

AUES PROJECT NO. TCS/00704/14

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

22nd Environmental Monitoring and Audit (EM&A) Monthly Report – June 2016

PREPARED FOR KADEN CONSTRUCTION LIMITED

Quality Index Prepared By Approved By Date Reference No. Prepared By Approved By 12 July 2016 TCS00704/14/600/R0101v2 July July Martin Li Martin Li July Assistant Environmental T.W. Tam Consultant Environmental Team Leader

Version	Date	Description
1	11 July 2016	First Submission
2	12 July 2016	Amended against IEC's comment



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By Email and Post

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

Attn.: Mr. Kenneth Chow / Environmental Engineer II

12 July 2016

Dear Sirs

Consultancy Agreement A130-13 Independent Environmental Checker for CRS and LTS LTS - Verification for 22nd Monthly Environmental Monitoring and Audit (EM&A) Report (June 2016) (Report No.: TCS00704/14/600/R0101v2)

We refer to the 22nd Monthly EM&A Report (June 2016) received under cover of the email from the Environmental Team, AUES, dated on 11 July 2016.

Further to our comments provided on 11 July 2016 and subsequent revision of the Report by AUES on 12 July 2016, we have no further comment and have verified the captioned report (Report No.: TCS00704/14/600/R0101v2).

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 22nd monthly EM&A Report presenting the monitoring results and inspection findings for the period from 1 to 30 June 2016 (hereinafter 'the Reporting Period').

SUMMARY OF ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

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

		Reporting Period		
Environmental Aspect	Environmental Monitoring Parameters / Inspection	Number of Monitoring LocationTotal Occasio		
Air Quality	24-hour TSP	1	6	
Construction Noise	L _{eq(30min)} Daytime	2	8	
Site Inspection	Weekly inspection with ET, the Contractor and RE		5	
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 **1**, **8**, **15**, **22** and **29** June 2016 and the IEC was joined the site inspection on **15** June 2016. No non-compliance but five (5) observations and two (2) reminders were recorded during the site inspection.

FUTURE KEY ISSUES

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



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



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1 INTRODUCTION

PROJECT BACKGROUND

- 1.01 **KADEN CONSTRUCTION LIMITED** (hereinafter 'KCL') has been awarded by the MTR Corporation Limited (MTRCL) the Contract No. *MTRC6593-13C – Wan Chai Station Lee Tung Street Subway* (hereinafter "the Project'), which is a Designated Project to be implemented under Environmental Permit EP-444/2012 (hereinafter referred as "the EP-444/2012" or "the EP").
- 1.02 The Project includes redevelopment of the Lee Tung Street area to improve pedestrian networking by enhancing the accessibility, connectivity and circulation of human traffic north-south from Queen's Road East area to Wan Chai MTR Station, and providing a safe and attractive means for pedestrian crossing of Johnston Road. The Project site layout plan is shown in *Appendix A* and works under the Project comprise of:
 - (i) Construction of a pedestrian subway link between Urban Renewal Authority's Redevelopment at Site H15 (the Development) and Wan Chai Station (WAC);
 - (ii) Construction of two ventilation shafts; and
 - (iii) Modification works of some of the station concourse.
- 1.03 The Project is expected to be undertaken for 36 months. In order to effectively implement the environmental protection measures as stipulated in the Particular Specification (PS), an Environmental Monitoring and Audit Plan (EMAP) which enclosed in the Project Profile (PP) was prepared to guide the setup of the environmental monitoring and audit (EM&A) programme of the Project.
- 1.04 Action-United Environmental Services and Consulting (AUES) has been commissioned by the KCL as the independent environmental team (ET) to implement the relevant EM&A programme for the Project.
- 1.05 The baseline monitoring program was carried out between 3 June 2014 and 19 June 2014 at the proposed monitoring locations by the ET according to the approved EMAP. The "Baseline Monitoring Report (R0010 Version 4)" has been verified by IEC submitted to the EPD on *15 July 2014* before commencement of major construction works. The construction of the Project was commenced on 28 August 2014 as notified by KCL. Accordingly, relevant EM&A programme was started on 28 August 2014.
- 1.06 This is 22nd monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from 1 to 30 June 2016.

REPORT STRUCTURE

1.07 This Report is structured into the following sections:-

This Report I	s subcluted 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	Approved on 14/05/2014	
	Water Pollution Control Ordinance - Discharge	License no.: WT00019539-2014	
3	License	Approved on 16/07/2014	
	License	Valid to: 31/07/2019	
4	Waste Disposal Regulation - Billing Account	Account no.: 7019837	
	for Disposal of Construction Waste	Approved on 30/04/2014	



Item	Description	License/Permit Status
5	Construction Noise Permit under Noise Control	GW-RS0164-16 obtained on 11 Mar
	Ordinance	2016
		Valid from 11 Mar 2016 to 10 Sep
		2016
		GW-RS0165-16 obtained on 14 Mar
		2016
		Valid from 14 Mar 2016 to 13 Sep
		2016
		GW-RS0530-16 obtained on 3 June
		2016
		Valid from 11 June 2016 to 10 Dec
		2016

CONSTRUCTION PROGRESS

- 2.11 The construction activities conducted in the Reporting Period are listed in below. Moreover, the master construction program is shown in *Appendix B*.
 - Construction of main beam and traffic deck, resinstatement of site area at Eastbound
 - Construction of main beam for mini piles and bulk excavation at Westbound footpath
 - Modification of steel decking platform at Children Playground
 - ABWF for external finishing at WAC Station



3 ENVIRONMENTAL IMPACT MONITORING REQUIREMENT

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

MONITORING PARAMETERS

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

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

Environmental Issue	Parameters			
Air Quality	 24-hour Total Suspended Particulate (hereinafter '24-hour TSP') 1-hour TSP monitoring (*) 			
Construction Noise	• A-weighted equivalent continuous sound pressure level (30min) (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.

<u>Air Quality</u>

- 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
Calibrator	Rion NC-73 / B&K Type 4231/ Cesva CB-5
Portable Wind Speed Indicator	Testo Anemometer

MONITORING METHODOLOGY

24-hour TSP

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

Noise

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



DERIVATION OF ACTION/LIMIT (A/L) LEVELS

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

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

Monitoring Station	Action 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(A)		

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

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

DATA MANAGEMENT AND DATA QA/QC CONTROL

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

4 MONITORING RESULTS

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

24-HOUR TSP AIR QUALITY MONITORING RESULTS

4.02 In the Reporting Period, **6** 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		
2-Jun-16	21				
8-Jun-16	27				
14-Jun-16	24				
20-Jun-16	26	162	260		
25-Jun-16	25				
30-Jun-16	18				
Average (Range)	23 (18 – 27)				

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)

Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	L _{eq30min}
7-Jun-16	16:21	68.9	69.1	69.9	70.1	71.3	69.3	70
14-Jun-16	14:05	67.5	66.4	68.9	69.3	68.2	67.2	68
21-Jun-16	10:22	65.8	68.4	65.4	69.6	68.8	68.7	68
28-Jun-16	13:58	71.0	71.0	69.4	70.8	71.9	70.4	71
Limit L Construct		75 dB(A)						

Table 4-3	Noise Monitoring Results of N2 (balcony at 1/F of Chiu Hin Mansion), dB(A)
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Date	Start Time	1st Leq5	2nd Leq5	3rd Leq5	4th Leq5	5th Leq5	6th Leq5	L _{eq30min}
7-Jun-16	15:46	73.8	74.2	71.2	72.2	73.8	74.4	73
14-Jun-16	14:55	67.7	69.0	68.5	71.2	67.8	67.5	69
21-Jun-16	13:03	71	69.8	70.1	70.5	67.7	69.9	70
28-Jun-16	13:19	71.8	71.9	72.6	71.6	72.9	71.4	72
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*.

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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)	0	-
Reused in this Contract (Inert) (m ³)	0	-
Reused in other Projects (Inert) (m ³)	0	-
Disposal as Public Fill (Inert) (m ³)	0.90981	TKO 137

Table 5-2 Summary 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)	0.001	SENT Landfill

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



6 SITE INSPECTION

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

FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- 6.02 During the Reporting Period, **Five (5)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **1**, **8**, **15**, **22** and **29 June 2016** and the IEC was joined the site inspection on **15 June 2016**.
- 6.03 No non-compliance was noted. However, five (5) observations and two (2) 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
1 June 2016	• Sedimentation tank was observed without connecting AquaSed. The Contractor was advised to treat the waste water through AquaSed before discharge.	• To be followed.
8 June 2016	• The Contractor was advised to provide proper tree protection zone for retained trees.	• Proper fencing was provided for retained trees.
15 June 2016	• The Contractor was reminded to provide sandbags on site boundary to avoid surface run-off out of site.	• Not requried for reminder
22 June 2016	• Chemical containers were observed on the ground. The Contractor was advised to place chemical containers inside drip tray to avoid leakage.	• Chemical containers were removed from site. Last observation closed.
29 June 2016	• Surface run-off from site was observed. The Contractor was advised to provide sandbags to avoid run-off out of site boundary.	• To be follow-up in next reporting month.
	• Grout mixer without proper mitigation measure was observed. The Contractor was advised to provide a proper grout mixer station on site.	
	• The Contractor was reminded to clear the construction materials from tree protection zone.	

Table 6-1Site Observations

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



7 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

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

Table 7-1 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics						
Reporting Period	Engeneration	Completing	Complaint Nature				
	Frequency	Cumulative	Air	Noise	Water	Others	
28 Aug 2014 – 31 May 2016	0	0	NA	NA	NA	NA	
1-30 June 2016	0	0	NA	NA	NA	NA	

Table 7-2 Statistical Summary of Environmental Summons

Departing Daried	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others	
28 Aug 2014 – 31 May 2016	0	0	NA	NA	NA	NA	
1-30 June 2016	0	0	NA	NA	NA	NA	

Table 7-3 Statistical Summary of Environmental Prosecution

Departing Deviad	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Air	Noise	Water	Others	
28 Aug 2014 – 31 May 2016	0	0	NA	NA	NA	NA	
1– 30 June 2016	0	0	NA	NA	NA	NA	



8 IMPLEMENTATION STATUS OF MITIGATION MEASURES

GENERAL REQUIREMENTS

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

	Table 8-1	Environmental	Mitigation	Measures
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Table 6-1	
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.



TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

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

KEY ISSUES FOR THE COMING MONTH

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



9 CONCLUSIONS AND RECOMMENDATIONS

CONCLUSION

- 9.01 This is the 22nd monthly EM&A report presenting the monitoring results and inspection findings in the Reporting Period from 1 to 30 June 2016.
- 9.02 In the Reporting Period, **6** occasions of 24-hours TSP monitoring were conducted at A1. The monitoring results are all below the Action/ Limit Level. No Notifications of Exceedances (NOEs) or the associated corrective actions were therefore issued.
- 9.03 In the Reporting Period, total of **8** occasions of noise measurement were conducted at N1 and N2 and no exceedance were recorded.
- 9.04 No environmental complaint, notification of summons or successful prosecution was received in the Reporting Period.
- 9.05 **Five (5)** occasions of weekly site inspections to evaluate site environmental performance was carried out by the RE, ET and the Contractor on **1**, **8**, **15**, **22** and **29** June 2016 and the IEC was joined the site inspection on **15** June 2016. No non-compliance was noted but five (5) observations and two (2) reminders were recorded by the ET.
- 9.06 In the Reporting Period, no site inspection was undertaken by external parties i.e. EPD.

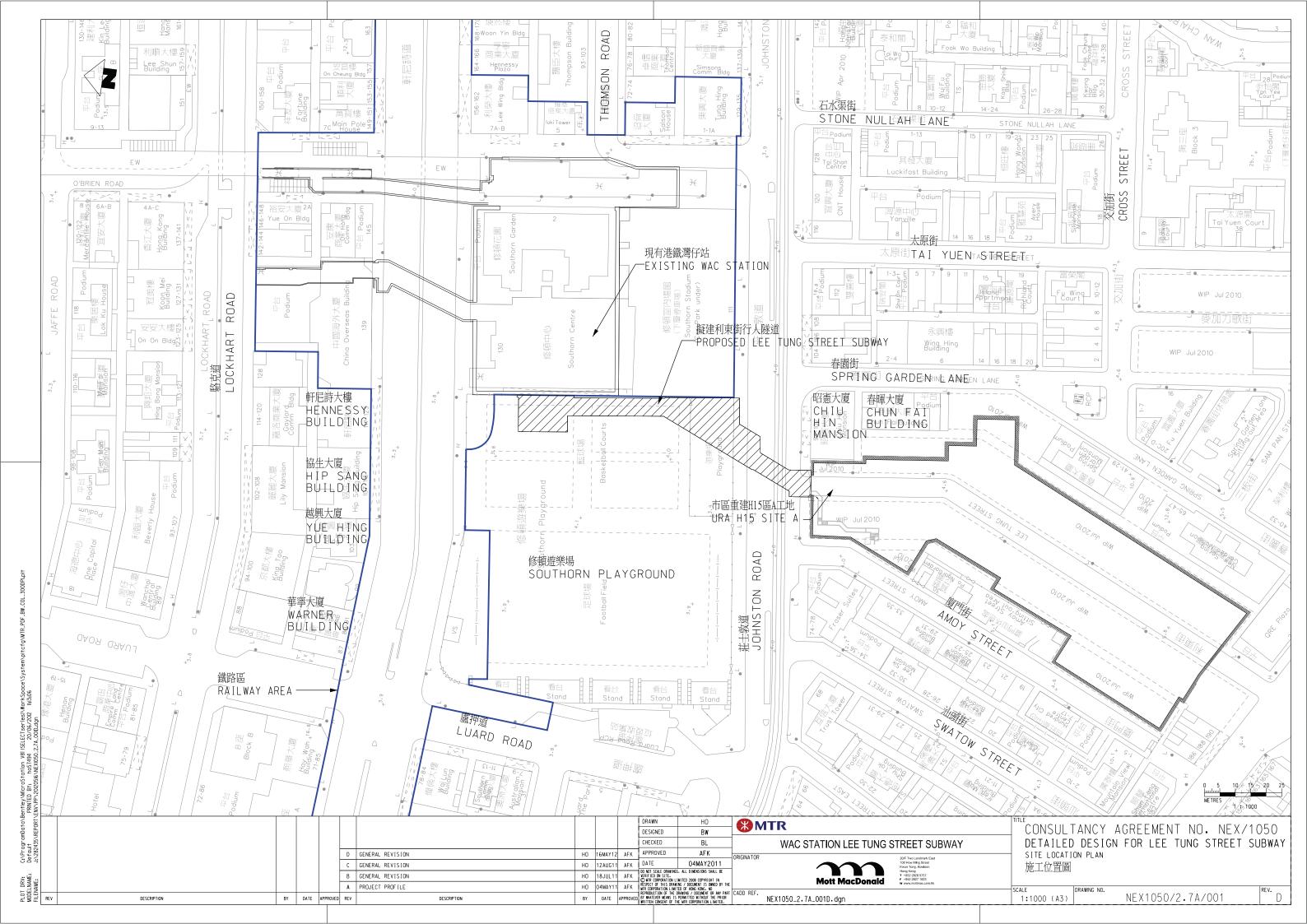
RECOMMENDATIONS

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



Appendix A

Project Site Layout Plan

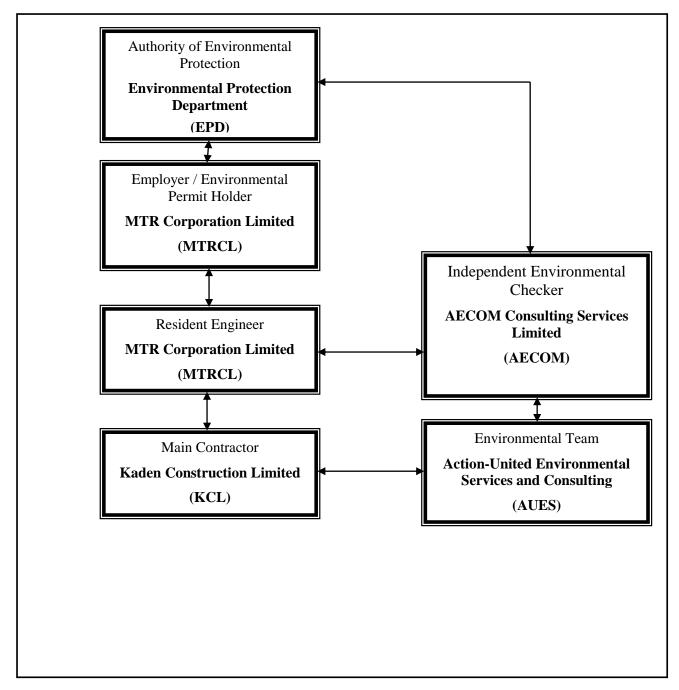




Appendix B

Organization of the Project and Master Construction Programme







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

Contact Details of Key Personnel for the Project

Legend:

MTRCL (Employer) – MTR Corporation Limited

MTRCL (Resident Engineer) – MTR Corporation Limited

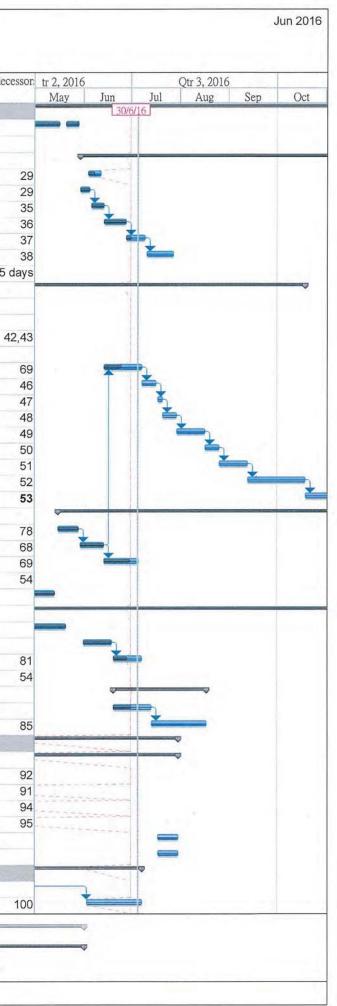
KCL (Main Contractor) – Kaden Construction Limited

AECOM (IEC) – AECOM Consulting Services Limited

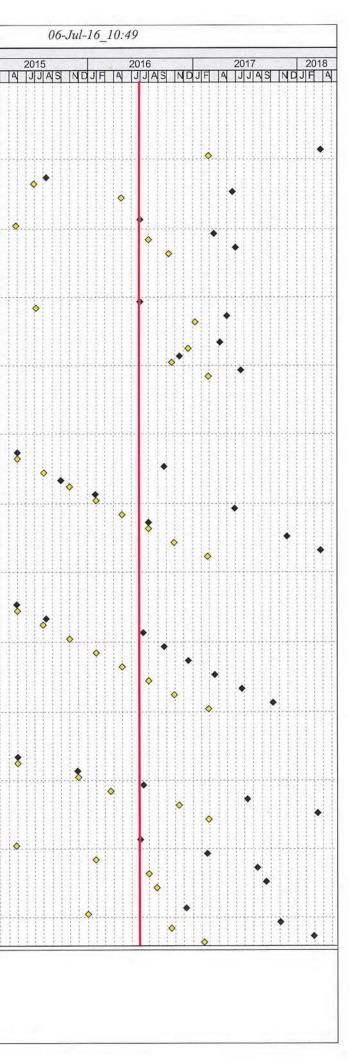
AUES (ET) – Action-United Environmental Services & Consulting

