CONTRACT NO: HK/2011/07

WANCHAI DEVELOPMENT PHASE II AND CENTRAL
WANCHAI BYPASS
SAMPLING, FIELD MEASUREMENT AND TESTING WORK
(STAGE 2)

ENVIRONMENTAL PERMIT NO. EP- 416/2011 AND FEP- 01/416/2011

SHATIN TO CENTRAL LINK (SCL) PROTECTION WORKS AT CAUSEWAY BAY TYPHOON SHELTER (CBTS)

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

- JUNE 2015 TO SEPTEMBER 2015 -

CLIENTS:

Civil Engineering and Development Department

and

**Highways Department** 

PREPARED BY:

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CHECKED BY:

Raymond Dai

Environmental Team Leader

DATE:

29 September 2015



Ref.: AACWBIECEM00\_0\_7198L.15

29 September 2015

By Post and Fax (2691 2649)

AECOM Asia Company Limited 11/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong

Attention: Mr. Conrad Ng

Dear Mr. Ng,

Re: Contract No. HK/2011/07

Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

Quarterly Environmental Monitoring and Audit Report (June to September 2015) for EP-416/2011

Reference is made to the Environmental Team's submission of the captioned Final Environmental Monitoring and Audit (EM&A) Report received by e-mail on 29 September 2015 afternoon.

Please be informed that we have no adverse comment on the captioned submission.

Should you have any queries, please do not hesitate to contact the undersigned.

Yours sincerely,

David Yeung

Independent Environmental Checker

C.C. HyD Mr. Cyrus Wong by fax: 2761 1508 HyD Mr. Bond Chow by fax: 2714 5289 by fax: 2577 5040 Mr. Stephen Lo CEDD AECOM Mr. Peter Poon by fax: 3912 3010 Mr. Frankie Fan by fax: 2587 1877 AECOM by fax: 2993 7577 MTRCL Mr. Richard Kwan by fax: 2882 3331 Lam Mr. Raymond Dai

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#### **EXECUTIVE SUMMARY**

- i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report June 2015 to September 2015 prepared for the Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter (CBTS) under Environmental Permit no. EP-416/2011 and Further Environmental Permit no. FEP-01/416/2011. The proposed termination of the Environmental Monitoring and Auditing Programme has been approved by the EPD on 22 September 2015 and this report serve as the last quarterly report to present the environmental monitoring and audit findings and information during the period from 28 May 2015 to 22 September 2015.
- Application for surrender of FEP-01/416/2011 was submitted to EPD on 26 June 2015. EPD letter on acknowledgement of FEP-01/416/2011 surrender application was issued to MTRC on 3 August 2015.

#### Construction Activities for the Reported Period

iii. During this reporting period, the principle work activities are summarized as below:

# Table I Principle Work Activities for this reporting period

	June 2015	July 2015	August 2015	September 2015
•	Nil	• Nil	• Nil	• Nil

#### Noise Monitoring

- iv. Noise monitoring during daytime was conducted at M2b Noon-day gun area on a weekly basis.
- v. No exceedance was recorded in the reporting period.

# Air Quality Monitoring

- vi. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA3a CWB PRE Site Office Area.
- vii. No exceedance was recorded in the reporting period.

#### Water Quality Monitoring

- viii. Water quality monitoring at C7 was conducted three days per week during the reporting period.
- ix. As confirmed by the CWB RSS, the marine based construction activities under Further Environmental Permit FEP-01/416/2011 have been completed by 9 April 2015. The post construction water quality monitoring was commenced in accordance with condition 2.26 in the approved EM&A manual from 11 April 2015 to 11 May 2015 for four weeks period to confirm for the post construction water quality.
- x. No action or limit level exceedance was recorded during the post construction water quality monitoring period and the post construction water quality monitoring confirmed no deterioration in water quality. The water quality monitoring at the respective monitoring station C7 Windsor House was temporarily suspended from 13 May 2015.



# Complaints, Notifications of Summons and Successful Prosecutions

xi. There was no environmental complaint recorded in the reporting period.



#### 1. INTRODUCTION

#### 1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-416/2011 and Further Environmental permit nos. FEP-01/416/2011 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter (CBTS) (Register No.: AEIAR-159/2011) and in the EM&A Manual of the approved EIA Report for Shatin to Central Link Protection Works at Causeway Bay Typhoon Shelter (Register No. AEIAR-159/2011).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 7.5 of EM&A Manual and Environmental Monitoring and Audit Requirements of Environmental permit nos. EP-416/2011 and Further Environmental permit nos. FEP-01/416/2011.
- 1.1.3. Application for surrender of FEP-01/416/2011 was submitted to EPD on 26 June 2015. EPD letter on acknowledgement of FEP-01/416/2011 surrender application was issued to MTRC on 3 August 2015.
- **1.1.4.** This report documents the finding of EM&A works during the period from 28 May 2015 to 22 September 2015.

# 1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3** *Monitoring Requirements* summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.
- **Section 4** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 5 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- **Section 6** *Complaints, Notification of summons and Prosecution* summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the

concurrent activities of the concurrent Projects.

Section 8 Conclusion

#### 2. PROJECT BACKGROUND

#### 2.1 Background

- 2.1.1. The "Shatin to Central Link Protection Works at Causeway Bay Typhoon Shelter" (hereafter called "the Project") is a Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Shatin to Central Link Protection Works at CBTS (Register No. AEIAR-159/2011) has been approved on 25 Feb 2011.
- 2.1.2. The key purpose of the SCL Protection Works and associated works at CBTS involves the construction of a 160m tunnel box by cut-and-cover method at the crossing above the Central Wan Chai Bypass (CWB) tunnels. Temporary reclamation is required and has been authorized under the Foreshore and Sea-bed (reclamations) Ordinance. With the presence of the Protection Works, future construction of the SCL on both sides of the CWB tunnels is protected and ensured feasible without damaging or unduly affecting the CWB tunnels which could be operational by then. This arrangement will also minimize public nuisance and impact to the surrounding environment as it can reduce the reclamation area for subsequent construction of the SCL after CWB is completed. Nevertheless, the Protection Works cannot serve to function for any railway service or operation before the completion of SCL.
- 2.1.3. The SCL is strategically important for connecting the existing railway lines into an integrated rail network. The east-west connection will allow the set up of a 57km East-West Corridor across the city connecting Wu Kai Sha with Tuen Mun via Kowloon; whilst the north-south connection will operate over a 41km North-South Corridor with services originating in Lok Ma Chau or Lo Wu travelling via the existing East Rail Line (EAL) to Admiralty. This will enable a direct transportation linkage between Mainland China and Hong Kong Island.

#### 2.2 Scope of the Project and Site Description

- 2.2.1. The study area encompasses existing developments in Causeway Bay Typhoon Shelter as shown in *Figure 2.1*. The scope of the Project includes:
  - Temporary reclamation, which occupies about 0.7ha of Government foreshore and sea-bed (of which 0.3ha is already authorized under CWB project, i.e. additional reclamation of 0.4ha is required).
  - Dredging works at the southeast corner of the CBTS to provide space for temporary relocation of anchorage area due to the additional temporary reclamation for the Project.
  - Construction of a section of the twin track railway tunnel structure (approximately 160m long) above the proposed CWB located entirely offshore within the CBTS.
  - Relocation of the temporary Royal Hong Kong Yacht Club (RHKYC) jetty within the CWB temporary reclamation to a new location.
  - Removal of the temporary reclamation, except the small area at the southwest corner
    of the reclamation (which will be removed by the SCL project upon completion of



the future SCL tunnels connecting to the proposed South Ventilation Building (SOV)).

2.2.2. The Project contains Schedule 2 DP that, under the EIAO, requires Environmental Permits (EPs) to be granted by the DEP before they may either be constructed or operated. *Table 2.1* summarises the DP under this Project. *Figure 2.1* shows the location of this Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference	Reason for inclusion
DP1	Temporary reclamation, which occupies about 0.7ha of Government foreshore and sea-bed	Schedule 2, Part I, C.12	A dredging operation which is less than 100m from a seawater intake point

#### 2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department and Highways Department are the overall project controllers for the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.3.2 The proposed project organization and lines of communication with respect to environmental protection works are shown in <u>Figure 2.2</u>. Key personnel and contact particulars are summarized in *Table 2.2*:

Table 2.2 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
MTR Corporation	Permit Holder	Environment Manager	Mr. Richard Kwan	2688 1179	2993 7577
Limited		Environmental Engineer I	Miss. Viola Tong	3127 6296	
		Environmental Engineer II	Mr. Chris Mak	3127 6297	
China State	Contractor	Project Director	Mr. Chris Leung	3557 6393	2566 2192
Construction Engineering (HK) Ltd.	under Contract no. HY/2009/15	Senior Site Manager	Y Huo	3557 6368	2566 2192
		Contractor's Representative	Mr. Gene Cheung	3557 6395	
		Project Manager	Mr. Andrew Wong	3557 6371	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Officer	Mr. Andy Mak	3557 6347	
RAMBOLL ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331
(For Enquiry)					

# 2.4 Principle Work and Activities

2.4.1 During this reporting period, the principle work activities for Contract no. HY/2009/15 are summarized in **Table 2.3**.

Table 2.3 Principle Work Activities for this reporting period

	June 2015		July 2015		August 2015	S	September 2015
•	Nil	•	Nil	•	Nil	•	Nil

2.4.2 Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 2.1*.

#### 3. MONITORING REQUIREMENTS

#### 3.1. Noise Monitoring

#### **NOISE MONITORING STATION**

3.1.1. The noise monitoring station for the Project are listed and shown in *Table 3.1* and *Figure 3.1*.

\*\*Appendix 3.1\* shows the established Action/Limit Levels for the monitoring works.

Table 3.1 Noise Monitoring Station

Station	Description
M2b	Noon Gun Area

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L<sub>10</sub> and L<sub>90</sub> shall also be obtained for reference.
- 3.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.

#### **MONITORING EQUIPMENT**

- 3.1.4. As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters 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. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 3.1.5. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

# 3.2. Air Quality Monitoring

#### AIR QUALITY MONITORING STATION

3.2.1. The air quality monitoring station for the Project is listed and shown in *Table 3.2* and *Figure*3.1. Appendix 3.1 shows the established Action/Limit Levels for the monitoring works.

Table 3.2 Air Quality Monitoring Station

Station ID Monitoring Location		Description
CMA3a	CWB PRE Site Office	Causeway Bay

#### AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels 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.
- 3.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 3.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs
- 3.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
  - 0.6 1.7 m3 per minute adjustable flow range;
  - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
  - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
  - Capable of providing a minimum exposed area of 406 cm2;
  - Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
  - Equipped with a shelter to protect the filter and sampler;
  - Incorporated with an electronic mass flow rate controller or other equivalent devices;
  - Equipped with a flow recorder for continuous monitoring;
  - Provided with a peaked roof inlet;
  - Incorporated with a manometer;
  - Able to hold and seal the filter paper to the sampler housing at horizontal position;
  - · Easily changeable filter; and
  - Capable of operating continuously for a 24-hour period.

3.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

- 3.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 3.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 3.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 3.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.

# 3.3. Water Quality Monitoring

3.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.

