					111111				
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P.SP.H_0100	Preliminary Master Program - Review & Approval	14 21-Jun-14 A	19-Jul-14 A	01-Jun-15	16-Jun-15					11111				
Actual Level of Eff	fort Critical Remaining Contract C6593-1	3C Wan Chai	Station L.	ee Tung	Street Sul	owav								-
				-	Succesu	July					-	-	IN THE CALL	
Primary Baseline	A Milestone	Master Prog	rum (kev	.()						A C	Kad		- Alexandre	
Actual Work	Milestone	The second second									01	10	50	
Remaining Work	P	rogress vs Progran	1 (Updated En	ing Oct'16)										12 24

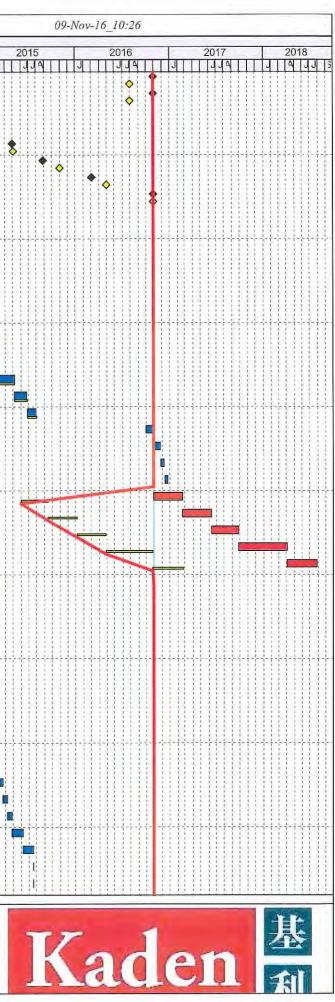
 P.SP.H_0110 P.SP.H_0120 P.SP.H_0130 P.SP.H_0140 P.SP.H_0150 P.SP.H_0160 P.SP.H_0160 P.SP.H_0170 P.SP.H_0180 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 P.SP.H_0220 	Preliminary Master Program - Preparation for Re-submission (If Require) Preliminary Master Program - Review and Approval (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation & submission Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require) Environmental management plan - Preparation & submission Environmental management plan - Review & Approval	14 30-Sep 30 14-Apr- 14 24-May 14 11-Jun- 30 24-Jun-	14 A 30-Sep-14 A 14 A 22-Oct-14 A 4 A 23-May-14 A 14 A 10-Jun-14 A	06-Jul-15	Finish 04-Jul-15 21-Jul-15	Float				IIII IIII	2015
 P.SP.H_0120 P.SP.H_0130 P.SP.H_0140 P.SP.H_0150 P.SP.H_0160 P.SP.H_0170 P.SP.H_0180 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 	Preliminary Master Program - Review and Approval (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation & submission Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require) Environmental management plan - Preparation & submission	14 30-Sep 30 14-Apr- 14 24-May 14 11-Jun- 30 24-Jun-	14 A 22-Oct-14 A 4 A 23-May-14 A 14 A 10-Jun-14 A	06-Jul-15					111	1111	111
 P.SP.H_0130 P.SP.H_0140 P.SP.H_0150 P.SP.H_0160 P.SP.H_0170 P.SP.H_0170 P.SP.H_0180 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation & submission Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require) Environmental management plan - Preparation & submission	30 14-Apr- 14 24-May 14 11-Jun- 30 24-Jun-	4 A 23-May-14 A 14 A 10-Jun-14 A		21-Jul-15		1:	4.3.			111
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 P.SP.H_0150 P.SP.H_0160 P.SP.H_0170 P.SP.H_0180 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require) Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require) Environmental management plan - Preparation & submission	14 11-Jun- 30 24-Jun-			09-May-15			111		1111	
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 P.SP.H_0170 P.SP.H_0180 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 	Environmental management plan - Preparation & submission		4 A 26-Jun-14 A	28-May-15	12-Jun-15		1	111	111	1111	11
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 P.SP.H_0190 P.SP.H_0200 P.SP.H_0210 	Environmental management plan - Review & Approval	30 14-Apr-	4 A 14-May-14	A 31-Mar-15	09-May-15			111	111	1111	11
 P.SP.H_0200 P.SP.H_0210 	Lini of montal montagement plan internet an appretail	30 15-May	14 A 12-Jun-14 A	11-May-15	15-Jun-15		-	111	111	1111	11
- P.SP.H_0210	Environmental management plan - Preparation for Re-submission (If Require)	14 13-Jun-	4A 26-Jun-14A	16-Jun-15	03-Jul-15			-			
	Environmental management plan - Review and Approval (If Require)	14 27-Jun-	4A 11-Jul-14A	04-Jul-15	20-Jul-15		0		111	1111	
P.SP.H_0220	Appoint Environmental team- submit for engineer approval	30 14-Apr-	4A 23-May-14	A 31-Mar-15	09-May-15			111	111	1111	H
	Appoint Environmental team - Review & Approval	30 27-Jun-	4A 11-Jul-14A	11-May-15	15-Jun-15		H		111	1111	11
P.SP.H_0230	Appoint Environmental team - Preparation for Re-submission (If Require)	14 14-Apr-	4A 14-May-14	A 16-Jun-15	03-Jul-15		1	-	111	HH	11
P.SP.H_0240	Appoint Environmental team - Review and Approval (If Require)	14 27-Jun-	4A 11-Jul-14A	04-Jul-15	20-Jul-15				111	1111	11
P.SP.H_0250	Quality Plan - Preparation & submission	30 14-Apr-	4A 14-May-14	A 31-Mar-15	09-May-15				111		11
P.SP.H_0260	Quality Plan - Review & Approval	30 15-May	14 A 12-Jun-14 A	11-May-15	15-Jun-15		-		111		
P.SP.H_0270	Quality Plan - Preparation for Re-submission (If Require)	14 13-Jun-	4 A 26-Jun-14 A	16-Jun-15	03-Jul-15		P.	-	111		
P.SP.H_0280	Quality Plan - Review and Approval (If Require)	14 17-Jun-	4A 11-Jul-14A	04-Jul-15	20-Jul-15				111	1111	11
P.SP.H_0290	Health and Safety Plan - Preparation & submission	30 14-Apr-	4 A 14-May-14	A 31-Mar-15	09-May-15			111		1111	
P.SP.H_0300	Health and Safety Plan - Review & Approval	30 15-May	14 A 12-Jun-14 A	11-May-15	15-Jun-15		-				
P.SP.H_0310	Health and Safety Plan - Preparation for Re-submission (If Require)	14 13-Jun-	4A 26-Jun-14A	16-Jun-15	03-Jul-15		I.			HH	11
P.SP.H_0320	Health and Safety Plan - Review and Approval (If Require)	14 27-Jun-	4A 11-Jul-14A	04-Jul-15	20-Jul-15			4		111	11
P.SP.H_0330	System Assurance Plan - Preparation & submission	30 14-Apr-	4A 14-May-14	A 31-Mar-15	09-May-15			111		1111	11
P.SP.H_0340	System Assurance Plan - Review & Approval	30 15-May	14 A 12-Jun-14 A	11-May-15	15-Jun-15			111		1111	
P.SP.H_0350	System Assurance Plan - Preparation for Re-submission (If Require)	14 13-Jun-	4A 26-Jun-14A	16-Jun-15	03-Jul-15			-		1111	11
P.SP.H_0360	System Assurance Plan - Review and Approval (If Require)	14 27-Jun-	4A 11-Jul-14A	04-Jul-15	20-Jul-15		ţ,		111	HH	11
P.SP.H_0370	A2 Hoarding phase - Preparation & submission	100 14-Apr-	4 A 30-Apr-14 A	31-Mar-15	03-Aug-15			4			11
PSP.H_0380	A2 Hoarding phase - Review & Approval	24 02-May	14 A 30-May-14	A 04-Aug-15	31-Aug-15			12	111	1111	11
P.SP.H_0390	A2 Hoarding phase - Preparation for Re-submission (If Require)	12 31-May	14 A 14-Jun-14 A	01-Sep-15	14-Sep-15	a second and a second second					11
	A2 Hoarding phase - Review and Approval (If Require)	24 16-Jun-	4A 28-Jun-14A	15-Sep-15	14-Oct-15					1111	11
Implemantation of Spe	ecified Plans							111		1111	11
SP.A02_0010	A2 Satisfactory Implementation of Quality Plan	0	01-Nov-14	1	20-Jul-15			111	*	111	11
SP.A03 0010	A3 Satisfactory Implementation of System Assurance Plan	0	01-Nov-14/	4	20-Jul-15			111	× II	1111	11
SP.A03_0020	A3 Satisfactory Implementation of Health and Safety Plan	0	01-Nov-14	1	20-Jul-15			111	X	1111	11
SP.A03 0030	A3 Satisfactory Implementation of Environmental Management Plan	0	01-Nov-14/	1	20-Jul-15	in an		11	2	1111	11
SP.A03 0040	A3 Satisfactory Implementation of Quality Plan	0	24-Jan-15 A		20-Jul-15				Ť		11
SP.A03_0050	A3 Satisfactory Implementation of System Assurance Plan	0	24-Jan-15 A		20-Jul-15			111			11
SP.A03_0060	A3 Satisfactory Implementation of Health and Safety Plan	0	24-Jan-15 A		20-Jul-15			11		8111	11
SP.A03_0070	A3 Satisfactory Implementation of Environmental Management Plan	0	24-Jan-15 A		20-Jul-15					k II	H
SP.A05_0010	A5 Satisfactory Implementation of Quality Plan	0	01-Aug-157	4	01-Aug-15						11
SP.A05_0020	A5 Satisfactory Implementation of System Assurance Plan	0	01-Aug-15/	4	01-Aug-15			11		1111	
SP.A05_0030	A5 Satisfactory Implementation of Health and Safety Plan	0	01-Aug-15/	4	01-Aug-15						
SP.A05_0040	A5 Satisfactory Implementation of Environmental Management Plan	0	01-Aug-15/	1	01-Aug-15			111	H	1111	11
SP.A07_0010	A7 Satisfactory Implementation of Quality Plan	0	30-Jan-16 A		29-Feb-16						11
SP.A07_0020	A7 Satisfactory Implementation of System Assurance Plan	0	30-Jan-16 A		29-Feb-16			11		TIT	11
SP.A07_0030	A7 Satisfactory Implementation of Health and Safety Plan	0	30-Jan-16 A		29-Feb-16			11		1111	11
SP.A07_0040	A7 Satisfactory Implementation of Environmental Management Plan	0	30-Jan-16 A		29-Feb-16			111	111	111	11
SP.A09_0010	A9 Satisfactory Implementation of Quality Plan	0	31-Oct-16*		31-Oct-16	-92	0	111		1111	11
SP.A09_0020	A9 Satisfactory Implementation of System Assurance Plan	0	31-Oct-16*	1	31-Oct-16	-92	0				11
Actual Level of Effor	ort Critical Remaining Contract C6593-1	I3C Wan Ch	i Station I	ee Tung	Street Sul	bway					
 Primary Baseline Actual Work 	 Baseline Milestone Milestone 	Master Pr	ogram (Re	v.C)							5