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

				O IVIC		ng Program	inte				
ID	Task Name		PMP ID	Cost Centre	Duration	Start	Finish	% Complete	Planned Start Last Month	Planned Finish Last Month	redece
1	Stage 2 ELS			and a start	486 days	Mon 13/4/15	Sat 26/11/16	76%	Mon 13/4/15	Fri 9/9/16	
20	Mini-piles at Eastbound		JnR.EBC.SS_0050	B5	150 days	Mon 23/11/15	Sat 28/5/16	100%	Mon 23/11/15	Thu 19/5/16	
30	Preparation for Phase 1 Pump Test			B6	11 days	Mon 29/2/16	Fri 11/3/16	100%	Mon 29/2/16	Fri 11/3/16	
33	Eastbound Footpath & Slow Lane				151 days	Mon 30/5/16	Sat 26/11/16	43%	Mon 30/5/16	Mon 25/7/16	_
34	Removal of temporary working platform at Stage 1		NA	B7	6 days	Sat 4/6/16	Sat 11/6/16	50%	Sat 4/6/16	Sat 11/6/16	
35	Breaking temporary concrete carriageway at slow la	ane	NA	B7	6 days	Mon 30/5/16	Sat 4/6/16	100%	Mon 30/5/16	Sat 4/6/16	
36	Excavation to existing UU formation		JnR.0050	B7	6 days	Mon 6/6/16	Mon 13/6/16	100%	Mon 6/6/16	Mon 13/6/16	1
37	Temp. UU supports		JnR.0050	B7	12 days	Tue 14/6/16	Mon 27/6/16	100%	Tue 14/6/16	Sat 18/6/16	
38	Demolish existing granite sea walls			B7	10 days	Tue 28/6/16	Sat 9/7/16	30%	NA	NA	
39	Excavation to -1.0 mPD		JnR.0050	B7	15 days	Mon 11/7/16	Wed 27/7/16	0%	Mon 20/6/16	Mon 25/7/16	1000
40	Excavation to 3rd layer W/S			B7	15 days	Thu 10/11/16	Sat 26/11/16	0%	NA	NA	-S-5 d
41	Tram Track RC Decking				452 days	Mon 13/4/15	Tue 18/10/16	45%	Mon 13/4/15	Fri 9/9/16	
42	RC cross beams		JnR.TT_0110	B5	35 days	Mon 13/4/15	Sat 23/5/15	100%	Mon 13/4/15	Sat 23/5/15	
43	Coring for grout curtain		JnR.TT_0030	B5	20 days	Wed 13/5/15	Fri 5/6/15	100%	Wed 13/5/15	Fri 5/6/15	
44	Reinstate of concrete surround to rails		JnR.TT_0120	B5	1 day	Sat 6/6/15	Sat 6/6/15	100%	Sat 6/6/15	Sat 6/6/15	42
45	Grouting for TAM pipes		JnR.TT_0030	B5	12 days	Tue 20/10/15	Tue 3/11/15	100%	Tue 20/10/15	Tue 3/11/15	
46	Excavation to +1.0 mPD underneath Trams Deck		JnR.0050	B7	20 days	Tue 14/6/16	Thu 7/7/16	50%	Tue 26/7/16	Mon 1/8/16	
47	Shotcrete and Soil Nail at +1.0 mPD		JnR.0050	B7	8 days	Fri 8/7/16	Sat 16/7/16	0%	Thu 11/8/16	Fri 19/8/16	-
48	Installation of w/s at 1st layer strut S3		JnR.0050	B7	3 days	Mon 18/7/16	Wed 20/7/16	0%	Sat 20/8/16	Tue 23/8/16	
49	Pre-grouting for Soil Nail		JnR.0050	B7	8 days	Thu 21/7/16	Fri 29/7/16	0%	Tue 2/8/16	Wed 10/8/16	1.000
50	Installation of soil nails at +1.0 mPD		JnR.0050	B7	15 days	Sat 30/7/16	Tue 16/8/16	0%	Wed 24/8/16	Fri 9/9/16	1.000
51	Excavation to -1.0 mPD		JnR.0050	B7	8 days	Wed 17/8/16	Thu 25/8/16	0%	NA	NA	1.
52	Shotcrete and Soil Nail at -1.0 mPD		JnR.0050	B7	15 days	Fri 26/8/16	Mon 12/9/16	0%	NA	NA	
53	Pipe Piles & grout curtain installation		JnR.0050	B7	28 days	Tue 13/9/16	Tue 18/10/16	0%	NA	NA	
54	Stage 2 Pumping Test		JnR.0070 to 0090		12 days	Wed 19/10/16	Tue 1/11/16	0%	NA	NA	
67	Westbound Slowlane				153 days	Mon 16/5/16	Tue 15/11/16	71%	NA	NA	
68	Temp. UU supports		JnR.0050	B7	12 days	Mon 16/5/16	Sat 28/5/16	100%	NA	NA	
69	Excavatino to +1.0 mPD		JnR.0050	B7	12 days	Mon 30/5/16	Mon 13/6/16	100%	NA	NA	-
	Excavation to -1.0 mPD		JnR.0050	B7	18 days	Tue 14/6/16	Tue 5/7/16	80%	NA	NA	
70	Excavation to 3rd layer W/S		JnR.0110	B7	12 days	Wed 2/11/16	Tue 15/11/16	0%	NA	NA	-
71			JnR.0050	B7	39 days	Thu 24/3/16	Fri 13/5/16	100%	Thu 24/3/16	Fri 13/5/16	
72	Mini-piles at Westbound Slowlane		51111.0000	Di	167 days	Wed 27/4/16	Tue 15/11/16	68%	Wed 27/4/16	Tue 7/6/16	
79	Children Playground			B7		and a second second second second		100%	Wed 27/4/16	Fri 20/5/16	
80	Trial soil nail		InD 0050		19 days	Wed 27/4/16	Fri 20/5/16	and the second		Tue 7/6/16	-
81	Excavation to +1.0 mPd		JnR.0050	B7	15 days	Wed 1/6/16	Sat 18/6/16 Thu 7/7/16	100%	Sat 21/5/16		
82	Excavation to -1.0 mPd		JnR.0050	B7	15 days	Mon 20/6/16		50%	NA	NA	1000
83	Excavation to 3rd layer W/S			B7	12 days	Wed 2/11/16	Tue 15/11/16	0%			1
	ABWF works inside New Subway			-	50 days	Mon 20/6/16	Wed 17/8/16	20%	Tue 3/5/16	Tue 7/6/16	
85	Floor screeding		ABWF.D1_0010	B9	20 days	Mon 20/6/16	Wed 13/7/16	50%	Tue 3/5/16	Tue 7/6/16	
86	Block wall construction at LV & storm room		ABWF.D1_0020	B9	30 days	Thu 14/7/16	Wed 17/8/16	0%	NA	NA	No.
	Existing Wan Chai Station (Require work in NTH)	The second second second	Mapping the second		178 days	Mon 21/12/15	Sat 30/7/16	81%		Fri 15/4/16	1
88	New Audit Room				178 days	Mon 21/12/15	Sat 30/7/16	81%	Mon 21/12/15	Fri 15/4/16	
93	Installation and divert E&M Service		WWW.AFC_0030	D1	39 days	Fri 26/2/16	Fri 15/4/16	100%	Fri 26/2/16	Fri 15/4/16	
94	ABWF Works		WWW.AFC_0030	D1	26 days	Mon 22/2/16	Tue 22/3/16	80%	Mon 22/2/16	Tue 22/3/16	
95	Removal of Hoarding		WWW.AFC_0030	D1	3 days	Wed 23/3/16	Tue 29/3/16	80%	Wed 23/3/16	Tue 29/3/16	
96	Reinstatement Works		WWW.AFC_0030	D1	11 days	Wed 30/3/16	Tue 12/4/16	80%	Wed 30/3/16	Tue 12/4/16	
97	False Ceiling - inside AFC Room			D1	12 days	Mon 18/7/16	Sat 30/7/16	0%	NA	NA	
98	VE panel at external face			D1	12 days	Mon 18/7/16	Sat 30/7/16	0%	NA	NA	
99	Design			1013	99 days	Sat 5/3/16	Thu 7/7/16	50%	Sat 5/3/16	Mon 11/4/16	
100	ELS Stage 2 - BD/GEO comments on 5 Mar 16		NA	A1	28 days	Sat 5/3/16	Mon 11/4/16	100%	Sat 5/3/16	Mon 11/4/16	
101	ELS Stage 2 - BD/GEO comments in early Jun 16		NA	NA	28 days	Fri 3/6/16	Thu 7/7/16	0%	NA	NA	
		Task	Sum	mary	φ		Rolled Up Progres			Project Summary	Q
					-						
		Progress		ed Up Ta			Split			Group By Summary	y 🗢
		Milestone 🛛 🔍		1222 222	ilestone 🗇		External Tasks		the second se	Deadline	Ð



ity ID	Activity Name	Original Duration		Finish	BL Project Start	BL Project Finish	Total Float	Free Float	14	
ALCONG A CALLER		Duration		1	otart	1 111311	Tioat	J	JAS	N
Statement of the second s	TS MP Rev.C _BL_Report (Jun'16)									
Key Dates									11 F	112
Commencement KD.COMM	Completion Commencement of the Works (14-Apr'14)	0	14-Apr-14 A		14-Apr-14	1				H
KD.COMP	Completion of the Whole of the Works, No.Cal.Wk. 150 (26-Feb'17)	0	the second	23-Mar-18*		25-Feb-17	-390	0		111
Specified Parts of			1.	The mar re		1		-		1
KD.2A	2A - SBC Complete backfill, resurfacing, fencing, utilities, lighting and return to LCSD (28-Jun'15)	0		11-Aug-15 A		27-Jun-15				117
KD.2B	2B - Complete all works at the 2 new Shop Kiosks and hand over to the Employer (1-May'16)	0		19-May-17*		27-Apr-16	-383	308		117
	/ Interface Key Dates									111
INF.AFC	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC, Concourse Level (27-Apr'15)	0	30-Jun-16*		27-Apr-15		242	632		
INF.H15	Interface Access for Contract H15, All Levels, No.Cal.Wk. 120 (31-Jul'16)	0	15-Mar-17*		31-Jul-16		-16	374		
INF.SAMS	Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct'16)	0	30-May-17*		10-Oct-16		-92	298		117
Site Area Posses	sion and Return Dates									11
Site Area Possess										117
WAP.W1	Works Area 6593.W1, Within 3 months from commencement of works (14-Jul'14)	0	14-Jul-14 A		14-Jul-14				8	1.1.1
WAP.W2	Works Area 6593.W2, Within 9 months from commencement of works (14-Jan'15)		30-Jun-16*		07-Jul-15		242	632		1.1
WAP.W3	Works Area 6593.W3, No later than 1 month after completion of resinstatement works at Works Area 65	0	02-May-17		10-Jan-17		-112	0	111	112
Site Area Return D				07 4 171	1	10 Dec 10	440	0	1 F	11
WAR.W1	Works Area 6593.W1, Within 36 months from commencement of works (14-Apr'17)	0		07-Apr-17*	-	16-Dec-16	-112	400		1 F
WAR.W2	Works Area 6593.W2, Within 36 months from commencement of works (14-Apr'17)	0		17-Nov-16*		21-Oct-16	-112	492 278		1-1-
WAR.W3	Works Area 6593.W3, Within 2 months after possession date of Works Area 6593.W3	0		18-Jun-17		26-Feb-17	-112	2/8		11
Milestone Sched	ule								H	11
Milestones A	Ad Assessed of Declining Master Decrement ICE, TTA, ELC, & Temporou docking (2 Aug/14)	0		21-Oct-14 A	1	02-Aug-14			11	٠
MS.A01	A1 Approval of Preliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Aug'14)	0		01-Nov-14 A	-	01-Nov-14			\$	
MS.A02	A2 Approval of Design of Mined Tunnel ESS; Hoarding phase/plan;TW under TramTrack; QP, SAP, PMP A3 Satisfactory Implementation of Specified Plans (25-Jan'15)	0		24-Jan-15 A	-	24-Jan-15				0
MS.A03	A4 Approval of excavation method under Tram Track; Satisfactory Implementation of PMS (3-May'15)	0		02-May-15 A		02-May-15				
MS.A04 MS.A05	A5 Approval of WAC D-wall demolition; Satisfactory Implementation of Specified Plans (2-Aug'15)	0		23-Sep-16		01-Aug-15	156	546	111	11
MS.A05	A6 Satisfactory Implementation of PMS (1-Nov'15)	0		30-Sep-15 A		31-Oct-15	100	010	11.	11
MS.A06	A7 Satisfactory Implementation of Specified Plans (31-Jan'16)	0		30-Jan-16 A	-	30-Jan-16				11
MS.A07	A8 AIP for T&C of BS and ABWF works; Satisfactory Implementation of PMS (1-May'16)	0		29-May-17		30-Apr-16	-92	298		11
MS.A08	A9 Satisfactory Implementation of Specified Plans (31-Jul'16)	0		30-Jul-16		30-Jul-16	211	601	11	11
MS.A05	A10 AIP of Draft O&M manual and Draft As-built Drawings; Satisfactory Implementation of PMS (30-Oct'	0		25-Nov-17		29-Oct-16	-272	118	11	11
MS.A11	A11 Approval of O&M manual and As-built drawings for the Works (26-Feb'17)	0		23-Mar-18		22-Feb-17	-390	0		11
Milestones B				1						11
MS.B01	B1 Excavate to +2.5 of Southern Basketball Court & Children's Play Area - Cofferdam construction comp	0		01-Nov-14 A		01-Nov-14				\$
MS.B02	B2 SBC Excavation satisfactorily completed & Children's Play Area Excavation has reached -1.3mPD (2!	0		24-Jan-15 A		24-Jan-15	_		121	
MS.B03	B3 SBC Roof slab RC, JnR NFP & EBC 67% cofferdam Tram Track support 10%, JnR WBC UU diversit	0		29-Apr-15 A		02-May-15			111	11
MS.B04	B4 SBC return, NBC Site entry formed, CPA RC base slab, JnR NFP & EBC Cofferdam & traffic decks c	0		11-Aug-15 A		31-Jul-15			11	81
MS.B05	B5 NBC cofferdam complete, CPA RC & vent shaft 1.2m above ground complete, Tram Tracks Excavati	0		11-Jul-16		31-Oct-15	230	620		11
MS.B06	B6 NBC Excavation to formation complete, JnR All Carriageways & Footpaths & Tram Tracks Excavation	0		23-Sep-16		30-Jan-16	156	546		11
MS.B07	B7 NBC RC roof slab complete, JnR CW & FP & TT RC construction except temp opening, CPA RC con	0		17-Dec-16		30-Apr-16	71	461	11	11
MS.B08	B8 ABWF Degree 1 achieved, NBC All reinstatement complete, Opening through H15 D-wall formed (31-	0		18-Mar-17		30-Jul-16	-20	370		11
MS.B09	B9 ABWF Degree 3 achieved, All road reinstatement in Johnston Road & Hennessy Road complete (30-(0		22-Jun-17		27-Oct-16	-116	274		11
MS.B10	B10 All works in Cost Centre B satisfactorily completed (26-Feb'17)	0		09-Oct-17		25-Feb-17	-225	165		11
Milestones C										11
MS.C01	C1 AIP BS detail design, suppliers & model types of major BS equipment & materials (2-Nov'14)	0		01-Nov-14 A		01-Nov-14				\$
MS.C02	C2 AIP BS shop drawings (25-Jan'15)	0		23-Jan-15 A		23-Jan-15				11
MS.C03	C3 Order all BS equiptment and materials (3-May'15)	0		02-May-15 A		02-May-15				11
MS.C04	C4 Complete all factory acceptence testings (29-Nov'15)	0		28-Nov-15 A	_	28-Nov-15				1.
MS.C05	C5 Complete all delivery to site for ECS plant room (31-Jul'16)	0		11-Jul-16		19-Mar-16	230	620		
MS.C06	C6 Complete all installation, T&C for New Subway (4-Dec'16)	0		11-Jul-17		14-Nov-16	-135	255		11
MS.C07	C7 Complete and pass all statutory inspections, Operations Team (26-Feb'17)	0		13-Mar-18	1	25-Feb-17	-380	10		11
Milestones D		1 0		20 http://		05 Ann 15	242	444		11
MS.D01	D1 New AFC Audit Room construction completed, including (3-May'15)	0		30-Jun-16		25-Apr-15	242	441	h	++
MS.D02	D2 Old AFC Audit Room and Maxim's/ Circle K kiosks demolished (31-Jan'16)	0	1	20-Feb-17		28-Jan-16	-171	205		11
MS.D03	D3 Breakthrought into WAC (31-Jul'16)	0		16-Aug-17		30-Jul-16	-171 -199	191		11
MS.D04	D4 All works in Cost Centre D satisfactorily completed (28-Aug'16)	0		13-Sep-17		27-Aug-16	-199	191		11
Milestones E MS.E01	E1-AFC gates and barrier relocation works completed (3-Jan'16)	0		09-Dec-16	-	02-Jan-16	79	469		11
MS.E01	E2- All structural A&A works for TIM completed (30-Oct'16)	0		02-Nov-17		17-Oct-16	-249	141	rti	
MS.E02	E3- All works in milestone E completed (26-Feb'17)	0		26-Feb-18		09-Feb-17	-365	25		11
MO.LUO			1	here allow a second second		Interest statements				
Actual Level of E	ffort Gaseline Milestone Contract C6593-130	C Wan	Chai Sta	ation Lee	Fung Str	eet Subw	ay			
Primary Baseline				m (Rev.C)			1.000			
Actual Work		masie	riugia	m (nev.e)						
		ress vs]								