# Water Quality Monitoring Station

3.3.2. It is proposed to monitor the water quality at one cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 3.3* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Table 3.3 Marine Water Quality Station for Water Quality Monitoring

Station Ref.	Location	Easting	Northing			
Cooling Water Intake						
C7	Windsor House	837193.7	816150.0			

#### WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.3. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 3.3.4. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

#### SAMPLING PROCEDURES AND MONITORING EQUIPMENT

3.3.5. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 3.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 3.4 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

#### Notes:

- For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

### DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 3.3.6. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
  - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius



- 3.3.7. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 3.3.8. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

#### TURBIDITY MEASUREMENT INSTRUMENT

3.3.9. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

#### **SAMPLER**

3.3.10. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

#### SAMPLE CONTAINER AND STORAGE

3.3.11. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

# WATER DEPTH DETECTOR

3.3.12. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

# **SALINITY**

3.3.13. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

# **MONITORING POSITION EQUIPMENT**

3.3.14. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.



#### CALIBRATION OF IN-SITU INSTRUMENTS

- 3.3.15. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 3.3.16. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 3.3.17. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

#### LABORATORY MEASUREMENT / ANALYSIS

3.3.18. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

#### 4. MONITORING RESULTS

4.0.1. Overall layout showing work areas and monitoring stations are shown in *Figure 2.1* and *Figure 3.1*.

#### 4.1. Noise Monitoring Results

- 4.1.1. The commencement date of dredging work was 25 November 2011. Noise monitoring was commenced on 29 November 2011.
- 4.1.2. The noise monitoring station is shown in *Table 4.1* below:

Table 4.1 Noise Monitoring Station

Station	Description
M2b	Noon Gun Area

- 4.1.3. No exceedance was recorded in the reporting period.
- 4.1.4. Noise monitoring results measured in this reporting period are review and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>4.1</u>.

#### 4.2. Air Quality Monitoring Results

- 4.2.1 The commencement date of dredging work was 25 November 2011. Air quality monitoring was commenced on 25 November 2011.
- 4.2.2 The air quality monitoring stations is shown in *Table 4.2* below.

Table 4.2 Air Quality Monitoring Station

Station	Description
CMA3a	CWB PRE Site Office

- 4.2.3 No exceedance was recorded in the reporting period.
- 4.2.4 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in <u>Appendix 4.2</u>.

### 4.3. Water Monitoring Results

4.3.1 The commencement date of dredging work was 25 November 2011. Water quality monitoring was commenced on 25 November 2011. The water quality monitoring station is summarized in *Table 4.3* below:

Table 4.3 Water Monitoring Station

Station Ref. Location		Easting	Northing		
Cooling Water Intake					
C7	Windsor House	837193.7	816150.0		

- 4.3.2 As confirmed by the CWB RSS, the marine based construction activities under Further Environmental Permit FEP-01/416/2011 have been completed by 9 April 2015. The post construction water quality monitoring was commenced in accordance with condition 2.26 in the approved EM&A manual from 11 April 2015 to 11 May 2015 for four weeks period to confirm for the post construction water quality.
- 4.3.3 No action or limit level exceedance was recorded during the post construction water quality monitoring period and the post construction water quality monitoring confirmed no deterioration in water quality. The water quality monitoring at the respective monitoring station C7 Windsor House was temporarily suspended from 13 May 2015.



# 4.4 Waste Monitoring Results

4.4.1 Inert C&D waste was disposed & no Non-inert C&D wastes were disposed of in this reporting period. Details of the waste flow table are summarized in *Table 4.4* 

Table 4.4 Details of Waste Disposal

Waste Type*	Quantity this Quarter, m <sup>3</sup>	Cumulative-to- Date, m <sup>3</sup>	Location of Disposal
Inert C&D materials	NIL	32,670	TM38
disposed, m <sup>3</sup>	NIL	6,267	TKO137
	NIL	25,395.7	TS2
	NIL	1,228	WDII
Inert C&D materials recycled, m <sup>3</sup>	NIL	1416	Lun Ku Tan
rooyoloa, m	NIL	352	WENT Landfill
	NIL	1,049	HY/2011/03 (HZM)
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Chemical waste disposed, kg	NIL	NIL	N/A
Marine Sediment (Type	NIL	10,640	Cheung Chau South
1 – Open Sea Disposal), m <sup>3</sup>	(Bulk Volume)	(Bulk Volume)	
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL (Bulk Volume)	7,500 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in geosynthetic Containers), m <sup>3</sup>	NIL	NIL	N/A

4.4.2 There were no marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in the reporting period.

#### 5. COMPLIANCE AUDIT

5.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 5.1*.

# 5.1. Noise Monitoring

5.1.1. No exceedance was recorded in the reporting period.

#### 5.2. Air Quality Monitoring

5.2.1. No exceedance was recorded in the reporting period.

## 5.3. Water Quality Monitoring

- 5.3.1. As confirmed by the CWB RSS, the marine based construction activities under Further Environmental Permit FEP-01/416/2011 have been completed by 9 April 2015. The post construction water quality monitoring was commenced in accordance with condition 2.26 in the approved EM&A manual from 11 April 2015 to 11 May 2015 for four weeks period to confirm for the post construction water quality.
- 5.3.2. No action or limit level exceedance was recorded during the post construction water quality monitoring period and the post construction water quality monitoring confirmed no deterioration in water quality. The water quality monitoring at the respective monitoring station C7 Windsor House was temporarily suspended from 13 May 2015.

#### 5.4. Site Audit

5.4.1. There was no non-compliance from the site audits in the reporting period.



# 6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. There was no environmental complaint received in this period.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1*.
- 6.0.3. No notification of summons or prosecution was received in the reporting period. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Table 6.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
June 2015 – September 2015	0
November 2011 (Commencement of work) – May 2015	0
Total	0

Table 6.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0

#### 7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

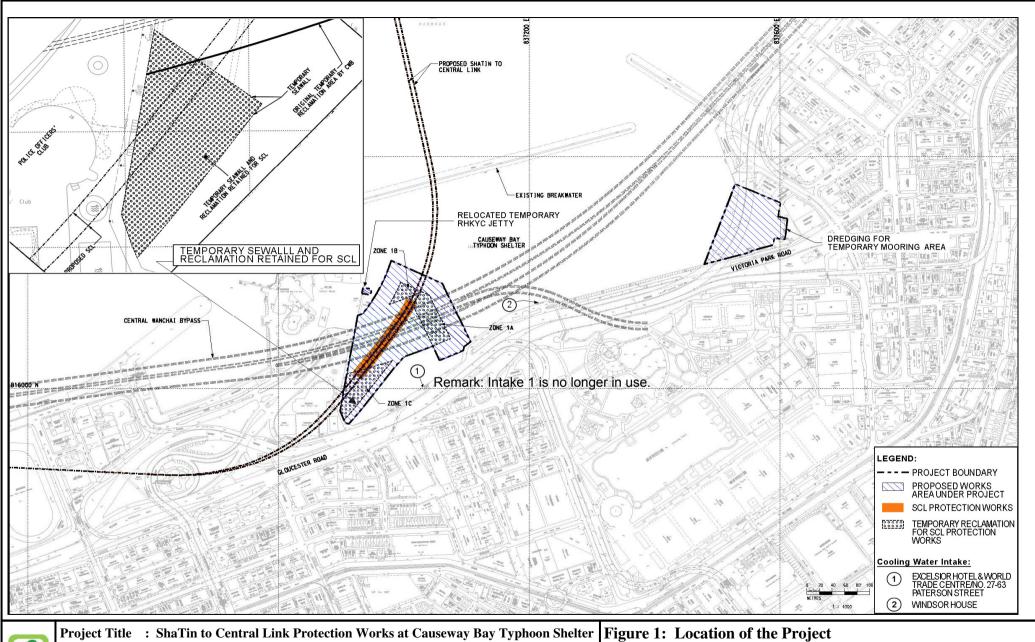
- 7.0.1. According to Condition 3.4 of the EP-416/2011, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Wan Chai Development Phase II (WDII) and Central-WanChai Bypass (CWB).
- 7.0.2. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works, ELS works and culvert construction at Wan Chai East and removal of L-shape wall, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, ELS works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, D- wall construction and ELS works at TS3, IEC demolition and tunnel works at North Point area in the reporting period.

#### 8. CONCLUSION

- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alternations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliances were noted and no prosecutions were received during the reporting period.
- 8.0.3. No project-related exceedances were recorded during the reporting period.
- 8.0.4. No environmental complaint and prosecution recorded in the reporting period.
- 8.0.5. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor in this reporting period. Environmental site audit was conducted by the Environmental Team and the Independent Environmental Checker and no cumulative environmental impact was identified in the reporting period. Hence, the EM&A programme was considered effective and shall be maintained.
- 8.0.6. The construction programme is provided in *Appendix 7.1*.

Figure 2.1

Project Layout





工程項目名稱:沙田至中環綫位於銅鑼灣避風塘內之保護工程

**Environmental Permit No.: EP-416/2011** 環境許可證編號 : EP-416/2011

# 1: 工程項目位置

(This figure was prepared based on Figure NEX2213/C/331/ENS/M50/501 of EIA report (Register No.: AEIAR-159/2011))

(本圖是根據環評報告(登記冊編號 AEIAR-159/2011)圖 NEX2213/C/331/ENS/M50/501 編制)

Figure 2.2

**Project Organization Chart** 

### **Project Organization Chart**

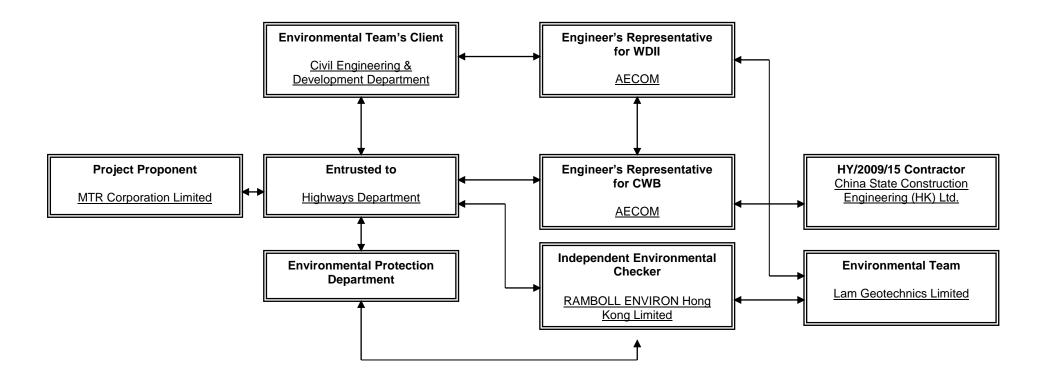
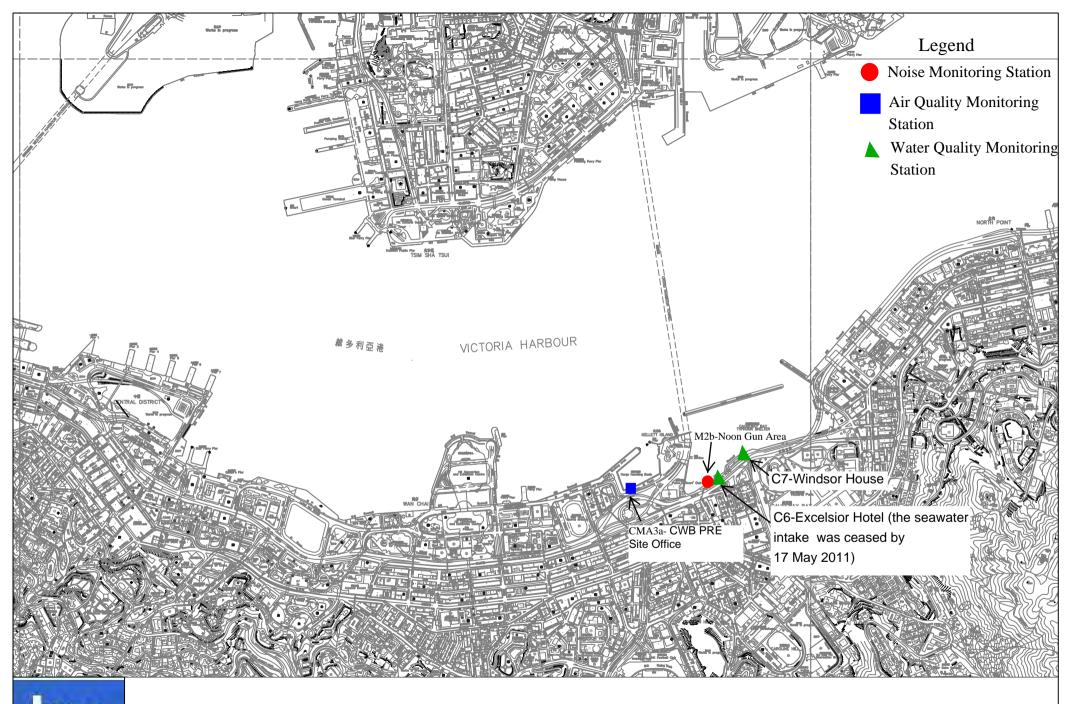