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SP.A09_0030	A9 Satisfactory Implementation of Health and Safety Plan	0		31-Oct-16* 31-Oct-16*		31-Oct-16 31-Oct-16	-92	0			1111
SP.A09_0040	A9 Satisfactory Implementation of Environmental Management Plan	U		31-001-16		31-00-10	-92			1111	1111
a la contra c	A2 Satisfactory Implementation of Programming Management System	0		01-Nov-14 A	1	21-Jul-15			8	1111	1111
PMS.A02_0010 PMS.A04 0010	A4 Satisfactory Implementation of Programming Management System	0		02-May-15 A		01-Jun-15					
	A6 Satisfactory Implementation of Programming Management System	0		28-Aug-15 A		31-Oct-15			+++++	+++++	Q -+-+-+
PMS.A06_0010	As Satisfactory Implementation of Programming Management System	0		03-Mar-16 A	1	30-Apr-16			11111	111	1111
PMS.A08_0010	A10 Satisfactory Implementation of Programming Management System	0		31-Oct-16*		31-Oct-16	-1	0	11111	1111	1111
Other Submissions a				01 00.10		UT UCL TU			1111		1111
OS.OM 0010	Hoarding Installation Method Statement - Preparation & Submission	30	14-Apr-14 A	23-May-14 A	31-Mar-15	09-May-15	1			111	1111
OS.OM 0020	Hoarding Installation Method Statement - Review & Approval			07-Jun-14 A		23-May-15			****	++++	111
OS.OM 0030	Hoarding Installation Method Statement - Preparation for Re-submission (if required)			21-Jun-14 A		08-Jun-15			1111	1111	
OS.OM 0040	Hoarding Installation Method Statement - Re-submission (if required) & Approval			23-Jun-14 A		23-Jun-15			1111		1111
OS.OM 0050	Site Investigation Works Method Statement - Preparation & Submission			23-May-14 A		09-May-15			1111	1111	1111
OS.OM 0060	Site Investigation Works Method Statement - Review & Approval			07-Jun-14 A		23-May-15			1111	1111	1111
OS.OM 0070	Site Investigation Works Method Statement - Preparation for Re-submission (if required			21-Jun-14 A	1	08-Jun-15			titt	++++	甘甘
OS.OM 0080	Site Investigation Works Method Statement - Re-submission (if required) & Approval		23-Jun-14 A		09-Jun-15	23-Jun-15					111
OS.OM 0090	WAC D-wall demolition Design- ICE, Preparation for design submission		and the second second second	18-Feb-15A		16-Nov-15					
OS.OM 0100	WAC D-wall demolition- Review & Approval			08-May-15 A		28-Jan-16			1111		
OS.OM 0110	WAC D-wall demolition- Preparation for re-submission (If require)			26-Jun-15 A		18-Mar-16			1111		
OS.OM 0120	WAC D-wall demolition- Review & Approval (If require)			01-Aug-15 A		27-Apr-16			++++	+++++	
OS.OM 0121	H15 D-wall demolition Design- ICE, Preparation for design submission			29-Oct-16 A		29-Oct-16					118
OS.OM 0122	H15 D-wall demolition- Review & Approval		1 2 2 2 2	26-Nov-16 A		26-Nov-16			1111		
OS.OM 0123	H15 D-wall demolition- Preparation for re-submission (If require)			10-Dec-16 A		10-Dec-16			1111		1111
OS.OM 0124	H15 D-wall demolition- Review & Approval (If require)			24-Dec-16 A		24-Dec-16			1111	1111	1111
S.OM 0130	A8 AIP procedures for T&C of BS and ABWF works (1st Batch)		31-Oct-16	18-Feb-17	31-Oct-16	18-Feb-17	-419	0	++++		111
OS.OM 0140	A8 AIP procedures for T&C of BS and ABWF works (2nd Batch)		20-Feb-17	12-Jun-17	20-Feb-17	12-Jun-17	-419	0			IN
S.OM 0150	A8 AIP procedures for T&C of BS and ABWF works (Remaining)		13-Jun-17	26-Sep-17	13-Jun-17	26-Sep-17	-419	0			
S.OM 0160	A10 AIP of Draft O&M manual and Draft As-built Drawings		27-Sep-17	03-Apr-18	27-Sep-17	03-Apr-18	-419	0	1111		1111
G OS.OM 0170	A11 Approval of O&M manual and As-built drawings for the Works		04-Apr-18	28-Jul-18	04-Apr-18	28-Jul-18	-419	0			1111
OS.OM 0180	RC Works- Preparation of Method Statement- Preparation		1	06-Feb-15A		15-Jun-15			<u></u>		111
OS.OM_0190	RC Works - Preparation of Method Statement- Submission & Approval		1 1000 1000 1000	10-Feb-15 A		16-Sep-15				11	111
OS.OM 0200	RC Works - Preparation for Re-submission (if required)			16-Feb-15 A		02-Oct-15	-			0	
OS.OM 0210	RC Works - Re-submission (if required) & Approval			16-Feb-15 A		15-Jul-15					111
OS.OM 0220	Sheet pile installation- Preparation of Method Statement- Preparation		03-Jun-14 A		31-Mar-15	23-May-15	1			1111	1111
OS.OM 0230	Sheet pile installation- Preparation of Method Statement- Submission & Approval		03-Jul-14 A		26-May-15	08-Jun-15		li	++++		311
OS.OM 0240	Sheet pile installation - Preparation for Re-submission (if required)			23-Oct-14 A		23-Jun-15	1	1			111
OS.OM 0250	Sheet pile installation - Re-submission (if required) & Approval	12	23-Oct-14 A	14-Nov-14 A	24-Jun-15	08-Jul-15	1				111
OS.OM 0260	Excavation works- Preparation of Method Statement- Preparation			22-Sep-14 A		23-May-15	1				
OS.OM 0270	Excavation works- Preparation of Method Statement- Submission & Approval			21-Oct-14 A		08-Jun-15					
OS.OM 0280	Excavation works- Preparation for Re-submission (if required)			21-Oct-14 A		23-Jun-15	1		计作	111	111
OS.OM 0290	Excavation works- Re-submission (if required) & Approval			21-Oct-14 A		08-Jul-15	1				111
OS.OM 0300	Work below tram track Method Statement - Preparation			23-Mar-15 A		02-Sep-15	1				
OS.OM 0310	Work below tram track Method Statement - Submission & Approval			09-Apr-15 A		16-Sep-15	-				
OS.OM 0320	Work below tram track Method Statement - Preparation for Re-submission (if required)			27-Apr-15 A		24-Apr-15	1				
OS.OM 0330	Work below tram track Method Statement - Re-submission (if required) & Approval			10-Jun-15 A		14-Jul-15	1			TIT	
OS.OM 0340	H15 & WAC Break Through Method Statement - Preparation		11-Jun-15 A		30-Jun-15	25-Aug-15	1			111	
OS.OM_0350	H15 & WAC Break Through Method Statement - Submission & Approval		20-Jul-15 A		05-Aug-15	18-Aug-15	1	1			
OS.OM 0360	H15 & WAC Break Through Method Statement - Preparation for Re-submission (if requ			21-Jul-15A		01-Sep-15	1				
			Leg. Carrier a	1		1	-	<u>L</u> î		1 1 1 1	1141

Remaining Work

Progress vs Program (Updated Ending Oct'16)

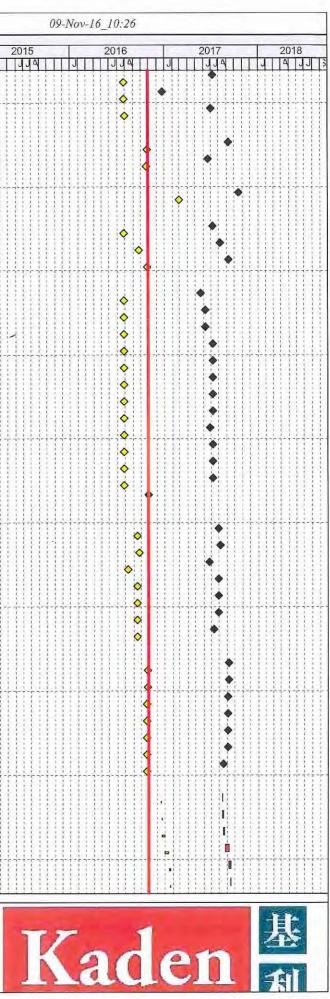


3-13C LTS MP Rev.C_1	BL_Report (Oct16)				the second second						09-Nov-16	10:26			
ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 01	4		2015		2016	2	017	20
a second		Duration		otart	1 mon				J	JJA	JUJ	JJA	J	114	
OS.OM_0370	H15 & WAC Break Through Method Statement - Re-submission (if required) & Approva	1	A 21-Jul-15A		15-Sep-15					4411	<u>uuuu</u>				+++-
OS.OM_0380	BD for consent of H15 break throughs works - Preparation		A 12-Nov-16			-189	0		1111			11111			
OS.OM_0390	BD for consent of H15 break throughs works - Submission & Approval	24 14-Nov-16		14-Nov-16		-189	0								.1111
OS.OM_0400	BD for consent of H15 break throughs works - Preparation for Re-submission (if require	12 12-Dec-16		12-Dec-16	24-Dec-16	-189	0				X				
GS.OM_0410	BD for consent of H15 break throughs works - Re-submission (if required) & Approval	12 28-Dec-16		28-Dec-16	11-Jan-17	-189	/1								
OS.OM_0420	Submit and obtain AIP for Method Statement, EDOC Draft, Permanent Materials	60 31-Jul-15	A 10-Oct-15 A	31-Jul-15	10-Oct-15					+++++					
Mobilization and Oth	er Preliminaries														ШI
Permit Applications		70 44 4 44	A 40 his 14.4	01 Mas 15	97 Jun 15	1 1					111111				
PA_0010	XP Excavtion Permit Application and Permit		A 10-Jun-14 A		27-Jun-15 10-Apr-15								1111		
PA_0020	TRA Tree Removal Application and Permit		A 15-Jul-14 A A 11-Jul-14 A		and the second s										
PA_0030	Liason with all utility service providers on diversions	And the second sec	A 28-Jun-14 A					+++++			++++++++				
PA_0040	Baseline noise monitoring report - Preparation & submission to Engineer and EPD	Contraction and the second sec			15-Jun-15		i	11111					11111		
PA_0050	Baseline noise monitoring report - Review & Approval		A 09-Jul-14 A A 28-Jun-14 A		03-Jul-15										
PA_0060	Baseline noise monitoring report - Preparation for Re-submission (If Require)		A 09-Jul-14 A		20-Jul-15										
PA_0070	Baseline noise monitoring report - Review and Approval (If Require)		A 28-Jun-14 A		09-May-15								11111		
PA_0080	Baseline air monitoring report - Preparation & submission to Engineer and EPD		A 09-Jul-14 A		15-Jun-15					444	+++++++++++++++++++++++++++++++++++++++				
PA_0090	Baseline air monitoring report - Review & Approval		A 10-Jul-14 A		03-Jul-15					HHH	111111	11111			
PA_0100	Baseline air monitoring report - Preparation for Re-submission (If Require)		A 11-Jul-14A		20-Jul-15										
PA_0110	Baseline air monitoring report - Review and Approval (If Require)	14 10-Jun-14	A TI-JUL 14 A	04-301-15	20-Jul-19	le contra de									
	al and ABWF Works for the New Subway (Part A Works)	and a second									111111				
Cost Centre B- Miles	stone Schedules								1.1.1.		111111				
B1 Excavate to +2.5 c	of SBC & Children's Play Area Cofferdam completed (2-Nov'14)					· ·							11111		
MSB01_01	Southern Basket Ball Court: excavate to +2.5mPD (2-Nov/14)	0	01-Nov-14/		19-Oct-15			8							
MSB01_02	Children's Play Area - Cofferdam construction is completed (2-Nov'14)	0	25-Oct-14 A		10-Jul-15	1		8			1111111	11111	11111		
B2 SBC Excavation c	complete & Children's Play Area Excavation to -1.3mPD (25-Jan'15)				1										
MSB02_01	Southern Basket Ball Court: Excavation is satisfactorily completed (25-Jan'15)	0	16-Jan-15 A		12-Jan-16				ö						
MSB02_02	Children's Play Area: Excavation has reached -1.3mPD (25-Jan'15)	0	24-Jan-15 A		12-Jan-16			11111	8				1111		
	R NFP & EBC 67% cofferdam, JnR WBC UU div complete (3-May'15)		-											HHH	
MSB03_01	Southern Basket Ball Court: Roof slab construction has been satisfactorily completed (3-	0	28-Apr-15 A		31-Mar-15			11111		<u>.</u>					
MSB03_02	Johnston Road North Footpath and East-bound Carriageway: 67% of cofferdam installa	0	09-May-15		23-May-15			HIH		X	HHH		1111		1111
MSB03_03	Johnston Road West-bound Carriageway - All utility diversions, where required, satisfact	0	21-Mar-157		30-Jun-15										
MSB03_04	10% completed of tram track support (3-May'15)	0	29-Apr-15 A	1	29-May-15	1				5	111111				
B4 SBC return, NBC	Site entry, CPA base, JnR NFP & EBC Cofferdam & decks complete (2-Aug'15)				1						111111				
MSB04_01	Southern Basket Ball Court: Playing surface has been returned to LCSD for use (2-Aug	0	11-Aug-15 A		01-Aug-15			11111		۰*	111111				
MSB04_02	Northern Basket Ball Court: Site entry onto Hennessy Road has been formed (2-Aug'15	0	15-Aug-157		30-Sep-15			11111	1111	\$	11111		1111		
MSB04_03	Children's Play Area: RC construction of the base slab, except at mucking out point, com	0	17-Jul-15 A	-	30-Sep-15			+++++		\					
MSB04_04	JnR N-Footpath & E-Bound Carriageway: Cofferdam construction complete & all temp to	0	31-Oct-16		31-Oct-16	119	0	11111		♦	HHH				
	CPA RC & vent shaft 1.2m above GL, Tram Tracks Excavation to +0.0mPD (1-Nov'15)		140.00			1									
MSB05_01	Northern Basket Ball Court: Satisfactorily complete construction of the cofferdam (1-Nov	0	18-Dec-16/	4	29-Feb-16	1		11111			♦				
MSB05_02	Children's Play Area: RC construction complete include above ground vent shaft structur	0	09-Nov-16		09-Nov-16	109	0	1111			♦				
MSB05_03	Tram Tracks - Excavation to +0.0 mPD is satisfactorily completed (1-Nov'15)	0	31-Oct-16		31-Oct-16	119	10				Q				
	o formation, JnR Excavation complete (31-Jan'16)	1	les e	-	104.11	1									
MSB06_01	Northern basket Ball Court - Excavation to final formation has been satisfactorily complet	0	28-Dec-15/	4	31-Mar-16	50		1111			\				
MSB06_02	Johnston Road All Carriageways, Footpaths & Tram Tracks: Excavation is completed (3"	0	07-Jan-17	1	07-Jan-17	50	0				♦		TILL		
	R CW & FP & TT RC construction exp temp opening, CPA RC complete (1-May'16)		101.0		05.10	7									1111
MSB07_01	Northern Basket Ball Court: RC construction of the roof slab has been completed (1-Ma	0	01-Apr-16 A		25-May-16						•				
MSB07_02	JnR Carriageways, Footpaths & Tram Tracks: RC construction, except at temporary ope	0	05-Apr-17	-	05-Apr-17	-38	0				\$				
MSB07_03	Children's Play Area: RC Construction of above ground ventilation shaft structures is con	0	14-Dec-16		14-Dec-16	74	112								1111
B8 ABWF Degree1 ac	chieved, NBC All reinstatement, Opening through H15 D-wall complete (31-Jul'16)		_					11111	1111	11111	111111	11111	1111	111111	11111
Actual Level of E	ffort Critical Remaining Contract C6593-	13C Wan Cha	i Station I	lee Tung	Street Su	bway			1			-			1
Primary Baseline		Master Pro		and the second se						50	Ka	51			1
Actual Work	 Milestone 		0 (are								6	10	Care -	and a	
		Progress vs Progra								D			120	\square	