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: Preliminari	es and General Items																
Cost Centre A- N	Ailestone Schedules																HBI
A1 Approval of Pi A01 0010	eliminary Master Program, ICE, TTA, ELS & Temporay decking (3-Aug'14) Approval of Preliminary Master Program (3-Aug'14)	0	21-Oct-14 A	-	02-Aug-14				\mathbf{t}	111	1111		TIT		11111		1-1-1-1-1
A01_0010	Approval of Preliminary Master Program (3-Aug 14)	0	01-Aug-14 A		01-Aug-14					111					$\{1 1\}$		
A01 0030	Approval of Independent Checking Engineer (3-Aug'14)	0	01-Aug-14 A		01-Aug-14			• 1 1 1	1111	111					1111		11127
A01 0040	Approval of the TTM Scheme by the Relevant Authorities (3-Aug'14)	0	27-Jun-14 A		27-Jun-14		8	T I I I	11111	111	[+]			HHE		ELLE I	
A01 0050	Approval for the design of ELS systems for cofferdams & temporary decking (3-Aug'14)	0	03-Mar-15 A		01-Aug-14			•	•	111	1111	<u>11111</u>	11		1111		
	gn of Mined Tunnel ESS; Hoarding phase/plan; QP, SAP, PMP, H&SP, EMP (2-Nov'14)									111	FIT			HHH	1111		
A02_0010	Approval for the design of excavation support systems of the mined tunnel section (2-Nov'14)	0	16-Jan-15 A		01-Nov-14			♦	•	1.11	1117						
A02_0020	Approval of all phasing plans & hoarding arrangements (2-Nov'14)	0	28-Oct-14 A		28-Oct-14			8	[[[]]	111	1111				1117		
A02_0030	Approval of all method statements for Part B works (2-Nov'14)	0	30-Oct-14 A		30-Oct-14			, Š		114	1111				1111/	11111	1111
A02_0040	Engineer's confirmation of satisfactory implementation of Quality Plan (2-Nov'14)	0	01-Nov-14 A		01-Nov-14					4.4.4.	<u></u>						
A02_0050	Engineer's confirmation of satisfactory implementation of System Assurance Plan (2-Nov'14)	0	01-Nov-14 A		01-Nov-14				11111	111						11111	
A02_0060	Engineer's confirmation of satisfactory implementation of Programming Management System (2-Nov'14)	0	01-Nov-14 A	_	01-Nov-14					111					1111		1111
A02_0070	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (2-Nov'14)	0	01-Nov-14 A		01-Nov-14			X		111							1111
A02_0080	Engineer's confirmation of satisfactory implementation of Environmental Management Plan (2-Nov'14)	0	01-Nov-14 A		01-Nov-14			X	$\{+1\}$	111							
Statistics were and the statistic statistics and the	pplementation of Specified Plans (25-Jan'15)	0	04 1 45 4		04 Jan 15					+++++	++++++		++	++++++	1-1-1-1		1111
A03_0010	Engineer's confirmation of satisfactory implementation of System Assurance Plan (25-Jan'15)	0	24-Jan-15 A		24-Jan-15 24-Jan-15				-	111	1111			HILF		1111	
A03_0020	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (25-Jan'15)	0	24-Jan-15 A 24-Jan-15 A	_	24-Jan-15 24-Jan-15					111				HILL	(1)		
A03_0030	Engineer's confirmation of satisfactory implementation of Quality Plan (25-Jan'15) Engineer's confirmation of satisfactory implementation of Environmental Management Plan (25-Jan'15)	0	24-Jan-15 A		24-Jan-15					111					1117	1111	日日
403_0040	cavation method under Tram Track; Satisfactory Implementation of PMS (3-May'15)	U	24-541-15 A		24-541-15	-	-		\$	111			11		11117	11111	1111
A04 0010	Approval for method of excavation & support for mined tunnel section beneath tram tracks (3-May'15)	0	21-Apr-15 A		02-May-15	-	Ť	htt		\$	1111		deleter.		1-1-1		
A04_0020	Engineer's confirmation of satisfactory implementation of Programming Management System (3-May'15)	0	02-May-15 A		02-May-15				1111	¥ 1	1111		44	1 THE		11111	
	AC D-wall demolition; Satisfactory Implementation of Specified Plans (2-Aug'15)		Ten men roux						1111	Y III			14		11117	11111	
A05 0010	Approval for method for demolition of WAC Diaphragm Wall (2-Aug'15)	0	21-Jul-15 A		01-Aug-15						•		331		1111	11111	
A05 0020	Engineer's confirmation of satisfactory implementation of Specified Plans (2-Aug'15)	0	30-Sep-15 A		01-Aug-15					111.	+			LI II.			
6 Satisfactory In	plementation of PMS (1-Nov'15)	2			an electronic de la constante				11111	111							
A06_0010	Engineer's confirmation of satisfactory implementation of Programming Management System (1-Nov'15)	0	30-Sep-15 A	1	31-Oct-15				1111	111	•			HHL			
7 Satisfactory In A07_0010	Engineer's confirmation of satisfactory implementation of Specified Plans (31-Jan'16)	0	30-Jan-16 A		30-Jan-16					111		*		HILL			
	BS and ABWF works; Satisfactory Implementation of PMS (1-May'16)							1.1.1.1	11111	111	LHE		11	1111			
A08 0010	Engineer's confirmation of satisfactory implementation of Programming Management System (1-May'16)	0	03-Mar-16 A		30-Apr-16		ŧ	1111		111		•	0		1111	11111	
A08 0020	Approval in principle of all procedures for Testing & Commissioning of all Building Services (1-May'16)	0	29-May-17		27-Apr-16	-92	0			111			0	1111	1111	•	1111
A08_0030	Approval in principle of all acceptance procedures of all of the ABWF works (1-May'16)	0	29-May-17		27-Apr-16	-92	0		1111	111	1111		0			•	
	nplementation of Specified Plans (31-Jul'16)		00 1 1 10		20 1-1 40	011	0		1111	111	HH		1	1111	111		
A09_0010	Engineer's confirmation of satisfactory implementation of System Assurance Plan (31-Jul'16)	0	30-Jul-16	_	30-Jul-16	211	0	+ + + + + + + + + + + + + + + + + + +		+++-	$\left\{ + + + + + + + + + + + + + + + + + + +$	<u></u> }- <u> -</u> - <u> -</u> -	+-+	8	+++++++++++++++++++++++++++++++++++++++		
A09_0020	Engineer's confirmation of satisfactory implementation of Health & Safety Plan (31-Jul'16)	0	30-Jul-16	-	30-Jul-16	211	0		11111	111	LITE.		111	2	HIF	11111	1111
A09_0030	Engineer's confirmation of satisfactory implementation of Quality Plan (31-Jul'16)	0	30-Jul-16		30-Jul-16	211	0			111		HHE		`	1111		
A09_0040	Engineer's confirmation of satisfactory implementation of Environmental Management Plan (31-Jul'16)	0	30-Jul-16		30-Jul-16	211	0	ET E	1111	111	1111	11111			1111	11111	
	/I manual & Draft As-built Drawings; Satisfactory Implementation of PMS (30-Oct'16)	0	29-Oct-16		29-Oct-16	120	392		1111	111				8	1111		
A10_0010	Engineer's confirmation of satisfactory implementation of Programming Management System (30-Oct'16)	0	25-Nov-17	-	23-Oct-16	-272	0	+++	++++	+++	1111			网络白色 网络		111111	•
A10_0020	Approval in principle of draft Operating & Maintenance Manuals for the Whole Works (30-Oct'16)	0	25-Nov-17		27-Oct-16	-272	0	EEEE	1111	111				\$	111C	1 H H	
A10_0030	Approval in principle of draft As-built Drawings for the Whole Works (30-Oct'16) 0&M manual and As-built drawings for the Works (26-Feb'17)	U	23-1404-17		21-001-10	LIL		1111	1111	111	1111				1111	11111	{
A11 0010	Approval of Operating & Maintenance Manual for Whole Works (26-Feb'17)	0	23-Mar-18		22-Feb-17	-390	0			111	1111		11	HHT	0	11111	
A11 0020	Approval of As-built drawings for Whole Works (26-Feb'17)	0	23-Mar-18		22-Feb-17	-390	0			111	1111						
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	nission and Approval									111	1411				1111	11111	1111
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D.I.T_0010	TTMS - Submission to Members of TMLG for Approval, ref. ITT 6.2	4 14-Apr-1	4 A 17-Apr-14 A	strength of the second	17-Apr-14			111	HE	111	1111			HH	111P	HIH	HE
D.I.T_0020	TTMS - TMLG Meetings and Approval, Resubmission if required, RMO Applicataions	55 22-Apr-1	4 A 27-Jun-14 A	22-Apr-14	27-Jun-14						<u>i i i i</u>	11111	11.	11111			111
	Submission and Approval	The state of the second second													HIL		111.
D.I.T_0030	A1 - ELS & Temporary Decking - Design, ICE, Submission to BD for Approval	30 14-Apr-1	and the second se	and a second	23-May-14					111	1111	$\{1,1\}$		THE	1111	1111	
D.I.T_0040	A1 - ELS & Temporary Decking - Review the submission	30 12-Aug-1	state and state	24-May-14					1111	111	1111	$\{1\}$	11	I H H H	1111	11111	
D.I.T_0050	A1 - ELS & Temporary Decking - Preparation of re-submission (If Require)	14 17-Sep-1		30-Jun-14							1111			11111	HII	11 H	
D.I.T_0060	A1 - ELS & Temporary Decking - BD Review, Resubmission if required, and Approval (If Require)	14 24-Sep-1	And a second secon	17-Jul-14	and which is sufficient to be sufficient	-		history			+	$\left\{ \cdot \right\} \cdot \left\{ \cdot$		++++ ++++	++++	+	
D.I.T_0070	A1 - ELS - Verification (based on 4 additinal SI. AD-01 to AD-04), ICE	17 29-Jul-14	and the second	and the second s	16-Aug-14					111	1111						
D.I.T_0080	A1 - ELS - Verification (based on 4 additinal SI. AD-01 to AD-04), ICE, Submission & Approval	24 18-Aug-1	and the second	18-Aug-14]								1111	HHH	
D.I.T_0090	Independent Checking Engineer - Preparation & Submission for Approval	30 14-Apr-1		14-Apr-14	and the second sec			1111			1111	1111		1111	1111	1111	
D.I.T_0100	Independent Checking Engineer - Review the submission	30 24-May- 14 30-Jun-1	NAME OF TAXABLE PARTY OF TAXABLE PARTY	24-May-14 30-Jun-14	and the second sec			1111		111	1111	1111		1111	1111	1111	
D.I.T_0110	Independent Checking Engineer - Preparation of re-submission (If Require)	14 30-Jun-1	4 A 16-Jul-14 A	30-Jun-14	10-Jui-14		P	9.1.1.1	1111	111	1.3 6.1	21211	1.1	11111	4.4.1.4.	3 8 1 1 1 1	1.1.1
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Primary Baseline				-	erenterente V (BEG) et al 14												
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		Duration		Start	Finish	Float	Float 01			2015 A JJJAS N		2016 LJUIAIS INF		DIT	
D.I.T_0120	Independent Checking Engineer - Resubmission if required, & Approval (If Require)	14 17-Jul-14 A	01-Aug-14 A	17-Jul-14	01-Aug-14										1-1-1
D.I.T_0130	A2 - Excavation support system for the mined tunnel section design - Prepare, ICE and submission to B	104 14-Apr-14 A	05-Dec-14 A	14-Apr-14	20-Aug-14					1111111			111117		111
D.I.T_0140	A2 - Excavation support system for the mined tunnel section design - Review submission	24 06-Dec-14 A	23-Dec-14 A	21-Aug-14	18-Sep-14		1	=		1111111			11111	8111	111
D.I.T_0150	A2 - Excavation support system for the mined tunnel section design - Address comments, ICE & Resubr	12 24-Dec-14 A	03-Jan-15 A	19-Sep-14	04-Oct-14			-					111111		111
D.I.T_0160	A2 - Excavation support system for the mined tunnel section design - Review & Approval (if required)	24 05-Jan-15 A	01-Feb-15 A	06-Oct-14	01-Nov-14		1				1.1.1.1.1.1.1				111
D.I.T_0170	A4 - Excavation method under tram track and TW design - Prepare, ICE and submission to BD/ GEO for	55 14-Apr-14 A	05-Dec-14 A	03-Nov-14											133
D.I.T_0180	A4 - Excavation method under tram track and TW design - Review submission	30 06-Dec-14 A	23-Dec-14 A	09-Jan-15					•						101
D.I.T_0190	A4 - Excavation method under tram track and TW design - Address comments, ICE & Resubmission (if	30 24-Dec-14 A	and the second state of th	13-Feb-15	and the second se				-				111111	(1111)	111
D.I.T_0200	A4 - Excavation method under tram track and TW design - Review & Approval (if required)	30 05-Jan-15 A	21-Apr-15 A	24-Mar-15	02-May-15				1111	411111					
Contractor Submiss							-					parte la la de des	4-		14
Programming, Spe P.SP.H 0010	cified Plans and Hoarding Plan Submission schedule - Preparation & submission	30 14-Apr-14 A	14-May-14 A	14-Apr-14	23-May-14				1111	111111			1111111		
P.SP.H 0020	Submission schedule - Review & Approval	30 15-May-14 A		24-May-14	the second s				1144				HHH		
P.SP.H 0030	Submission schedule - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14					11111	1111117			111111		111
P.SP.H 0040	Submission schedule - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	and the second design of the s		. i	1111	11111			11111	111111		11
P.SP.H 0050	Initial Three Month Rolling Program - Preparation & submission	14 14-Apr-14 A	28-Apr-14 A	14-Apr-14			1	- tritte					111111	rttt	
P.SP.H 0060	Initial Three Month Rolling Program - Review & Approval	30 29-Apr-14 A	28-May-14 A	05-May-14	and the second sec					1111111			111111		
P.SP.H 0070	Initial Three Month Rolling Program - Preparation for Re-submission (If Require)	14 29-May-14 A	and the second sec	11-Jun-14	I manufacture in the second se		L								11
P.SP.H 0080	Initial Three Month Rolling Program - Review and Approval (If Require)	14 13-Jun-14 A		27-Jun-14	1										
P.SP.H 0090	Preliminary Master Program - Preparation & submission	47 14-Apr-14 A	20-Jun-14 A	14-Apr-14			1							1111	11
P.SP.H 0100	Preliminary Master Program - Review & Approval	14 21-Jun-14 A	19-Jul-14 A	14-Jun-14	the second party and the second second second party of the second				hitt	11111111	rinni	THIT	TITTI	1111	TT
P.SP.H 0110	Preliminary Master Program - Preparation for Re-submission (If Require)	14 16-Sep-14 A	and the second states and the second states of the	and the second sec	17-Jul-14				1111	1111111	111111	11111	HHH	1111	11
P.SP.H_0120	Preliminary Master Program - Review and Approval (If Require)	14 30-Sep-14 A	22-Oct-14 A		02-Aug-14						111111		111111		
P.SP.H 0130	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation & submission	30 14-Apr-14 A	23-May-14 A	14-Apr-14	-										
P.SP.H 0140	Specified Plans (QP, SAP, PMS, H&SP, EP) - Review & Approval	14 24-May-14 A		24-May-14	and the second s								111111		11
P.SP.H 0150	Specified Plans (QP, SAP, PMS, H&SP, EP) - Preparation for Re-submission (If Require)	14 11-Jun-14 A	26-Jun-14 A	11-Jun-14						1111111	rtiitti	ATTTT	111111		11
P.SP.H 0160	Specified Plans (QP, SAP, PMS, H&SP, EP) - Review and Approval (If Require)	30 24-Jun-14 A	01-Aug-14 A	27-Jun-14			É	1158			111111			4111	14
P.SP.H 0170	Environmental management plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A	14-Apr-14							11111		11111		
P.SP.H 0180	Environmental management plan - Review & Approval	30 15-May-14 A	the support of the support of the support of the support	24-May-14	and the second sec						(11111)		1111111		11
P.SP.H 0190	Environmental management plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14				111		1111111	61.13.814		HHH		
P.SP.H 0200	Environmental management plan - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14			۵,	111	rinin	Intritit	rititi	Thirr	111111	rttir	1T
P.SP.H 0210	Appoint Environmental team- submit for engineer approval	30 14-Apr-14 A	23-May-14 A	14-Apr-14	and the second sec					1111111	813111		HELL	/1111	11
P.SP.H 0220	Appoint Environmental team - Review & Approval	30 27-Jun-14 A	11-Jul-14 A	24-May-14	the spectrum of the local data was a second se			111		11414417	[[]]]]]]]		131111	1111	1313
P.SP.H 0230	Appoint Environmental team - Preparation for Re-submission (If Require)	14 14-Apr-14 A	14-May-14 A	30-Jun-14							anan			.1111	扫
P.SP.H 0240	Appoint Environmental team - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	the second s		.			1111111	6141114		11111		11
P.SP.H 0250	Quality Plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A	14-Apr-14	and the state of t			TIT		THITH			111111		11
P.SP.H 0260	Quality Plan - Review & Approval	30 15-May-14 A	the second s	24-May-14	the second s		L			LE DA D	111111				
P.SP.H 0270	Quality Plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14							611111		111111		
P.SP.H 0280	Quality Plan - Review and Approval (If Require)	14 17-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14						(11111)		111111	.1111/	11
P.SP.H_0290	Health and Safety Plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A	14-Apr-14	a second and the second se								HIIII		11
P.SP.H 0300	Health and Safety Plan - Review & Approval	30 15-May-14 A	12-Jun-14 A	24-May-14			L				CHITTH	11111	1111111		11
P.SP.H 0310	Health and Safety Plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14							(111111)				11.
P.SP.H_0320	Health and Safety Plan - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14						611111		111111		11
P.SP.H_0330	System Assurance Plan - Preparation & submission	30 14-Apr-14 A	14-May-14 A	14-Apr-14	23-May-14						111111		1111111	.1111	11
P.SP.H 0340	System Assurance Plan - Review & Approval	30 15-May-14 A	12-Jun-14 A	24-May-14			L							1111	11
P.SP.H_0350	System Assurance Plan - Preparation for Re-submission (If Require)	14 13-Jun-14 A	26-Jun-14 A	30-Jun-14	and the second se					TITTIT	ETTTT	A THEFT	TITLE	THT	TT
P.SP.H_0360	System Assurance Plan - Review and Approval (If Require)	14 27-Jun-14 A	11-Jul-14 A	17-Jul-14	and the second sec		μ.				anu i	1111		1111	11
P.SP.H_0370	A2 Hoarding phase - Preparation & submission	100 14-Apr-14 A	30-Apr-14 A	14-Apr-14	the second se		1	-			AHHI		10111		11
P.SP.H_0380	A2 Hoarding phase - Review & Approval	24 02-May-14 A		16-Aug-14				-					HHHH		11
P.SP.H_0390	A2 Hoarding phase - Preparation for Re-submission (If Require)	12 31-May-14 A	and the second se	15-Sep-14	the second state of the second state of the later of the second state of the second st			-							11
P.SP.H_0400	A2 Hoarding phase - Review and Approval (If Require)	24 16-Jun-14 A	- I Contraction and a second sec	29-Sep-14	and an operation of the state o		E.	-					HITTH		11
Implemantation of	Specified Plans				12.25							11111	111111	1111	11
SP.A02_0010	A2 Satisfactory Implementation of Quality Plan	0	01-Nov-14 A		01-Nov-14			8						1111	11
SP.A03_0010	A3 Satisfactory Implementation of System Assurance Plan	0	01-Nov-14 A		01-Nov-14			\$					111111		11
SP.A03_0020	A3 Satisfactory Implementation of Health and Safety Plan	0	01-Nov-14 A		01-Nov-14			8						11.1.1	11.
SP.A03_0030	A3 Satisfactory Implementation of Environmental Management Plan	0	01-Nov-14 A		01-Nov-14			8					111111		11
SP.A03_0040	A3 Satisfactory Implementation of Quality Plan	0	24-Jan-15 A		24-Jan-15				8				HHH	1111	11
SP.A03_0050	A3 Satisfactory Implementation of System Assurance Plan	0	24-Jan-15 A		24-Jan-15				8			1 Hit			11
SP.A03_0060	A3 Satisfactory Implementation of Health and Safety Plan	0	24-Jan-15 A	·	24-Jan-15				8			HHH.		1111	11
SP.A03_0070	A3 Satisfactory Implementation of Environmental Management Plan	0	24-Jan-15 A		24-Jan-15				8	111111	4444			4.1.1.1.	1.1.
SP.A05_0010	A5 Satisfactory Implementation of Quality Plan	0	01-Aug-15 A		01-Aug-15					\$					11
SP.A05_0020	A5 Satisfactory Implementation of System Assurance Plan	0	01-Aug-15 A		01-Aug-15		1	111	1111	<u> \$ </u>			11111	4111	11
 Actual Level of Effo Primary Baseline 				-	eet Subw	ay									
Actual Work		Master Progra	m (nev.c)												