Figure 3.1

**Locations of Monitoring Stations** 



Location Plan of Monitoring Stations

# Appendix 2.1

**Environmental Mitigation Implementation Schedule** 

Works at Causeway Bay Typhoon Shelter)

# IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status	What requirements or standards for the measure to achieve?
	uality Impact (Construction Phase)					
3.142	Dredging should be carried out by closed grab dredger.	To minimize release of sediment and contaminants during dredging.	Contractor	Dredging works areas in Causeway Bay Typhoon Shelter (CBTS)	Implemented during Construction Phase	EIAO-TM, WPCO
S3.142	All temporary reclamation works should adopt an approach where temporary seawalls will first be formed to enclose each phase of the temporary reclamation. Installation of diaphragm wall on temporary reclamation as well as any bulk filling will proceed behind the completed seawall. Any gaps that may need to be provided for marine access should be shielded by silt curtains to control sediment plume dispersion away from the site. Demolition of temporary reclamation including the demolition of the diaphragm wall and dredging to the existing seabed levels	To minimize loss of fines and contaminants during temporary reclamations	Contractor	Temporary reclamation works areas in CBTS	Implemented during Construction Phase	EIAO-TM, WPCO

	should be carried out behind the temporary seawall. Temporary seawall should be removed after completion of all excavation and dredging works for demolition of the temporary reclamation.					
S3.142	During construction of the temporary reclamation, temporary seawall should be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, the seawalls along the southeast and northeast boundaries of PW1.1 should be constructed first (above high water mark) so that the seawater intake at the inner water would be protected from the impacts from the remaining dredging activities along the northwest boundary.	To minimize water quality impact upon the cooling water intakes in CBTS from temporary reclamation works	Contractor	Temporary reclamation works areas in CBTS	Implemented during Construction Phase	EIAO-TM, WPCO
S3.142	Silt curtains should be deployed to fully enclose the closed grab dredger during any dredging operation within the CBTS.	To minimize loss of fines and contaminants during dredging in CBTS	Contractor	Dredging works areas in CBTS	Implemented during Construction Phase	EIAO-TM, WPCO
S3.142	Silt screens will be installed at all the cooling water intakes within the CBTS during temporary reclamation and dredging within the typhoon shelter.	To minimize water quality impact upon the cooling water intakes in CBTS from marine construction activities	Contractor	Cooling water intakes inside CBTS	Implemented during Construction Phase	EIAO-TM, WPCO
S3.143	No more than two closed grab dredgers should be operated for dredging within the CBTS at	To minimize loss of fines and contaminants	Contractor	Temporary reclamation and		EIAO-TM, WPCO

	any time. Moreover, the combined production rate of all concurrent dredging works to be undertaken within the CBTS shall not exceed 6,000 m <sub>3</sub> per day at all times throughout the entire construction period.	during dredging in CBTS		dredging works areas in CBTS	Implemented during Construction Phase	
S3.145	The following good site practices should be undertaken during sand filling, public filling and dredging:  • mechanical grabs, if used, should be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used;  • all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;  • all hopper barges and dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;  • construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the	To minimize loss of fines and contaminants from dredging / filling	Contractor	Temporary reclamation and dredging works areas in CBTS	Implemented during Construction Phase	EIAO-TM, WPCO

	site or dumping grounds; and • loading of barges and hoppers should be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.					
S3.146	The following mitigation measures are proposed to minimize the potential water quality impacts from the construction works at or close to the seafront:  Temporary storage of construction materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction and demolition materials should be located well away from the seawater front and storm drainage during carrying out of the works.  Stockpiling of construction and demolition materials and dusty materials should be covered and located away from the seawater front and storm drainage.  Construction debris and spoil should be covered up and/or disposed of as soon as	To minimize release of construction wastes from construction works at or close to the seafront	Contractor	Construction works at or close to the seafront	Implemented during Construction Phase	EIAO-TM, WPCO

	possible to avoid being washed into the nearby receiving waters.					
S3.147	Silt curtains should be installed around the working area for the marine piling works for construction of the temporary jetty as necessary to minimize the release of sediment and construction wastes. All wastewater generated from the piling activities should be collected by a derrick lighter or other collection system and be treated before controlled discharge. Spoil from the piling activities should be collected by sealed hopper barges for proper disposal.	To minimize water quality impacts from piling works for construction of the temporary jetty	Contractor	Piling area at the piling location	Implemented during Construction Phase	EIAO-TM, WPCO
S3.148	Regular maintenance of and refuse collection should be performed at the silt screens deployed at the seawater intakes at regular intervals on a daily basis. The Contractor should be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	To avoid the pollutant and refuse entrapment problems at the silt screens to be installed at the water intakes	Contractor	Proposed silt screens at cooling water intakes inside CBTS	Implemented during Construction Phase	EIAO-TM, WPCO
S3.149	It is recommended that collection and removal of floating refuse should be performed within the marine construction areas at regular intervals on a daily basis. The Contractor should be	To minimize water quality impacts from illegal dumping and littering from marine vessels and runoff from	Contractor	All marine works areas	Implemented during Construction Phase	EIAO-TM, WPCO, WDO

	responsible for keeping the water within the site boundary and the neighbouring water free from rubbish during the dredging works.	the coastal areas				
S3.150 to 3.169	The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed where practicable.	To minimize water quality impacts from construction site runoff and general construction activities	Contractor	All construction works areas	Implemented during Construction Phase	EIAO-TM, WPCO, TM- DSS, WDO, ProPECC PN 1/94
\$3.170	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption	To minimize water quality impact from effluent discharges from construction sites	Contractor	All construction works areas	Implemented during Construction Phase	EIAO-TM, WPCO, TM-DSS

	and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of Regional Office (RO) of EPD.					
\$3.171 & 3.172	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. If disposal of sewage to public sewerage system is not feasible, appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment. The Contractor shall also be responsible for waste disposal and maintenance practices. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment.	To minimize water quality impacts due to sewage generated from construction workforce	Contractor	All construction works areas	Implemented during Construction Phase	EIAO-TM, WPCO, TM- DSS, WDO
S3.173	Contractor must register as a chemical waste producer if	To minimize water quality	Contractor	All construction	-	EIAO-TM, WPCO, TM-

	chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of	impact from accidental spillage of chemical		works areas	Implemented during Construction Phase	DSS, WDO
\$3.174	chemical wastes.  Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided.  Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	To minimize water quality impact from accidental spillage of chemical	Contractor	All construction works areas	Implemented during Construction Phase	EIAO-TM, WPCO, TM- DSS, WDO
S3.175	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:  • Suitable containers should	To minimize water quality impact from accidental spillage of chemical	Contractor	All construction works areas	Implemented during Construction Phase	EIAO-TM, WPCO, TM- DSS, WDO

	be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.  • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.  • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.					
S4. 30	The following good site practices should be implemented:  • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program  • Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program  • Mobile plant, if any, should be sited as far from NSRs as possible  • Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum	To reduce construction noise impact	Contractor	All works areas	Implemented during Construction Phase	EIAO-TM, NCO

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	Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs     Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.					
S4.31 – S4.32 & Table 4.7	The following quiet PME are recommended for the construction activities:     Air Compressor     Bulldozer     Concrete Pump     Concrete Lorry Mixer     Crane     Dump Truck     Excavator     Generator     Hand-held Breaker     Poker Vibrator     Roller     Trucks	To reduce construction noise impact	Contractor	All works areas	Implemented during Construction Phase	EIAO-TM, NCO
S4.33 – S4.35 & Table 4.8	Movable noise barrier should be used for following PME: Air Compressor Bar Bender Bentonite Plants Concrete pump Diaphragm Wall Rigs Excavator	theo reduce construction noise impact	Contractor	Affected works areas showing exceedance during un- mitigated scenario	Implemented during Construction Phase	EIAO-TM, NCO

	Poker Vibrator					
Constru	otion Dust Impact					
S5.43	Watering once on construction areas for every working hour	To minimize dust impact	Contractor	Temporary reclamation area in CBTS	Implemented during Construction Phase	APCO
S5.43	Covering/paving the southwest retained area of temporary reclamation once filling is completed	To minimize dust impact	Contractor	southwest retained area of temporary reclamation	Implemented during Construction Phase	phase APCO
S5.44	Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:     Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.     Use of frequent watering for particularly dusty cons truction areas and areas close to ASRs.     Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.	To minimize dust impacts	Contractor	Temporary reclamation area in CBTS	Implemented during Construction Phase	APCO and Air Pollution Control (Construction Dust) Regulation

Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.  Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.  Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.  Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.  Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road,
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boundary where adjoins a road,
streets or other accessible to
the public except for a site
entrance or exit.
Imposition of speed controls
for vehicles on site haul roads.
Where possible, routing of
vehicles and positioning of
construction plant should be at
the maximum possible distance
from ASRs.

Every stock of more bags of cement or dry pulverised fuel ash (P should be covered entimpervious sheeting of in an area sheltered of and the 3 sides.  Instigation of an environmental monito auditing program to more construction process if enforce controls and method of work if dust conditions arise.	FA) irely by r placed n the top  ring and onitor the n order to nodify y				
6.62  Good Site Practices Waste Reduction Me - Prepare a Waste Management Plan app the Engineer/Supervis Officer of the Project to current practices on construction sites; - Training of site perso site cleanliness, proper management and che handling procedures; - Provision of sufficient disposal points and re collection of waste; - Appropriate measure minimize windblown li dust during transporta waste by either coveri or by transporting was enclosed containers; - Regular cleaning and	To enhance water management practice and achieve waste reduction.  onnel in, er waste mical  t waste gular  es to tter and tion of ng trucks tes in	Contractor	All Work Sites	Implemented during Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28) ETWB TC(W) No.31/2004

	maintenance programme for drainage systems, sumps and oil interceptors; and - Separation of chemical wastes for special handling and appropriate treatment.					
6.63	Good Site Practices and Waste Reduction Measures (con't)  - Sorting of demolition debris and excavated materials from demolition works to recover reusable/ recyclable portions (i.e. soil, broken concrete, metal etc.);  - Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;  - Encourage collection of aluminum cans by providing separate labeled bins to enable this waste to be segregated from other general refuse generated by the workforce;  - Proper storage and site practices to minimize the potential for damage or contamination of construction materials;  - Plan and stock construction	To achieve waste reduction	Contractor	All Work Sites	Implemented during Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass (Shatin to Central Link (SCL) Protection

and recyclable materials. The

submitted to the Engineer for approval. The Contractor should implement the waste management practices in the

EMP should be

EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor, preferably in

a monthly basis.