ivity ID	Activity Name	Original Start	Finish	BL Project	BL Project	Total	Free Float 01	14 2	2015
		Duration		Start	Finish	Float			114
MSB08_01	ABWF to Degree 1 has been achieved for works in this cost centre (31-Jul'16)	0	06-Jul-17		06-Jul-17	-130	0		
MSB08_02	Northern Basket Ball Court - All re-surfacing works & playing surface reinstatement comp	0	23-Dec-16		23-Dec-16	66	196		
B08_03	H15 Interface: The opening through H15 diaphragm wall has been formed (31-Jul'16)	0	30-Jun-17		30-Jun-17	-124	6		
B9 ABWF Degree3 ach	nieved, All road reinstatement in JnR & Hennessy Rd complete (30-Oct'16)								
MSB09_01	ABWF to Degree 3 has been achieved for works in this cost centre (30-Oct'16)	0	07-Sep-17		07-Sep-17	-192	0		
MSB09_02	All road reinstatement works in Johnston Road and Hennessy Road have been satisfacti	0	21-Jun-17		21-Jun-17	-115	77	1111111111	
B10 All works in Cost	Centre B satisfactorily completed (26-Feb'17)								
BSB10_01	All works in this cost centre have been satisfactorily completed (26-Feb'17)	0	17-Oct-17		17-Oct-17	-233	70		
Degrees of completion	on for ABWF Works								
BWF.D1	ABWF Works - Degree 1	0	06-Jul-17		06-Jul-17	-130	0		
ABWF.D2	ABWF Works - Degree 2	0	07-Aug-17		07-Aug-17	-161	31		
ABWF.D3	ABWF Works - Degree 3	0	07-Sep-17		07-Sep-17	-192	0		11
ABWF Works - Degree	a1								
ABWF.D1_1.010	1.1- Structure and building complete, clean, dry and weather proof	0	23-May-17		23-May-17	-86	44		111
BWF.D1_1.020	1.2- Blockwalls and partition walls complete, except on plant access route	0	10-Jun-17		10-Jun-17	-103	27		
ABWF.D1 1.030	1.3- Plastering, undercoat painting, floor screeding including plinths & upstands complete	0	10-Jun-17		10-Jun-17	-103	27	нннн	111
ABWF.D1_1.040	1.4- Equipment delivery routes & access openings available for Designated Contractors	0	06-Jul-17		06-Jul-17	-130	0	1	
ABWF.D1 1.050	1.5- Cast-in items & subframe installed; niches, recesses and box outs formed; cable tro	0	06-Jul-17	1	06-Jul-17	-130	0	THUILD	11
ABWF.D1_1.060	1.6- Structure as-built survey accepted	0	06-Jul-17		06-Jul-17	-130	0		
ABWF.D1 1.070	1.7- Structural & blockwork E&M openings formed & survey complete	0	06-Jul-17		06-Jul-17	-130	0		11
ABWF.D1_1.080	1.8- Movement joints & stitch strips complete	0	06-Jul-17		06-Jul-17	-130	0	THUM	
ABWF.D1 1.090	1.9- Drainage system & discharge connections complete with temporary pumps operatio	0	26-Jun-17		26-Jun-17	-120	10		
ABWF.D1 1.100	1.10- Escalator zones & pits complete; survey reference lines accepted	0	06-Jul-17		06-Jul-17	-130	0	*********	
ABWF.D1 1.110	1.11- Earthing mat, earthing rods & earthing pits complete & test results accepted	0	06-Jul-17		06-Jul-17	-130	0		11
International Contraction of the International Contractional Contractione		0	06-Jul-17		06-Jul-17	-130		011111111	11.
ABWF.D1_1.120	1.12- Underground pipework complete including manholes, ductworks & drawpits	0	31-Oct-16		31-Oct-16	119	249		11
ABWF.D1_1.130	1.13- Civil & building provisions for designated & interfacing contractors complete	U	31-00-10		31-002-10	115	245		11
ABWF Works - Degree	2.1- Permanent door frames installed with temporary doors and locks	0	31-Jul-17	-	31-Jul-17	-154	7		-+-
	and a second	0	07-Aug-17	1	07-Aug-17	-161	0		11
ABWF.D2_2.020	2.2- Floor finishes & wall tilling in plant rooms for Designated Contractors complete			-		-101	44		11
ABWF.D2_2.030	2.3- Glazing & Balustrade support installed	0	24-Jun-17		24-Jun-17				11
ABWF.D2_2.040	2.4- Metal staircases, cat-ladders & catwalks complete	0	31-Jul-17		31-Jul-17	-154			11
ABWF.D2_2.050	2.5- External louvers installed	0	31-Jul-17		31-Jul-17	-154			11
BWF.D2_2.060	2.6- Framework for final finishes installed	0	31-Jul-17		31-Jul-17	-154			11
BWF.D2_2.070	2.7- Water tightness testing to water tanks passed	0	13-Jul-17		13-Jul-17	-137	24		
ABWF Works - Degree				-		1 1001			11
BWF.D3_3.010	3.1-All finishes complete including permanent doors, ironmongery	0	07-Sep-17		07-Sep-17	-192	0		
ABWF.D3_3.020	3.2- Balustrade installed	0	07-Sep-17		07-Sep-17	-192	0	+++++++++	11
ABWF.D3_3.030	3.3- Signage hangers & supports installed	0	04-Sep-17	-	04-Sep-17	-189	3		11
ABWF.D3_3.040	3.4- Roller shutters, fire shutters & smoke barriers installed	0	04-Sep-17		04-Sep-17	-189	3		11
BWF.D3_3.050	3.5- Acoustic treatment applied	0	04-Sep-17	-	04-Sep-17	-189	3		11
BWF.D3_3.060	3.6- Louvres & grilles installed	0	04-Sep-17		04-Sep-17	-189	3		11
ABWF.D3_3.070	3.7- All openings & Penetrations sealed	0	17-Aug-17		17-Aug-17	-172	20		11
Southorn Playground	Reprovision works								
🚍 RW_0010	LCSD handover Northern Basket Ball Court 1	1 12-Aug-17	12-Aug-17	12-Aug-17	12-Aug-17	-190	0		
😑 RW_0020	Fence off the site	2 14-Aug-17	15-Aug-17	14-Aug-17	15-Aug-17	-190	0		11
🚍 RW_0030	Expose the surface	6 16-Aug-17	22-Aug-17	16-Aug-17	22-Aug-17	-190	0		11
🛑 RW_0040	Resurfacing works	14 23-Aug-17	07-Sep-17	23-Aug-17	07-Sep-17	-190	0		11
🛑 RW_0050	Hand over to LCSD, additional remedial if require	5 08-Sep-17	13-Sep-17	08-Sep-17	13-Sep-17	-190	0		II
RW_0060	LCSD handover Southern Basket Ball Court 2	1 14-Sep-17	14-Sep-17	14-Sep-17	14-Sep-17	-190	0		11

Remaining Work

Progress vs Program (Updated Ending Oct'16)

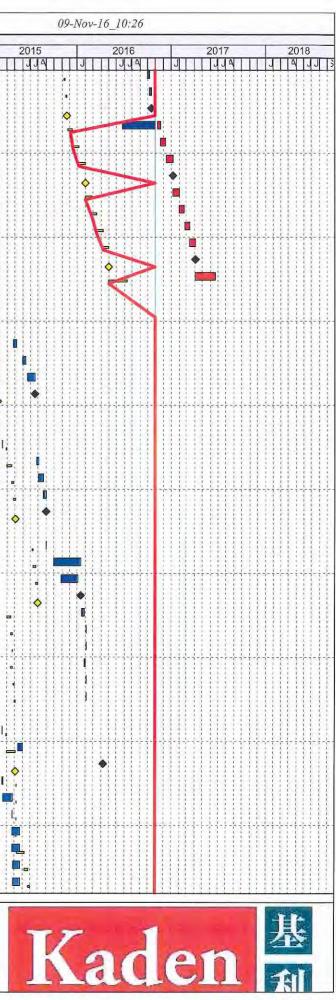


ivity ID	Activity Name	Original	Start	Finish	BL Project	BL Project	Total	Free	4	1	AF
		Duration			Start	Finish	Float	Float 014			15 JA T
E RW_0070	Fence off the site	2	15-Sep-17	16-Sep-17	15-Sep-17	16-Sep-17	-190	0			
E RW_0080	Expose the surface	6	18-Sep-17	23-Sep-17	18-Sep-17	23-Sep-17	-190	0			
🚍 RW_0090	Resurfacing works	13	25-Sep-17	11-Oct-17	25-Sep-17	11-Oct-17	-190	0			
RW_0100	Hand over to LCSD, additional remedial if require	5	12-Oct-17	17-Oct-17	12-Oct-17	17-Oct-17	-190	0	HITT		111
🖶 Cost Centre B: Par	rt A Works, Civil and Structural Works for the New Subway			a para ana ang ang ang ang ang ang ang ang an						11111	111
B.RC_Comp	RC Structure completed for the new subway	0		05-Apr-17		05-Apr-17	-317	0			111
📄 Site Preliminary Wo	rks										111
SPW_0010	LCSD handover SBC & Play's Area	3	14-Apr-14A	16-Apr-14 A	31-Mar-15	02-Apr-15					
SPW_0020	Fence off the Site area for SBC & Play's Area	3	17-Apr-14 A	23-Apr-14 A	08-Apr-15	10-Apr-15			THIT		
SPW_0030	Employ security guard & security booth delivery	3	24-Apr-14 A	26-Apr-14 A	11-Apr-15	14-Apr-15					[1]]
SPW_0040	Removal of existing furniture for SBC & Play's Area as require	6	28-Apr-14 A	05-May-14 A	15-Apr-15	21-Apr-15					
SPW_0050	Trial trenches and expose existing UU service in SBC & Play's area	40	14-Apr-14 A	05-Jun-14 A	31-Mar-15	21-May-15		1			111
SPW_0060	Setting up site office & misc.	50	07-May-14 A	05-Jul-14 A	22-Apr-15	22-Jun-15					
SPW_0070	Form site access for vehicle	12	07-Jul-14 A	19-Jul-14 A	23-Jun-15	07-Jul-15		1	THIT	11111	
SPW_0080	Diversion of existing utilities & misc. works if require for SBC & Play's Area	24	09-Jun-14 A	07-Jul-14 A	26-May-15	23-Jun-15					
SPW_0090	Erect hoarding for SBC	12	16-Jul-14 A	29-Jul-14 A	24-Jun-15	08-Jul-15		1	1111	11111	
SPW_0100	Ground/ Site Investigation in SBC & Play's Area	18	08-Jul-14 A	28-Jul-14 A	24-Jun-15	15-Jul-15					
SPW_0110	Transplant and tree removal	72	24-Apr-14 A	21-Jul-14 A	11-Apr-15	08-Jul-15			1111	HIII	
- Northern Basket Ba	Il Court			1					T		1T
NBC_0010	Liaison with relevance parties for TTM	80	02-Apr-15A	02-Jul-15A	30-Jun-15	03-Oct-15					
BC_0020	LCSD handover Northern Basket Ball Court for LTS construction works	6	11-Aug-15 A	11-Aug-15 A	01-Aug-15	08-Aug-15					
- NBC_0030	Preparation works for NBC site access	4	11-Aug-15 A	11-Aug-15 A	08-Aug-15	13-Aug-15		1			. 11
- NBC 0040	Implementation of TTM			11-Aug-15 A		12-Aug-15					11
NBC_0050	Relocation of metal fence access door for public			11-Aug-15 A		20-Aug-15		1	httt	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	T
BC 0060	Hoarding installation, installation of site entry on Hennessy Road		-	15-Aug-15 A		15-Aug-15					1
BC_0070	Expose UU & trial trench for sheet piles works			20-Aug-15 A		26-Sep-15				(HHF	J
BC 0080	Phase 3 ELS- Sheet Piles Installation [104 no. x 24m]			23-Sep-15 A	and the second s	25-Nov-15	1				
NBC 0090	Curtain Grouting and remedial works for sheet piles not reaching to design toe level			13-Oct-15 A		17-Oct-15				111 H F	
BC 0100	Phase 3 ELS- Pumping Test preparation works			26-Oct-15A		14-Oct-15		1	titi:	$\frac{1}{2} - \frac{1}{2} - \frac{1}$	151
NBC_0110	Phase 3 ELS- Pumping Test			01-Nov-15 A		26-Oct-15	1				
NBC_0120	Phase 3 ELS- Pumping Test Report Preparation and submission to BD		1	02-Nov-15A		02-Nov-15					111
NBC_0130	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to		and the second s	10-Nov-15 A	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	12-Nov-15					
NBC_0140	Bulk excavation & layer 2 strut & preloading [500m^3]			21-Nov-15 A		30-Nov-15					111
BC_0140	Bulk excavation & layer 3 strut & preloading [500m^3]			03-Dec-15 A	1	31-Dec-15		i-	++++	+-+-+-+-+-	++
NBC_0160	Bulk excavation & layer 4 strut & preloading [500m^3]			04-Jan-16 A		26-Jan-16				HHH	
NBC 0170	Plate load test			08-Jan-16A		27-Feb-16					111
BC 0180	Plate load test- Plate load test- Preparation of report & submission to BD			31-Jan-16 A	1.000	05-Mar-16					
BC 0190	Base Slab- Waterproofing & RC construction [Concrete 490m^3] & [Re-Bar 29.5 T]			22-Jan-16A		23-Mar-16					
BC 0200	Wall- Waterproofing & RC construction [Concrete 300m^3] & [Re-Bar 54 T]		and the line of th	08-Mar-16 A		23-Mar-16			}		<u> </u> ++
BC_0200	Top Slab- Waterproofing & RC construction [Concrete 180m^3] & [Re-Bar 42.7 T]			01-Apr-16 A		25-Mar-16	-		11111	111111	
C	Construction of flood light footing [2 nos.]			01-Apr-16 A		08-Jun-16			1111	HUHE	
NBC_0220			29-Mar-16 A				21			11111	
NBC_0230	Reinstatement and installation of flood light [2nos.]				31-Mar-16	07-Apr-16	-21				
■ NBC_0240	Backfilling for Northern Basketball Court		05-May-16 A 04-Nov-16		05-May-16	19-May-16 25-Nov-16	-21		łłłł		++
BC_0250	Reinstate hard paving of Northern Basketball Court Reinstate surface coating of Northern Basketball Court		25-Nov-16	25-Nov-16 09-Dec-16	04-Nov-16 25-Nov-16	23-INOV-16 09-Dec-16	-21			HHH	
and the second											
NBC_0270	Hand over to LCSD, additional remedial if require		09-Dec-16	23-Dec-16	09-Dec-16	23-Dec-16	-21				
NBC_0280	Reinstate road surface on Hennessy Road	10	23-Dec-16	22-Mar-17	23-Dec-16	22-Mar-17	-21	0			
Southern Basket		0.5	00.11444	45 N 44 4	00 1445	22 5 15			1111		+++
SBC_0010	Phase 1 ELS- Sheet Piles Installation [184n. x 24m]	65	22-Jul-14 A	15-Nov-14 A	09-Jul-15	22-Sep-15					<u>(3.</u>]
Actual Level of	Effort Critical Remaining Contract C6593-	13C Wa	n Chai S	Station L	ee Tung	Street Sul	bway				
Primary Baselin				ram (Rev	0		0.00			3	TE
Actual Work	Milestone	112 0013	1108	and freek							