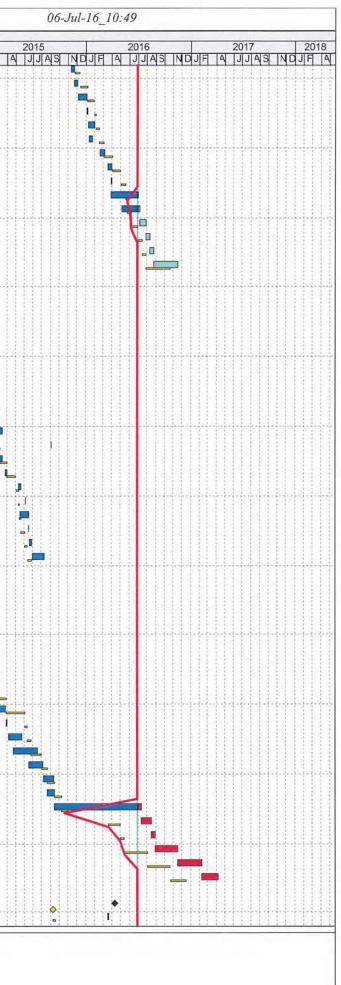
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	w.C_BL_Report (Jun'16)		Letter to the second se					_	_	00	-Jul-16_10:4	11	
ity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 0			2015			2017 JF A JJAS NI
SP.A05_0030	A5 Satisfactory Implementation of Health and Safety Plan	0	01-Aug-15 A		01-Aug-15					8		001101100	
SP.A05 0040	A5 Satisfactory Implementation of Environmental Management Plan	0	01-Aug-15 A		01-Aug-15			111		×.			PERIOR
SP.A07 0010	A7 Satisfactory Implementation of Quality Plan	0	30-Jan-16 A		30-Jan-16	-		1111	11111	(FI)	8 11		HHHHH
SP.A07 0020	A7 Satisfactory Implementation of System Assurance Plan	0	30-Jan-16 A		30-Jan-16			1111		1111	8		
SP.A07 0030	A7 Satisfactory Implementation of Health and Safety Plan	0	30-Jan-16 A		30-Jan-16				11111	1111	8		
SP.A07 0040	A7 Satisfactory Implementation of Environmental Management Plan	0	30-Jan-16 A		30-Jan-16			1111		1111	8		
SP.A09 0010	A9 Satisfactory Implementation of Quality Plan	0	30-Jul-16*		30-Jul-16	0	0		11111	1111	111111	811111	
SP.A09_0020	A9 Satisfactory Implementation of System Assurance Plan	0	30-Jul-16*		30-Jul-16	0	0					8	
SP.A09 0030	A9 Satisfactory Implementation of Health and Safety Plan	0	30-Jul-16*		30-Jul-16	0	0			1111		8	
SP.A09 0040	A9 Satisfactory Implementation of Environmental Management Plan	0	30-Jul-16*		30-Jul-16	0	0					8	
Implementation of	Programming Management System			and the second second						1111			
PMS.A02_0010	A2 Satisfactory Implementation of Programming Management System	0	01-Nov-14 A		01-Nov-14			8		1111			
PMS.A04_0010	A4 Satisfactory Implementation of Programming Management System	0	02-May-15 A		02-May-15				8				
PMS.A06_0010	A6 Satisfactory Implementation of Programming Management System	0	28-Aug-15 A		31-Oct-15			1111	11111	•	♦		
PMS.A08_0010	A8 Satisfactory Implementation of Programming Management System	0	03-Mar-16 A		30-Apr-16			1111		1111	•		
PMS.A10_0010	A10 Satisfactory Implementation of Programming Management System	0	29-Oct-16*		29-Oct-16	0	0	1111		1111		8	
Other Submission								1111	11111	1111	1111111		
OS.OM_0010	Hoarding Installation Method Statement - Preparation & Submission	30 14-Apr-14 A	23-May-14 A	14-Apr-14	and a subscription of the								
OS.OM_0020	Hoarding Installation Method Statement - Review & Approval	12 24-May-14 A		24-May-14	and a second s			1111		1111	1111111		HEILIE
OS.OM_0030	Hoarding Installation Method Statement - Preparation for Re-submission (if required)	12 09-Jun-14 A	21-Jun-14 A	09-Jun-14			-		1111	1111			
OS.OM_0040	Hoarding Installation Method Statement - Re-submission (if required) & Approval	12 23-Jun-14 A	23-Jun-14 A	23-Jun-14	07-Jul-14		L			1111	1111111		
OS.OM_0050	Site Investigation Works Method Statement - Preparation & Submission	30 14-Apr-14 A	23-May-14 A	14-Apr-14	23-May-14			1111		1111		111111	
OS.OM_0060	Site Investigation Works Method Statement - Review & Approval	12 24-May-14 A	07-Jun-14 A	24-May-14	07-Jun-14			1111		1.1.1.1			
OS.OM_0070	Site Investigation Works Method Statement - Preparation for Re-submission (if required)	12 09-Jun-14 A	21-Jun-14 A	09-Jun-14	21-Jun-14		-			1111			
OS.OM_0080	Site Investigation Works Method Statement - Re-submission (if required) & Approval	12 23-Jun-14 A	07-Jul-14 A	23-Jun-14	07-Jul-14					1111			
OS.OM_0090	WAC D-wall demolition Design- ICE, Preparation for design submission	90 03-Nov-14 A	18-Feb-15 A	03-Nov-14	18-Feb-15					1111			
OS.OM_0100	WAC D-wall demolition- Review & Approval	60 23-Feb-15 A	08-May-15 A	23-Feb-15	08-May-15			THE					
OS.OM 0110	WAC D-wall demolition- Preparation for re-submission (If require)	40 09-May-15 A	26-Jun-15 A	09-May-15	26-Jun-15			HHE.				111111	11111111111
OS.OM_0120	WAC D-wall demolition- Review & Approval (If require)	30 27-Jun-15 A	01-Aug-15 A	27-Jun-15	01-Aug-15								
OS.OM 0121	H15 D-wall demolition Design- ICE, Preparation for design submission	24 30-Jun-16	28-Jul-16			-160	0	1111		1111	1111111	R	
OS.OM 0122	H15 D-wall demolition- Review & Approval	24 29-Jul-16	25-Aug-16		-	-160	0			1111	1111111		
OS.OM 0123	H15 D-wall demolition- Preparation for re-submission (If require)	12 26-Aug-16	08-Sep-16			-160	0	1111		EH.	111111		
OS.OM 0124	H15 D-wall demolition- Review & Approval (If require)	12 09-Sep-16	23-Sep-16		1 and a state of the	-160	0			1111			
OS.OM 0130	A8 AIP procedures for T&C of BS and ABWF works (1st Batch)	90 30-Jun-16	17-Oct-16	01-Jun-15	15-Sep-15	-318	0	THE		111			
OS.OM 0140	A8 AIP procedures for T&C of BS and ABWF works (2nd Batch)	90 18-Oct-16	06-Feb-17	16-Sep-15	05-Jan-16	-318	0	1111			. [] [] []]		
OS.OM 0150	A8 AIP procedures for T&C of BS and ABWF works (Remaining)	90 07-Feb-17	29-May-17	06-Jan-16	27-Apr-16	-318	0	1111					
OS.OM 0160	A10 AIP of Draft O&M manual and Draft As-built Drawings	150 31-May-17	25-Nov-17	28-Apr-16	27-Oct-16	-318	0	1111		4114			CANAL SCALE
OS.OM_0170	A11 Approval of O&M manual and As-built drawings for the Works	95 27-Nov-17	23-Mar-18	28-Oct-16	22-Feb-17	-318	0			1111		N L L L L L L	🗕 () () () () () ()
OS.OM_0180	RC Works- Preparation of Method Statement- Preparation	60 06-Jan-15 A	06-Feb-15 A	08-Jul-14	16-Sep-14								
OS.OM_0190	RC Works - Preparation of Method Statement- Submission & Approval	12 06-Feb-15 A	10-Feb-15 A	17-Sep-14	30-Sep-14			141	1	1111		A 11111	
OS.OM 0200	RC Works - Preparation for Re-submission (if required)	12 10-Feb-15 A	16-Feb-15 A	03-Oct-14	16-Oct-14				1	111			
OS.OM 0210	RC Works - Re-submission (if required) & Approval	12 16-Feb-15 A	16-Feb-15 A	17-Oct-14	30-Oct-14			-		1111	1111111		THHHH
OS.OM 0220	Sheet pile installation- Preparation of Method Statement- Preparation	42 03-Jun-14 A	03-Jul-14 A	14-Apr-14	07-Jun-14					1111			
OS.OM 0230	Sheet pile installation- Preparation of Method Statement- Submission & Approval	12 03-Jul-14 A	08-Jul-14 A	09-Jun-14	21-Jun-14		-			TIT	TITTT		
OS.OM 0240	Sheet pile installation - Preparation for Re-submission (if required)	12 08-Jul-14 A	23-Oct-14 A	23-Jun-14	07-Jul-14				11111	1111	1111111		
OS.OM 0250	Sheet pile installation - Re-submission (if required) & Approval	12 23-Oct-14 A	14-Nov-14 A	08-Jul-14	21-Jul-14					1111			
OS.OM 0260	Excavation works- Preparation of Method Statement- Preparation	42 22-Aug-14 A		14-Apr-14						111		111111	
OS.OM 0270	Excavation works- Preparation of Method Statement- Submission & Approval	12 22-Sep-14 A		09-Jun-14	and the second sec								
OS.OM 0280	Excavation works- Preparation for Re-submission (if required)	12 21-Oct-14 A	21-Oct-14 A	23-Jun-14	and the second se				nmirth	TTT	mminin		
OS.OM 0290	Excavation works- Re-submission (if required) & Approval	12 21-Oct-14 A	21-Oct-14 A	08-Jul-14	and the second s			-		111			
OS.OM 0300	Work below tram track Method Statement - Preparation	60 23-Feb-15 A	23-Mar-15 A		16-Sep-14					111	111111		
OS.OM 0310	Work below tram track Method Statement - Submission & Approval	12 23-Mar-15 A	09-Apr-15 A	and the second sec	30-Sep-14					1111	411111		
OS.OM_0320	Work below tram track Method Statement - Preparation for Re-submission (if required)	12 09-Apr-15 A	27-Apr-15 A	03-Oct-14	and the second se			-			HINL		
OS.OM 0330	Work below tram track Method Statement - Re-submission (if required) & Approval	12 27-Apr-15 A	10-Jun-15 A	17-Oct-14	the second		-	-		1111	miniti	THEFT	THIT
OS.OM 0340	H15 & WAC Break Through Method Statement - Preparation	48 11-Jun-15 A	20-Jul-15 A		16-Sep-14			<u> </u>					
OS.OM 0350	H15 & WAC Break Through Method Statement - Submission & Approval	12 20-Jul-15 A	21-Jul-15 A	and the second state of th	30-Sep-14						THE		HHHHH
OS.OM 0360	H15 & WAC Break Through Method Statement - Preparation for Re-submission (if required)	12 21-Jul-15 A	21-Jul-15 A	and the second state of the second state of the	16-Oct-14	1							
OS.OM 0370	H15 & WAC Break Through Method Statement - Re-submission (if required) & Approval	12 21-Jul-15 A	21-Jul-15 A	17-Oct-14						11			HIIIIII
OS.OM_0380	BD for consent of H15 break through works - Preparation	24 03-Aug-15 A			18-Nov-15	-160	0	TTT	hiii				
OS.OM 0390	BD for consent of H15 break throughs works - Submission & Approval	24 00 / 10 / 10 / 10 / 10 / 10 / 10 / 10	07-Nov-16	and the second second second in the second	30-Jan-16	-160	0	1111					
OS.OM 0400	BD for consent of H15 break throughs works - Preparation for Re-submission (if required)	12 08-Nov-16	21-Nov-16		09-Mar-16	-160	0			111			HIHHH
OS.OM 0410	BD for consent of H15 break throughs works - Re-submission (if required) & Approval	12 22-Nov-16	05-Dec-16	the second se	12-May-16	-160	14			1111			
 Actual Level of Eff 		-13C Wan Chai Sta	ation I ao'	Fung Str.	eet Subw	av							
 Primary Baseline 	Milestone Milestone				eet Subw	ay							
Actual Work		Master Progra	in (Rev.C)									

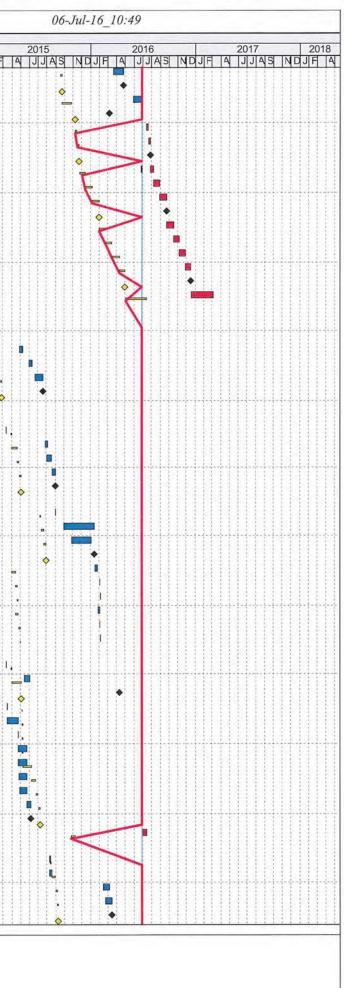
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/ ID	Activity Name	Original Duration	Start	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 01	4	JIFI IN	2015			DIG		2017 A JJJAS	S NDJ
OS.OM_0420	Submit and obtain AIP for Method Statement, EDOC Draft, Permanent Materials	60	31-Jul-15 A	10-Oct-15 A	31-Oct-14	12-Jan-15	Ĵ										
Mobilization and Ot										1111							
Permit Applications		70	14-Apr-14 A	10-Jun-14 A	14-Apr-14	11-Jul-14	a second second					3111					
PA_0010 PA_0020	XP Excavtion Permit Application and Permit TRA Tree Removal Application and Permit		14-Apr-14 A	15-Jul-14 A	14-Apr-14								1111		1111		
PA_0020	Liason with all utility service providers on diversions	1	14-Apr-14 A	11-Jul-14 A	14-Apr-14	Concernant and a law yakes as a second				1111		. 1111	1111		1111	11111	1111
PA_0030	Baseline noise monitoring report - Preparation & submission to Engineer and EPD		23-Jun-14 A	28-Jun-14 A	14-Apr-14			Í.	11111	tttt		1111	1-1-1-		*********		THT
PA_0040	Baseline noise monitoring report - Review & Approval		30-Jun-14 A	09-Jul-14 A	24-May-14			فا		1111	1111	11111	1111	1111	1111	1111	1111
PA_0050	Baseline noise monitoring report - Preparation for Re-submission (If Require)		23-Jun-14 A	28-Jun-14 A	30-Jun-14			L	11111		1111		1111	1111			1111
PA 0070	Baseline noise monitoring report - Review and Approval (If Require)	7007	30-Jun-14 A	09-Jul-14 A	and the second sec	01-Aug-14		Ö,			1111	(11)17	1111			1111	1111
PA 0080	Baseline air monitoring report - Preparation & submission to Engineer and EPD	-	23-Jun-14 A	28-Jun-14 A	14-Apr-14	and the second se		É.					51 F			11111	1111
PA 0090	Baseline air monitoring report - Review & Approval		30-Jun-14 A	09-Jul-14 A	24-May-14			L.		11TH		an m	111	1111			1111
PA 0100	Baseline air monitoring report - Preparation for Re-submission (If Require)	14	10-Jul-14 A	10-Jul-14 A	30-Jun-14	and the second sec		1		1111	1111	(111)				1111	4111
PA 0110	Baseline air monitoring report - Review and Approval (If Require)	14	10-Jun-14 A	11-Jul-14 A	17-Jul-14	01-Aug-14						41417	1111	1111		11111	1111
and the local design of the second design of the se	and ABWF Works for the New Subway (Part A Works)	1		and the second							1111	/1111/	1111	11.11	/1111/	11111	1111
Cost Centre B- Mil										111	1111	AHH	I H I				
	of SBC & Children's Play Area Cofferdam completed (2-Nov'14)									1111	11111	11111	TTTT	1111	1111	TITT	TITT
MSB01 01	Southern Basket Ball Court: excavate to +2.5mPD (2-Nov'14)	0		01-Nov-14 A	1	01-Nov-14			8	1111	111 🗆	11111				11111	1111
MSB01 02	Children's Play Area - Cofferdam construction is completed (2-Nov'14)	0		25-Oct-14 A		25-Oct-14			Ś	1111		AHH	1111				1111
and the second se	complete & Children's Play Area Excavation to -1.3mPD (25-Jan'15)									1111	11111	11117	1111	11111	1111	1111	1111
MSB02 01	Southern Basket Ball Court: Excavation is satisfactorily completed (25-Jan'15)	0	1	16-Jan-15 A		24-Jan-15				5	1111					LLLL	1111
MSB02 02	Children's Play Area: Excavation has reached -1.3mPD (25-Jan'15)	0		24-Jan-15 A		24-Jan-15		3		8							1111
B3 SBC RC Roof, Jn	R NFP & EBC 67% cofferdam, JnR WBC UU div complete (3-May'15)										1111		1111	1111	1111	1111	1111
MSB03_01	Southern Basket Ball Court: Roof slab construction has been satisfactorily completed (3-May'15)	0		28-Apr-15 A		02-May-15	1			8		/1118			1111	11111	1111
MSB03_02	Johnston Road North Footpath and East-bound Carriageway: 67% of cofferdam installation complete (3-N	0		09-May-15 A		27-Apr-15		1	11111	0		HHH	1111	HEE			1111
MSB03_03	Johnston Road West-bound Carriageway - All utility diversions, where required, satisfactorily completed (0		21-Mar-15 A		21-Mar-15				8			1.1.1.1.	1.1.1.1.1		1111	4.4.4.4
MSB03_04	10% completed of tram track support (3-May'15)	0	11	29-Apr-15 A		02-May-15			11111	8		AHN	1111			11111	111
	Site entry, CPA base, JnR NFP & EBC Cofferdam & decks complete (2-Aug'15)					107.1.15			11111	1111		11117	1111	11111	HIII		1111
MSB04_01	Southern Basket Ball Court: Playing surface has been returned to LCSD for use (2-Aug'15)	0		11-Aug-15 A	_	27-Jun-15				1111	•	.111 <i>1</i> 7	1111	1111		11111	1111
MSB04_02	Northern Basket Ball Court: Site entry onto Hennessy Road has been formed (2-Aug'15)	0		15-Aug-15 A	-	31-Jul-15				1111	*	1111					
MSB04_03	Children's Play Area: RC construction of the base slab, except at mucking out point, complete (2-Aug'15)	0		17-Jul-15 A		31-Jul-15	040	0				p. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	++++			+++++	++++
MSB04_04	JnR N-Footpath & E-Bound Carriageway: Cofferdam construction complete & all temp traffic decks insta	0		30-Jun-16		29-Jul-15	242	0		1111						11111	1111
	PA RC & vent shaft 1.2m above GL, Tram Tracks Excavation to +0.0mPD (1-Nov'15)	0		18-Dec-16 A		30-Oct-15				1111	1111		1111	11111	•	11111	1111
MSB05_01	Northern Basket Ball Court: Satisfactorily complete construction of the cofferdam (1-Nov'15)	0		11-Jul-16		31-Oct-15	230	0		1111			1111	•		11111	1111
MSB05_02	Children's Play Area: RC construction complete include above ground vent shaft structures 1.2m above (0		30-Jun-16	-	24-Oct-15	242	12	LILLI	1111	11111	?	1111	LI ELI		11111	1111
MSB05_03	Tram Tracks - Excavation to +0.0 mPD is satisfactorily completed (1-Nov'15) o formation, JnR Excavation complete (31-Jan'16)	0		30-30H-10		24-001-13	242	12			++++	.			*******		
MSB06_01	Northern basket Ball Court - Excavation to final formation has been satisfactorily completed (31-Jan'16)	0		28-Dec-15 A		29-Jan-16	1			1111	1111	•	1111	11111		1111	1111
MSB06 02	Johnston Road All Carriageways, Footpaths & Tram Tracks: Excavation is completed (31-Jan'16)	0		23-Sep-16		30-Jan-16	156	0	11111	1111	1111		1111	•	1111	11111	1111
and the set of the set	t CW & FP & TT RC construction exp temp opening, CPA RC complete (1-May'16)	0		20 000 10			100			111		Y	1111			11111	1111
MSB07 01	Northern Basket Ball Court: RC construction of the roof slab has been completed (1-May'16)	0		01-Apr-16 A		30-Apr-16				1111			٠.			1111	
MSB07 02	JnR Carriageways, Footpaths & Tram Tracks: RC construction, except at temporary opening completed (0		17-Dec-16		30-Apr-16	71	0	TITT	1111	1111	ATT	6		•		1111
MSB07 03	Children's Play Area: RC Construction of above ground ventilation shaft structures is completed (1-May'16)			15-Aug-16		28-Apr-16	195	124		1111		a ur	6	•		1111	1111
	hieved, NBC All reinstatement, Opening through H15 D-wall complete (31-Jul'16)								11111	1111	1111		11 I I	TILL		IIII.	1111
MSB08_01	ABWF to Degree 1 has been achieved for works in this cost centre (31-Jul'16)	0		18-Mar-17		28-Jul-16	-20	0	11111	1111			1111	0		1111	1111
MSB08 02	Northern Basket Ball Court - All re-surfacing works & playing surface reinstatement completed (31-Jul'16)	0		24-Aug-16		28-Jul-16	187	207		1111		1111	1111				1111
MSB08 03	H15 Interface: The opening through H15 diaphragm wall has been formed (31-Jul'16)	0		14-Mar-17		30-Jul-16	-16	4	111111	1111	1111	1111	1111	♦	•	11111	1111
B9 ABWF Degree3 a	hieved, All road reinstatement in JnR & Hennessy Rd complete (30-Oct'16)									111	1111	anu -	HH				111
MSB09_01	ABWF to Degree 3 has been achieved for works in this cost centre (30-Oct'16)	0		22-Jun-17		27-Oct-16	-116	0	11111	1111	31111		1111	•		•	1111
MSB09_02	All road reinstatement works in Johnston Road and Hennessy Road have been satisfactorily completed (0		04-Mar-17		21-Oct-16	-6	110	111111	1111	1111	1111	1111	•		11111	1111
and the state of the local data and the state of the stat	t Centre B satisfactorily completed (26-Feb'17)				-			100								4444	
MSB10_01	All works in this cost centre have been satisfactorily completed (26-Feb'17)	0		22-Jun-17		25-Feb-17	-116	109	HILLI	111			1411				1111
	tion for ABWF Works					00.1.1.0	0.0			1111	1111					1111	1111
ABWF.D1	ABWF Works - Degree 1	0		18-Mar-17		28-Jul-16	-20	0		1111			1111	\$	61111		1111
ABWF.D2	ABWF Works - Degree 2	0		20-May-17		23-Sep-16	-83	33		1111	1111	1111	1111	<	1111		1111
ABWF.D3	ABWF Works - Degree 3	0		22-Jun-17	-	27-Oct-16	-116	0	+++++				+++++++++++++++++++++++++++++++++++++++	·····.			
ABWF Works - Degre		0		18-Mar-17		28-Jul-16	-20	0		1111					٠	1111	
ABWF.D1_1.010	1.1- Structure and building complete, clean, dry and weather proof	0		18-Mar-17 18-Mar-17		28-Jul-16 28-Jul-16	-20	0		111	1111		1111	Ŷ	•	1111	1111
ABWF.D1_1.020	1.2- Blockwalls and partition walls complete, except on plant access route	0		18-Mar-17	-	28-Jul-16	-20	0	11111	1111			1111	2	•	HILL	1111
ABWF.D1_1.030	1.3- Plastering, undercoat painting, floor screeding including plinths & upstands complete	0		18-Mar-17		28-Jul-16 28-Jul-16	-20	0	11111	1111				0	•		1111
ABWF.D1_1.040	1.4- Equipment delivery routes & access openings available for Designated Contractors or Interface Cont	0		and the second se		28-Jul-16 28-Jul-16	-20	0	+++++	+++++		rttt	****	.0	•	+++++	
ABWF.D1_1.050	1.5- Cast-in items & subframe installed; niches, recesses and box outs formed; cable troughs, ducts & ri	0		18-Mar-17 18-Mar-17	-	28-Jul-16 28-Jul-16	-20				1111		1111	0	•	11111	
ABWF.D1_1.060	1.6- Structure as-built survey accepted							UL:	11111	1211	11113		5333	0	2121	101 1 101	3.1.1.1
Actual Level of Effo	rt ♦ ♦ Baseline Milestone Contract C6593-13C	Wan	Chai Sta	ation Lee	Fung Str	eet Subw	ay										
Primary Baseline						and the second se	U										
Actual Work		wraste	rrogra	m (Rev.C)													