Works at Causeway Bay Typhoon Shelter)

	materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; and - Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle.					
6.64	Good Site Practices and Waste Reduction Measures (con't)  - The Contractor shall prepare and implement an EMP in accordance with ETWB TCW No. 19/2005. Such management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable	To enhance water management practice and achieve waste reduction.	Contractor	All Work Sites	Implemented during Construction Phase	ETWB TCW No. 19/2005

6.66	Storage, Collection and Transportation of Waste  - Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;  - Maintain and clean storage areas routinely;  - Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and - Different locations should be designated to stockpile each material to enhance reuse.	To minimize potential adverse environmental impacts arising from waste storage	Contractor	Work Sites		-
6.67	Storage, Collection and Transportation of Waste (con't)  - Waste haulier with appropriate permits should be employed by the Contractor for the collection and transportation of waste from works areas to respective disposal outlets.	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	Waste storage area.	Implemented during Construction Phase	-
6.68	Storage, Collection and Transportation of Waste (con't) - Implementation of trip ticket system with reference to ETWB TC(W) No.31/2004 to monitor disposal of waste and to control fly-tipping at PFRFs or landfills.	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	Work Sites	Implemented during Construction Phase	ETWB TC(W) No.31/2004

	A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed.					
6.70 – 6.73	Sorting of C&D Materials - Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal offsite Specific areas should be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled as far as practicable before delivery to PFRFs as mentioned for beneficial use in other projects. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills Possibility of reusing the spoil in the Project will be continuously investigated in the construction stage.	To minimize potential adverse environmental impacts during the handling, transportation and disposal of C&D materials	Contractor	All work Sites	Implemented during Construction Phase	ETWB TCW No. 31/2004 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
6.75	Sediments - The basic requirements and procedures for dredged	To ensure the sediment to be disposed of in an	Contractor	All works areas with sediments	-	PNAP 252

	sediment disposal specified under PNAP 252 shall be followed. MFC manages disposal facilities in Hong Kong for the dredged sediment, while EPD is the authority issuing marine dumping permits under the <i>Dumping at Sea Ordinance</i> .	authorized and least impacted way		concern	Implemented during Construction Phase	
6.76	Sediments (con't)  - The Project Proponent should agree in advance with MFC of CEDD on the site allocation by submitting a Construction & Demolition Material Management Plan. The contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. A request for reservation of sediment disposal space has been submitted to MFC for onward discussions of disposal approaches and feasible disposal sites. The Project Proponent is also responsible for application of all necessary permits from the relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works.	To determine the best handling and disposal option of the sediments	MTR / Contractor	All works areas with sediments concern	Prior to the start of dredging works	PNAP 252; Dumping at Sea Ordinance

6.77 – 6.81	Sediments (con't) Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during dredging, transportation and disposal of sediments. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the dredged sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO) In order to minimise the potential odour / dust emissions during dredging and	To ensure handling of sediments are in accordance to statutory requirements	Contractor	Work Sites, Sediment disposal sites		PNAP 252 Dumping at Sea Ordinance	
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transportation of the sediment,			
the dredged sediments should			
be properly covered when			
placed on barges. Loading of			
the dredged sediment to the			
barge should be controlled to			
avoid splashing and			
overflowing of the sediment			
slurry to the surrounding water.			
- The barge transporting the			
sediments to the designated			
disposal sites should be			
equipped with tight fitting seals			
to prevent leakage and should			
not be filled to a level that			
would cause overflow of			
materials or laden water during			
loading or transportation. In			
addition, monitoring of the			
barge loading shall be			
conducted to ensure that loss			
of material does not take place			
during transportation. Transport			
barges or vessels shall be			
equipped with automatic self-			
monitoring devices as specified			
by the DEP.			
- In order to minimise the			
exposure to contaminated			
materials, workers should wear			
appropriate personal protective			
equipments (PPE) when			
handling contaminated			
sediments. Adequate washing			
and cleaning facilities should			
also be provided on site.			
aiso de provided on site.			

6.82	Sediments (con't) The dredging work and associate sediment handling under this Project will be undertaken together with the CWB project by Highways Department and geosynthetic containment will be adopted to handle Type 3 sediments.	To ensure handling of sediments are in accordance to statutory requirements	Contractor	Work Sites, Sediment disposal sites	Implemented during Construction Phase	PNAP 252 Dumping at Sea Ordinance
6.86	Containers for Storage of Chemical Waste The Contractor should register with EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Containers used for storage of chemical waste should: - Be compatible with the chemical wastes being stored, maintained in good condition and securely sealed; - Have a capacity of less than 450 litters unless the specifications have been approved by EPD; and	To register with EPD as a Chemical waste producer and store chemical waste in appropriate containers	Contractor	Chemical waste storage area	Implemented during Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes

	- Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation.					
6.87	Chemical Waste Storage Area  - Be clearly labeled to indicate corresponding chemical characteristics of the chemical waste and used for storage of chemical waste only;  - Be enclosed on at least 3 sides;  - Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;  - Have adequate ventilation;  - Be covered to prevent rainfall from entering; and  - Be properly arranged so that incompatible materials are adequately separated.	To prepare appropriate storage areas for chemical waste at works areas	Contractor	Chemical waste storage area	Implemented during Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
6.88	Labelling of Chemical Waste - Lubricants, waste oils and other chemical wastes would be generated during the maintenance of vehicles and mechanical equipments. Used	To clearly label the chemical waste at works areas	Contractor	Chemical waste storage area	Implemented during Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical

	lubricants should be collected and stored in individual containers which are fully labeled in English and Chinese and stored in a designated secure place.					Wastes
6.89	Collection and Disposal of Chemical Waste - A trip-ticket system should be operated in accordance with the Waste Disposal (Chemical Waste) (General) Regulation to monitor all movements of chemical waste. The Contractor shall employ a licensed collector to transport and dispose of the chemical wastes, to either the approved CWTC at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	To monitor the generation, reuse and disposal of chemical waste	Contractor	Work Sites with chemical waste production	Implemented during Construction Phase	Waste Disposal (Chemical Waste) (General) Regulation
6.90	General Refuse - General refuse should be stored in enclosed bins or compaction units separate from C&D materials and chemical waste. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D materials and chemical wastes. Preferably, an enclosed and	To properly store and separate from other C&D materials for subsequent collection and disposal	Contractor	All Work Sites	Implemented during Construction Phase	-

	covered area should be provided to reduce the occurrence of windblown light material.					
6.91	General Refuse (con't)  - The recyclable component of general refuse, such as aluminum cans, paper and cleansed plastic containers should be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste should be set up by the Contractor. The Contractor should also be responsible for arranging recycling companies to collect these materials.	To facilitate recycling of recyclable portions of refuse	Contractor	All Work Sites	Implemented during Construction Phase	-
6.92	General Refuse (con't)  - The Contractor should carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation.  Posters and leaflets advising on the use of the bins should also be provided in the sites as reminders.	To raise workers' awareness on recycling issue	Contractor	All Work Sites	Implemented during Construction Phase	-

# Appendix 3.1

Action and Limit Level

# **Action and Limit Level**

Action and Limit Level for Air Quality Monitoring

1-hour TSP Level i	n $\mu$ g/m $^3$	24-hour TSP Level in $\mu$ g/m <sup>3</sup>			
Action Level	Limit Level	Action Level Limit Level			
311.3	500	171.0 260			

#### Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)/ 70 dB(A)/ 65 db(A) <sup>Note 1</sup>

#### Note 1:

- 70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.
- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

#### Action and Limit Level for Water Quality Monitoring

Parameters	Dry S	Season	Wet S	eason
	Action Level	Limit Level	Action Level	Limit Level
<b>Cooling Water Inta</b>	ke			
SS in mg/L	mg/L 15.00		18.42	27.54
Turbidity in NTU	oidity in NTU 9.10		11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks: - Contractor shall implement additional improvement measures in case of oxygen depletion (i.e. DO level <2 mg/L) detected within CBTS.

# Appendix 4.1

Noise Monitoring Graphical Presentations



#### Day Time (0700 - 1900hrs on normal weekdays)

			Measurement Noise Level		Baseline Level	Construction Noise Level	Limit Level			
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
				-	-	Unit: dB(A), (3	Unit: dB(A), (30-min)			
01/06/15	15:15	Cloudy	67.6	68.5	65.5	68	68	75		
10/06/15	10:32	Fine	67.1	68.5	65.5	68	67	75		
15/06/15	14:40	Fine	68.8	69.5	65.0	68	63	75		
24/06/15	14:15	Cloudy	69.5	71.8	65.5	68	65	75		



#### Day Time (0700 - 1900hrs on normal weekdays)

								_			
					se Level	Baseline Level	Construction Noise Level	Limit Level			
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq			
						Unit: dB(A), (3	Unit: dB(A), (30-min)				
29/06/15	14:22	Fine	68.5	69.5	66.5	68	61	75			
06/07/15	14:31	Fine	69.6	72.0	65.5	68	65	75			
13/07/15	15:05	Fine	66.7	67.5	64.0	68	67	75			
24/07/15	14:14	Cloudy	67.9	69.5	65.5	68	56	75			
27/07/15	13:35	Fine	67.2	68.5	65.0	68	67	75			



#### Day Time (0700 - 1900hrs on normal weekdays)

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
04/08/15	13:55	Fine	69.2	71.0	66.0	68	64	75
10/08/15	13:00	Cloudy	67.0	69.0	65.5	68	67	75
17/08/15	10:15	Fine	69.7	72.3	66.4	68	66	75
24/08/15	15:10	Fine	66.9	68.0	64.0	68	67	75



#### Day Time (0700 - 1900hrs on normal weekdays)

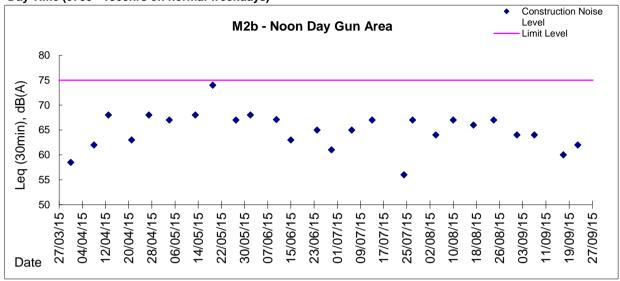
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
				-	-	Unit: dB(A), (3	30-min)	
01/09/15	9:50	Cloudy	69.1	70.0	67.0	68	64	75
07/09/15	15:50	Cloudy	69.2	70.5	67.0	68	64	75
17/09/15	10:25	Fine	68.3	70.0	66.0	68	60	75
22/09/15	10:45	Fine	68.7	70.0	66.5	68	62	75

# Wanchai Development Phase II and Central Wanchai Bypass

(Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter)

**Graphic Presentation of Noise Monitoring Result** 

Day Time (0700 - 1900hrs on normal weekdays)



No construction activities across the reporting period.