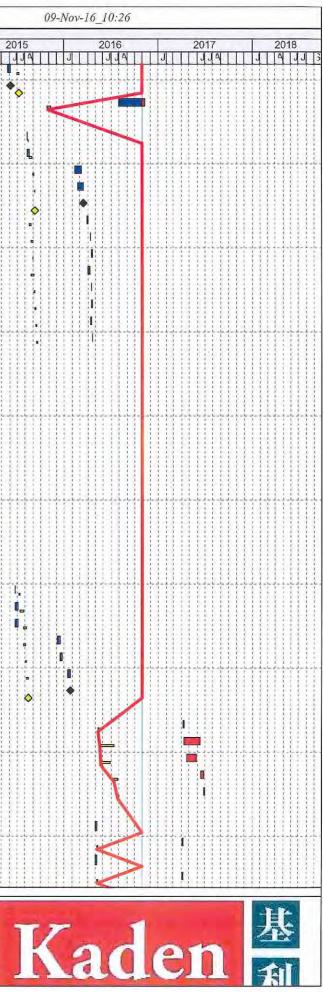


593-13C LTS MP Rev.C_BL_R Mity ID	Activity Name	Original Start	Finish	BL Project Start	BL Project Finish	Total	09-Nov-16_10:26						
		Duration				Float	Float 014		2015	20		2017	20
SBC_0020	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15 15-Oct-14 A	15-Nov-14 A	23-Sep-15	12-Oct-15				11114	JJJJ			
SBC_0030	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to	21 09-Oct-14 A			19-Oct-15	1							1111
SBC_0040	Phase 1 ELS- Pumping Test preparation works	15 16-Oct-14 A			12-Oct-15								
SBC 0050	Phase 1 ELS- Pumping Test	11 17-Nov-14 A			26-Oct-15				111111				
SBC_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD	6 04-Dec-14 A		- martine and a stream	02-Nov-15			, 🖬					-1
SBC 0070	Bulk excavation & layer 2 strut & preloading [800m^3]	28 15-Nov-14 A			16-Jul-15								
SBC_0080	Bulk excavation & layer 3 strut & preloading [800m^3]	30 18-Dec-14 A			20-Aug-15								
SBC 0090	Plate load test	6 26-Jan-15A			19-Jan-16	1		\square					
SBC_0100	Temporary Traffic Deck construction	12 10-Jan-15 A			03-Sep-15								
SBC 0110	Plate load test- Preparation of report & submission to BD	12 12-Feb-15A			03-Sep-15					+		r- 4 - 6 - 1- 4 - 6 - 6 - 6 - 4	
SBC 0120	Base Slab- Waterproofing & RC construction [Concrete 420m^3] & [Re-Bar 25.3 T]	15 04-Sep-15A			21-Sep-15				11111				11111
SBC 0130	Wall- Waterproofing & RC construction [Concrete 280m^3] & [Re-Bar 50.4 T]	21 02-Mar-15 A			17-Oct-15								
SBC 0140	Top Slab- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 50 T]	22 28-Mar-15 A			13-Nov-15								1111
SBC 0150	Construction of flood light footing (2 nos.)	7 14-May-15A			08-Jun-15						$a \pm 10$		11113
SBC 0160	Reinstatement and installation of flood light (2nos.)	3 05-Jun-15 A			11-Jun-15	1		++++++					
SBC 0170	Backfilling for Southern Basketball Court	6 18-May-15A			18-Jun-15								
SBC_0170	Reinstate hard paving of Southern Basketball Court	9 16-Jun-15A			13-Jul-15			HIII					1111
SBC_0190	Reinstate surface coating of Southern Basketball Court	9 20-Jun-15 A		Sand and the sand sand	23-Jul-15								
SBC_0190	Hand over to LCSD, additional remedial if require												1111
-	Hand over to LCSD, additional remedial in require	12 30-Jun-15 A	TT-Aug-15A	23-JUI-13	06-Aug-15						4444		+++++
Children's Play Area	Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]	65 22-Jul-14 A	15 Nov 14 A	21 Mor 15	22-Jun-15	1 - 1							
CPA_0010	Curtain Grouting and remedial works for sheet piles not reaching to design toe level												
		15 15-Oct-14 A			10-Jul-15			-					
CPA_0030	Phase 1 ELS- Pumping Test preparation works	15 16-Oct-14 A			10-Jul-15								1111
CPA_0040	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to	32 27-Oct-14 A			17-Aug-15								
CPA_0050	Phase 1 ELS- Pumping Test	11 17-Nov-14 A			23-Jul-15								
CPA_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD	6 04-Dec-14 A			30-Jul-15		[]						1111
CPA_0070	Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]	30 18-Dec-14 A			21-Sep-15		11						
CPA_0080	Play's Area Temporary Traffic Deck construction	12 10-Jan-15A			07-Oct-15		[]						
CPA_0090	Bulk excavation & layer 3 strut & preloading [680m^3]	40 09-Feb-15 A			24-Nov-15					4 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6			
CPA_0100	Bulk excavation & layer 4 strut & preloading [680m^3]	50 01-Mar-15 A			the second second		11						.1111
CPA_0110	Plate load test	6 30-Mar-15A											1111
CPA_0120	Plate load test- Preparation of report & submission to BD	12 08-Apr-15 A			18-Feb-16		11	11111	-			[]]]]]]]]]]]	1111
CPA_0130	Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]	30 23-Apr-15 A			24-Mar-16								
CPA_0140	Wall- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 37.8 T]	18 18-Jun-15 A	1		28-Jul-15					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			1111
CPA_0150	Top Slab- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]	20 07-Aug-15 A			22-Sep-15		11						
CPA_0160	Ventilation Shaft Below Ground- Waterproofing & RC construction [Concrete 35m^3] & [20 22-Aug-15 A			08-Oct-15					ŧHIHE			
CPA_0170	Ventilation Shaft 1.2m Above Ground- Waterproofing & RC construction [Concrete 25m'	18 14-Sep-15 A		14-Sep-15	06-Oct-15	-190	0						11111
CPA_0180	Ventilation Shaft - Waterproofing & RC construction reach +7.40 & +9.50mPD [Concrete			10-Nov-16	14-Dec-16	-190	0						1111
CPA_0190	Site cleaning for Play Area reinstatement & Landscape works	12 15-Dec-16		15-Dec-16	30-Dec-16	-190	0			<u> </u>			
CPA_0200	Reinstatement works for Plays Area	66 31-Dec-16		31-Dec-16	22-Mar-17	-190	0						
CPA_0210	Landscape works	66 23-Mar-17		23-Mar-17	15-Jun-17	-190	0	11111			X		11111
CPA_0220	Hand over to LCSD, additional remedial if require	48 16-Jun-17	11-Aug-17	16-Jun-17	11-Aug-17	-190	0						
Johnston Road					-					ннны			
JnR_0010	All Sheet Piles on JnR & 1st layer mini piles below Tram track completed	0	10-Apr-16 A		30-Jun-16				0	•			
JnR_0020	Phase 2 ELS- Pumping Test 1 for 1st layer	6 17-Mar-16A			20-Apr-16				-				
JnR_0030	Phase 2 ELS- Pumping Test Report for 1st layer Preparation and submission	6 21-Mar-16A		20-Apr-16	27-Apr-16								
 JnR_0040	Phase 2 ELS- 1st layer Pumping Test completed & satisfied	0	25-Apr-16 A		25-Apr-16					\$1111 AL			
 JnR_0050	Bulk excavation & layer 1 strut & preloading [570m^3]	24 30-May-16 A	27-Jun-16 A	07-May-16	04-Jun-16				111111	-			1111
JnR_0060	All grouting and sheet piles achieved to tot level in Johnston Road	0	07-Mar-16 A		24-Jun-16					♦			11111
Actual Level of Effort	Critical Remaining Contract C6593-	13C Wan Chai S	tation Le	e Tung	Street Sul	hway			1				10403
Primary Baseline				~	en eve out	- may			-	Ka	- 1		
		Master Progr	um (nev.	0						1		C research	A
Actual Work	Milestone	D								101	1 19	161	
Remaining Work	1	Progress vs Program	(Updated End	ing Oct'16)									2

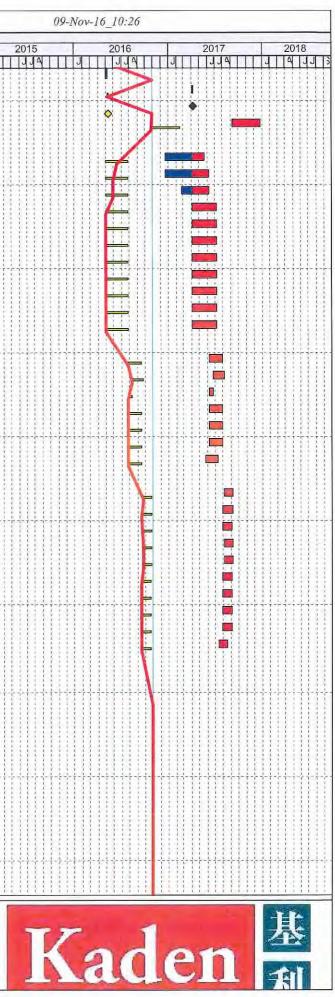
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15-Mar-17	7 05-Apr-17	-275	0		1111	1111	T
	05-Apr-17	-317	0		1111	1111	1
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JnR.TT_0130 Tr JnR.TT_0140 2r Johnston Road Westbound JnR.WBC_0010 Irr	teinstate the tram track surface ram track concrete decking & reinstatement works completed ready for Implementatior nd layer grouting and pipe piles below tram track to -17mPD (16m) 50no. x 324mm dia	Duration 6 25-May-15 A 0	06-Jun-15 A 06-Jun-15 A	Start 13-Aug-15	Finish 20-Aug-15 20-Aug-15	Float	Float 01	JA	11 11	2015
JnR.TT_0130 Tr JnR.TT_0140 2r Johnston Road Westbound JnR.WBC_0010 Irr	ram track concrete decking & reinstatement works completed ready for Implementation	0		13-Aug-15						
InR.TT_0140 2r Johnston Road Westbound InR.WBC_0010 Irr			06-Jun-15 A		20-Aug-15		11	1 1 1		
Johnston Road Westbound JnR.WBC_0010	nd layer grouting and pipe piles below tram track to -17mPD (16m) 50no. x 324mm dia	10 01 1 101			20-Hug-10			111	1111	•
JnR.WBC_0010		12 01-Aug-16 A	09-Nov-16	01-Aug-16	13-Aug-16	-275	0	111		
	carriageway (TTM Stage 5)							111	1111	
- InP W/PC 0020 Tr	nplementation of TTM Stage 5	3 11-Aug-15 A	12-Aug-15 A	23-Oct-15	26-Oct-15			111		
	rial Trench	12 11-Aug-15 A	18-Aug-15 A	27-Oct-15	09-Nov-15					
JnR.WBC_0030 Pr	hase 2 ELS- Sheet Piles Installation [20no. x 24m]	6 13-Feb-16A	07-Mar-16 A	15-Mar-16	21-Mar-16			111	1111	
JnR.WBC_0040 Ci	curtain Grouting and remedial works for sheet piles not reaching to design toe level	3 22-Feb-16 A	16-Mar-16 A	09-Apr-16	13-Apr-16			111		
JnR.WBC_0050 St	heet piles completed on Westbound carriageway	0	16-Mar-16 A		13-Apr-16			111		
JnR.WBC_0060 Co	oring for minipile No. 3 to reach -56mPD [60m]	8 29-Mar-16 A	01-Apr-16 A	08-Apr-16	16-Apr-16			111	1111	
JnR.WBC_0070 In	nstallation of Re-Bar for minipile No.3 [4x 60m T50, 3.7Ton]	5 15-Apr-16 A	15-Apr-16 A	16-May-16	21-May-16			111		1111
JnR.WBC_0080 Gi	Froutiong for minipile No.3	1 18-Apr-16 A	20-Apr-16 A	21-May-16	23-May-16			111	11111	
JnR.WBC_0090 Co	coring for minipile No. 4 to reach -56mPD [60m]	8 01-Apr-16A	11-Apr-16A	16-May-16	25-May-16			111		11111
JnR.WBC_0100 In:	nstallation of Re-Bar for minipile No.4 [4x 60m T50, 3.7Ton]	5 16-Apr-16 A	16-Apr-16 A	25-May-16	31-May-16			111	1111	1111
JnR.WBC_0110 G	Grouting for minipile No.4	1 19-Apr-16A	20-Apr-16 A	31-May-16	01-Jun-16			111		
JnR.WBC 0120 R	e-Bar Installation for minipile location	4 15-Apr-16 A	17-Apr-16A	01-Jun-16	06-Jun-16			111	1111	
JnR.WBC 0130 C:	ast Concrete minipile location	2 20-Apr-16 A	22-Apr-16A	05-Jul-16	06-Jul-16			111	TITT	
Johnston Road Westboun	d carriageway East Side (TTM Stage 2A)	and a second							1111	1111
	nplementation of TTM Stage 2A	3 18-Dec-14 A	20-Dec-14 A	12-Jun-15	15-Jun-15			111		
	xpose UU	12 22-Dec-14 A	07-Jan-15 A	16-Jun-15	30-Jun-15			111		
the second	U diversion on JnR Westbound Carriageway East Side	24 08-Jan-15 A			29-Jul-15			111		
	nstallation of temporary traffic decking	3 05-Feb-15A	1	1.000 2.000 0.000	01-Aug-15		1		THE	1.0.1.1
	raffic decking completed on Westbound Carriageway East Side for TTM Stage 2B	0	07-Feb-15A		01-Aug-15			111		
	d carriageway West Side (TTM Stage 2B)		1-2		Triving /	1		111		1111
mineralities and the second	nplementation of TTM Stage 2B	3 09-Feb-15A	11-Feb-15 A	03-Aug-15	05-Aug-15			111	111	
	xpose UU	12 12-Feb-15A			19-Aug-15			111		
	U diversion on JnR Westbound Carriageway West Side	18 02-Mar-15 A		-	24-Apr-15					
	U diversion on JnR Westbound Carriageway Completed	0	21-Mar-15 A	o i mai ro	24-Apr-15			111	11117	
	Installation of temporary traffic decking	6 23-Mar-15 A		30 Apr 16	07-May-16			111		21111
-	raffic decking completed on Westbound Carriageway West Side for TTM Stage 3	0	28-Mar-15 A	00-Api-10	07-May-16		1	111	11111	
Johnston Road South Foot		U	20-101a1-15 A		07-Way-10			111	11111	>
		2 22 km 15 A	22 Jun 15 A	09 Aug 15	11 Aug 15			++++	+++++	+++++-
and the second sec	nplementation of TTM 4	3 23-Jun-15 A		20 23 24				111		
		12 23-Jun-15A		12-Aug-15	25-Aug-15			111	1111	
	U diversion	9 23-Jun-15 A			04-Sep-15			111	1111	
	hase 2 ELS- Sheet Piles Installation [15no. x 24m]	6 05-Dec-15A			11-Jan-16			111		1111
	curtain Grouting and remedial works for sheet piles not reaching to design toe level	3 16-Dec-15A			14-Jan-16					
	Installation of Temporary Traffic decking	6 13-Jan-16 A		08-Mar-16	14-Mar-16			111	1111	
	heet Piles & Traffic decking completed on South Footpath for TTM Stage 5	0	25-Jan-16 A		07-Apr-16	2 2 2		111		
H15 Break Through Works								111	11111	
	stallation protection measurement for break through	3 10-Apr-17	12-Apr-17	10-Apr-17	12-Apr-17	-260	0	111	1111	
	reaking out to H15 - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m t	48 13-Apr-17	14-Jun-17	13-Apr-17	14-Jun-17	-260	0	111	1111	
	reaking out to H15 - Installation of temporary steel proping	30 22-Apr-17	29-May-17	22-Apr-17	29-May-17	-247	13	111	1111	
	reaking out to H15 - Construct the portal frame	12 15-Jun-17	28-Jun-17	15-Jun-17	28-Jun-17	-260	0	111		
the second secon	emolish the propping steel members	2 29-Jun-17	30-Jun-17	29-Jun-17	30-Jun-17	-260	0			
	s, ABWF Works for the New Subway							111	11111	HH
ABWF_0010 Pr	reparation works for Fire Shutter on GL-L	6 03-May-16 A	09-May-16 A	19-Dec-16	24-Dec-16					
ADIA/E 0000	stallation of Fire Shutter on GL-L			06-Apr-17	08-Apr-17	-260	0			
ABVVF_0020	reparation works for Security Shutter on GL-L	6 03-May-16 A	09-May-16 A	19-Dec-16	24-Dec-16				1111	
					08-Apr-17	-260		1 1 1	2.1.1.61	1.1.1.1.1