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vity ID	Activity Name	Original Start Duration	Finish	Start	Finish	Float	Float 014		20	15		016		2017	
BWF.D1 1.070	1.7- Structural & blockwork E&M openings formed & survey complete	0	18-Mar-17		28-Jul-16	-20	0	ASIND		JASIND	JF A J	JJASIN		H JJE	AS NDJF
ABWF.D1_1.070	1.8- Movement joints & stitch strips complete	0	18-Mar-17		28-Jul-16	-20	0		11111			2	•	6111	11111
ABWF.D1 1.090	1.9- Drainage system & discharge connections complete with temporary pumps operational	0	17-Mar-17		27-Jul-16	-19	1	HIL	11111			Š.	•		11111
ABWF.D1 1.100	1.10- Escalator zones & pits complete; survey reference lines accepted	0	18-Mar-17		28-Jul-16	-20	0	TTTT	11111	11111		0	•	ritit	111111
BWF.D1 1.110	1.11- Earthing mat, earthing rods & earthing pits complete & test results accepted	0	18-Mar-17		28-Jul-16	-20	0	1111	111111			0	•		HHH
BWF.D1 1.120	1.12- Underground pipework complete including manholes, ductworks & drawpits	0	18-Mar-17		28-Jul-16	-20	0		11111				•		
BWF.D1 1.130	1.13- Civil & building provisions for designated & interfacing contractors complete	0	30-Jun-16		14-Apr-14	242	262		111111			•	887		1111
ABWF Works - Degr								1111	111111				1111		111111
ABWF.D2_2.010	2.1- Permanent door frames installed with temporary doors and locks	0	13-May-17		15-Sep-16	-76	7	11111	11111			•	1111	•	11111
ABWF.D2_2.020	2.2- Floor finishes & wall tilling in plant rooms for Designated Contractors complete	0	20-May-17		23-Sep-16	-83	0	11111	11111			•	1117	•	11111
ABWF.D2_2.030	2.3- Glazing & Balustrade support installed	0	01-Apr-17		11-Aug-16	-34	49	11111	11111			٥			11111
BWF.D2_2.040	2.4- Metal staircases, cat-ladders & catwalks complete	0	13-May-17		15-Sep-16	-76	7	11111	11111	11111		•	1111	•	11111
ABWF.D2_2.050	2.5- External louvers installed	0	13-May-17		15-Sep-16	-76	7					♦	1111	•	11111
ABWF.D2_2.060	2.6- Framework for final finishes installed	0	13-May-17		15-Sep-16	-76	7	11111	111111		11111	•	1117	•	11111
ABWF.D2_2.070	2.7- Water tightness testing to water tanks passed	0	13-May-17		15-Sep-16	-76	7		11111			♦		•	11111
ABWF Works - Degr	ee 3							11111	11111		11111	1111			11111
ABWF.D3_3.010	3.1- All finishes complete including permanent doors, ironmongery	0	22-Jun-17		27-Oct-16	-116	0	1111	11111			•	u ti	i i i¶ li	11111
ABWF.D3_3.020	3.2- Balustrade installed	0	22-Jun-17		27-Oct-16	-116	0	1111	11111			٥.	1.1.1.1.		11111
ABWF.D3_3.030	3.3- Signage hangers & supports installed	0	19-Jun-17		24-Oct-16	-113	3	1111	111111		11111	•	1111	E E E E	11111
ABWF.D3_3.040	3.4- Roller shutters, fire shutters & smoke barriers installed	0	19-Jun-17		24-Oct-16	-113	3	1111	11111			•		•	
ABWF.D3_3.050	3.5- Acoustic treatment applied	0	19-Jun-17		24-Oct-16	-113	3	1111				•			11111
ABWF.D3_3.060	3.6- Louvres & grilles installed	0	19-Jun-17		24-Oct-16	-113	3	1111	11111			•		•	11111
ABWF.D3_3.070	3.7- All openings & Penetrations sealed	0	19-Jun-17		24-Oct-16	-113	3	1111	11111			0		•	111111
	und Reprovision works							THE			77777				THIN
RW 0010	LCSD handover Northern Basket Ball Court 1	1 08-Apr-17	08-Apr-17	17-Dec-16	17-Dec-16	-89	0	11111	111111	11111	11111	1111	$\{a\}$		11111
RW 0020	Fence off the site	2 10-Apr-17	11-Apr-17	19-Dec-16	20-Dec-16	-89	0	1111	11111			1111			
RW 0030	Expose the surface	6 12-Apr-17	21-Apr-17	21-Dec-16	29-Dec-16	-89	0	4414	11111			1111			11111
RW 0040	Resurfacing works	14 22-Apr-17	10-May-17	30-Dec-16	16-Jan-17	-89	0					11111	-		
RW 0050	Hand over to LCSD, additional remedial if require	5 11-May-1		17-Jan-17	and the second sec	-89	0	TITL	11111	THEFT					
RW 0060	LCSD handover Southern Basket Ball Court 2	1 17-May-1		23-Jan-17	23-Jan-17	-89	0	11111	11111				11417		
RW 0070	Fence off the site	2 18-May-1		24-Jan-17	and the second se	-89	0	11111	HHH	11111		1111	[]]]]		11111
RW 0080	Expose the surface	6 20-May-1	the second s		04-Feb-17	-89	0	1111	111111				-		11111
RW 0090	Resurfacing works	13 27-May-1	and the second of the second o	06-Feb-17	and the second s	-89	0	11111	11111			11111			HHH
RW 0100	Hand over to LCSD, additional remedial if require	5 13-Jun-1		21-Feb-17	and the second sec	-89	0			11111	11111	1111			THIT
the second	rt A Works, Civil and Structural Works for the New Subway							14414							
B.RC Comp	RC Structure completed for the new subway	0	17-Dec-16		30-Apr-16	-228	0	11111	111111				•	et e	111111
Site Preliminary Wo								11111	111111					(THE	11111
SPW_0010	LCSD handover SBC & Play's Area	3 14-Apr-14	A 16-Apr-14 A	14-Apr-14	16-Apr-14									LLLL	
SPW_0020	Fence off the Site area for SBC & Play's Area	3 17-Apr-14	A 23-Apr-14 A	17-Apr-14	23-Apr-14			11111	11111			11111		HH	
SPW_0030	Employ security guard & security booth delivery	3 24-Apr-14	A 26-Apr-14 A	24-Apr-14	26-Apr-14			1111	111111	HIH	11111		1111	1111	11111
SPW_0040	Removal of existing furniture for SBC & Play's Area as require	6 28-Apr-14	A 05-May-14 A	28-Apr-14	05-May-14			11111	111111					1111	11111
SPW 0050	Trial trenches and expose existing UU service in SBC & Play's area	40 14-Apr-14	A 05-Jun-14 A	14-Apr-14	05-Jun-14			11111				11111	ELEL/	1111	111111
SPW 0060	Setting up site office & misc.	50 07-May-1	A 05-Jul-14 A	07-May-14	05-Jul-14			11111	11111			1111			
SPW 0070	Form site access for vehicle	12 07-Jul-14	A 19-Jul-14 A	07-Jul-14	19-Jul-14		L	11111	11111	11111		THE		ATT	LITT
SPW 0080	Diversion of existing utilities & misc. works if require for SBC & Play's Area	24 09-Jun-1-	A 07-Jul-14 A	09-Jun-14	07-Jul-14			1111	HIDI						11111
SPW 0090	Erect hoarding for SBC	12 16-Jul-14	A 29-Jul-14 A	08-Jul-14	21-Jul-14			11111	111111		11111	11113	1111	11111	11111
SPW 0100	Ground/ Site Investigation in SBC & Play's Area	18 08-Jul-14	A 28-Jul-14 A	08-Jul-14	28-Jul-14			1111	11111			1111		11111	111111
SPW 0110	Transplant and tree removal	72 24-Apr-14	and the second se	24-Apr-14				11111	11111			1111	1111		11111
Northern Basket Bal															11111
NBC 0010	Liaison with relevance parties for TTM	80 02-Apr-1	A 02-Jul-15 A	02-Apr-15	13-Jul-15							11111	1111		111114
NBC 0020	LCSD handover Northern Basket Ball Court for LTS construction works	6 11-Aug-1		29-Jun-15				1111		. 1	I H H H				
NBC_0030	Preparation works for NBC site access	4 11-Aug-1	Contraction of the second states of the second states and the	07-Jul-15	the wheel of the second s			31111	11111			1111	1111		1111
■ NBC 0040	Implementation of TTM	3 11-Aug-1	Contraction of the Article Contraction (Contraction)	14-Jul-15	and the second sec				11111	.011111					
NBC 0050	Relocation of metal fence access door for public	6 11-Aug-1	Contraction of the second s	11-Jul-15			11	11111	111111						THE
	Hoarding installation, installation of site entry on Hennessy Road	and in concerning the second se	A 15-Aug-15 A	18-Jul-15						_I			1111		
NBC 0060	Expose UU & trial trench for sheet piles works		A 20-Aug-15 A	01-Aug-15	and the state of the			11111	111111			HH			
	Phase 3 ELS- Sheet Piles Installation [104 no. x 24m]	and the second sec	A 23-Sep-15 A	15-Aug-15								1111	1111		11111
NBC_0070			A 13-Oct-15 A	13-Oct-15				11111	11111						11111
NBC_0070 NBC_0080		10 00 000 1		13-Oct-15				TITI	TITL			TIT	THIT	min	THIT
 NBC_0070 NBC_0080 NBC_0090 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	12 09-Oct-1		and the second s	06-Nov-15					1111	(1111)		HH		11111
 NBC_0070 NBC_0080 NBC_0090 NBC_0100 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works	12 09-Oct-1	the second	31-001-15				13111	111111		11111	11111	1111		11111
 NBC_0060 NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test	6 27-Oct-1	A 01-Nov-15 A	and the second s											
 NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test Phase 3 ELS- Pumping Test Report Preparation and submission to BD	6 27-Oct-1 6 02-Nov-1	A 01-Nov-15 A 6 A 02-Nov-15 A	07-Nov-15	13-Nov-15					i i					11111
 NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test	6 27-Oct-1	A 01-Nov-15 A 6 A 02-Nov-15 A	and the second s	13-Nov-15					i					
 NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test Phase 3 ELS- Pumping Test Report Preparation and submission to BD Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m	6 27-Oct-1 6 02-Nov-1 9 04-Nov-1	A 01-Nov-15 A 5 A 02-Nov-15 A 5 A 10-Nov-15 A	07-Nov-15 14-Nov-15	13-Nov-15 24-Nov-15	av				<u>i</u>					
NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 NBC_0130 Actual Level of Effe	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test Phase 3 ELS- Pumping Test Report Preparation and submission to BD Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m ort	6 27-Oct-1 6 02-Nov-1 9 04-Nov-1	A 01-Nov-15 A 5 A 02-Nov-15 A 6 A 10-Nov-15 A Station Lee	07-Nov-15 14-Nov-15 Tung Stre	13-Nov-15 24-Nov-15	yay				<u>i</u>					
NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 NBC_0130 Actual Level of Effor Primary Baseline	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test Phase 3 ELS- Pumping Test Report Preparation and submission to BD Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m ort	6 27-Oct-1 6 02-Nov-1 9 04-Nov-1	A 01-Nov-15 A 5 A 02-Nov-15 A 6 A 10-Nov-15 A Station Lee	07-Nov-15 14-Nov-15 Tung Stre	13-Nov-15 24-Nov-15	yay				<u>i</u>					
NBC_0070 NBC_0080 NBC_0090 NBC_0100 NBC_0110 NBC_0120 NBC_0130 Actual Level of Effort	Curtain Grouting and remedial works for sheet piles not reaching to design toe level Phase 3 ELS- Pumping Test preparation works Phase 3 ELS- Pumping Test Phase 3 ELS- Pumping Test Report Preparation and submission to BD Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [500m ort	6 27-Oct-1 6 02-Nov-1 9 04-Nov-1	A 01-Nov-15 A 5A 02-Nov-15 A 5A 10-Nov-15 A Station Lee ram (Rev.C)	07-Nov-15 14-Nov-15 Tung Stree ()	13-Nov-15 24-Nov-15	yay				i					

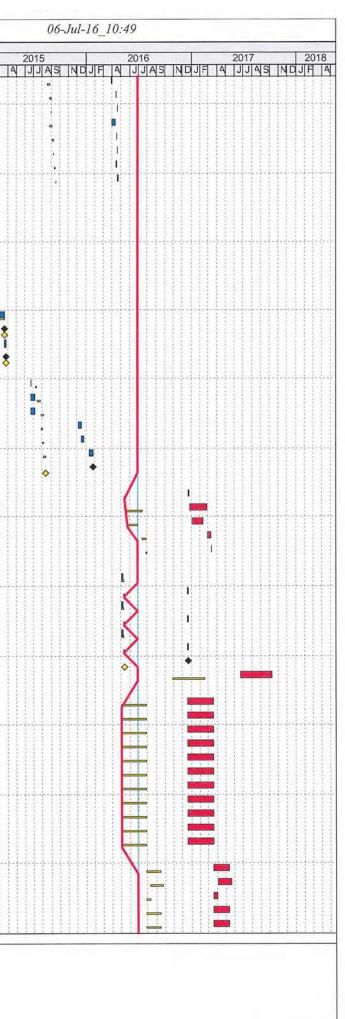
y ID	Activity Name	Original Duration	Start	Finish	BL Project Start	BL Project Finish	Total Float	Free Float 014	4
								JJ	AS N
NBC_0140	Bulk excavation & layer 2 strut & preloading [500m^3]		11-Nov-15 A	21-Nov-15 A	25-Nov-15				
NBC_0150	Bulk excavation & layer 3 strut & preloading [500m^3]		23-Nov-15 A	03-Dec-15 A	12-Dec-15	05-Jan-16			
NBC_0160	Bulk excavation & layer 4 strut & preloading [500m^3]		04-Dec-15 A	04-Jan-16 A	06-Jan-16	29-Jan-16			11111
NBC_0170	Plate load test		05-Jan-16 A	08-Jan-16 A	30-Jan-16	05-Feb-16			
NBC_0180	Plate load test- Preparation of report & submission to BD	1	09-Jan-16 A	31-Jan-16 A	06-Feb-16	16-Feb-16			HHH
NBC_0190	Base Slab- Waterproofing & RC construction [Concrete 490m^3] & [Re-Bar 29.5 T]		13-Jan-16 A	22-Jan-16 A	17-Feb-16	04-Mar-16			h = d = sta ata = h
NBC_0200	Wall-Waterproofing & RC construction [Concrete 300m^3] & [Re-Bar 54 T]		20-Feb-16 A	08-Mar-16 A	05-Mar-16	01-Apr-16			1111
NBC_0210	Top Slab-Waterproofing & RC construction [Concrete 180m^3] & [Re-Bar 42.7 T]		17-Mar-16 A	01-Apr-16 A	02-Apr-16	30-Apr-16			HH
NBC_0220	Construction of flood light footing [2 nos.]		29-Mar-16 A	01-Apr-16 A	03-May-16		04		HHH
NBC_0230	Reinstatement and installation of flood light [2nos.]		29-Mar-16 A	02-Jul-16	18-May-16		81	0	
NBC_0240	Backfilling for Northern Basketball Court		05-May-16 A	06-Jul-16	25-May-16	and the second se	81	0	
NBC_0250	Reinstate hard paving of Northern Basketball Court		06-Jul-16	27-Jul-16	and the second se	29-Jun-16	81	0	1111
NBC_0260	Reinstate surface coating of Northern Basketball Court	- interest of the second se	27-Jul-16	10-Aug-16	30-Jun-16	14-Jul-16	81	0	
NBC_0270	Hand over to LCSD, additional remedial if require		10-Aug-16	24-Aug-16	15-Jul-16	28-Jul-16	81	0	1111
NBC_0280	Reinstate road surface on Hennessy Road	70	24-Aug-16	17-Nov-16	29-Jul-16	21-Oct-16	81	0	
Southern Basket Ba		1							<u></u>
SBC_0010	Phase 1 ELS- Sheet Piles Installation [184n. x 24m]		22-Jul-14 A	15-Nov-14 A	22-Jul-14	08-Oct-14			
SBC_0020	Curtain Grouting and remedial works for sheet piles not reaching to design toe level		15-Oct-14 A	15-Nov-14 A	09-Oct-14	25-Oct-14			-
SBC_0030	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [800m		09-Oct-14 A	01-Nov-14 A	09-Oct-14	01-Nov-14			
SBC_0040	Phase 1 ELS- Pumping Test preparation works	1000	16-Oct-14 A	08-Nov-14 A	09-Oct-14	25-Oct-14			-
SBC_0050	Phase 1 ELS- Pumping Test		17-Nov-14 A	28-Nov-14 A	27-Oct-14	07-Nov-14			
SBC_0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD		04-Dec-14 A	19-Jan-15 A	08-Nov-14	14-Nov-14		}	
SBC_0070	Bulk excavation & layer 2 strut & preloading [800m^3]	28	15-Nov-14 A	17-Dec-14 A	15-Nov-14	17-Dec-14			
SBC_0080	Bulk excavation & layer 3 strut & preloading [800m^3]	30	18-Dec-14 A	24-Jan-15 A	18-Dec-14	24-Jan-15			
SBC_0090	Plate load test	6	26-Jan-15 A	31-Jan-15 A	26-Jan-15	31-Jan-15			1111
SBC_0100	Temporary Traffic Deck construction	12	10-Jan-15 A	28-Jan-15 A	26-Jan-15	07-Feb-15			
SBC_0110	Plate load test- Preparation of report & submission to BD	12	12-Feb-15 A	16-Mar-15 A	02-Feb-15	14-Feb-15			1111
SBC_0120	Base Slab- Waterproofing & RC construction [Concrete 420m^3] & [Re-Bar 25.3 T]	15	04-Sep-15 A	04-Sep-15 A	16-Feb-15	07-Mar-15			E LE E I
SBC 0130	Wall- Waterproofing & RC construction [Concrete 280m^3] & [Re-Bar 50.4 T]	21	02-Mar-15 A	17-Mar-15 A	09-Mar-15	01-Apr-15			
SBC_0140	Top Slab- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 50 T]	22	28-Mar-15 A	02-Apr-15 A	02-Apr-15	02-May-15			1111
SBC 0150	Construction of flood light footing (2 nos.)	7	14-May-15 A	21-May-15 A	04-May-15	- Jack Color Color and Color Strategy and Color			HHH
SBC 0160	Reinstatement and installation of flood light (2nos.)	3	05-Jun-15 A	05-Jun-15 A	12-May-15				TTT
SBC 0170	Backfilling for Southern Basketball Court		18-May-15 A	16-Jun-15 A	15-May-15				81181
SBC 0180	Reinstate hard paving of Southern Basketball Court		16-Jun-15 A	18-Jun-15 A	22-May-15				11111
SBC 0190	Reinstate surface coating of Southern Basketball Court	- Anima -	20-Jun-15 A	29-Jun-15 A	03-Jun-15			1	
SBC 0200	Hand over to LCSD, additional remedial if require		30-Jun-15 A	11-Aug-15 A	13-Jun-15	27-Jun-15			
Children's Play Are									TTTT
CPA_0010	Phase 1 ELS- Sheet Piles Installation [123 No. x 24m]	65	22-Jul-14 A	15-Nov-14 A	22-Jul-14	08-Oct-14			
CPA 0020	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	15	15-Oct-14 A	15-Nov-14 A	09-Oct-14	25-Oct-14			
CPA 0030	Phase 1 ELS- Pumping Test preparation works	15	16-Oct-14 A	08-Nov-14 A	09-Oct-14	25-Oct-14			
CPA 0040	Bulk Excavation (Removal of hard paving on ground surface) & excavation for layer 1 to +2.5mPD [680m	32	27-Oct-14 A	02-Dec-14 A	27-Oct-14	02-Dec-14			
CPA 0050	Phase 1 ELS- Pumping Test	11	17-Nov-14 A	28-Nov-14 A	27-Oct-14	07-Nov-14		117	÷.
CPA 0060	Phase 1 ELS- Pumping Test Report Preparation and submission to BD	6	04-Dec-14 A	19-Jan-15 A	08-Nov-14	14-Nov-14			
CPA 0070	Bulk excavation & layer 2 strut & preloading to -1.3 mPD [680m^3]		18-Dec-14 A	24-Jan-15 A		24-Jan-15		1	1111
CPA 0080	Play's Area Temporary Traffic Deck construction		10-Jan-15 A	28-Jan-15 A	26-Jan-15	07-Feb-15			
CPA 0090	Bulk excavation & layer 3 strut & preloading [680m^3]		09-Feb-15 A	28-Feb-15 A	09-Feb-15	30-Mar-15			+
CPA 0100	Bulk excavation & layer 4 strut & preloading [680m^3]		01-Mar-15 A	27-Mar-15 A	31-Mar-15	03-Jun-15			
CPA 0110	Plate load test		30-Mar-15 A	02-Apr-15 A	04-Jun-15	10-Jun-15			
CPA 0120	Plate load test Plate load test- Preparation of report & submission to BD		08-Apr-15 A	23-May-15 A	11-Jun-15	25-Jun-15			1111
CPA_0120	Base Slab- Waterproofing & RC construction [Concrete 395m^3] & [Re-Bar 23.8 T]		23-Apr-15 A	17-Jul-15 A		31-Jul-15			1111
CPA_0130	Wall- Waterproofing & RC construction [Concrete 210m^3] & [Re-Bar 37.8 T]		18-Jun-15 A	06-Aug-15 A	01-Aug-15	and the second se			1111
CPA_0140	Top Slab- Waterproofing & RC construction [Concrete 185m^3] & [Re-Bar 43.8 T]		07-Aug-15 A	11-Sep-15 A	and the second s	14-Sep-15			1-1-1-1-1
and the stand of the second	Ventilation Shaft Below Ground- Waterproofing & RC construction [Concrete 35m^3] & [Re-Bar 6.3 T]		22-Aug-15 A	14-Sep-15 A	15-Sep-15				
CPA_0160			14-Sep-15 A	14-Sep-15 A 11-Jul-16	the second s	31-Oct-15	-89	0	
CPA_0170	Ventilation Shaft 1.2m Above Ground- Waterproofing & RC construction [Concrete 25m^3] & [Re-Bar 4.5]	a la constante de la constante	14-Sep-15 A 12-Jul-16	A design of the second s	and the second se		-89	0	
CPA_0180	Ventilation Shaft - Waterproofing & RC construction reach +7.40 & +9.50mPD [Concrete 50m^3] & [Re-E		a spine and the second second	15-Aug-16	21-Mar-16	28-Apr-16	-89	0	
CPA_0190	Site cleaning for Play Area reinstatement & Landscape works		16-Aug-16	29-Aug-16	29-Apr-16	13-May-16		0	
CPA_0200	Reinstatement works for Plays Area		30-Aug-16	17-Nov-16	16-May-16	and provide the second s	-89		1111
CPA_0210	Landscape works		18-Nov-16	09-Feb-17	03-Aug-16		-89	0	
CPA_0220	Hand over to LCSD, additional remedial if require	48	10-Feb-17	07-Apr-17	22-Oct-16	10-Dec-16	-89	0	
Johnston Road	All Chaot Dilog on InD & 1at lower mini pilog below Trem track sempleted			10.000 10.0		00 Son 1E			
JnR_0010	All Sheet Piles on JnR & 1st layer mini piles below Tram track completed	0	the state of the state	10-Apr-16 A	10 Con 15	09-Sep-15			
JnR_0020	Phase 2 ELS- Pumping Test 1 for 1st layer	0	17-Mar-16 A	21-Mar-16 A	10-Sep-15	10-3ep-15			1111
 Actual Level of Eff 	ort Baseline Milestone Contract C6593-130	Wan	Chai Sta	tion Lee 7	ung Str	eet Subw	av		
					-	See Subw			
Primon/ Recoline		70. 11	T						
 Primary Baseline Actual Work 	Milestone	Master	r Program	m (Rev.C)					