The weather condition during monitoring varies mainly from sunny to cloudy with drizzle with no considerable impact to overall noise monitoring

# Appendix 4.2 Air Quality Monitoring Graphical Presentations



Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 171 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-May-15	8:00	Fine	012122	2.8214	2.9302	3530.57	3554.57	24.00	1.23	1.23	1.23	1776	61.3
3-Jun-15	8:00	Fine	011871	2.7235	2.7800	30557.57	30581.57	24.00	1.18	1.18	1.18	1701	33.2
8-Jun-15	8:00	Cloudy	012008	2.8059	2.8916	3584.57	3608.57	24.00	1.23	1.23	1.23	1777	48.2
12-Jun-15	8:00	Cloudy	011749	2.8222	2.8716	3611.57	3635.57	24.00	1.13	1.12	1.13	1620	30.5
18-Jun-15	8:00	Fine	012323	2.8184	2.9415	3638.68	3662.68	24.00	1.17	1.17	1.17	1691	72.8
23-Jun-15	8:00	Rainy	011964	2.8344	2.9278	3665.68	3689.68	24.00	1.18	1.18	1.18	1698	55.0

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
29-May-15	9:31	Fine	011595	2.7258	2.7317	3554.57	3555.57	1.00	1.26	1.26	1.26	75	78.2
29-May-15	10:38	Fine	011867	2.7262	2.7330	3556.57	3557.57	1.00	1.26	1.26	1.26	75	90.1
29-May-15	13:00	Fine	011869	2.7132	2.7242	3557.57	3558.57	1.00	1.26	1.26	1.26	75	145.8
4-Jun-15	8:30	Fine	012005	2.8141	2.8275	30581.57	30582.57	1.00	1.26	1.26	1.26	76	177.4
4-Jun-15	9:34	Fine	012006	2.8013	2.8113	30582.57	30583.57	1.00	1.26	1.26	1.26	76	132.4
4-Jun-15	10:40	Fine	012007	2.8047	2.8119	30583.57	30584.57	1.00	1.26	1.26	1.26	76	95.3
9-Jun-15	8:58	Cloudy	011755	2.7977	2.8165	3608.57	3609.57	1.00	1.20	1.20	1.20	72	260.9
9-Jun-15	10:02	Cloudy	011753	2.8303	2.8403	3609.57	3610.57	1.00	1.20	1.20	1.20	72	138.8
9-Jun-15	13:00	Cloudy	011751	2.8129	2.8231	3610.57	3611.57	1.00	1.20	1.20	1.20	72	141.6
13-Jun-15	8:05	Cloudy	011777	2.8084	2.8143	3635.57	3636.57	1.00	1.13	1.13	1.13	68	86.9
13-Jun-15	9:09	Cloudy	011773	2.8094	2.8148	3636.61	3637.61	1.00	1.20	1.20	1.20	72	75.2
13-Jun-15	10:20	Cloudy	012327	2.8241	2.8283	3637.61	3638.61	1.00	1.20	1.20	1.20	72	58.5
19-Jun-15	8:59	Fine	011974	2.8431	2.8571	3662.68	3663.68	1.00	1.19	1.19	1.19	72	195.4
19-Jun-15	10:10	Fine	011976	2.8382	2.8467	3663.68	3664.68	1.00	1.16	1.16	1.16	70	122.0
19-Jun-15	13:00	Fine	011978	2.8296	2.8400	3664.68	3665.68	1.00	1.19	1.19	1.19	72	145.1
24-Jun-15	9:11	Rainy	011598	2.7175	2.7254	3689.68	3690.68	1.00	1.13	1.13	1.13	68	116.1
24-Jun-15	10:15	Rainy	011596	2.7309	2.7353	3690.68	3691.68	1.00	1.17	1.17	1.17	70	62.9
24-Jun-15	13:00	Rainy	012286	2.8133	2.8195	3691.68	3692.68	1.00	1.13	1.13	1.13	68	91.1



Report on 24-hour TSP monitoring Action Level ( $\mu g/m3$ ) - 171 Limit Level ( $\mu g/m3$ ) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
30-Jun-15	15:22	Fine	012472	2.8029	2.8904	3713.25	3737.25	24.00	1.23	1.23	1.23	1768	49.5
4-Jul-15	8:00	Fine	012536	2.8396	2.9595	3737.26	3761.26	24.00	1.23	1.23	1.23	1767	67.9
10-Jul-15	8:00	Cloudy	012465	2.8411	2.9776	3764.27	3788.27	24.00	1.23	1.23	1.23	1767	77.2
16-Jul-15	8:00	Cloudy	012599	2.8319	3.0101	3791.26	3815.26	24.00	1.23	1.23	1.23	1767	100.8
22-Jul-15	8:00	Rainy	012689	2.8331	2.9597	3818.26	3842.26	24.00	1.24	1.23	1.23	1777	71.2

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 29 June 2015 to 30 June 2015.

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
30-Jun-15	11:30	Fine	012346	2.8397	2.8415	3710.25	3711.25	1.00	1.26	1.26	1.26	76	23.8
30-Jun-15	13:00	Fine	012349	2.8501	2.8527	3711.25	3712.25	1.00	1.13	1.13	1.13	68	38.3
30-Jun-15	14:20	Fine	012471	2.8165	2.8210	3712.25	3713.25	1.00	1.13	1.13	1.13	68	66.3
6-Jul-15	8:55	Fine	012352	2.8306	2.8449	3761.26	3762.26	1.00	1.26	1.26	1.26	76	189.1
6-Jul-15	9:58	Fine	012354	2.8415	2.8583	3762.26	3763.26	1.00	1.26	1.26	1.26	76	222.2
6-Jul-15	13:00	Fine	012356	2.8341	2.8494	3763.26	3764.26	1.00	1.26	1.26	1.26	76	202.3
11-Jul-15	8:05	Fine	012493	2.8310	2.8479	3788.27	3789.27	1.00	1.26	1.26	1.26	75	224.0
11-Jul-15	9:15	Fine	012489	2.8248	2.8451	3789.27	3790.27	1.00	1.26	1.26	1.26	75	269.0
11-Jul-15	10:25	Fine	012601	2.8182	2.8311	3790.27	3791.27	1.00	1.26	1.26	1.26	75	171.0
17-Jul-15	9:04	Cloudy	012607	2.8201	2.8254	3815.26	3816.26	1.00	1.26	1.26	1.26	76	70.0
17-Jul-15	10:08	Cloudy	012605	2.8237	2.8279	3816.26	3817.26	1.00	1.26	1.26	1.26	76	55.5
17-Jul-15	13:00	Cloudy	012703	2.8304	2.8361	3817.26	3818.26	1.00	1.26	1.26	1.26	76	75.3
23-Jul-15	8:51	Rainy	012365	2.8160	2.8165	3842.26	3843.26	1.00	1.27	1.27	1.27	76	6.6
23-Jul-15	9:56	Rainy	012363	2.8337	2.8343	3844.26	3845.26	1.00	1.27	1.27	1.27	76	7.9
23-Jul-15	13:00	Rainy	012361	2.8366	2.8375	3845.26	3846.26	1.00	1.27	1.27	1.27	76	11.8



Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 171 Limit Level ( $\mu$ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-Jul-15	8:00	Fine	011601	2.7373	2.8150	3845.25	3869.25	24.00	1.18	1.18	1.18	1702	45.7
3-Aug-15	8:00	Fine	012819	2.8766	2.9965	3872.24	3896.24	24.00	1.18	1.18	1.18	1697	70.6
8-Aug-15	8:00	Fine	012837	2.8338	2.9840	3899.24	3923.24	24.00	1.23	1.23	1.23	1774	84.7
14-Aug-15	8:00	Cloudy	012679	2.8376	2.9689	3926.24	3950.24	24.00	1.20	1.20	1.20	1722	76.3
20-Aug-15	8:00	Cloudy	012660	2.8013	3.0704	3953.24	3977.24	24.00	1.19	1.19	1.19	1714	157.0
26-Aug-15	8:00	Cloudy	012984	2.7982	2.9095	3980.26	4004.26	24.00	1.19	1.19	1.19	1718	64.8

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Jul-15	9:27	Fine	012799	2.8181	2.8245	3869.25	3870.25	1.00	1.20	1.20	1.20	72	88.6
29-Jul-15	10:32	Fine	012031	2.8367	2.8422	3870.25	3871.25	1.00	1.20	1.20	1.20	72	76.1
29-Jul-15	13:00	Fine	012799	2.8181	2.8227	3871.25	3872.25	1.00	1.20	1.20	1.20	72	63.7
4-Aug-15	8:42	Fine	012831	2.8743	2.8785	3896.24	3897.24	1.00	1.20	1.20	1.20	72	58.4
4-Aug-15	9:45	Fine	012834	2.8725	2.8776	3897.24	3898.24	1.00	1.20	1.20	1.20	72	70.9
4-Aug-15	10:48	Fine	012835	2.8609	2.8663	3898.24	3899.24	1.00	1.20	1.20	1.20	72	75.0
10-Aug-15	8:30	Fine	012839	2.8540	2.8605	3923.24	3924.24	1.00	1.29	1.29	1.29	77	84.0
10-Aug-15	9:47	Fine	012841	2.8367	2.8402	3924.24	3925.24	1.00	1.29	1.29	1.29	77	45.2
10-Aug-15	13:00	Fine	012027	2.8347	2.8416	3925.24	3926.24	1.00	1.29	1.29	1.29	77	89.1
15-Aug-15	8:10	Rainy	012404	2.8198	2.8281	3950.24	3951.24	1.00	1.24	1.24	1.24	74	111.5
15-Aug-15	9:23	Rainy	012669	2.8292	2.8345	3951.24	3952.24	1.00	1.24	1.24	1.24	74	71.2
15-Aug-15	10:26	Rainy	012663	2.8305	2.8401	3952.24	3953.24	1.00	1.24	1.24	1.24	74	128.9
21-Aug-15	9:25	Cloudy	013040	2.8331	2.8387	3977.24	3978.24	1.00	1.23	1.23	1.23	74	75.7
21-Aug-15	11:00	Cloudy	013035	2.8011	2.8091	3978.24	3979.24	1.00	1.23	1.23	1.23	74	108.2
21-Aug-15	14:35	Cloudy	013005	2.7824	2.7911	3979.24	3980.24	1.00	1.23	1.23	1.23	74	117.6
27-Aug-15	9:45	Cloudy	013049	2.8094	2.8175	4004.26	4005.26	1.00	1.24	1.24	1.24	74	109.1
27-Aug-15	10:50	Cloudy	013025	2.7993	2.8092	4005.26	4006.26	1.00	1.24	1.24	1.24	74	133.4
27-Aug-15	13:00	Cloudy	013023	2.8120	2.8230	4006.26	4007.26	1.00	1.24	1.24	1.24	74	148.2

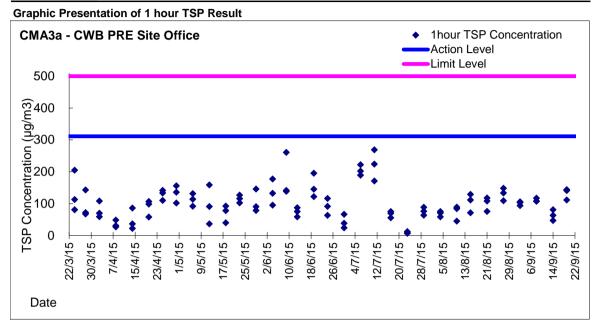


Report on 24-hour TSP monitoring Action Level ( $\mu$ g/m3) - 171 Limit Level ( $\mu$ g/m3) - 260