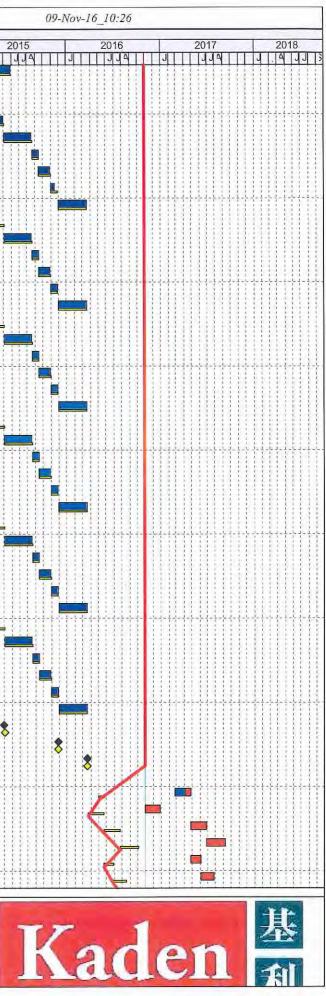
ity ID	Activity Name	Original S	tart	Finish	BL Project	BL Project	Total	Free	114		20	15
		Duration			Start	Finish	Float	Float		ाग	-	-
ABWF_0050	Preparation works for Flood Gate on GL-L	6 0	3-May-16 A	09-May-16 A	19-Dec-16	24-Dec-16						
ABWF_0060	Installation for Flood Gate on GL-L	3 0	6-Apr-17	08-Apr-17	06-Apr-17	08-Apr-17	-260	0				11
ABWF_0070	Completion of Flood Gate, Fire Shutter & Security Shutter on GL-L	0		08-Apr-17		08-Apr-17	-317	1			111	11
ABWF_0080	Remaining ABWF, finishing & Site cleaning works	90 0	7-Sep-17	27-Dec-17	07-Sep-17	27-Dec-17	-247	0				
ABWF Works - Degre	e 1											
BWF.D1_0010	Site Cleaning & dry the internal of Structure & building	72 1	9-Dec-16 A	23-May-17	19-Dec-16	18-Mar-17	-233	0	1111		1111	
ABWF.D1_0020	Installation of blockwalls & partition wall except on plant access route	72 1	9-Dec-16 A	10-Jun-17	19-Dec-16	18-Mar-17	-247	0	<u>111</u>		111	1.
ABWF.D1_0030	Apply Plastering, undercoat, painting, floor screeding including plinths and upstands		2-Feb-17A	10-Jun-17	22-Feb-17	24-May-17	-82	0			111	
ABWF.D1_0040	Forming equipment delivery routes and access openings for DC or Interface Contractors	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0			111	1.1
BWF.D1_0050	Install Cast-in items, subframe; Form niches, recesses & box outs; Install cable troughs, (72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0				
ABWF.D1_0060	Preparation, submission and approval of Structure as-built survey	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0			1111	: :
BWF.D1_0070	Form Structural & blockwork E&M openings & preparation of survey	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0				
ABWF.D1_0080	Installation of movement joints & stitch strips	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0	1111			
BWF.D1_0090	Form escalator zones & pits complete; survey reference lines for acceptance	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0			111	11
BWF.D1_0100	Installation of Earthing mat, earthing rods & earthing pits, test & acceptance	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0				
BWF.D1_0110	Installation of underground pipe work including manholes, ductworks & drawpits	72 0	6-Apr-17	06-Jul-17	06-Apr-17	06-Jul-17	-104	0	h H			H
ABWF Works - Degre											111	
ABWF.D2_0010	Permanent door frames installed with temporary doors & locks		0-Jun-17	31-Jul-17	10-Jun-17	31-Jul-17	-241	0		1111	111	1.1
ABWF.D2_0020	Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors	36 2	4-Jun-17	07-Aug-17	24-Jun-17	07-Aug-17	-247	0			1111	1.1
BWF.D2_0030	Install Glazing & Balustrade support	12 1	0-Jun-17	24-Jun-17	10-Jun-17	24-Jun-17	-247	0			111	
ABWF.D2_0040	Install Metal staircases, cat-ladders & catwalks	42 1	0-Jun-17	31-Jul-17	10-Jun-17	31-Jul-17	-244	0			111	
ABWF.D2_0050	Install External louvers	42 1	0-Jun-17	31-Jul-17	10-Jun-17	31-Jul-17	-244	0	1.1.1.		+++++	1
ABWF.D2_0060	Install Framework for final finishes	42 1	0-Jun-17	31-Jul-17	10-Jun-17	31-Jul-17	-244	0			111	
ABWF.D2_0070	Water tightness testing to water tanks & acceptance	42 2	4-May-17	13-Jul-17	24-May-17	13-Jul-17	-230	0			111	
ABWF Works - Degre						-1					111	
ABWF.D3_0010	Inatall & apply all remaining finishes including permanent doors, ironmongery	27 0	7-Aug-17	07-Sep-17	07-Aug-17	07-Sep-17	-247	0	FH F		111	11
BWF.D3_0011	Installation of VE Panel [591m^2]	33 3	1-Jul-17	07-Sep-17	31-Jul-17	07-Sep-17	-157	0				ļ
ABWF.D3_0012	Installation of Ceiling Panel [565 m ²]		1-Jul-17 A	04-Sep-17	31-Jul-17	07-Sep-17	-154	3				
ABWF.D3_0013	Installation of floor finishing [565 m ²]		7-Aug-17	07-Sep-17	07-Aug-17	07-Sep-17	-157	0			111	11
ABWF.D3_0020	Install Balustrade	harris and have been been been been been been been be	7-Aug-17	07-Sep-17	07-Aug-17	07-Sep-17	-247	0				1
ABWF.D3_0030	Install Signage hangers & supports		1-Jul-17	04-Sep-17	31-Jul-17	04-Sep-17	-244	0	HH		111	
ABWF.D3_0040	Install smoke barriers	30 3	1-Jul-17	04-Sep-17	31-Jul-17	04-Sep-17	-244	0				
ABWF.D3_0050	Apply Acoustic treatment	30 3	1-Jul-17	04-Sep-17	31-Jul-17	04-Sep-17	-244	0		HH		
ABWF.D3_0060	Install Louvres & grilles	30 3	1-Jul-17	04-Sep-17	31-Jul-17	04-Sep-17	-244	0			111	Ĩ
ABWF.D3_0070	Seal All openings & Penetrations	30 1	4-Jul-17	17-Aug-17	14-Jul-17	17-Aug-17	-230	0			111	
C: Building Servi	ces										111	-
Design, Shop Drawi	ngs, Materials & Equipments Submission and Approval											1
BS.DS_0010	BS Works- Preparation and submission for detailed design of BS works	128 1	4-Apr-14 A	18-Sep-14 A	31-Mar-15	04-Sep-15					111	1
BS.DS_0020	BS Works- Review and approval for detailed design of BS works	12 1	9-Sep-14 A	04-Oct-14 A	05-Sep-15	18-Sep-15					111	
BS.DS_0030	BS Works- Preparation and re-submission for detailed design of BS works (If require)	12 0	6-Oct-14 A	18-Oct-14 A	19-Sep-15	05-Oct-15			1			1
BS.DS_0040	BS Works- Review and approval for detailed design of BS works (If require)	12 2	0-Oct-14 A	01-Nov-14 A	06-Oct-15	19-Oct-15						
BS.DS_0050	BS Works- Contractor prepare & submit the propose suppliers & model types of major E	128 1	4-Apr-14 A	18-Sep-14 A	31-Mar-15	04-Sep-15						U
BS.DS_0060	BS Works- Review & approval the propose suppliers & model types of major BS equipm	12 1	9-Sep-14 A	04-Oct-14 A	05-Sep-15	18-Sep-15					111	1
BS.DS_0070	BS Works- Contractor prepare & re-submit propose suppliers & model types of major Bt	12 0	6-Oct-14 A	18-Oct-14 A	19-Sep-15	05-Oct-15						
BS.DS_0080	BS Works- Review the propose suppliers & model types of major BS equipment & mater	12 2	0-Oct-14 A	01-Nov-14 A	06-Oct-15	19-Oct-15						1
BS.DS_0090	BS Works- Preparation and submission of BS shop drawings	32 0	3-Nov-14 A	09-Dec-14 A	20-Oct-15	26-Nov-15						
BS.DS_0100	BS Works- Review and approval of BS shop drawings	12 1	0-Dec-14 A	23-Dec-14 A	27-Nov-15	10-Dec-15						
BS.DS_0110	BS Works- Preparation and re-submission of BS shop drawings (If require)	12 2	4-Dec-14 A	09-Jan-15 A	11-Dec-15	24-Dec-15	1				IT	
BS.DS_0120	BS Works- Review and approval of BS shop drawings (If require)	12 1	0-Jan-15 A	23-Jan-15 A	28-Dec-15	11-Jan-16						1
A of unit is such as the	ffort Critical Remaining Contract C6593-1	13C Wan	Chai C	tation L	on Tung	Straat C.	hway				-	7
Actual Level of E					-	Succi Bu	unay					
Primary Baseline	Baseline Milestone	Maste	er Progi	ram (Rev.	.()							