 JnR_0040 JnR_0050 JnR_0060 		Duration		Start	Finish	Float	Float		
 JnR_0040 JnR_0050 JnR_0060 			the states				1 Iour	JJAS	ND
JnR_0050 JnR_0060	Phase 2 ELS- Pumping Test Report for 1st layer Preparation and submission	6 21-Mar-16 A	25-Apr-16 A	17-Sep-15				1111	
JnR_0060	Phase 2 ELS- 1st layer Pumping Test completed & satisfied	0	25-Apr-16 A		23-Sep-15			THE.	
	Bulk excavation & layer 1 strut & preloading [570m^3]	24 30-May-16 A	27-Jun-16 A	24-Sep-15				EH.	
1 10 0.000	All grouting and sheet piles achieved to tot level in Johnston Road	0	07-Mar-16 A		07-Nov-15			1111	LL.
JnR_0070	Phase 2 ELS- Pumping Test 2 for whole ELS	6 15-Jul-16	21-Jul-16	09-Nov-15	14-Nov-15	-191	0		1 F
JnR_0080	Phase 2 ELS- Pumping Test Report for whole ELS Preparation and submission	6 22-Jul-16	28-Jul-16	16-Nov-15	21-Nov-15	-191	0		łŧ
JnR 0090	Phase 2 ELS- Pumping test completed & satisfied	0	28-Jul-16		21-Nov-15	-239	0	1111	H
JnR 0100	Bulk excavation & layer 2 strut & preloading [570m^3]	18 27-Jun-16 A	08-Aug-16	23-Nov-15	12-Dec-15	-191	0	1111	11
	Bulk excavation & layer 3 strut & preloading [570m^3]	18 09-Aug-16	29-Aug-16	14-Dec-15	06-Jan-16	-191	0	HH	11
and the second	Bulk excavation & layer 4 strut & preloading [570m^3]	21 30-Aug-16	23-Sep-16	07-Jan-16	and the second state and these related on the second state and the	-191	0	TIT	ET.
and the second sec	Bulk excavation to formation level on JnR	0	23-Sep-16		30-Jan-16	-236	0	1111	LE.
Contraction of the local division of the loc	Sump pit- Waterproofing & RC construction [Concrete 250m^3] & [Re-Bar 15 T]	18 24-Sep-16	17-Oct-16	01-Feb-16	A STATE OF THE STATE OF THE	-191	0	1111	14
The second se		17 18-Oct-16	05-Nov-16	25-Feb-16	15-Mar-16	-191	0	1111	E.
· · · · · · · · · · · · · · · · · · ·	Base Slab- Waterproofing & RC construction [Concrete 265m^3] & [Re-Bar 16 T]			16-Mar-16		-191	0	1111	1÷
	Wall- Waterproofing & RC construction [Concrete 70m^3] & [Re-Bar 12.6 T]	18 07-Nov-16	26-Nov-16				0	+++++	
	Top Slab- Waterproofing & RC construction [Concrete 125m^3] & [Re-Bar 29.6 T]	18 28-Nov-16	17-Dec-16	11-Apr-16	30-Apr-16	-191	0	1111	
	RC structure completed on JnR	0	17-Dec-16		30-Apr-16	-228	0		H.
JnR_0190	Removal of temporary traffic decking ,backfill & road reinstatement on JNR	60 19-Dec-16	04-Mar-17	03-May-16	14-Jul-16	-6	0	1111	H
Johnston Road North	Footpath (TTM Stage 1, 2, 2A & 2B)					(12) - 12 - 12 - 12 - 12 - 12 - 12 - 12 -		1111	11
JnR.NFP_0010	Liaison, review & acceptance for TTM Stage 1	54 14-Apr-14 A	21-Jun-14 A	14-Apr-14	Contraction of the second se			1.1.1.1.	14
JnR.NFP_0020	Implementation of TTM Stage 1	3 28-Jun-14 A	02-Jul-14 A	28-Jun-14	02-Jul-14			1111	11
	Phase 2 ELS- Sheet Piles Installation [30no. x 24m]	12 28-Apr-15 A	09-May-15 A	26-Jan-15	07-Feb-15			1111	E.
	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	6 01-Jun-15 A	12-Jun-15 A	09-Feb-15	14-Feb-15			1111	
	Installation of temporary traffic decking	6 22-Jun-15 A	21-Jul-15 A	16-Feb-15				1111	
	Sheet piles & Traffic decking completed on North Footpath for TTM Stage 3	0	21-Jul-15 A		25-Feb-15		1	1111	11
Johnston Road Eastb		- In the second second			and the second se			1111	i i
	bound carriageway							1111	11
	Implementation of TTM 3	3 13-Mar-15 A	14-Mar-15 A	30-Mar-15	01-Apr-15		-	1111	
and the second sec	Phase 2 ELS- Sheet Piles Installation [25no. x 24m]	12 27-Jul-15 A	05-Aug-15 A	and the state of t	20-Apr-15			1111	
the state and the large state and the second state of product of the Contract		6 03-Aug-15 A	20-Aug-15 A		27-Apr-15			1111	11
	Curtain Grouting and remedial works for sheet piles not reaching to design toe level				and the subscription of th			+++++	h-f
	Installation of temporary traffic decking	6 21-Aug-15 A	31-Aug-15 A	28-Apr-15	05-May-15			1111	
the second se	Sheet Piles & Traffic decking completed on Eastbound Carriageway North Side for TTM Stage 4	0	31-Aug-15 A		05-May-15			1111	11
	bound carriageway South Side (TTM Stage 4 & 5)	3 31-Aug-15 A	01-Sep-15 A	09-Jul-15	11-Jul-15			1 I I I	11
	Implementation of TTM 4		and the second s	and the second sec	and a second sec			1111	14
	Phase 2 ELS- Sheet Piles Installation [33no. x 24m]	9 02-Oct-15 A	14-Jan-16 A	13-Jul-15	22-Jul-15			4-4-4-4-	14
plane of the second	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	6 29-Oct-15 A	04-Jan-16 A	23-Jul-15	29-Jul-15			111	
	Sheet pile completed on Eastbound Carriageway South Side	0	14-Jan-16 A		29-Jul-15			LIF	61
JnR.EBC.SS_0050	Coring for minipile No. 1 to reach -56mPD [60m]	8 18-Jan-16 A	27-Jan-16 A	02-Apr-15	15-Apr-15			HIE	11
JnR.EBC.SS_0060	Installation of Re-Bar for minipile No.1 [4x 60m T50, 3.7Ton]	5 04-Feb-16 A	04-Feb-16 A	16-Apr-15	and the second		1.1.1	1111	11
JnR.EBC.SS_0070	Groutiong for minipile No.1	1 05-Feb-16 A	05-Feb-16 A	22-Apr-15	22-Apr-15			LLLI.	LL.
JnR.EBC.SS 0080	Coring for minipile No. 2 to reach -56mPD [60m]	8 28-Jan-16 A	02-Feb-16 A	16-Apr-15	24-Apr-15			1111	
	Installation of Re-Bar for minipile No.2 [4x 60m T50, 3.7Ton]	5 03-Feb-16 A	04-Feb-16 A	25-Apr-15	30-Apr-15			1111	11
Indexed to be an example of the second se	Groutiong for minipile No.2	1 05-Feb-16 A	05-Feb-16 A	the state of the s	02-May-15			1.11	1
Johnston Road Tram		A CONTRACTOR OF A CONTRACT	NUCLES STORY	CONTRACTOR OF	CALCULATION OF THE	Sec. Sec.		1111	
	Implementation of TTM 3	3 13-Mar-15 A	14-Mar-15 A	30-Mar-15	01-Apr-15			1111	
Comments in the second s	1st layer grouting below tram track (NTH) to -6mPD 28no. 800mm C/C [NTH]	24 15-May-15 A	04-Jun-15 A	02-Apr-15	05-May-15				1
	1st layer of mini piles below tram tracks completed	0	10-Apr-16 A		05-May-15				
	Expose concrete surface by Tramsway Sub-Con	3 16-Mar-15 A	18-Mar-15 A	06-May-15	08-May-15			1111	
	Installation of Steel Beam	4 18-Mar-15 A	24-Apr-15 A	a second control and a second control of the	09-May-15				
and an and a second		4 18-Mai-15 A 4 24-Apr-15 A	24-Apr-15 A	the second	09-May-15			H H	11
	Leveling of steel Beam by Tramsway Sub-Con (NTH)			1					
	Installation of temporary steel decking on tram track	4 25-Apr-15 A	23-May-15 A		09-May-15			$\Pi \Pi$	H
And the second sec	Expose concrete/ fill below tram track [60m^3]	24 25-Apr-15 A	23-May-15 A	11-May-15	and the second sec			1111	11
and the state of t	Installation of Re-bars [Re-Bars 7.6T]	12 27-Apr-15 A	23-May-15 A		23-Jun-15			1111	11
	Concreting for concrete decking below tram track [Concrete 60m^3]	6 28-Apr-15 A	23-May-15 A	24-Jun-15	30-Jun-15			1111	11
JnR.TT_0120	Reinstate the tram track surface	6 25-May-15 A	06-Jun-15 A	02-Jul-15	08-Jul-15			1111	1.1
JnR.TT_0130	Tram track concrete decking & reinstatement works completed ready for Implementation of TTM Stage	4 0	06-Jun-15 A		08-Jul-15			1111	
JnR.TT_0140	2nd layer grouting and pipe piles below tram track to -17mPD (16m) 50no. x 324mm dia. 450mm C/C (2		14-Jul-16	26-Oct-15	07-Nov-15	-191	0		F
	bound carriageway (TTM Stage 5)	a service and the service	the state of the		and the second			1111	11
JnR.WBC_0010	Implementation of TTM Stage 5	3 11-Aug-15 A	12-Aug-15 A		15-Aug-15				
the second se	Trial Trench	12 11-Aug-15 A	18-Aug-15 A	17-Aug-15	29-Aug-15				
and the second se	Phase 2 ELS- Sheet Piles Installation [20no. x 24m]	6 13-Feb-16 A	07-Mar-16 A		05-Sep-15			HIT	
	Curtain Grouting and remedial works for sheet piles not reaching to design toe level	3 22-Feb-16 A	16-Mar-16 A	and the second se	09-Sep-15			111	
	Sheet piles completed on Westbound carriageway	0	16-Mar-16 A		09-Sep-15			1111	
0.1.1.100_0000	Serihates et Liensenie ontrodonal					- He		the fact that	
 Actual Level of Effort 	A Baseline Milestone Contract C6593-13	C Wan Chai Ste	tion Lee	Tung Str.	eet Suhw	av			
				-	cer buby	- J			
Primary Baseline	Milestone	Master Progra	m (Rev.C)						
Actual Work		U							



 JnR.WBC_0070 JnR.WBC_0080 JnR.WBC_0090 JnR.WBC_0100 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road West 	Coring for minipile No. 3 to reach -56mPD [60m] Installation of Re-Bar for minipile No.3 [4x 60m T50, 3.7Ton] Groutiong for minipile No.3	Duration 8		and the second second	Start	Finish	Float	Float	1.6	
 JnR.WBC_0070 JnR.WBC_0080 JnR.WBC_0090 JnR.WBC_0100 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road West 	Installation of Re-Bar for minipile No.3 [4x 60m T50, 3.7Ton]	8					21 194	9	JAS	N
 JnR.WBC_0080 JnR.WBC_0090 JnR.WBC_0100 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road West 			29-Mar-16 A	01-Apr-16 A	17-Aug-15	and a first state of the section Decomposition of the				17
 JnR.WBC_0090 JnR.WBC_0100 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road West 	Groutiona for minipile No.3		15-Apr-16 A	15-Apr-16 A	26-Aug-15					
 JnR.WBC_0100 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road West 			18-Apr-16 A	20-Apr-16 A	01-Sep-15	and the second s				113
 JnR.WBC_0110 JnR.WBC_0120 JnR.WBC_0130 Johnston Road Westl 	Coring for minipile No. 4 to reach -56mPD [60m]		01-Apr-16 A	11-Apr-16 A	26-Aug-15	the second se			1111	
 JnR.WBC_0120 JnR.WBC_0130 Johnston Road Westl 	Installation of Re-Bar for minipile No.4 [4x 60m T50, 3.7Ton]		16-Apr-16 A	16-Apr-16 A	04-Sep-15					1
JnR.WBC_0130	Grouting for minipile No.4		19-Apr-16 A	20-Apr-16 A	10-Sep-15				E E 1 1	11
Johnston Road West	Re-Bar Installation for minipile location		15-Apr-16 A	17-Apr-16 A	11-Sep-15					
	Cast Concrete minipile location	2	20-Apr-16 A	22-Apr-16 A	16-Sep-15	17-Sep-15				
JnR.WBC.ES 0010	bound carriageway East Side (TTM Stage 2A)	2	18 Dec 14 A	20 Dec 14 A	18-Dec-14	20-Dec-14			111	1
	Implementation of TTM Stage 2A		18-Dec-14 A	20-Dec-14 A	and the second s				6114	1
JnR.WBC.ES_0020		No. Contractors	22-Dec-14 A	07-Jan-15 A		07-Jan-15			(11)	1E
	UU diversion on JnR Westbound Carriageway East Side		08-Jan-15 A	04-Feb-15 A	08-Jan-15	04-Feb-15				
	Installation of temporary traffic decking		05-Feb-15 A	07-Feb-15 A	05-Feb-15	07-Feb-15			111	ł
	Traffic decking completed on Westbound Carriageway East Side for TTM Stage 2B	0		07-Feb-15 A		07-Feb-15		-		i i
	bound carriageway West Side (TTM Stage 2B)	-		144 E 1 4E A		44 5-6 45				1
	Implementation of TTM Stage 2B		09-Feb-15 A	11-Feb-15 A	- Alternative Content of the second second	11-Feb-15				1
JnR.WBC.WS_0020			12-Feb-15 A	28-Feb-15 A	12-Feb-15	28-Feb-15				
	UU diversion on JnR Westbound Carriageway West Side		02-Mar-15 A	21-Mar-15 A	02-Mar-15	21-Mar-15				1
Restored in production of the local sectore and the sectore of the sector of the secto	UU diversion on JnR Westbound Carriageway Completed	0		21-Mar-15 A	00.11	21-Mar-15				1
	Installation of temporary traffic decking		23-Mar-15 A	28-Mar-15 A	23-Mar-15	28-Mar-15				R
	Traffic decking completed on Westbound Carriageway West Side for TTM Stage 3	0		28-Mar-15 A		28-Mar-15		-		1
Johnston Road South		3	23-Jun-15 A	23-Jun-15 A	09-Jul-15	11-Jul-15				-
	Implementation of TTM 4		23-Jun-15 A	06-Jul-15 A	13-Jul-15	25-Jul-15			[11]	1
and the second se	Expose UU		23-Jun-15 A	06-Jul-15 A	27-Jul-15	05-Aug-15				1
	UU diversion				27-Jul-15					1
	Phase 2 ELS- Sheet Piles Installation [15no. x 24m]		05-Dec-15 A	15-Dec-15 A		01-Aug-15			H H	1
	Curtain Grouting and remedial works for sheet piles not reaching to design toe level		16-Dec-15 A	24-Dec-15 A	and the second sec	05-Aug-15				
a second s	Installation of Temporary Traffic decking		13-Jan-16 A	25-Jan-16 A	06-Aug-15	12-Aug-15				1
construction of the second	Sheet Piles & Traffic decking completed on South Footpath for TTM Stage 5	0		25-Jan-16 A		12-Aug-15				100
H15 Break Through Wo		2	22-Dec-16	24-Dec-16	13-May-16	17-May-16	-174	0		1
	Installation protection measurement for break through		22-Dec-16	25-Feb-17	18-May-16		-174	0	НH	1
	Breaking out to H15 - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m blocks		04-Jan-17	10-Feb-17	24-May-16		-161	13		-
	Breaking out to H15 - Installation of temporary steel proping		27-Feb-17	11-Mar-17	15-Jul-16	28-Jul-16	-174	0	111	1
the set of second se	Breaking out to H15 - Construct the portal frame		13-Mar-17	14-Mar-17	29-Jul-16	30-Jul-16	-174	0		1
	Demolish the propping steel members	2	13-Wal-17	14-Wal-17	23-301-10	30-30I-10	-17-4	0		1
	A Works, ABWF Works for the New Subway	6	03-May-16 A	09-May-16 A	03-May-16	09-May-16			1111	i.
and a second and weak there and an all the second sec	Preparation works for Fire Shutter on GL-L		19-Dec-16	21-Dec-16	and a statement of the statement of the	12-May-16	-174	0		÷
	Installation of Fire Shutter on GL-L		03-May-16 A	09-May-16 A	03-May-16		-114		1111	1
	Preparation works for Security Shutter on GL-L				and a second	12-May-16	-174	0	1111	1
	Installation of Security Shutter on GL-L		19-Dec-16	21-Dec-16	and the second s	09-May-16	-174	0	111	1
and plant in the control of the second se	Preparation works for Flood Gate on GL-L		03-May-16 A	09-May-16 A		a second s	-174	0		1
and the second se	Installation for Flood Gate on GL-L		19-Dec-16	21-Dec-16	TU-Iviay-10	12-May-16	-174	0		
	Completion of Flood Gate, Fire Shutter & Security Shutter on GL-L	0		21-Dec-16	00.0-1.40	12-May-16		0		
the second se	Remaining ABWF, finishing & Site cleaning works	90	23-Jun-17	09-Oct-17	28-Oct-16	16-Feb-17	-183	0		1
ABWF Works - Degree		72	19-Dec-16	18-Mar-17	03-May-16	28- Jul-16	-183	0		1
	Site Cleaning & dry the internal of Structure & building		19-Dec-16	18-Mar-17	03-May-16	and produce the second s	-183	0		1
	Installation of blockwalls & partition wall except on plant access route		19-Dec-16	18-Mar-17	03-May-16	and a spectrum state of the second state of th	-18	0		
	Apply Plastering, undercoat, painting, floor screeding including plinths and upstands		19-Dec-16	18-Mar-17	03-May-16		-18	0		
	Forming equipment delivery routes and access openings for DC or Interface Contractors			18-Mar-17			-18	0		1
	Install Cast-in items, subframe; Form niches, recesses & box outs; Install cable troughs, ducts & risers		19-Dec-16 19-Dec-16	18-Mar-17 18-Mar-17	03-May-16 03-May-16		-18	0	111	1
and the second se	Preparation, submission and approval of Structure as-built survey			18-Mar-17	03-May-16	and a second	-18	0	111	1
a subscript to be added and the state of the second s	Form Structural & blockwork E&M openings & preparation of survey		19-Dec-16				-18	0		-
	Installation of movement joints & stitch strips		19-Dec-16	18-Mar-17	03-May-16	Contraction (Contraction (Contraction))	-18	0		
and the second se	Form escalator zones & pits complete; survey reference lines for acceptance		19-Dec-16 19-Dec-16	18-Mar-17 18-Mar-17	03-May-16 03-May-16	and a second	-18	0	110	1
the second se	Installation of Earthing mat, earthing rods & earthing pits, test & acceptance							0		11
	Installation of underground pipe work including manholes, ductworks & drawpits	12	19-Dec-16	18-Mar-17	03-May-16	20-JUI-10	-18	0	111	
ABWF Works - Degree	2 Permanent door frames installed with temporary doors & locks	42	20-Mar-17	13-May-17	29-Jul-16	15-Sep-16	-177	0	1-1-1-1	-
	Installation of Floor finishes & wall tilling in plant rooms for Designated Contractors		03-Apr-17	20-May-17	12-Aug-16	23-Sep-16	-183	0		1
	Installation of Floor Infishes & wait filling in plant rooms for Designated Contractors		20-Mar-17	01-Apr-17	29-Jul-16	11-Aug-16	-183	0	(11)	1
	Install Glazing & Balustrade support Install Metal staircases, cat-ladders & catwalks		20-Mar-17	13-May-17	29-Jul-16	15-Sep-16	-180	0		
and the interest of the second s	Install External louvers		20-Mar-17	13-May-17	29-Jul-16	15-Sep-16	-180	0	1111	
ABWF.D2_0050		74	20 110 11	To may 11	20 001 10	10 000 10	100	٩L	<u></u>	-
Actual Level of Effort	A Baseline Milestone Contract C6593-130	C Wan	Chai Sta	tion Lee 7	Fung Str	eet Subw	av			
 Primary Baseline 	Milestone				-					
		Maste	r Progra	m (Rev.C)						
Actual Work				pdated Ending						