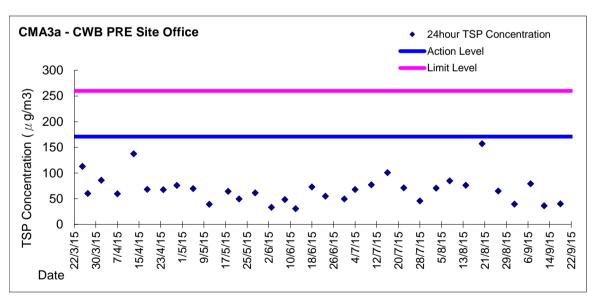
Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
1-Sep-15	8:00	Cloudy	013107	2.7913	2.8593	4007.26	4031.26	24.00	1.20	1.20	1.20	1724	39.4
7-Sep-15	8:00	Cloudy	013147	2.8095	2.9455	4034.26	4058.26	24.00	1.19	1.19	1.19	1720	79.1
12-Sep-15	8:00	Cloudy	013267	2.8639	2.9265	4061.26	4085.26	24.00	1.20	1.20	1.20	1723	36.3
18-Sep-15	8:00	Fine	013286	2.8828	2.9520	4088.27	4112.27	24.00	1.20	1.20	1.20	1722	40.2

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
2-Sep-15	9:30	Cloudy	013112	2.7989	2.8059	4031.26	4032.26	1.00	1.24	1.24	1.24	75	93.8
2-Sep-15	10:40	Cloudy	013110	2.7902	2.7979	4032.26	4033.26	1.00	1.24	1.24	1.24	75	103.2
2-Sep-15	15:45	Cloudy	013145	2.8313	2.8392	4033.26	4034.26	1.00	1.24	1.24	1.24	75	105.9
8-Sep-15	8:36	Cloudy	013273	2.8653	2.8733	4058.26	4059.26	1.00	1.24	1.24	1.24	74	107.6
8-Sep-15	9:51	Cloudy	013271	2.8734	2.8821	4059.26	4060.26	1.00	1.24	1.24	1.24	74	117.0
8-Sep-15	10:55	Cloudy	013269	2.8788	2.8868	4060.27	4061.27	1.00	1.24	1.24	1.24	74	107.6
14-Sep-15	8:55	Fine	013125	2.8097	2.8132	4085.26	4086.26	1.00	1.24	1.24	1.24	74	47.0
14-Sep-15	10:08	Fine	013123	2.8118	2.8178	4086.26	4087.26	1.00	1.24	1.24	1.24	74	80.6
14-Sep-15	13:00	Fine	013121	2.8046	2.8093	4087.26	4088.26	1.00	1.24	1.24	1.24	74	63.1
19-Sep-15	8:44	Fine	013283	2.8681	2.8764	4112.27	4113.27	1.00	1.24	1.24	1.24	74	111.5
19-Sep-15	10:19	Fine	013309	2.8762	2.8867	4113.27	4114.27	1.00	1.24	1.24	1.24	74	141.0
19-Sep-15	13:00	Fine	013325	2.8042	2.8149	4114.27	4115.27	1.00	1.24	1.24	1.24	74	143.7





#### **Graphic Presentation of 24 hour TSP Result**



No construction work was conducted in the reporting quarter.

The weather condition during the reporting period ranges from mostly sunny to occasionally rainy.

Generally, the monitoring result indicates a reduction in TSP level during rainfall.

Appendix 5.1

**Event Action Plans** 



## Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass (Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter)

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

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level	Notify IEC, ER and Contactor     Carry out investigation     Report the results of investigation to the IEC, ER and Contactor     Discuss with the IEC and Contractor on remedial measures required     Increase monitoring frequency to check mitigation effectiveness     (The above actions should be taken within 2 working days after the exceedance is identified)	Review the investigation results submitted by the ET     Review the proposed remedial measures by the Contractor and advise the ER accordingly     Advise the ER on the effectiveness of the proposed remedial measures (The above actions should be taken within 2 working days after theexceedance is identified)	Confirm receipt of notification of failure in writing     Notify Contractor     In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented     Supervise the implementation of remedial measures     (The above actions should be taken within 2 working days after theexceedance is identified)	Submit noise mitigation proposals to IEC and ER     Implement noise mitigation proposals     (The above actions should be taken within 2 working days after theexceedance is identified)
Limit Level	Inform IEC, ER, EPD and Contractor     Repeat measurement to confirm findings     Increase monitoring frequency     Identify source and investigate the cause of exceedance     Carry out analysis of Contractor's working procedures. Discuss with the IEC, Contractor and ER on remedial measures require     Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results     If exceedance stops, cease additional monitoring     (The above actions should be taken within 2 working days after the exceedance is identified)	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 ER accordingly  (The above actions should be taken within 2 working days after theexceedance is identified)	Confirm receipt of notification of failure in writing     Notify Contractor     In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented     Supervise the implementation of remedial measures     If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated     (The above actions should be taken within 2 working days after the exceedance is identified)	Take immediate action to avoid further exceedance     Submit proposals for remedial actions to IEC and ER within 3 working days of notification     Implement the agreed proposals     Submit further proposal if problem still not under control     Stop the relevant portion of works as instructed by the ER until the exceedance is abated     (The above actions should be taken within 2 working days after the exceedance is identified)



## Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass (Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter)

**Event / Action Plan for Construction Air Quality** 

EVENT		ACTION		
LVLINI	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Exceedance for one sample	Identify source, investigate the causes of complaint and propose remedial measures;     Inform IEC and ER;     Repeat measurement to confirm finding;     Increase monitoring frequency to daily.  (The above actions should be taken within 2 working days after the exceedance is identified.)	Check monitoring data submitted by ET;     Check Contractor's working method.     (The above actions should be taken within 2 working days after the exceedance is identified.)	Notify Contractor. (The above actions should be taken within 2 working days after theexceedance is identified.)	Rectify any unacceptable practice;     Amend working methods if appropriate.  (The above actions should be taken within 2 working days after the exceedance is identified.)
Exceedance for two or more consecutive samples	Identify source;     Inform IEC and ER;     Advise the ER on the effectiveness of the proposed remedial measures;     Repeat measurements to confirm findings;     Increase monitoring frequency to daily;     Discuss with IEC and Contractor on remedial actions required;     If exceedance continues, arrange meeting with IEC and ER;     If exceedance stops, cease additional monitoring.  (The above actions should be taken within 2 working days after the exceedance is identified.)	Check monitoring data submitted by ET;     Check Contractor's working method;     Discuss with ET and Contractor on possible remedial measures;     Advise the ET on the effectiveness of the proposed remedial measures;     Supervise Implementation of remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified.)	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.  (The above actions should be taken within 2 working days after theexceedance is identified.)	Submit proposals for remedial to ER within three working days of notification;     Implement the agreed proposals;     Amend proposal if appropriate.  (The above actions should be taken within 2 working days after the exceedance is identified.)
LIMIT LEVEL			<u> </u>	<u> </u>
Exceedance for one sample	Identify source, investigate the causes ofexceedance and propose remedial measures;     Inform IEC, ER, Contractor 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.  (The above actions should be taken within 2 working days after the exceedance is identified.)	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;     Supervise implementation of remedial measures.  (The above actions should be taken within 2 working days after the exceedance is identified.)	Confirm receipt of notification of failure in writing;     Notify Contractor;     Ensure remedial measures properly implemented.  (The above actions should be taken within 2 working days after theexceedance is identified.)	Take immediate action to avoid further exceedance;     Submit proposals for remedial actions to IEC within three working days of notification;     Implement the agreed proposals;     Amend proposal if appropriate.  (The above actions should be taken within 2 working days after the exceedance is identified.)



#### **Lam Geotechnics Limited**

Contract No. HK/2011/07
Wanchai Development Phase II and Central Wanchai Bypass
(Shatin to Central Link (SCL) Protection
Works at Causeway Bay Typhoon Shelter)

<ol><li>Exceedance for</li></ol>
two or more
consecutive samples

- 1. Notify IEC, ER, Contractor and EPD;
- 2. Identify source;
- 3. Repeat measurement to confirm findings;
- 4. Increase monitoring frequency to daily;5. Carry out analysis of Contractor's working procedures to determine possible mitigation
- to be implemented;
  6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;
- Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;
- 8. If exceedance stops, cease additional monitoring.

(The above actions should be taken within 2 working days after the exceedance is identified.)

- 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 ER accordingly:
- Supervise the implementation of remedial measures.

(The above actions should be taken within 2 working days after the exceedance is identified.)

- Confirm receipt of notification of failure in writing;
- Notify Contractor;
- In consultation with the 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.

(The above actions should be taken within 2 working days after theexceedance is identified.)

- Take immediate action to avoid further exceedance;
- Submit proposals for remedial actions to IEC within three working days of notification:
- 3. 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.

(The above actions should be taken within 2 working days after the exceedance is identified.)



### Lam Geotechnics Limited

Contract No. HK/2011/07
Wanchai Development Phase II and Central Wanchai Bypass
(Shatin to Central Link (SCL) Protection
Works at Causeway Bay Typhoon Shelter)

**Event and Action Plan for Marine Water Quality** 

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures;  Make agreement on the mitigation measures to be implemented.  (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)



### Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass (Shatin to Central Link (SCL) Protection Works at Causeway Bay Typhoon Shelter)

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)

Appendix 6.1

Complaints Log

# **Environmental Complaints Log**

Complaint Log No.	Date of Complaint	Received From and Received By		Nature of Complaint	Outcome	Status
			ı	•	-	