vity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 014		2015
			20 May 15 A	24 1.445	27 Nov 15		110	ШТ	11111
BS.DS_0130	Exchange of Design Information with Designated and Interfacing Contractors	100 24-Jan-15 A	30-May-15 A	31-JUE 13	27-Nov-15				11111
BS.PD 0010	elivery of Materials and Equipments All Major building service equipments & materials - Manufacture & fabrication - Procurent	50 03-Nov-14 A	02- Jan-15 A	20-Oct-15	17-Dec-15				
BS.PD_0010	Others Major building service equipments & materials - Manufacture & rabitation - Producer Others Major building service equipments & materials - Place order	95 03-Jan-15 A		i la	18-Apr-16			titt	
BS.PD_0020	Others Major building service equipments & materials - hace order Others Major building service equipments & materials - Manufacture & fabrication	90 04-May-15 A			14-Jan-16			1111	
BS.PD_0030	Others Major building service equipments & materials - Manuacture & abrication Others Major building service equipments & materials - Factory acceptance testing	24 20-Aug-15 A	and the state of t		02-Mar-16			11111	11111
BS.PD 0050	Others Major building service equipments & materials - Remedial works (If require)	36 17-Sep-15 A			18-Apr-16			11111	
BS.PD_0060	Others Major building service equipments & materials - Factory acceptance (If require)	24 02-Nov-15 A			18-May-16				
BS.PD_0070	Others Major building service equipments & materials - Delivery to site/ ECS Room	90 30-Nov-15 A			02-Sep-16			行行	
BS.PD 0080	Air Handling Unit - Place Order	95 03-Jan-15 A			18-Apr-16			11111	
BS.PD 0090	Air Handling Unit - Manufacture & fabrication	90 04-May-15 A			16-Nov-15			1111	
BS.PD 0100	Air Handling Unit - Factory acceptance testing	24 20-Aug-15 A			23-Mar-16			11111	111111
BS.PD 0110	Air Handling Unit - Remedial works (If require)	36 17-Sep-15 A			10-May-16				
BS.PD 0120	Air Handling Unit - Factory acceptance testing (If require)	24 02-Nov-15 A			08-Jun-16			计十十	11111
BS.PD 0130	Air Handling Unit - Delivery to site/ ECS Room	90 30-Nov-15 A			24-Sep-16				
BS.PD 0140	In-line Centrifugal Fan - Place Order	95 03-Jan-15 A			18-Apr-16	1		1111	
BS.PD 0150	In-line Centrifugal Fan - Manufacture & fabrication	90 04-May-15 A			16-Nov-15			1111	
BS.PD_0160	In-line Centrifugal Fan - Factory acceptance testing	24 20-Aug-15 A	and the second s		23-Mar-16			HHH	
BS.PD_0100	In-line Centrifugal Fan - Remedial works (If require)	36 17-Sep-15 A			10-May-16				
BS.PD_0180	In-line Centrifugal Fan - Factory acceptance testing (If require)	24 02-Nov-15 A			08-Jun-16				
BS.PD_0100	In-line Centrifugal Fan - Delivery to Site/ ECS Room	90 30-Nov-15 A			24-Sep-16			1111	
BS.PD_0190	Smoke Extraction Fan - Place Order	95 03-Jan-15 A			18-Apr-16				
		90 04-May-15 A			16-Nov-15			1111	
BS.PD_0210	Smoke Extraction Fan - Manufacture & fabrication	24 20-Aug-15 A			23-Mar-16			++++	
BS.PD_0220	Smoke Extraction Fan - Factory acceptance testing	36 17-Sep-15 A			10-May-16			11111	
BS.PD_0230	Smoke Extraction Fan - Remedial works (If require)	24 02-Nov-15 A			08-Jun-16				
BS.PD_0240	Smoke Extraction Fan - Factory acceptance testing (If require)				24-Sep-16				
BS.PD_0250	Smoke Extraction Fan - Delivery to site/ ECS Room	90 30-Nov-15 A 95 03-Jan-15 A			18-Apr-16			1111	
BS.PD_0260	Fan Coil Unit - Place order				and the second s			++++	
BS.PD_0270	Fan Coil Unit - Manufacture & fabrication	90 04-May-15 A			16-Nov-15				
BS.PD_0280	Fan Coil Unit - Factory acceptance testing	24 20-Aug-15 A			23-Mar-16				
BS.PD_0290	Fan Coil Unit - Remedial works (If require)	36 17-Sep-15 A			10-May-16			11111	
BS.PD_0300	Fan Coil Unit - Factory acceptance testing (If require)	24 02-Nov-15 A			08-Jun-16			11111	
BS.PD_0310	Fan Coil Unit - Delivery to site/ ECS Room	90 30-Nov-15 A			24-Sep-16			+++++	
BS.PD_0320	Motorized Smoke & Fire damper - Place order	95 03-Jan-15 A			18-Apr-16			11111	
BS.PD_0330	Motorized Smoke & Fire damper - Manufacture & fabrication	90 04-May-15 A			16-Nov-15		[]]		
BS.PD_0340	Motorized Smoke & Fire damper - Factory acceptance testing	24 20-Aug-15 A			23-Mar-16		11		
BS.PD_0350	Motorized Smoke & Fire damper - Remedial works (If require)	36 17-Sep-15 A			10-May-16	-			
BS.PD_0360	Motorized Smoke & Fire damper - Factory acceptance testing (If require)	24 02-Nov-15 A			08-Jun-16				
BS.PD_0370	Motorized Smoke & Fire damper - Delivery to site/ ECS Room	90 30-Nov-15 A			24-Sep-16				
BS.PD_0380	All Major equipment BS equipment & materials - Completed placing orders	0	02-May-15 A		31-Mar-16				8
BS.PD_0390	All Major equipment BS equipment & materials - Completed all factory acceptance testing	0	28-Nov-15 A		31-Mar-16				
BS.PD_0400	All Major equipment BS equipment & materials - Completed delivery to ECS room	0	19-Mar-16 A		04-Jun-16	-	[]		
Installation of Build		17 00 E-L 17 A	27 4 47	00 Eak 47	14 Mar 17	075		+++++	
BS.I_0009	Installation of trucking, cable for the whole subway linking between H15 and WAC station	17 22-Feb-17 A		22-Feb-17	14-Mar-17	-275	94		
BS.I_0010	Electrical - Within Stn, Distribution equip. 16 nr, cable tray & trunk 420m, lighting fitting 8	49 31-Oct-16	28-Dec-16	31-Oct-16	28-Dec-16	-181	94		
BS.I_0020	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth	50 27-Apr-17	28-Jun-17	27-Apr-17	28-Jun-17	-275	0		
and the second sec									
annear and a second sec	and succession of the second se			17				++++	
BS.I_0050	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, dampe	42 05-Jun-17	25-Jul-17	05-Jun-1/	29-JUI-1/	-261		80 F []	
BS.I_0030 BS.I_0040 BS.I_0050 Actual Level of I	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth ECS - Within WAC Stn, Grille 6 nr, air duct 115m2, damper 7 nr. ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, dampe	6028-Jun-173027-Apr-174205-Jun-17	07-Sep-17 05-Jun-17 25-Jul-17	28-Jun-17 27-Apr-17 05-Jun-17	07-Sep-17 05-Jun-17 25-Jul-17 Street Sul	-275 -261 -261	0		

Remaining Work

Progress vs Program (Updated Ending Oct'16)



3-13C LTS MP Rev.C_BL	_Report (Oct16)								09-Nov-16	5_10:26		
y ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 014		2015	2016	2017	and the second sec
BS.1_0060	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, dampe	24 25-Jul-17	22-Aug-17	25-Jul-17	22-Aug-17	-261	14 J		447111411			
BS.I_0070	FS Works - Within H15, Pipe 59m, dectector 7 nr, hose reel 1 nr	21 03-Jul-17	26-Jul-17	03-Jul-17	26-Jul-17	-260	0				11111	
BS.I_0080	FS Works - Subway, Pipe 155m, valve 2 nr, detectors 38 nr, hose reel 1 nr, fire extinguis	21 27-Jul-17	19-Aug-17	27-Jul-17	19-Aug-17	-260	15					
BS.I 0090	Drainage System - Waste - Existing WSC Stn, 35 m pipe, 2 valve, 4 pit, 1 switch/ control	18 27-Apr-17 A		27-Apr-17	20-May-17	-215	0				11116	
BS.I_0100	Drainage System - Waste - Subway, Pipe DI/CI 257+18m, 7 joint, 6 OTC	18 20-May-17 A		20-May-17	12-Jun-17	-215	0			1 Contra		-1-4-4-1-5-4-1-4-4
BS.I 0110	Drainage System - Waster Subway, hipe Diol 201 Hom, a Dorito Diol 201 Hom, a Dorito Diol 201 Hom, a Diol 201 Hom, a Diol 201 Hom a Diol 201 H	18 12-Jun-17 A		12-Jun-17	04-Jul-17	-215	0	11111111111				
BS.I_0120	Cleansing Water System - Within WAC Station, 137m copper pipe, 3 gate valve, 2 stopc	54 27-Apr-17	04-Jul-17	27-Apr-17	04-Jul-17	-268	0			\mathbf{Z}		
BS.I 0130	Cleansing Water System - Subway, 87m copper pipe, 1 gate valve, 2 stopt	48 04-Jul-17	29-Aug-17	04-Jul-17	29-Aug-17	-268	0	11:11:11:11		IN H		
BS.I 0140	Installation of Air Handling Unit	110 27-Apr-17	07-Sep-17	27-Apr-17	07-Sep-17	-275	0	111111111				
BS.I 0150	Installation of In-line Centrifugal Fan	110 27-Apr-17	07-Sep-17	27-Apr-17	07-Sep-17	-275	0	+++++++++++++++++++++++++++++++++++++++				
-	Installation of Smoke Extraction Fan	110 27-Apr-17	07-Sep-17	27-Apr-17	07-Sep-17	-275						
BS.I_0160			07-Sep-17	27-Apr-17	07-Sep-17	-275	0					
BS.I_0170	Installation of Fan Coil Unit	110 27-Apr-17				-275	0					
BS.I_0180	Installation of Motorized Smoke & Fire damper	110 27-Apr-17	07-Sep-17	27-Apr-17	07-Sep-17		0					
BS.I_0190	Installation & integration of control system	110 27-Apr-17	07-Sep-17	27-Apr-17	07-Sep-17	-275	0					
BS.I_0200	Remaining BS Works	21 07-Sep-17	03-Oct-17	07-Sep-17	03-Oct-17	-272	3					
INF.SAMSp	Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct*	0	07-Sep-17	-	07-Sep-17	-192		111111111		\diamond		THEFT
Testing and Commission			07.0 / /7	07.0 17	07.0 1.47	075						
BS.TC_0010	T&C ECS - Tests on Ventilation Fans, Air Balancing, Equipment & System, Control, Nois	24 07-Sep-17	07-Oct-17	07-Sep-17	07-Oct-17	-275	0	1111111111				
BS.TC_0020	T&C - SAT of HV Sw Boards/ TX, LV Sw Boards & MCC, Lighting Control, etc.	24 07-Sep-17	07-Oct-17	07-Sep-17	07-Oct-17	-275	0					
BS.TC_0030	T&C Fire Services - Performance Test/ FH & HR System/ Auto Fire Alam System	24 07-Sep-17	07-Oct-17	07-Sep-17	07-Oct-17	-275	0	111111111	/			
BS.TC_0040	T&C Plumbing and Drainage - P&D Pumps, Control System	24 29-Aug-17	26-Sep-17	29-Aug-17	26-Sep-17	-268	0		/111111111			
BS.TC_0050	T&C ELV System - Contol Systems	24 07-Sep-17	07-Oct-17	07-Sep-17	07-Oct-17	-275	0		ALL HULL			
FSI	FSI - Integrated Test	11 07-Oct-17	20-Oct-17	07-Oct-17	20-Oct-17	-275	0					۵
Statutory Inspection ar	nd Approval							11111111				
BS.SIA_0010	Submit BA14 for completion of breakthrough	6 03-Jul-17	08-Jul-17	03-Jul-17	08-Jul-17	-130	0			11		
BS.SIA_0020	BD's acknowledgementletter obtained	24 10-Jul-17	05-Aug-17	10-Jul-17	05-Aug-17	-130	289	1111111111	.111111111			
BS.SIA_0030	DSD/ WSD Inspection and Connection	24 26-Sep-17	26-Oct-17	26-Sep-17	26-Oct-17	-268	7				-	
BS.SIA_0040	Connection for electricity	12 20-Oct-17	04-Nov-17	20-Oct-17	04-Nov-17	-275	0	111111111	.1111111111		-	114111
BS.SIA_0050	Submit Form 1 and Form 2	1 04-Nov-17	06-Nov-17	04-Nov-17	06-Nov-17	-275	0					
BS.SIA_0060	FS Inpection / Re-inspection	12 06-Nov-17	20-Nov-17	06-Nov-17	20-Nov-17	-275	0				÷	
BS.SIA_0070	FS Defect Rectification and Approval	12 21-Nov-17	05-Dec-17	21-Nov-17	05-Dec-17	-275	0			1111	H H H H	
BS.SIA_0080	Form 3 Obtained	1 05-Dec-17	06-Dec-17	05-Dec-17	06-Dec-17	-275	0			11111		
BS.SIA_0090	BD Inpection/ Re-inspection	6 06-Dec-17	13-Dec-17	06-Dec-17	13-Dec-17	-275	0				e	
BS.SIA_0100	EMSD-RB Pre-Inspection by MTRC Ops Team	1 13-Dec-17	14-Dec-17	13-Dec-17	14-Dec-17	-275	0					
BS.SIA_0110	Remedial Works	24 14-Dec-17	15-Jan-18	14-Dec-17	15-Jan-18	-275	106		1111111111	11111		. E E E E E E E E E
BS.SIA_0120	EMSD-RB Formal Inspection	1 29-May-18	29-May-18	29-May-18	29-May-18	-381	0					
BS.SIA_0130	Remedial Works & Re-Inspection (If Require)	6 30-May-18	05-Jun-18	30-May-18	05-Jun-18	-381	0		/11111111			
BS.SIA_0140	EMSD Letter of "No Objection" Obtained/ Ready to Open	6 06-Jun-18	12-Jun-18	06-Jun-18	12-Jun-18	-381	0					
BS.SIA_Comp	Complete & pass all statutory, joint Inspection & handover to Operation Team for the BS	0	12-Jun-18		12-Jun-18	-471	0			11111	6	
ALCONTRACTOR OF A DESCRIPTION	on Works (Part B Works)											
WAC Station Modificati		00 00 11 17	00.14- 17	00.14- 47	20 14-11 17	100	-					
WMW_0010	Install New Telephone Booth and associated works (NTH)	60 06-Mar-17	20-May-17	06-Mar-17	20-May-17	-381	30					
WMW_0020	Relocate 4 Advertising Panels (NTH)	21 27-Jun-17	21-Jul-17	27-Jun-17	21-Jul-17	-392	0					
WMW_0030	Finishing, Remedial works & site cleaning	24 13-Nov-17	09-Dec-17	13-Nov-17	09-Dec-17	-381	0					+++++++++++++++++++++++++++++++++++++++
AFC Audit Room			00.0		07 5 4 10	1				N		1111111
	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC, Concourse Lev	0	28-Dec-15 A		27-Feb-16			♦				
WMW.AFC_0010	Preparation works for works in WAC station	10 28-Dec-15A			22-Oct-15			-		11111		
WMW.AFC_0020	Internal Hoarding in WAC station (NTH)	12 04-Jan-16 A			12-Dec-15						HILLI	
WMW.AFC_0030	Construct new AFC/Audit Room next to Entrance B1, B2, ABWF & BS Works (NTH)	60 28-Dec-15A	1	1	1				111111 Corre	an 13 13 .	3111(11)	
Actual Level of Effo	ort Critical Remaining Contract C6593-			0	Street Sul	oway			Ka		1	
Primary Baseline	♦ Asseline Milestone	Master Prog	ram (Ren	.C)					TT	5		20
Actual Work	Milestone	0								16	OCE	
Remaining Work		Progress vs Program	AL 1	1. 0						11		