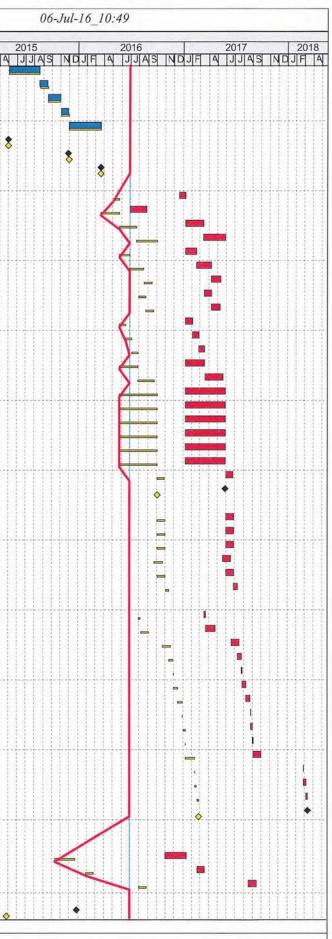
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	hers Major building service equipments & materials - Factory acceptance testing	24 20-Aug-15 A	16-Sep-15 A	20-Aug-15	16-Sep-15						1 11111	111111111	1111
	hers Major building service equipments & materials - Remedial works (If require)	36 17-Sep-15 A	31-Oct-15 A	17-Sep-15	31-Oct-15					11111	1 11111		HII
	hers Major building service equipments & materials - Factory acceptance (If require)	24 02-Nov-15 A	18-Nov-15 A	02-Nov-15				111111			1 11111	11111111	III.
	hers Major building service equipments & materials - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16				1111111				
 Interview in the second se	r Handling Unit - Place Order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15	02-May-15			1111		11111			1111
BS.PD_0090 Air H	r Handling Unit - Manufacture & fabrication	90 04-May-15 A	19-Aug-15 A	04-May-15	19-Aug-15								HLL.
	r Handling Unit - Factory acceptance testing	24 20-Aug-15 A		20-Aug-15				THEFT			1 11111		HIL
	r Handling Unit - Remedial works (If require)	36 17-Sep-15 A	and the state of the particular state of the	17-Sep-15							1 1 1 1 1 1		
	r Handling Unit - Factory acceptance testing (If require)	24 02-Nov-15 A	28-Nov-15 A	02-Nov-15				TTTTTT	TEP EP			1111111111	TIT
	r Handling Unit - Delivery to site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	the standard sector in the sector sector is a sector of the sector sector is a sector sec						1 11111	111111111	1111
	line Centrifugal Fan - Place Order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15	a strate to send the first of the								
	line Centrifugal Fan - Manufacture & fabrication	90 04-May-15 A		04-May-15									1111
	line Centrifugal Fan - Factory acceptance testing		and the second se	20-Aug-15				111111					1111
	line Centrifugal Fan - Remedial works (If require)	36 17-Sep-15 A		17-Sep-15	and the second sec		1	TTTTT		TTTTT	TITT	TTTTTT	TTT
	line Centrifugal Fan - Factory acceptance testing (If require)	24 02-Nov-15 A	28-Nov-15 A	02-Nov-15			-	111111					1111
	line Centrifugal Fan - Delivery to Site/ ECS Room	90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	the state of the second se			111111			1 11111	11111111	1111
	noke Extraction Fan - Place Order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15	and the same state and t								1111
	noke Extraction Fan - Manufacture & fabrication	90 04-May-15 A		04-May-15						41444	11111		1111
	noke Extraction Fan - Factory acceptance testing	24 20-Aug-15 A	the second s	20-Aug-15	I the second s								+++++
	noke Extraction Fan - Remedial works (If require)	36 17-Sep-15 A		17-Sep-15	and the second se				111117		1 11111	IIIIIIIII	1111
				02-Nov-15	and the second se								
	noke Extraction Fan - Factory acceptance testing (If require)	24 02-Nov-15 A 90 30-Nov-15 A	19-Mar-16 A	30-Nov-15	and another a work, we shall not shall be for the set of the set				11111111		1 1 1 1 1 1	111111111	1141
	noke Extraction Fan - Delivery to site/ ECS Room	the second s	and the second sec	the second s	and the second sec								HH
and a second state and the sec	n Coil Unit - Place order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15							· • • • • • • • • • • • • • • • • • • •		
	n Coil Unit - Manufacture & fabrication	90 04-May-15 A		04-May-15									
	In Coil Unit - Factory acceptance testing	24 20-Aug-15 A	the second	20-Aug-15									1111
	n Coil Unit - Remedial works (If require)	36 17-Sep-15 A	and the second se	17-Sep-15									
	In Coil Unit - Factory acceptance testing (If require)	24 02-Nov-15 A	and the second s	02-Nov-15	and the second			111111	1111111			THEFT	
	In Coil Unit - Delivery to site/ ECS Room	90 30-Nov-15 A	and the second se	30-Nov-15							+++++++++++++++++++++++++++++++++++++++	41414444	++++
BS.PD_0320 Moto	otorized Smoke & Fire damper - Place order	95 03-Jan-15 A	05-Jan-15 A	03-Jan-15	02-May-15					413.113		<u>aria (111)</u>	1111

Remaining Work

Critical Remaining Work

Progress vs Program (Updated Ending Jun'16)

vity ID	Activity Name	Original	Start	Finish	BL Project	BL Project	Total	Free Float	014
		Duration			Start	Finish	Float	Float	JJAS ND
BS.PD_0330	Motorized Smoke & Fire damper - Manufacture & fabrication		04-May-15 A	19-Aug-15 A	04-May-15	a construction of the other is the second			
BS.PD_0340 BS.PD 0350	Motorized Smoke & Fire damper - Factory acceptance testing Motorized Smoke & Fire damper - Remedial works (If require)		20-Aug-15 A 17-Sep-15 A	16-Sep-15 A 31-Oct-15 A	20-Aug-15 17-Sep-15	16-Sep-15			
BS.PD_0360	Motorized Smoke & Fire damper - Factory acceptance testing (If require)		02-Nov-15 A	28-Nov-15 A	02-Nov-15				
BS.PD 0370	Motorized Smoke & Fire damper - Delivery to site/ ECS Room		30-Nov-15 A	19-Mar-16 A	30-Nov-15	19-Mar-16			
BS.PD_0380	All Major equipment BS equipment & materials - Completed placing orders	0		02-May-15 A		02-May-15			
BS.PD_0390	All Major equipment BS equipment & materials - Completed all factory acceptance testing	0		28-Nov-15 A		28-Nov-15			
BS.PD_0400	All Major equipment BS equipment & materials - Completed delivery to ECS room	0		19-Mar-16 A		19-Mar-16			
Installation of Buil		0		-		Concernant of the			
BS.I_0009	Installation of trucking, cable for the whole subway linking between H15 and WAC station		19-Dec-16	10-Jan-17	03-May-16	the second	-191	0	HITE
BS.I_0010	Electrical - Within Stn, Distribution equip. 16 nr, cable tray & trunk 420m, lighting fitting 81nr, earthing tar		30-Jun-16	26-Aug-16	the second se	23-May-16	-80	111	
BS.1_0020	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr		11-Jan-17	13-Mar-17	24-May-16 23-Jul-16	03-Oct-16	-191 -191	0	
BS.I_0030 BS.I_0040	Electrical - Subway, D.eq.82nr, cable tray&trunk 803m, cable 2200m, light fit 91nr, earth 170m, sign 42nr. ECS - Within WAC Stn, Grille 6 nr, air duct 115m2, damper 7 nr.		14-Mar-17 11-Jan-17	29-May-17 17-Feb-17	23-Jul-16 24-May-16		-191	0	
BS.1 0050	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, damper 36nr, control 4r		18-Feb-17	08-Apr-17		17-Aug-16	-177	0	++++++
BS.1 0060	ECS - Subway, Pipe/insul.75m, fan 12nr, grille 45nr, airduct 1106m2, paint 60m2, damper 36nr, control 4r		10-Apr-17	12-May-17	18-Aug-16	and the second part of the second sec	-177	14	
BS.I 0070	FS Works - Within H15, Pipe 59m, dectector 7 nr, hose reel 1 nr		15-Mar-17	08-Apr-17	01-Aug-16	and the second day where the second day is a second day of the sec	-174	0	
BS.I 0080	FS Works - Subway, Pipe 155m, valve 2 nr, detectors 38 nr, hose reel 1 nr, fire extinguisher 4 nr, connec		10-Apr-17	09-May-17	the second se	19-Sep-16	-174	17	
BS.I 0090	Drainage System - Waste - Existing WSC Stn, 35 m pipe, 2 valve, 4 pit, 1 switch/ control panel, 1 power	and it is not seen to be a set of the second s	11-Jan-17	03-Feb-17	24-May-16		-136	0	
BS.I_0100	Drainage System - Waste - Subway, Pipe DI/CI 257+18m, 7 joint, 6 OTC	18	04-Feb-17	24-Feb-17	15-Jun-16	06-Jul-16	-136	0	111131
BS.I_0110	Drainage System - Rainwater Discharge, CI pipe, 8+18m above/below ground, 2 manholes	18	25-Feb-17	17-Mar-17	07-Jul-16	27-Jul-16	-136	0	
BS.I_0120	Cleansing Water System - Within WAC Station, 137m copper pipe, 3 gate valve, 2 stopcock, 2 water me	54	11-Jan-17	17-Mar-17	24-May-16	27-Jul-16	-184	0	
BS.I_0130	Cleansing Water System - Subway, 87m copper pipe, 1 gate valve, 1 joint	48	18-Mar-17	19-May-17	28-Jul-16	22-Sep-16	-184	0	
BS.I_0140	Installation of Air Handling Unit	1. 3.7.	11-Jan-17	29-May-17	24-May-16		-191	0	
BS.I_0150	Installation of In-line Centrifugal Fan		11-Jan-17	29-May-17	24-May-16		-191	0	
BS.I_0160	Installation of Smoke Extraction Fan	-	11-Jan-17	29-May-17	24-May-16	and the second	-191	0	
BS.I_0170	Installation of Fan Coil Unit		11-Jan-17	29-May-17	24-May-16 24-May-16		-191 -191	0	
BS.I_0180 BS.I_0190	Installation of Motorized Smoke & Fire damper Installation & integration of control system		11-Jan-17 11-Jan-17	29-May-17 29-May-17	24-May-16		-191	0	HHH
BS.I_0200	Remaining BS Works	and the second se	31-May-17	23-Jun-17	04-Oct-16	28-Oct-16	-188	3	+++++++++++++++++++++++++++++++++++++++
INF.SAMSp	Interface Access for SAMS, Comms, MCS to All Areas, All Levels and Locations (10-Oct'16)	0	ST-Way-T	29-May-17	04-001-10	03-Oct-16	-92	0	HEELE
Testing and Comm				Lo may 11	1		UL.		
BS.TC 0010	T&C ECS - Tests on Ventilation Fans, Air Balancing, Equipment & System, Control, Noise & Sound, etc.	24	31-May-17	27-Jun-17	04-Oct-16	01-Nov-16	-191	0	
BS.TC 0020	T&C - SAT of HV Sw Boards/ TX, LV Sw Boards & MCC, Lighting Control, etc.		31-May-17	27-Jun-17	04-Oct-16	01-Nov-16	-191	0	HHH
BS.TC_0030	T&C Fire Services - Performance Test/ FH & HR System/ Auto Fire Alam System		31-May-17	27-Jun-17	04-Oct-16	01-Nov-16	-191	0	
BS.TC_0040	T&C Plumbing and Drainage - P&D Pumps, Control System	24	20-May-17	17-Jun-17	23-Sep-16	22-Oct-16	-184	0	
BS.TC_0050	T&C ELV System - Contol Systems	24	31-May-17	27-Jun-17	04-Oct-16	01-Nov-16	-191	0	
FSI	FSI - Integrated Test	11	28-Jun-17	11-Jul-17	02-Nov-16	14-Nov-16	-191	0	
Statutory Inspection									
BS.SIA_0010	Submit BA14 for completion of breakthrough		15-Mar-17	21-Mar-17	01-Aug-16	06-Aug-16	-44	0	
BS.SIA_0020	BD's acknowledgementletter obtained		22-Mar-17	22-Apr-17		03-Sep-16	-44	274	
BS.SIA_0030 BS.SIA 0040	DSD/ WSD Inspection and Connection Connection for electricity		19-Jun-17 12-Jul-17	17-Jul-17 25-Jul-17	24-Oct-16 15-Nov-16	19-Nov-16 28-Nov-16	-184 -191		
BS.SIA_0040	Submit Form 1 and Form 2		26-Jul-17	26-Jul-17	29-Nov-16	29-Nov-16	-191	0	
BS.SIA_0060	FS Inpection / Re-inspection	10000	27-Jul-17	09-Aug-17		13-Dec-16	-191	0	
BS.SIA_0070	FS Defect Rectification and Approval		11-Aug-17	24-Aug-17	15-Dec-16	30-Dec-16	-191	0	
BS.SIA_0080	Form 3 Obtained		25-Aug-17	25-Aug-17	31-Dec-16	31-Dec-16	-191	0	
BS.SIA_0090	BD Inpection/ Re-inspection		26-Aug-17	01-Sep-17	03-Jan-17	09-Jan-17	-191	0	
BS.SIA 0100	EMSD-RB Pre-Inspection by MTRC Ops Team		02-Sep-17	02-Sep-17	10-Jan-17	10-Jan-17	-191	0	
BS.SIA_0110	Remedial Works	1	04-Sep-17	30-Sep-17	11-Jan-17	10-Feb-17	-191	118	
BS.SIA_0120	EMSD-RB Formal Inspection	1	27-Feb-18	27-Feb-18	11-Feb-17	11-Feb-17	-309	0	
BS.SIA_0130	Remedial Works & Re-Inspection (If Require)	6	28-Feb-18	06-Mar-18	13-Feb-17	18-Feb-17	-309	0	
BS.SIA_0140	EMSD Letter of "No Objection" Obtained/ Ready to Open	6	07-Mar-18	13-Mar-18	20-Feb-17	25-Feb-17	-309	0	
BS.SIA_Comp	Complete & pass all statutory, joint Inspection & handover to Operation Team for the BS of new Subway-	0		13-Mar-18	_	25-Feb-17	-380	0	
D: WAC Modific	ation Works (Part B Works)								
WAC Station Modi	fication Works								
WMW_0010	Install New Telephone Booth and associated works (NTH)	60	01-Nov-16	12-Jan-17	12-Oct-15	21-Dec-15	-280	30	
WMW_0020	Relocate 4 Advertising Panels (NTH)		21-Feb-17	16-Mar-17		25-Feb-16	-291	0	
WMW_0030	Finishing, Remedial works & site cleaning	24	17-Aug-17	13-Sep-17	01-Aug-16	27-Aug-16	-309	0	
AFC Audit Room	Interface Access for AEC, CR C DC is new AEC Audit Deep inside MAC, Conserved Level /2 Mar (45)	0		00 Dec 45 A		05 4 - 45			HHH
INF.AFCp	Interface Access for AFC, C&C DC in new AFC Audit Room inside WAC, Concourse Level (3-May'15)	0		28-Dec-15 A		25-Apr-15		L	1111111
Actual Level of Effo	rt A Baseline Milestone Contract C6593-130	Wan	Chai Sta	tion Lee T	ung Stre	eet Subwa	ay		
Primary Baseline				m (Rev.C)	-				
Actual Work		aster	riogra	(100+.C)					



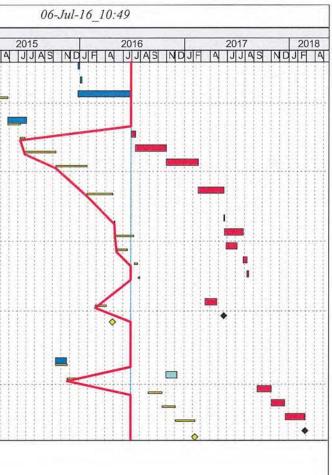
ctivity ID	Activity Name	Original Start Duration	Finish	BL Project Start	BL Project Finish	Total Float	Free Float	014	
WMW.AFC_0010	Preparation works for works in WAC station	10 28-Dec-15 A	02-Jan-16 A	13-Jan-15	23-Jan-15				
WMW.AFC_0020	Internal Hoarding in WAC station (NTH)	12 04-Jan-16 A	09-Jan-16 A	24-Jan-15	06-Feb-15			11111	
WMW.AFC_0030	Construct new AFC/Audit Room next to Entrance B1, B2, ABWF & BS Works (NTH)	60 28-Dec-15 A	30-Jun-16 A	07-Feb-15	25-Apr-15			1111	
Existing AFC Aduit I	Room, Maxim's & Circle K Kiosks								11111
WMW.K_0010	Liaison with MTR/ relevance parties for modification works of existing Kiosks & Audit Room	36 27-Apr-15 A	30-Jun-15 A	27-Apr-15	09-Jun-15			1111	111111
WMW.K_0020	Internal Hoarding in WAC station (NTH)	12 30-Jun-16	14-Jul-16	10-Jun-15	24-Jun-15	-310	0		111111
WMW.K_0030	Modification Works to existing AFC/Audit, Store & Kiosk 3 & 5 (NTH)	90 15-Jul-16	31-Oct-16	25-Jun-15	10-Oct-15	-310	0	1111	111111
WMW.K_0040	Modification to existing Kiosk 2 (NTH)	90 01-Nov-16	20-Feb-17	12-Oct-15	28-Jan-16	-310	0	1111	
HABWF Works & Mi	sc Works							1.111	11111
WMW.ABWF_0010	ABWF - Plaster & titling 29 m2, baffling ceiling 10 m2, metal cladding 9 m2	70 21-Feb-17	19-May-17	29-Jan-16	27-Apr-16	-310	0		Hilli
Breaking Out WAC	Station							1111	11111
WMW.BO_0010	Installation protection measurement for break through	2 20-May-17	22-May-17	03-May-16	04-May-16	-309	0	1111	
WMW.BO_0020	Breaking out WAC Station - Form opening, core holes & wire cut, 60 no. x 0.9m x 0.9m x 1m blocks	54 23-May-17	26-Jul-17	05-May-16	09-Jul-16	-309	0	1111	
WMW.BO_0030	Breaking out WAC Station - Installation of temporary steel proping	30 29-May-17	04-Jul-17	11-May-16	16-Jun-16	-290	19	1111	111111
WMW.BO_0040	Breaking out WAC Station - Construct the portal frame	12 27-Jul-17	09-Aug-17	11-Jul-16	23-Jul-16	-309	0		11111
WMW.BO_0050	Demolish the propping steel members	6 10-Aug-17	16-Aug-17	25-Jul-16	30-Jul-16	-309	0	1111	HIHI
Testing and Comm	issioning								
WMW.C_0010	Testing and Commissioning	30 17-Mar-17	25-Apr-17	26-Feb-16	05-Apr-16	-291	19	1411	
WMW.K_Comp	Specified Part 2B - Complete all works at the 2 new Shop Kiosks and hand over to the Employer - Progra	0	19-May-17		27-Apr-16	-383	0		11111
F WAC Station	Imporvement Works (Part C Works)								
Improvement Work								1111	
WIW 0010	Modify, provide & install new glass barrier to suit new AFC gates (NTH)	34 12-Oct-15 A	20-Nov-15 A	12-Oct-15	20-Nov-15				
WIW 0020	Provide and install additional AFC gates (NTH)	34 01-Nov-16	09-Dec-16	and the second second second	02-Jan-16	61	0	1111	TELL
■ WIW 0030	Provide builder works for TIMS relocation (NTH)	40 14-Sep-17	02-Nov-17	29-Aug-16	17-Oct-16	-309	0	rtttt	THIT
■ WIW 0040	T&C by Designated Contractor for TIMS (NTH)	40 03-Nov-17	19-Dec-17	18-Oct-16	02-Dec-16	-309	0		11111
WIW 0050	Make Good builder works for TIMS (NTH)	53 20-Dec-17	26-Feb-18	and the second state of th	09-Feb-17	-309	0		
WIW Comp	E3- All works in milestone E completed - Programmed	0	26-Feb-18	20 200 10	09-Feb-17	-381	0		

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

Progress vs Program (Updated Ending Jun'16)