## Appendix 6.2

Notification of Exceedances

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
-	-	-	-	-	l-	-	-	-	

Appendix 7.1

**Construction Programme** 

	Train o					-	Cition .									Contract of the Contract of th
Control Cont	WF13-U			_			ayour cive - wo	INITIG LAYOU.	IOI DVVP KEV IVI						Date Print	ed 26-Sep-14 15
Towks    God   21-fib-14 00.h   30-Sep-14 19   -156   Rehablement yorks were take   Rehablement yorks were take   Towks    God   31-Map-14 00.h   30-Sep-14 19   -156   Rehablement yorks were take   God   31-Map-14 00.h   30-Sep-14 19   -156   God   15-Sep-14 00.h   30-Sep-14 19   -156   God	ACIVITY ID	Activity Name				Start	Finish	Float	04	5		60	2	č	2016	
704ws   60d   21-Feb-14 00 A   30-Sep-14 19   4564   700-No.   7	HY/2009/15	5 - Works Progr	amme Rev. M (DD:20-Sep-12)						5	ÿ	75	3	\$	5	ZD.	2
Transact   Good   21-Fieb-14 GBA   30-Sep-14 18   -8564   Reinstatement Andres word disp   Transact   Good   21-Fieb-14 GBA   30-Sep-14 18   -8564   Good   15-Sep-14 GBA   30-Sep-14 GBA   30-S	Works in E	ast Ventilation A	dit - Based on Alternative Metho	pc				No.								
74 Web   664   21-76-14 GBA   50-56-14 15   4-564   6-64   12   4-644   15   4-644   15   4-644   15   4-644   15   4-644   15   4-644   15   4-644   15   4-644   15   4-644   15   4-644   16   4-64	Reinstateme	ent of Breakwater														
754we1   60d   31-May-1408   30-Sep-1418   -466d   40d   4	S3_54840	Reinstatement works	s-west side	7d/wk-1	P09	21-Feb-14 08 A	30-Sep-14 18	-85d	Reinstatement	works -west side		*****				
Completion of 30-Sep-1418	S3_60085	Reinstatement works	s east side	7d/wk-1	P09	31-May-14 08 A	30-Sep-14 18	-85d	Reinstatemen	works east side						
TS2-OHVDI Cable trough   TS2-OHDDI Cable tro	53_54845	Completion of Section	n 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	8		30-Sep-14 18	-86d		Section 3 (KD8) in	EVA Area (Alternative M.	(poute,				
724wk-1   40d   20-Map-14-88   30-Sep-14-18   48d   46d   20-Map-14-88   30-Sep-14-18   48d   46d   20-Map-14-88   30-Sep-14-18   48d   46d	Works in T	S1/TS2 - OHVD	and Cable Trough/Maintenance	Valkway												
74446-1   40d   20-6449-14 16   -86d   -8649-14 16   -8640   -8649-14 16   -8640   -8649-14 16   -8640   -8649-14 16   -8649   -8649-14 16	TS2 - OHVD	and Cable Trough/M	aintenance Walkway													
1 No.   1 No	OHVD Slab a	ind Cable Trough Con	struction													
17   17   17   17   17   17   17   17	S3_6210	TS2 - OHVD/ Cable	trough	7d/wk-1		20-May-14 08 A	30-Sep-14 18	-85d	TS2-OHVD/	Cable trough						
Towk-2   Ed   15-Sep-14 (16   26-Sep-14 (16   -3326d   15-Sep-14 (16   -3326d   16-Sep-14 (16   16   16-Sep-14 (16   16   16   16-Sep-14 (16   16   16   16   16   16   16   16	S3_6212	Completion of Section	in 3 - TS1/TS2 Area (below-6mpd) KD8)	7d/wk-2	В		30-Sep-14 18	-86d		Section 3 - TS1/TS	2 Area (below-6mpd) k	D8)				
15-38p-14 08   22-58p-14 18   3322d   15-38p-14 18   3252d   15-38	Works in T	S4/ME4 Area (Pc	ortion 14A, 14B, 15, 23)	No. of Street, or other Persons and Street, o												
Septemble   Contract No. HY2009/15 Central War Chairman   Contract No. HY2009/15 Centract No. HY2009/15 Central War Chairman   Contract No. HY2009/15 Centract	TS4/ME4 - Re	emoval of Temporar	y Reclamation													
Solution   Travine   Tra	Remaining M	Vorks at TZ6														
Solid Backfilling up to 2-4.5mpC (Chy2.000 cu.m.)   7dvwk-2   2d   25-5mp-14 (8   -332d   1   5-3mp-14 (8   -332d   1	Stage 4 - Se	awall and Reclamatio	in at TZ6	THE ACTION OF		The state of the s										
3000 cu.m.)  7dwk-2 2d 25-Sep-14 08 27-Sep-14 18 -332d 7dwk-2 1d 27-Sep-14 08 27-Sep-14 18 -332d 7dwk-2 2d 28-Sep-14 08 28-Sep-14 18 -332d 7dwk-2 2d 28-Sep-14 08 30-Sep-14 18 -332d 7dwk-2 2d 28-Sep-14 08 30-Sep-14 18 -332d	A-2010	Installation of seawal	Il blocks (Qty. 245 nos.)	7d/wk-2	P9	15-Sep-14 08 A	26-Sep-14 18	-332d	Installation of s	eawall blocks (Qty:	245 nos.)					
7/d/wk-2 1d 27-Sep-14 08 28-Sep-14 18 -332d	A-2020	Soil Backfilling up to	-2.45mPD (Qty.3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d		up to -2.45mPD (Q	ty:3,000 cu.m.)	*****				
2.8. ME4-D19 to D13)  7. d/wk-2	A-2030	Utilities installation for	r Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	Utilities installa	tion for Mined Tunn	a-			900 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2.1100
2.8 MEt-Disto Dis)  2.8 MEt-Disto Dis)  2.8 MEt-Disto Dis)  2.8 MEt-Disto Disto Distorated Distoration and Seavall blocks (20nes C )  2.9 MEt-Disto Distoration Distoration and Seavall blocks (20nes C )  3.0 Tolvwk-2 21d 25-Aug-14 08 A 23-Sep-14 18 -353d notion and Seavall blocks (20nes C )  7.4 Met-Distoration Distoration Engineering (Hong Kong) Ltd  China State Construction Engineering (Hong Kong) Ltd  9. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	A-2040	Soil backfilling up to g	ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	l Soil backfilling	up to ground level	(Qty.2,000 cu.m.)					
2 & ME4-D19 to D13)  2. & ME4-D19 to D13)  3. Sep-14 18 -305d	A-2050	Site dearance		7d/wk-2	<b>p</b>	30-Sep-14 08	30-Sep-14 18	-305d	Site clearance	11-24						2000
2 & ME4-D19 to D13)  3.)  7 dwk-2	A-2060	Handover to MTR		7d/wk-2	90		30-Sep-14 18	-305d		MR		******			*****	
7d/wk-2 21d 29-Aug-14 08 A 23-Sep-14 18 -340d	Removal of 1	Temporary Reclamatic	on at TS4/ME4													
7dvwk-2   21d   29-Aug-14 08 A   23-Sep-14 18   -363d   29-Aug-14 08 A   23-Cd-14 18   -363d   29-Aug-14 08 A   23-Cd-14 18   -363d   20-Aug-14 08 A   23-Cd-14 18   -363d   20-Aug-14 08 A   23-Cd-14 18   -363d   20-Aug-14 18   -362d   20-Aug-14 18   20-Aug-14 18   -362d   20-Aug-14 18   -36	Stage 5 (Zou	nes A, D & F - TS4-D3	13 to D-26, SCL2 & ME4-D19 to D13)					The state of the s								
Marine removal of temporarty reclamation and seawall blocks (Zones C )   7dwk-2   21d   31-Aug-14 08   02-Oct-14 18   -383d     10-Oct-14 18   -383d     10-Oct-14 18   -383d     10-Oct-14 18   -382d     10-Oct-14 18	A-3000	D-Wall horizontal cut	tting (Qty. 62 pcs.)	7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14 18	-340d	D-Wall horizon	tal cutting (Qtyr. 62)	(%)					
Marine removal of temporarly reclamation and seawall blocks   7dwk-2   21d   31-Aug-14 08 A   02-Oct-14 18   -353d   Marine removal of temporarly reclamation and seawall blocks (Zones C )	Stage 6 (Zoi	ne C - P4, ME4-D12 to	ME4-D10 & P3)									1.12				
D-Wall vertical cutting (Qty. 15 pcs.)   Tdvwk-2	A-3011	Marine removal of te (Zones C.)	emporarly reclamation and seawall blocks	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d	Marine remov	ral of temporarly re	clamation and seawall b	locks (Zones C	,			
D-Wall horizontal cutting (dty, 20 pcs.)  Td/wk-2 5d 06-Oct-14 18 -352d 10-Oct-14 18 -352	A-3030	D-Wall vertical outlin	ig (Qty. 15 pcs.)	7d/wk-2	44	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall vertic	al cutting (Qty. 15)		*****				
1 of 18 Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section) WORKS PROGRAMME REV. M	A-3040	D-Wall horizontal cur	tting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d		contal cutting (Qty.	20 pcs.)	******				
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Summar		1 of 18								repared by William Calu	22				
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Actual Li	evel of Effort Vork	China Sta	te Construc	tion Eng	ineering (Hon	g Kong) Ltd		164	6-Sep 1st submi	VISION	iddy payallo	Ē	1 新 颜 图 4	八枝粥/群』	加入と歴史
WORKS PROGRAM	Remaini	ing Work	Contract No. HY/2009/15 - Central N	Van Chai By	/ Pass -	funnel ( Caus	eway Bay Typ	hoon She	Iter Section)					CHINA STATE CONSTRU	CHON ENGINEERING	HONG KONG LTD.
	◆ ♦ Milestone	Kemaining work	_	<b>VORKS P</b>	ROGRA	AMME REV.	N						Т			