5593-13C LTS MP Rev.C_B	Activity Name	Original Start	Finish	BL Project	BL Project	Total	Free			_	09-N
and its	ridenty reand	Duration	1 111011	Start	Finish	Float	Float 01			2015	
- Existing AEC Aduit Ro	om, Maxim's & Circle K Kiosks						H	JALL		111141	HH.
WMW.K 0010	Liaison with MTR/ relevance parties for modification works of existing Kiosks & Audit Roo	36 27-Apr-15 A	30-Jun-15 A	05-Jul-16	15-Aug-16			1111			
WMW.K 0020	Internal Hoarding in WAC station (NTH)	12 31-Oct-16	12-Nov-16	31-Oct-16	12-Nov-16	-411	0	1111	1111		111
WMW.K 0030	Modification Works to existing AFC/Audit, Store & Kiosk 3 & 5 (NTH)	90 14-Nov-16	04-Mar-17	14-Nov-16	04-Mar-17	-411	0	1111	1111		
WMW.K 0040	Modification to existing Kiosk 2 (NTH)	90 06-Mar-17	26-Jun-17	06-Mar-17	26-Jun-17	-411	0	1111			
ABWF Works & Misc			Les rait 11	T				++++		++++	N
WMW.ABWF 0010	ABWF - Plaster & titling 29 m2, baffling ceiling 10 m2, metal dadding 9 m2	70 27-Jun-17	16-Sep-17	27-Jun-17	16-Sep-17	-411	0	1111	1111		N
Breaking Out WAC St	ation			1	1	L		1111			
WMW.BO_0010	Installation protection measurement for break through	2 17-Oct-16 A	19-Oct-16 A	22-Jul-17	24-Jul-17			1111			
WMW.BO_0020	Breaking out WAC Station - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m	54 19-Oct-16 A	20-Oct-17	18-Sep-17	22-Nov-17	-381	0	1111	1111		
WMW.BO_0030	Breaking out WAC Station - Installation of temporary steel proping	30 23-Sep-17 A	06-Oct-17	23-Sep-17	31-Oct-17	-369	12	111		付付付付	111
WMW.BO_0040	Breaking out WAC Station - Construct the portal frame	12 21-Oct-17	04-Nov-17	21-Oct-17	04-Nov-17	-381	0	1111	1111	61111	
WMW.BO_0050	Demolish the propping steel members	6 06-Nov-17	11-Nov-17	06-Nov-17	11-Nov-17	-381	0	1111	1111		
Testing and Commiss	ioning							1111	1111		
WMW.C_0010	Testing and Commissioning	30 22-Jul-17	25-Aug-17	22-Jul-17	25-Aug-17	-392	19	111			
WMW.K_Comp	Specified Part 2B - Complete all works at the 2 new Shop Kiosks and hand over to the E	0	16-Sep-17		16-Sep-17	-503	0	THI	TH		TH
E. WAC Station Im	porvement Works (Part C Works)							1111	111		
Improvement Works	to WAC Station							1111			
WIW_0010	Modify, provide & install new glass barrier to suit new AFC gates (NTH)	34 12-Oct-15 A	20-Nov-15 A	01-Nov-16	09-Dec-16			1111			
WIW_0020	Provide and install additional AFC gates (NTH)	34 06-Mar-17	18-Apr-17	06-Mar-17	18-Apr-17	-40	0	1111	1111		
WIW_0030	Provide builder works for TIMS relocation (NTH)	40 11-Dec-17	29-Jan-18	11-Dec-17	29-Jan-18	-381	0	1111			TTT
😑 WIW_0040	T&C by Designated Contractor for TIMS (NTH)	40 30-Jan-18	20-Mar-18	30-Jan-18	20-Mar-18	-381	0	1111		61111	
🔲 WIW_0050	Make Good builder works for TIMS (NTH)	53 21-Mar-18	28-May-18	21-Mar-18	28-May-18	-381	0	1111	1111		
WIW_Comp	E3- All works in milestone E completed - Programmed	0	28-May-18		28-May-18	-472	0	1111			

Actual Level of Effort Critical Remaining ...

Primary Baseline

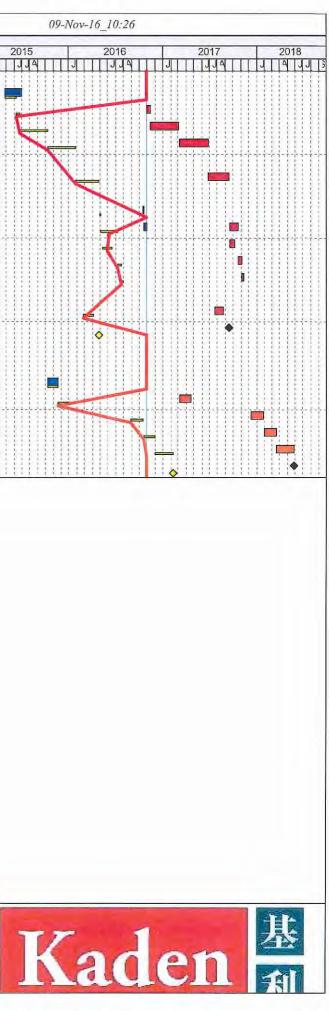
Actual Work

Remaining Work

0 ♦ Baseline Milestone Milestone ٠

Contract C6593-13C Wan Chai Station Lee Tung Street Subway Master Program (Rev.C)

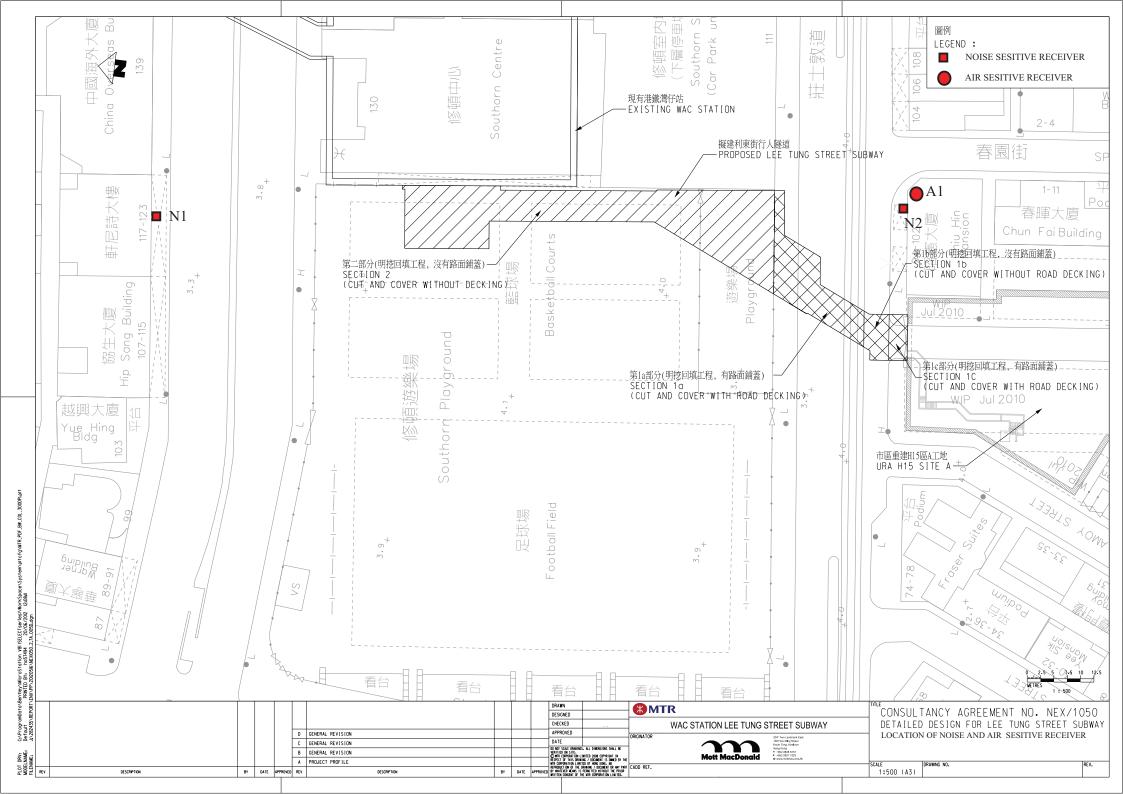
Progress vs Program (Updated Ending Oct'16)





Appendix C

Monitoring Locations





Appendix D

Calibration Certificate of Monitoring Equipment

Location : Location I		n Mansic A1	on			1	Next Calibra	Calibration: 13-Dec-16 ration Date: 13-Feb-17
							TIONS	Fechnician: Mr. Ip Ka Hing
	Se	a Level I Temp	Pressure erature	`´´		1014.5 22.9]	Corrected Pressure (mm Hg) 760.875 Temperature (K) 296
				С	ALII	BRATI		E
				Make-> Model-> Serial # ->	502	5A		Qstd Slope -> 2.00411 Qstd Intercept -> -0.03059
					(CALIBI	RATION	
Plate		H2O (R)	H20	Qstd		Ι	IC	LINEAR
<u>No.</u>	(in)	(in)	(in)	(m3/min)		hart)	corrected	REGRESSION
18 13	5.4 4.2	5.4 4.2	10.8 8.4	1.662 1.467		52 46	52.40 46.35	Slope = 37.3070 $Intercept = -9.1706$
10	3.1	4.2 3.1	6.2	1.407		40 38	40.33 38.29	Corr. coeff. = 0.9977
7	2.4	2.4	4.8	1.113		31	31.24	
5	1.5	1.5	3	0.883		24	24.18	
Calculatio	ne ·							FLOW RATE CHART
Qstd = 1/r IC = I[Sq1	n[Sqrt(H			/Ta))-b]		60.	00	
Qstd = sta IC = corre I = actual m = calibr b = calibra	cted char chart res ator Qstc ator Qstd	rt respond ponse l slope intercept	t			.05 Actual chart response (IC) .05 .02 .02	00	
	-		_	oration (deg ation (mm]	_	stual chart	00	
For subse 1/m((I)[S	-			npler flow:		8 10.		
m = samp	ler slope							
b = samp		ept				0	00	
I = chart r	-					0.	0.000	0.500 1.000 1.500 2.000
Tav = dail		-						Standard Flow Rate (m3/min)
Pav = dail	y averag	e pressur	e		_			



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

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Operator	Tisch	Orifice I.I)	1612	Pa (mm) -	745.49
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3770 0.9710 0.8710 0.8310 0.6860	3.2 6.4 7.8 8.7 12.6	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9804 0.9793 0.9741	0.7165 1.0117 1.1256 1.1785 1.4200	1.4078 1.9909 2.2259 2.3345 2.8155		0.9957 0.9914 0.9894 0.9883 0.9830	0.7231 1.0210 1.1360 1.1893 1.4330	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	2.00411 -0.03059 0.99995 Pa/760) (298/T	'a)]	Qa slop intercep coeffici y axis =	t (b) =	1.25494 -0.01933 0.99995 Ca/Pa)l

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. : C162125 證書編號

Unit A, 20/F., Gol	
TEST CONDITIONS / 測試條件 Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 :	Relative Humidity / 相對濕度 : (55 ± 20)%
TEST SPECIFICATIONS / 測試規範 Calibration check DATE OF TEST / 測試日期 : 22 April 2	2016
TEST RESULTS / 測試結果 The results apply to the particular unit-under-test The results do not exceed manufacturer's specific The results are detailed in the subsequent page(s) The test equipment used for calibration are trace - The Government of The Hong Kong Special A - Agilent Technologies / Keysight Technologies - Rohde & Schwarz Laboratory, Germany - Fluke Everett Service Center, USA	cation.). able to National Standards via : .dministrative Region Standard & Calibration Laboratory
Tested By : Worf[. 測試 H T Wong	

Certified By 核證

Date of Issue : 簽發日期

25 April 2016

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

:

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

Technical Officer

K C/Lee Project Engineer



Certificate of Calibration 校正證書

Certificate No. : C162125 證書編號

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

<u>Equipment ID</u> CL130	<u>Description</u> Universal Counter	<u>Certificate No.</u> C153519
CL281	Multifunction Acoustic Calibrator	PA160023
TST150A	Measuring Amplifier	C161175

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.2	± 0.2
114 dB, 1 kHz	114.1		

5.2 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 :

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.



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C162177 證書編號

ITEM TESTED / 送檢項目	(Job No. / 序引編號:IC16-0843)	Date of Receipt / 收件日期: 14 April 2016				
Description / 儀器名稱 :	Integrating Sound Level Meter (EQ006)					
Manufacturer / 製造商 :	Brüel & Kjær					
Model No. / 型號 :	2238					
Serial No. / 編號 :	2285762					
Supplied By / 委託者 :	Action-United Environmental Services and Consulting					
	Unit A, 20/F., Gold King Industrial Buildir	ıg,				
	35-41 Tai Lin Pai Road, Kwai Chung, N.T	•				
	-					
TET CONDITIONS / 湖注	升校/开					
TEST CONDITIONS / 測記						
Temperature / 溫度 : (2.	$(3 \pm 2)^{\circ}C$ Reference of the second seco	elative Humidity / 相對濕度 : (55±20)%				
Line Voltage / 電壓 :	r.					

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 25 April 2016

TEST RESULTS / 測試結果

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

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA
- Rohde & Schwarz Laboratory, Germany

Tested By 測試	:H T Wong Technical Officer		
Certified By 核證	: K C Lee Project Engineer	Date of Issue : 簽發日期	27 April 2016

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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C162177 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration 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	40 MHz Arbitrary Waveform Generator	C160077
CL281	Multifunction Acoustic Calibrator	PA160023

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Self-calibration

	UUT S	Setting	Applied	Value	UUT		
Range	Parameter	Frequency	Time	Level	Freq.	Reading	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	
50 - 130	L _{AFP}	А	F	94.00	1	94.2	

6.1.1.2 After Self-calibration

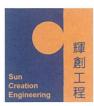
	UUT		Applied	d Value	UUT	IEC 60651	
Range	ge Parameter Frequency Time				Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting Weighting		(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	А	F	94.00	1	94.0	± 0.7

6.1.2 Linearity

	UU	Г Setting	Applie	d Value	UUT		
Range	Parameter	Frequency Time		Level	Freq.	Reading	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	
50 - 130	LAFP	A F		94.00	1	94.0 (Ref.)	
				104.00		104.0	
				114.00		113.9	

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.



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C162177 證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

	UUT Setting				d Value	UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.0	Ref.
	L _{ASP}		S			94.0	± 0.1
	L _{AIP}		Ι			94.1	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

Tone Daibe	Une Buist Orginal (2 KHZ)									
	UUT Setting				Applied Value		IEC 60651			
Range	Parameter	Frequency	Time	Level	Burst	Reading	Type 1 Spec.			
(dB)		Weighting	Weighting	(dB)	Duration	(dB)	(dB)			
30 - 110	L _{AFP}	А	F	106.0	Continuous	106.0	Ref.			
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0			
	L _{ASP}		S		Continuous		Ref.			
	L _{ASMax}				500 ms	102.0	-4.1 ± 1.0			

6.3 Frequency Weighting

6.3.1 A-Weighting

		Setting		Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{AFP}	А	F	94.00	31.5 Hz	55.1	-39.4 ± 1.5
					63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.7	-3.2 ± 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	91.0	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.8	-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.