Remaining Work
 Critical Remaining Work

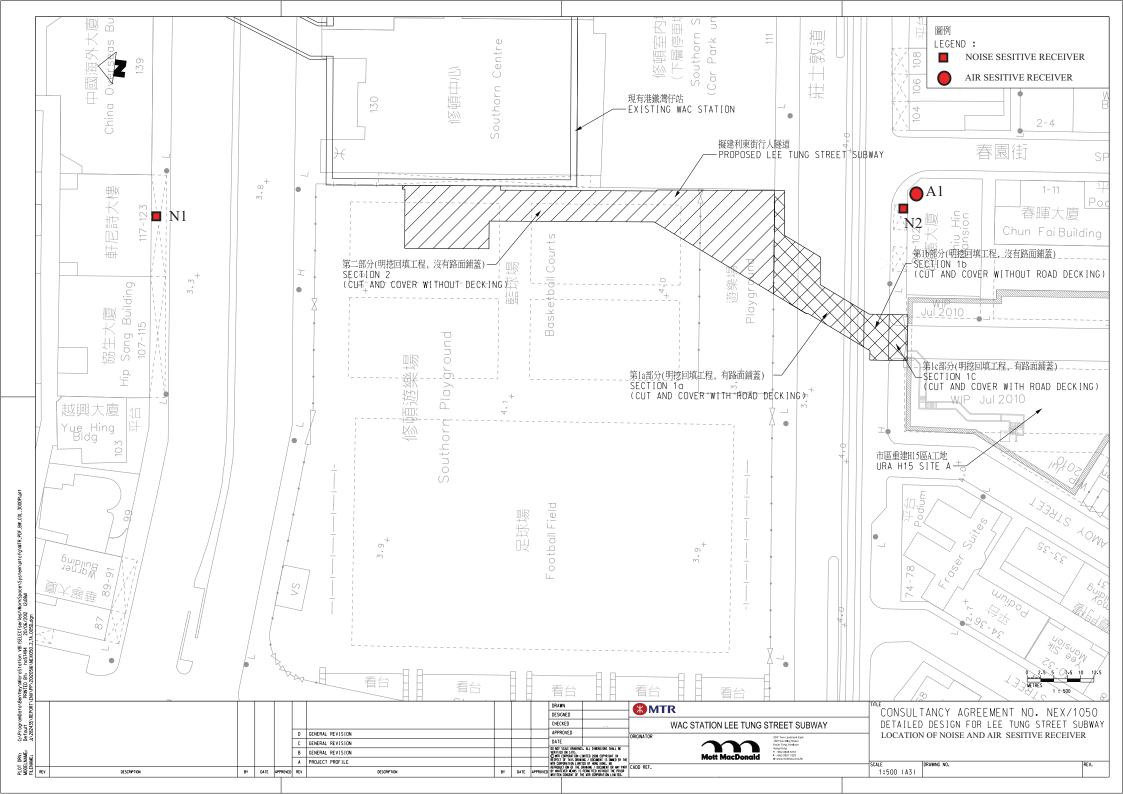
Actual Work





Appendix C

Monitoring Locations





Appendix D

Calibration Certificate of Monitoring Equipment

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :			on							tion: 13-A	-				
Location 1	D :	A1]	Nex			Date: 13-Ju		- .			
						COND			echnic	cian: Mr. 1	lp Ka H	ing			
						COND	1110	JNS							
	Se	a Level I	Pressure	(hPa)		1005.5	;		С	orrected P	ressure	(mm Hø)) 74	54.125	
			erature	. ,		21.8	-		U	Temperature (K)			/	295	
		1					4			Ŧ			<u> </u>		
				С	ALI	BRATI	ON	ORIFICE							
				Make->]			Qstd S	lope ->		2.00		
				Model->									-0.0	3059	
				Serial # ->	161	2									
						CALIB	RA	ΓΙΟΝ							
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι		IC			LINE	EAR			
No.	(in)	(in)	(in)	(m3/min)	(0	(chart) co		orrected		REGRESSION					
18	6.4	6.4	12.8	1.803		52		52.36		S	Slope =	31.353	35		
13	5.2	5.2	10.4	1.627		47		47.33			rcept =				
10	4.3	4.3	8.6	1.481		42		42.29					82		
7	2.8	2.8	5.6	1.198		32		32.22							
5	1.4	1.4	2.8	0.851	ſ	23		23.16							
Calculatio	ons :								F	LOW RAT	E CHA	RT			
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	td)(Tstd	/Ta))-b]		60	.00								
IC = I[Squ	t(Pa/Psto	l)(Tstd/T	a)]										•		
						50	.00						-		
Qstd = sta													Y		
IC = correction		-	es			ට 40	.00					/			
I = actual m = calibi		-				se (I									
b = calibra	-	-	t			noqs									
	-	-		bration (deg	g K	ยั 30 ะ	.00								
				ation (mm]		l cha				~					
						Actual chart response (IC 30 30	.00								
	-			npler flow:		٩									
1/m((I)[S	Sqrt(298/	Tav)(Pav	r/760)]-l))		10	00								
	lon 01					10	.00								
m = samp b = samp	-	ent													
D = samp. I = chart r		υρι				0	.00	000	0.50	0 1	.000	1.500		2.000	
T = chart T Tav = dail	-	e temper	ature				0.0			andard Flow				2.000	
Pav = dail											-	-			
	_ 0	_													

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :			on							ation: 13-					
Location I	D :	A1]	Nex			Date: 13-	-				
									echn	ician: Mr	. Ip Ka	Hing			
						COND	ITIC	DNS							
	Se	a Level I	Draceura	(hD_0)		1005	1		(Corrected	Draceuu	ra (mm]	പ്പ	75	3.75
	30		erature	. ,		29.7	-		C	Corrected Pressure (mm Hg) Temperature (K)			ng)	15	303
		TCIII	Clature	(\mathbf{C})		29.1	1			1011	iperatu	(K)			505
				С	ALI	BRATI	ON	ORIFICE							
				Make->]			Qstd	Slope -	·>		2.0041	1
				Model->									-0.030	59	
				Serial # ->	161	.2]								
					(CALIB	RA	ΓΙΟΝ							
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι		IC			LIN	NEAR			
No.	(in)	(in)	(in)	(m3/min)	(0	chart)	СС	orrected			REGR	RESSION	N		
18	6.4	6.4	12.8	1.779		53		51.96			Slope	= 31.	.9402		
13						48		47.06		In	tercept	= -5.	.0608		
10	4.4	4.4	8.8	1.478		43		42.16					.9980		
7	2.8	2.8	5.6	1.182		32		31.37							
5	1.3	1.3	2.6	0.810	r	22		21.57							
Calculatio	ons :									FLOW RA	ATE CH	IART			
Qstd = 1/r		20(Pa/Ps	td)(Tstd	/Ta))-b]		60	.00								ר
IC = I[Sqi				. ,, 1											
						50	.00							/	_
Qstd = sta	ndard flo	ow rate											×		
IC = corrections		-	es			•						1			
I = actual		-				ු 40	.00								
m = calibi	-	-				Actual chart response (IC 00 00 00									
b = calibra	-	-		L	. 17	1 30	.00					•			-
	-		-	bration (deg ation (mm]	- 1	chart									
$r \sin - a \cos \theta$	uai piess		ig canoi		ng	20.	00			*					
For subse	equent ca	alculatio	n of san	npler flow:		Act Act	.00								
1/m((I)[S	-			-											
	1			,		10	.00								-
m = samp	ler slope														
b = samp	ler interc	ept				0	.00								
I = chart r	-					0.		000	0.5	00	1.000	1.5	500	2.	.000
Tav = dail									S	Standard Flo	w Rate (m3/min)			
Pav = dail	y averag	e pressur	e		L										



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		5 Rootsmeter Orifice I.I		438320 1612	Ta (K) - Pa (mm) -	295 745.49
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	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/Ta)	Qa slop intercep coeffici	ot (b) =	1.25494 -0.01933 0.99995 Ta/Pa)1

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

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Certificate No. : C162177 證書編號

號: IC16-0843)	Date of Receipt / 收件日期: 14 April 2016
---------------	---------------------------------------

Description / 儀器名稱 Manufacturer / 製造商 Model No. / 型號 Serial No. / 編號 Supplied By / 委託者

ITEM TESTED / 送檢項目 (Job No. / 序引編 Integrating Sound Level Meter (EQ006) Brüel & Kjær 2238 2285762 Action-United Environmental Services and Consulting

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

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 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 chnical Officer			
Certified By 核證	: Pr	K C Lee oject Engineer	Date of Issue 簽發日期	ł	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

本證書所載按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 原創工程有限公司 - 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



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 CL280 CL281 <u>Description</u> 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator Certificate No. C160077 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 Setting Applied Value					UUT
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
50 - 130	LAFP	A	F	94.00	1	94.2

6.1.1.2 After Self-calibration

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

6.1.2 Linearity

	UUT	Γ Setting		Applied Value		UUT	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (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.

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 e/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 e/o 香港新界屯門與安里一號背山灣機機四樓 Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: eallab@suncreation.com Website/網址: www.suncreation.com

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			Applied Value		UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec. (dB)
50 - 130	LAFP	A	F	94.00	1	94.0	Ref.
	LASP		S		100	94.0	± 0.1
	L _{AIP}		I			94.1	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting			Applied Value		UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration	Reading (dB)	Type 1 Spec. (dB)
30 - 110	LAFP	A	F	106.0	Continuous	106.0	Ref.
	LAFMax				200 ms	105.0	-1.0 ± 1.0
	LASP		S		Continuous	106.0	Ref.
	L _{ASMax}		1		500 ms	102.0	-4.1 ± 1.0

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appli	ed Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	LAFP	А	F	94.00	31.5 Hz	55.1	-39.4 ± 1.5
	-011			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)

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

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

	UUT Setting		Appli	ed Value	UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	L _{CFP}	C	F	94.00	31.5 Hz	91.5	-3.0 ± 1.5
	CIT			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

	บบา	Setting		Applied Value			Applied Value UU7		UUT	IEC 60804
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
30 - 110 L _{Acq}	A 10 sec.	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5	
				1/102		90	89.9	±0.5		
		1.1.1	60 sec.			1/103		80	79.2	± 1.0
		· · ·	5 min.	L		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	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	12.5 kHz	: ± 0.70 dB
	104 dB : 1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
		$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

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

Note :

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

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

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Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C162125 證書編號

Date of Receipt / 收件日期: 14 April 2016

ITEM TESTED / 送檢項目

(Job No. / 序引編號: IC16-0843)

Description / 儀器名稱 : Manufacturer / 製造商 : Model No. / 型號 : Serial No. / 編號 : Supplied By / 委託者 : Acoustical Calibrator (EQ082) Brüel & Kjær 4231

2713428 Action-United Environmental Services and Consulting Unit A, 20/F., Gold King Industrial Building,

35-41 Tai Lin Pai Road, Kwai Chung, N.T.

TEST CONDITIONS / 測試條件

Temperature / 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 2016

TEST RESULTS / 測試結果

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

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

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

Tested By 測試

H T Wong

Technical Officer

K C/Lee Project Engineer

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.

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



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C 證書編號

- C162125
- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A DescriptionCertificate No.Universal CounterC153519Multifunction Acoustic CalibratorPA160023Measuring AmplifierC161175

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

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

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.

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Appendix E

HOKLAS-Accreditation Certificate of the Testing Laboratory



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

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

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

HOKLAS Accredited Laboratory

「香港實驗所認可計劃」認可實驗所

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

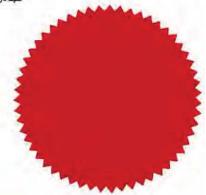
Environmental Testing 環境測試

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

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

CHAN Sing Sing, Terence, Executive Administrator 執行幹事 陳成城 Issue Date : 5 May 2009 簽發日期:二零零九年五月五日

Registration Number : 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

L 000552



Appendix F

Event and Action Plan



Event and Action Plan for Construction Noise

Essert		Action		
Event	ET	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	-	-
	ET	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 for two or more consecutive samples	 Identify source; 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. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervisor implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial Measure properly implemented. 	 Submit proposals for remedial action to IEC within 3 working days of notification; Implement the agreed proposals; 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
WED	1-JUNE-16		
THU	2-JUNE-16	✓	
Fri	3-JUNE-16		
SAT	4-JUNE-16		
SUN	5-JUNE-16		
Mon	6-JUNE-16		
TUE	7-JUNE-16		✓
WED	8-JUNE-16	✓	
Thu	9-JUNE-16		
Fri	10-JUNE-16		
SAT	11-JUNE-16		
SUN	12-JUNE-16		
Mon	13-JUNE-16		
TUE	14-JUNE-16	✓	\checkmark
WED	15-JUNE-16		
Thu	16-JUNE-16		
Fri	17-JUNE-16		
SAT	18-JUNE-16		
SUN	19-JUNE-16		
Mon	20-JUNE-16	✓	
TUE	21-JUNE-16		\checkmark
WED	22-JUNE-16		
THU	23-JUNE-16		
Fri	24-JUNE-16		
SAT	25-JUNE-16	✓	
SUN	26-JUNE-16		
Mon	27-JUNE-16		
TUE	28-JUNE-16		✓
WED	29-JUNE-16		
Thu	30-JUNE-16	✓	

Monitoring Schedule in the Reporting Period – June 2016

✓	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



Monitoring Schedule for the Coming Month – July 2016

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

✓	Monitoring Day
	Sunday or Public Holiday

Remarks:

Designated Location for Impact noise measurement:

- N1 Hennessey Building; and
- N2 Chiu Hin Mansion

Designated Location for Impact air quality monitoring

• A1 Chiu Hin Mansion



Appendix H

Database of Monitoring Results



Result of 24-hour TSP Monitoring

Location: A	Location: A1 (balcony at 1/F of Chiu Hin Mansion)														
	Sampla	E	lapsed Time		Cł	hart Rea	ding	Ave.		Standard			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/m ³)
2-Jun-16	29323	17968.58	17992.27	1421.40	41	42	41.5	29.3	1006	1.44	2054	2.8569	2.8997	0.0428	21
8-Jun-16	29594	17992.27	18016.58	1458.60	42	43	42.5	27.1	1006.6	1.48	2161	2.8022	2.8597	0.0575	27
14-Jun-16	29282	18016.58	18040.38	1428.00	40	41	40.5	29.2	1004.2	1.41	2019	2.8559	2.8045	0.0486	24
20-Jun-16	29616	18040.38	18064.47	1445.40	38	39	38.5	28.5	1005.8	1.35	1958	2.8028	2.8536	0.0508	26
25-Jun-16	29476	18064.47	18088.28	1428.60	42	42	42.0	31.4	1008.9	1.46	2084	2.8288	2.8812	0.0524	25
30-Jun-16	29586	18088.28	18112.36	1444.80	41	44	42.5	30	1010.3	1.48	2136	2.7803	2.8182	0.0379	18

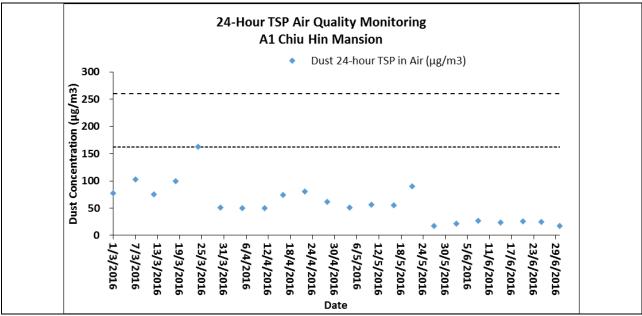


Appendix I

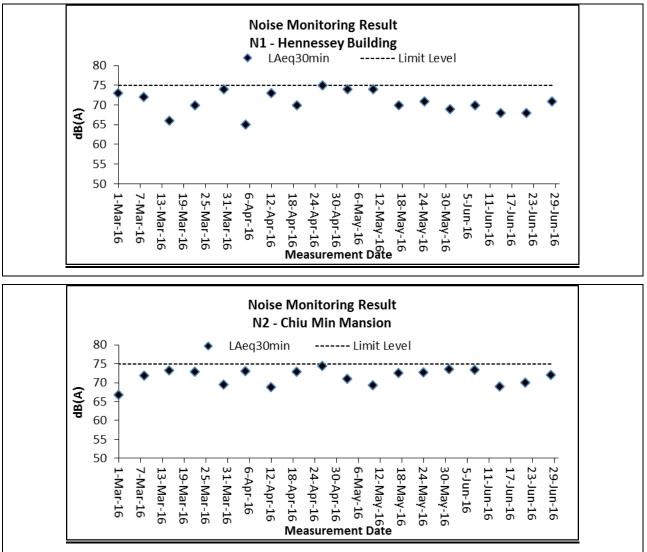
Graphical Plots



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-Jun-16	Wed	Hot with sunny periods and a few showers	0	29.8	10	81.5	W			
2-Jun-16	Thu	Moderate southeasterly winds	0	30.4	9	78.7	W/NW			
3-Jun-16	Fri	Moderate south to southwesterly winds	Trace	30.7	10.8	79.5	W/NW			
4-Jun-16	Sat	Hot with sunny periods and a few showers	12.4	28.9	9.2	80.3	W/NW			
5-Jun-16	Sun	Moderate southeasterly winds	7.6	27.4	10	81	W/NW			
6-Jun-16	Mon	Moderate south to southwesterly winds	77.6	26.3	8.6	87	E/NE			
7-Jun-16	Tue	Mainly cloudy with isolated heavy showers and squally thunderstorms.	0.4	28.4	7.7	84	E/SE			
8-Jun-16	Wed	Cloudy with showers and a few squally thunderstorms.	46.5	26.9	8.2	85.7	E/SE			
9-Jun-16	Thu	Moderate south to southwesterly winds	Trace	28.6	9.2	82.2	SE			
10-Jun-16	Fri	Hot with sunny periods and a few showers	9.1	28.7	7.8	83.7	E/SE			
11-Jun-16	Sat	Moderate southeasterly winds	85.5	26.1	7.5	85.3	W/NW			
12-Jun-16	Sun	Moderate south to southwesterly winds	28.2	26.8	6.5	92.2	W/NW			
13-Jun-16	Mon	Hot with sunny periods and a few showers	0.1	29.8	7.5	84.7	W/NW			
14-Jun-16	Tue	Moderate southeasterly winds	Trace	30.4	8.7	80.7	W/SW			
15-Jun-16	Wed	Moderate south to southwesterly winds	0.6	29.9	9.9	80.5	SW			
16-Jun-16	Thu	Mainly cloudy with isolated heavy showers and squally thunderstorms.	2.8	29.3	8.5	83.2	W			
17-Jun-16	Fri	Cloudy with showers and a few squally thunderstorms.	2.5	29.6	10	81.5	W/NW			
18-Jun-16	Sat	Moderate south to southwesterly winds	13.1	29.1	9.5	78	E/SE			
19-Jun-16	Sun	Hot with sunny periods and a few showers	0	29.8	8.5	75.5	E/SE			
20-Jun-16	Mon	Moderate southeasterly winds	Trace	30.7	7.3	76.2	S/SE			
21-Jun-16	Tue	Moderate south to southwesterly winds	0	30.5	7.2	73.2	S/SE			
22-Jun-16	Wed	Hot with sunny periods and a few showers	0	30.1	9.1	75.5	W/NW			
23-Jun-16	Thu	Moderate southeasterly winds	0	30.1	7.6	70.5	W/NW			
24-Jun-16	Fri	Moderate south to southwesterly winds	0	30.8	8.2	69	W/NW			
25-Jun-16	Sat	Mainly cloudy with isolated heavy showers and squally thunderstorms.	0	31.1	8	70.3	E/SE			
26-Jun-16	Sun	Cloudy with showers and a few squally thunderstorms.	Trace	30.9	7.3	71.7	E/SE			
27-Jun-16	Mon	Moderate south to southwesterly winds	1.7	30.9	9	74.7	SE			
28-Jun-16	Tue	Hot with sunny periods and a few showers	37.1	28.6	11.2	83.2	W/NW			
30-Jun-16	Thu	Hot with sunny periods and a few showers	1.8	29.5	10	82.7	SE			
1-Jun-16	Wed	Hot with sunny periods and a few showers	0	29.7	8.7	81	S/SW			



Appendix K

Monthly Summary Waste Flow Table

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

Monthly Summary Waste Flow Table for 2016

Name of Emp	oloyer: MTR Co	rporation Limit	ed													Contract No.:	C65931-13C			
			ı.	Actual Quantitie	es of Inert C&D	Materials Ger	nerated Month	ly			Actual Quantities of Non-Inert C&D Wastes Generated Monthly Actual Quantities of Non-Inert C&D Wastes Generated Monthly						ed 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 m ³)	(in m ³)	(in m³)	(in m ³)	(in m ³)	(in m ³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m³)	(in m ³)	(in m3/ Litre)	(in m ³)	(in ton)	(in ton)	(in ton)	(in Litre)	(in ton)
Jan	0.01559	0	0	0	0	0	0	0	0.01559	0	0	0	0	0	0.001	0	0	0	0	0
Feb	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0.007	0	0	0	0	0
Mar	0.03685	0	0	0	0	0	0	0	0.03685	0	0	0	0	0	0.001	0	0	0	0	0
Apr	0.03399	0	0	0	0	0	0	0	0.03399	0	0	0	0	0	0.001	0	0	0	1.2	0
May	0.09171	0	0	0	0	0	0	0	0.09171	0	0	0	0	0	0.001	0	0	0	0	0
Jun	0.90981	0	0	0	0	0	0	0	0.90981	0	0	0	0	0	0.001	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Dec	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Total	1.09495	0	0	0	0	0	0	0	1.08795	0	0	0	0	0	0.012	0	0	0	1.2	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	PACT					
S.5.1.1	Use of quieter plant	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93 and Noise Control Ordinance
S.5.1.1	 <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; noise enclosure is proposed to be built after open excavation in order to a stationary provide the provided the provide the provide the provided the p	To minimize construction noise emissions	Contractor	Work site	Construction Stage	ProPECC PN2/93, Noise Control Ordinance and EIAO Guidance Note NO. 9/2010
	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	I			I	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					
8.5.1.3	 <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	ANAGEMENT					
S.5.1.4	Construction Waste Management Measures	To adopt waste	Contractor	Work site	Construction	Waste Disposal
	• Scrap metals or abandoned equipment should be recycled if possible;	management measures in the way			Stage	Ordinance (Cap. 354); Waste
	• Waste arising should be kept to a minimum and be handled, transported and disposed of in a suitable manner;	of avoiding, minimizing, reusing				Disposal (Chemical Waste) (General)
	• 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;	and recycling so as to reduce waste generation				Regulation; DEVB TCW No. 6/2010; ETWB TCW No. 19/2005.
	• Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes; and					



Project Profile Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
	• All general refuse should be segregated and stored in enclosed bins or compaction units and waste separation facilities for paper, aluminum cans, plastic bottles etc. should be provided to facilitate reuse or recycling of materials and their proper disposal.					
LANDSCA	PE AND VISUAL IMPACT					
S.5.1.5	 Landscape and Visual Measures Clear demarcation of works area to prevent damages to existing trees in close proximity; 	To reduce landscape and visual impact by construction works.	Contractor	Work Site and nearby playground	Construction Stage	EIAO; ETWB TCW No. 3/2006.
	• Protection of all trees planned to be retained onsite;					
	• 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.					