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C162177 證書編號

6.3.2 C-Weighting

C-weighting											
	UUT	Setting		Applie	ed Value	UUT	IEC 60651				
Range	Parameter	Frequency	Time	Time	Level	Freq.	Reading	Type 1 Spec.			
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)				
50 - 130	L _{CFP}	С	F	94.00	31.5 Hz	91.5	-3.0 ± 1.5				
					63 Hz	93.4	-0.8 ± 1.5				
					125 Hz	93.9	-0.2 ± 1.0				
					250 Hz	94.1	0.0 ± 1.0				
					500 Hz	94.1	0.0 ± 1.0				
					1 kHz	94.1	Ref.				
					2 kHz	93.9	-0.2 ± 1.0				
					4 kHz	93.2	-0.8 ± 1.0				
					8 kHz	92.9	-3.0 (+1.5 ; -3.0)				
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)				

6.4

Time Averaging

	UUT Setting			Applied Value					UUT	IEC 60804
Range	Parameter	Frequency	Integrating	Frequency	Burst	Burst	Burst	Equivalent	Reading	Type 1
(dB)		Weighting	Time	(kHz)	Duration	Duty	Level	Level	(dB)	Spec.
					(ms)	Factor	(dB)	(dB)		(dB)
30 - 110	L _{Aeq}	А	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5
	10.1000 .					1/10 ²		90	89.9	± 0.5
			60 sec.	1		1/10 ³		80	79.2	± 1.0
			5 min.			1/104		70	69.2	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2812705

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

- Uncertainties of Applied Value :	94 dB : 31.5 Hz - 125 Hz 250 Hz - 500 Hz 1 kHz 2 kHz - 4 kHz 8 kHz 12.5 kHz 104 dB : 1 kHz 114 dB : 1 kHz Burst equivalent 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.

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



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 : HCKLAS 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

∟ 000552



Appendix F

Event and Action Plan



Event and Action Plan for Construction Noise

Enort		Action		
Event	ЕТ	IEC	ER	Contractor
Action Level	 Notify IEC and Contractor. Carry out investigation. Report the results of investigation to the IEC and Contractor. Discuss with the Contractor and formulate remedial measures Increase monitoring frequency to check mitigation effectiveness. 	 Review the analyzed result submitted by ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC Implement noise mitigation proposals
Limit Level	 Notify IEC, ER, EPD and Contractor, and follow other actions Identify source Repeat measurement to confirm findings Increase monitoring frequency Check Contractor's working procedures to determine possible mitigation to be implemented Inform IEC, ER and EPD the causes and actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD, ER informed of the results If exceedance stops, cease additional monitoring 	 Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly Supervise the implementation of remedial measures 	 Confirm receipt of notification of exceedances Notify Contractor Require Contractor to propose remedial measures Ensure remedial measures are properly implemented 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. 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC within 3 working days of notifications Implement the agreed proposals Revise and resubmit proposals if problem still not under control 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		
	ЕТ	IEC	ER	Contractor
Action Level				
Exceedance for one sample	 Identify source; If valid, inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor	 Rectify any unacceptable practice; Amend working methods if appropriate
Exceedance	1. Identify source;	1. Check monitoring data	1. Confirm receipt of	1. Submit proposals for
for two or more consecutive samples	 Inform IEC and EPD; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial action required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 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. 	 notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial Measure properly implemented. 	remedial action to IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
Limit Level				
Exceedance for one sample	 Identify source; Inform ER and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and the Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify sources; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops cease additional monitoring. 	 Discuss amongst ER, ET and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ET accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Appendix G

Monitoring Schedule



	DATE	AIR QUALITY	NOISE
		24-HOUR TSP	L _{eq} 30min
SUN	1-JAN-17		
Mon	2-JAN-17		
TUE	3-JAN-17		
WED	4-JAN-17		✓
THU	5-JAN-17	✓	
Fri	6-JAN-17		
SAT	7-JAN-17		
SUN	8-JAN-17		
Mon	9-Jan-17		
TUE	10-JAN-17		
WED	11-JAN-17	✓	
THU	12-JAN-17		
Fri	13-JAN-17		\checkmark
SAT	14-JAN-17		
SUN	15-JAN-17		
Mon	16-JAN-17		
TUE	17-JAN-17	✓	
WED	18-JAN-17		
Thu	19-JAN-17		\checkmark
Fri	20-JAN-17		
SAT	21-JAN-17		
SUN	22-JAN-17		
Mon	23-JAN-17	✓	
TUE	24-Jan-17		
WED	25-JAN-17		
THU	26-JAN-17		✓
Fri	27-JAN-17	✓	
SAT	28-JAN-17		
SUN	29-JAN-17		
Mon	30-JAN-17		
TUE	31-JAN-17		

Monitoring Schedule in the Reporting Period – January 2017

✓	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 _{eq} 30min
WED	1-Feb-17		
THU	2-Feb-17	✓	
Fri	3-Feb-17		\checkmark
SAT	4-Feb-17		
SUN	5-Feb-17		
Mon	6-Feb-17		
TUE	7-Feb-17		
WED	8-Feb-17	\checkmark	
THU	9-Feb-17		\checkmark
Fri	10-Feb-17		
SAT	11-Feb-17		
SUN	12-Feb-17		
Mon	13-Feb-17		
TUE	14-Feb-17	\checkmark	
WED	15-Feb-17		
THU	16-Feb-17		\checkmark
Fri	17-Feb-17		
SAT	18-Feb-17		
SUN	19-Feb-17		
Mon	20-Feb-17	✓	
TUE	21-Feb-17		
WED	22-Feb-17		
THU	23-Feb-17		✓
Fri	24-Feb-17		
SAT	25-Feb-17	✓	
SUN	26-Feb-17		
Mon	27-Fев-17		
TUE	28-Feb-17		

Monitoring Schedule for the Coming Month – February 2017

✓	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)														
	Co la	Elapsed Time Char					art Reading		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 (m ³ /min)	Air Volume (std m ³)	Initial	Final	Dust Collected (g)	TSP in Air (μg/m³)
5-Jan-17	20359	18879.36	18903.49	1447.80	36	36	36.0	21.1	1016.9	1.22	1765	2.8178	2.9513	0.1335	75
11-Jan-17	20442	18903.41	18927.60	1451.40	28	29	28.5	19.1	1018.1	1.02	1479	2.7635	2.8450	0.0815	55
17-Jan-17	20105	18927.60	18951.70	1446.00	28	28	28.0	18	1021.1	1.01	1458	2.8749	2.9933	0.1184	81
23-Jan-17	20501	18951.70	18975.80	1446.00	28	30	29.0	16.8	1025.7	1.04	1502	2.8176	2.9111	0.0935	62
27-Jan-17	20512	18975.80	18999.91	1446.60	30	30	30.0	17.5	1022.6	1.06	1539	2.8019	2.8966	0.0947	62

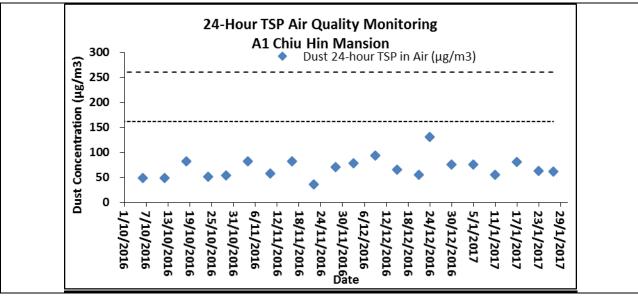


Appendix I

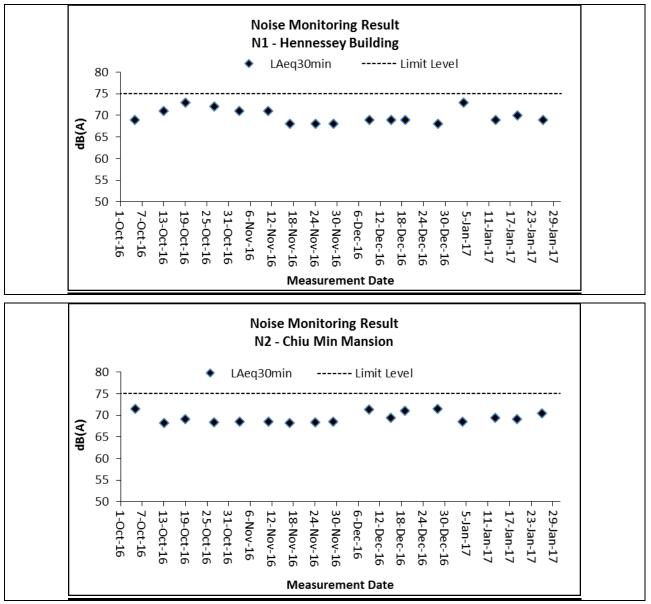
Graphical Plots



Air Quality



Construction Noise





Appendix J

Meteorological Information



		Meteorological Data downloaded from H	KO in the	Reporting	g Period		
			Total		Kings	Park Station	
Date	e	Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	
1-Jan-17	Sun	Sunny periods. Moderate easterly winds, fresh at first.	0	19.7	9	79.5	E/NE
2-Jan-17	Mon	Sunny periods. Moderate easterly winds, fresh at first.	0	19.6	8.5	82.5	E/NE
3-Jan-17	Tue	Sunny periods. Moderate easterly winds, fresh at first.	0	21.6	10.5	73.7	E/NE
4-Jan-17	Wed	Sunny periods. Moderate easterly winds, fresh at first.	0	22.1	12.5	70	E/NE
5-Jan-17	Thu	Sunny periods. Moderate easterly winds, fresh at first.	0	21.2	8.5	76.7	E/NE
6-Jan-17	Fri	Warm in the afternoon. Light to moderate easterly winds.	0	20.9	8.6	81	E/NE
7-Jan-17	Sat	Moderate east to northeasterly winds.	0	22.5	5.6	65.8	E/NE
8-Jan-17	Sun	Sunny periods. Moderate easterly winds, fresh at first.	0	22.1	14.7	69.5	W/NW
9-Jan-17	Mon	Sunny periods. Moderate easterly winds, fresh at first.	0	20.1	10	72.5	E/NE
10-Jan-17	Tue	Warm in the afternoon. Light to moderate easterly winds.	0	20.9	15.3	72.2	E/NE
11-Jan-17	Wed	Moderate east to northeasterly winds.	0	19.8	10.7	76.2	E/NE
12-Jan-17	Thu	Sunny periods. Moderate easterly winds, fresh at first.	Trace	16.5	14.5	79.7	NE
13-Jan-17	Fri	Sunny periods. Moderate easterly winds, fresh at first.	0.5	14.2	14.2	78.2	N/NE
14-Jan-17	Sat	Warm in the afternoon. Light to moderate easterly winds.	1	13.4	8.9	92.5	N/NE
15-Jan-17	Sun	Moderate east to northeasterly winds.	1.5	13.6	14	90.7	N/NE
16-Jan-17	Mon	Visibility relatively low in some areas.	0.4	15	12.6	83.7	NE
17-Jan-17	Tue	Mainly cloudy with one or two light rain patches	0	18.2	11.2	73.5	E/NE
18-Jan-17	Wed	Moderate east to northeasterly winds.	Trace	18.9	8.2	82	E/NE
19-Jan-17	Thu	Mainly fine and dry. Cool	0	19.7	9	85	E/NE
20-Jan-17	Fri	Mainly fine and dry. Cool	3.4	17.5	18.2	64	N/NE
21-Jan-17	Sat	Moderate east to northeasterly winds.	0	16.8	11.5	45.2	E/SE
22-Jan-17	Sun	Mainly fine and dry. Cool	3.4	15.3	6.4	62	E/SE
23-Jan-17	Mon	Mainly fine and dry. Cool	0	15.9	11.3	66.2	E/NE
24-Jan-17	Tue	Fine. Dry during the day. Moderate easterly winds, fresh at times tonight.	0	18	13.1	70.5	E/NE
25-Jan-17	Wed	Fine. Dry during the day. Moderate easterly winds, fresh at times tonight.	0	17.8	12.6	74.5	E/NE
26-Jan-17	Thu	Mainly fine and dry. Cool	0	16.3	11.9	70.7	E/NE
27-Jan-17	Fri	Fine. Dry during the day. Moderate easterly winds, fresh at times tonight.	0	16.8	10.5	71	E/NE
28-Jan-17	Sat	Moderate to fresh easterly winds	0.3	18.1	8.1	75.6	E/NE
29-Jan-17	Sun	Mainly cloudy with bright periods	2.4	20.4	7.5	85.9	E/NE
30-Jan-17	Mon	Moderate to fresh easterly winds	1.2	20.1	5.8	89.8	E/NE
31-Jan-17	Tue	Mainly cloudy with bright periods	0.5	17	9.4	75.5	E/NE



Appendix K

Monthly Summary Waste Flow Table

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

Monthly Summary Waste Flow Table for 2017

Name of Emp	oloyer: MTR Co	prporation Limi	ted													Contract No.:	C65931-13C			
			A	Actual Quantitie	s of Inert C&D	Materials Ge	nerated Month	ıly			Actual Quantities of Non-Inert C&D Wastes 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	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)	(in ton)	(in ton)	(in ton)	(in Litre)	(in ton)
Jan	567	0	0	0	0	0	0	0	567	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	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	0	0	0	0	0
Jul	0	0	0	0	0	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	0	0	0	0	0
Sep	0	0	0	0	0	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	0	0	0	0	0
Nov	0	0	0	0	0	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	0	0	0	0
Total	567	0	0	0	0	0	0	0	567	0	0	0	0	0	0	0	0	0	0	0



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	-		1			
S.5.1.1	<u>Use of quieter plant</u>	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance
S.5.1.1	 <u>Use of noise enclosure and movable barrier</u> movable barrier can achieve a 5 dB(A) reduction for movable PME and 10 dB(A) reduction for stationary PME; noise enclosure can achieve 15dB(A) reduction for PME; 	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93, Noise Control Ordinance and EIAO Guidance 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/m ² shall be required to achieve the maximum screening effect (and minimum 10kg/m ² 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	General Construction Noise Control Measures	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;					

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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 QUAI	LITY IMPACT	1			1	I
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;					
	• 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
	UALITY IMPACT	I	1			Γ
S.5.1.3	 <u>Construction Water Quality Impact Measures</u> Collection of wastewater into a sedimentation tank for treatment before discharge into the public drainage system; 	To reduce water quality impact induced by the construction work	Contractor	Work site	Construction Stage	ProPECC PN1/94; 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	IANAGEMENT	I			I	I
S.5.1.4	Construction Waste Management Measures	To adopt waste management measures in the way of avoiding, minimizing, reusing and recycling so as to reduce waste generation	Contractor	Work site	Construction Stage	Waste Disposal Ordinance (Cap. 354); Waste Disposal (Chemical Waste) (General) Regulation; DEVB TCW No. 6/2010; ETWB TCW No. 19/2005.
	• 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 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.							
LANDSCAPE 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;							
	 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 Screeping of construction works by heardings/points herriers around Works 							
	• Screening of construction works by hoardings/noise barriers around Works area in visually unobtrusive colors.							