18d   Ge-Sep-14 08 A   00-Oct-14 18   3-3544	Activity ID	Activity Name	Calendar		Start	Finish	Total	2006	
2006   2016				Duration	2000	Victorior	Float	01 02 03 04 01 02	03
Particular   Par	Stage 7 (Zc	ones C & E - ME4-D06 to D01, SCL1 & TS4-D25)							3
100   100	A-4000	Marine removal of temporarly redamation and seawall bloc (Zones C & E)		18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine removal of temporarty reclamation and seawall blocks (Zones C & E)	
10   10   10   10   10   10   10   10	A-3090	Hole coring (Qty: 44 nos)			20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty 44 nos)	
19   19   19   19   19   19   19   19	A-4010	D-Wall vertical outting (Qty. 27pcs.)	7d/wk-2	P/L	07-Oct-14 08	13-Oct-14 18	-353d	D-Wall vertical cutting (Qty. 27pcs.)	
Part	A-4020	D-Wall horizontal cutting (Qty. 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d		
10   10   10   10   10   10   10   10	Stage 9 (Zo	one I - TS4-D01 to TS4-D08)							
1   D-WM vertical cutting (Dy, 25 pca)   1   D-WM vertical cutting (Dy, 25 p	A-3050	Remaining removal of temporary reclamation (Zone I)	7d/wk-2		29-Aug-14 08 A	01-04-14 18	-342d	Remaining removal of temporary reclamation (Zone 1)	
1   1   1   1   1   1   1   1   1   1	A-3060	Hole caring (Qty: 25 nos)	7d/wk-2	2d	02-Oct-14 08	06-Oct-14 18	-342d	☐ Hole coring (Oyr. 25 nos)	
19   Chy 24 pca.   70 kw.2   56   25-56p-14 06   25-56p-14 18   -3550   19 kw.2   10	A-3070	D-Wall vertical cutting (Qtyr. 14 pcs.)	7d/wk-2	34	07-Oct-14 08	09-Oct-14 18	-342d	D-Wall vertical cutting (Oty, 14 pcs.)	
Package   Pack	A-3080	D-Wall horizontal cutting (Qty. 24 pcs.)	7d/wk-2	2d	21-Oct-14 08	25-Oct-14 18	-353d		
Posterior   Tawke   Ed.   22-Sep 1-105°   25-Sep 1-106°   25	Stage 8 (Zo	ones G & K - TS4-D24 to TS4-D15 )							
90) 907 907 908 908 908 908 908 908 908 908 908 908	A-4040	Relocation of RHKYC floating pontoon	7d/wk-2		22-Sep-14 08*	26-Sep-14 18	-338d		
9019/19 (30y 18 pca.)  71 dWe/c	A-4050	Hole coring (Qty. 27 nos)	7d/wk-2		29-Sep-14 08	04-Oct-14 18	-346d		
Clty, 18pca.)   74 alwaz   74   28-Oct-14 08   28-Oct-14 08   18 - Oct-14 08   18 - Oct-14 08   19 - Oct-1	A-4060	Marine removal of temporary reclamation and seawall block (Zone G & K)		14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine removal of temporary redamation and seavall blocks (Zone G & K)	
Detail   D	A-4070	D-Wall vertical cutting (Qtyr. 18pcs.)			25-Oct-14 08	28-Oct-14 18	-352d	D-Wall vertical cutting (Qty, 18pcs.)	
Clay 20 pcs.   7dwk-2   10d   07-0d-14 08   16-0d-14 18   -34dd	A-4080	D-Wall horizontal cutting (Qty. 25 pcs.)	7d/wk-2		26-Oct-14 08	01-Nov-14 18	-352d		
23-0ct-14 18   3-3404   28-0ct-14 18   3-3404   28-0ct-14 18   3-3504   20-0ct-14 18   3-3504   20-0	Stage 10 (Z	one J - 1S4-D09 to TS4-D14)							
Property redimention (Zone J)   740 km/2   74   17-04-14 08   28-04-14 18   -3534	A-4090	Land removal of temporary reclamation (Zone J)	7d/wk-2		07-Oct-14 08	16-Oct-14 18	-344d	Land removal of temporary reclamation (Zone J)	
Phase   Contract No. HY/2009/15 - Central Wan Chair By Pages   Td/wk-2   Td   26-Od-14 08   To-Nov-14 18   -3534   Td/wk-2   Td/wk-2   Td   Od-Nov-14 08   To-Nov-14 18   -3534   Td/wk-2   Td/wk-2   Td   Od-Nov-14 08   To-Nov-14 18   -3534   Td/wk-2   Td/	A-5000	Hole coring (Qty. 32 nos)	7d/wk-2	P/	17-Oct-14 08	23-Oct-14 18	-340d	■ Hole coring (Qty: 32 nos)	
City, 20 pcs.   7 d/wk-2   54   02-Nov-14 08   06-Nov-14 18   -3834	A-5010	Marine removal of temporary reclamation (Zone J)	7d/wk-2		26-Oct-14 08	01-Nov-14 18	-353d	■ Marine removal of temporary redamation (Zone J)	
19 (CDty, 26 pcs.)   7 dwwk-2 7d   04-Nov-14 08   10-Nov-14 18 -383d   ■ D-Wall Infiming of sea bed level   Tdwk-2 4d   02-Nov-14 08   11-Nov-14 18 -383d   ■ Phase 3 Mooring   Phase 3 Mooring   Phase 3 Mooring   Phase 3 Mooring   Phase 4 Milliam (20nes I & J)   7 dwk-2 7d   11-Nov-14 08   11-Nov-14 18 -383d   ■ Reinstlatement of existing seawall (Zones I & J)   7 dwk-2 7d   11-Nov-14 08   11-Nov-14 18 -383d   ■ Phase 4 Milliam Chainer (until permanent re-provision of Jetty   7 dwk-2 28d   20-Sep-14 08 A   15-Oct-14 18 -385d   Phase 4 Milliam Chainer (until permanent of 7 dwk-2 28d   20-Sep-14 08 A   15-Oct-14 18 -386d   Phase 4 Milliam Chainer (until permanent of 7 dwk-2 28d   20-Sep-14 08 A   15-Oct-14 18   20-Sep-14 08 A	A-5020	D-Wall vertical cutting (Qty: 20 pcs.)	7d/wk-2	1	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall vertical cutting (Qty, 20 pcs.)	
Final trimning of sea bed level   7 d/wk-2   6d   06-Nov-14 08   11-Nov-14 18   -347d	A-5030	D-Wall horizontal cutting (Qty. 26 pcs.)	7d/wk-2		04-Nov-14 08	10-Nov-14 18*	-353d		
Tdwk-2   44   02-Nov-14 08   05-Nov-14 18   -347d     Phase 5 Mooring   Phase 5 Phase 6 Phase 6 Phase 6 Phase 5 Phase 5 Phase 6 Phas	Stage 13 - P.	hase 3 Mooring							
TdWk-2   6d   06-Nov-14 08   17-Nov-14 18   -347d     Phase 3 Mooring   Reinstitement of existing seawall (Zones I & J)   TdWk-2   Td   11-Nov-14 08   17-Nov-14 18   -355d     Provision of Mobile Crane (until permanent re-provision of Jetty is commencement of   TdWk-2   28d   20-Sep-14 08 A   16-Oct-14 18   -356d     BAB submission   Prepared by William Caluza       Prepared by William Caluza     Prepared by William Caluza         Prepared by William Caluza	A-5050	Final trimming of sea bed level	7d/wk-2		02-Nov-14 08	05-Nov-14 18	-347d	Final trimming of sea bed level	
ing seawall (Zones I & J)  7 d/wk-2  7 d 11-Nov-14 18 -353d  rane (until permanent re-provision of Jetty 7 d/wk-1  7 d/wk-2  7 d/wk-2  7 d/wk-2  7 d/wk-1  7 d/wk-2  7 d/wk-1  7 d/wk-2  7 d/wk-1  7 d/wk-2  7 d/wk-1  7 d/wk-2  7	A-5060	Phase 3 Mooring	7d/wk-2	p9	06-Nov-14 08	11-Nov-14 18	-347d	■ Phase 3 Mooring	
rane (until permanent re-provision of Jetty 7dwk-1 150d 20-Feb-14 08 A 30-Dec-14 18 -335d Provision of Mobile Crane (until permanent re-provision of Jetty is commencement of Tdwk-2 28d 20-Sep-14 08 A 16-Oct-14 18 -336d Provision of 18 China State Construction Engineering (Hong Kong) Ltd Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	A-5040	Reinstatement of existing seawall (Zones I & J)	7d/wk-2	PZ	11-Nov-14 08	17-Nov-14 18	-353d		
Provision of Mobile Crane (until permanent re-provision of Jetty)   7d/wk-1   160d   2D-Feb-14 08 A   30-Dec-14 18   -335d   Provision of Mobile Crane (until permanent re-provision of Jetty) is completed)   RAB submission and consent for commencement of Td/wk-2   28d   2D-Sep-14 08 A   16-Oct-14 18   -336d   Page submission and consent for commencement of superstructure   Prepared by Willam Caluza   Date   Revision   Checked Approved   China State Construction Engineering (Hong Kong) Ltd   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central	Stage 12 - R	e-provisioning of Jetty							
BA8 submission and consent for commencement of TdWk-2 28d 20-Sep-14 08 A 16-Oct-14 18 -38d	S6_5258	Provision of Mobile Crane (until permanent re-provision of is completed)				30-Dec-14 18	-335d	Provision of Mobile Crane (until permanent re-provision of Jetty is completed)	
2 of 18 China State Construction Engineering (Hong Kong) Ltd Contract No. HY/2009/15 - Central Wan Chair By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)  Contract No. HY/2009/15 - Central Wan Chair By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)	A-6010	BA8 submission and consent for commencement of superstructure			20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submission and consent for commencement of superstructure	
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Summa	2 of 18						Prepared by William Caluza Revision Checked	
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Actual V		a State Construct	ion Eng	ineering (Hong	Kong) Ltd		26-Sep 1st submission	回公司
WORKS PROGRAM	Remain Critical I		ıtral Wan Chai By	Pass -	funnel ( Cause	way Bay Typl	loon Shel	egifte egifte	G KONCO LTD.
	◆ ♦ Milestor	- Pe	WORKS PI	ROGRA	MME REV.	M			

			Duration			Float		0104			2016	
A-6012	Submission of performance report	746.40	_	100 11 100 10	4		40	92	Q3 Q4	4 01	02	03
	delinesacion of periori rance report	/d/wk-2	DE.	25-Oct-14 08"	25-Oct-14 18	-286d	Submission	Submission of performance report				
A-6020 E	Erection of working platform for jetty beams and reinstate the floating portoon	7d/wk-2	PO1	02-Nov-14 08	11-Nov-14 18	-352d	Erection c	Erection of working platform for jetty beams and reinstate the floating portoon	state the floating por	toon		
A-6040 B	BA10 submission for authorized signatory and subcontractor	7d/wk-2	14	12-Nov-14 08	12-Nov-14 18	-304d	I BA10 sub	BA10 submission for authorized signatory and subcontractor	ntractor			
A-6030	Jetty beams construction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d	Jetty b	Jetty beams construction				*****
A-6052 C	Construction of floating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d	8	Construction of floating pontoon				****
A-6050 B	BA13 submission + 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d		BA13 submission;+ 14-day cube test results				
A-6060 E	E&M and accessories installation	7d/wk-2	P/	24-Dec-14 08	30-Dec-14 18	-352d		E&M and accessories installation				
A-6070 H	Handover to RHKYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d		Handover to RHKYC				
Stage 11 - Construction of TZ4	ruction of TZ4											
A-6080 S	South side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	South side - layin	South side - laying rockfill and levelling stone (Qty. 1,550 cu.m)	Ē,			
A-6090 S	South side - install seawall blocks (Qty. 255 nos.)	7d/wk-2	P9	06-Oct-14 08	11-04-14 18	-339d	South side - inst	South side - ir stall seawall blocks (Qty: 255 nos.)			****	*****
A-7000 S	South side - general fill (Qty: 2,000 cu.m.)	7d/wk-2	5d	12-Oct-14 08	13-Oct-14 18	-339d	South side - ger	South side - general fil (Qty. 2,000 cu.m.)			****	
A-7010 N	North side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North side -	North side - laying rockfill and levelling stone (Qty; 1,550 cu.m)	50 cu.m)			
A-7020 N	North side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	P9	02-Nov-14 08	07-Nov-14 18	-346d	North side	North side - install seawall blocks (Qty. 255 nos.)				*****
A-7030 N	North side - general fill (Qty.2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	North side	North side - general fill (Qiy.2,000 cu.m.)			*****	
A-7040 H	Handover to contract TS3/SR8	7d/wk-2	14	10-Nov-14 08	10-Nov-14 18*	-346d	I Handover	Handover to contract TS3/SR8				
TS4/ME4, Remor	S4/ME4, Removal of Temporary Reclamation											
S26875 C	Completion of Section 2 (With ME4 option) (KD7)	7d/wk-2	РО		17-Nov-14 18	-353d	◆ Complet	<ul> <li>Completion of Section 2 (With ME4 option) (KD7)</li> </ul>	10155			****
S26890 C	Completion of Section 7B (ME4) (KD13)	7d/wk-2	В		17-Nov-14 18	-353d	◆ Complet	<ul> <li>Completion of Section 7B (ME4) (KD13)</li> </ul>				
TS4 - OHVD / Cable Trough	ble Trough											
S5_6185 T	TS4 (incl. TS4+) - OHVD Slab - Area C (access through temp. opening at 1724)	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d		TS4 (ind. TS4+) - OHVD Slab - Area C (access through temp. dpening at TZ4)	a C (access through	temp, opening at TZ4		
S5_6190 T	TS4 (ind. TS4+) - Cable Trough (access through temp. opening at TZ4)	7d/wk-1	P09	07-Feb-15 08*	14-Apr-15 18	195d		TS4 (ind. TS4+) - Ca	ble Trough (access t	TS4 (ind. TS4+) - Cable Trough (access through temp, opening at	at TZ4)	
S5_59850 C	Completion of Section 5 - TS4/ME4 Area (KD10), below -20mPD	7d/wk-2	PO		02-Nov-15 18*	Po			•	Completion of Section 5 - TS4/ME4 Area (KD10), below -20m	- TS4/ME4 Area (K	D10), below-2
orks in TPC	Works in TPCWAE Area (Portion 20A, 20B)	D. St. Wall		SASSE EN								
emoval of Tem	Removal of Temporary Reclamation											
Removal of Tem	Removal of Temporary Reclamation & Form TZ5											
S67670 R	Remove general fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove general	Remove general fill /sea wall block				
S67675 D	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d	Diaphragm wal	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)				
S67755 Fi	Form TZ5	7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d	Form TZ5		*******			
Summary Bar	3 of 18						- 2	Prepared by William Calt	827			. 4.
Actual Work		ate Construct	tion Engil	China State Construction Engineering (Hong Kong) Ltd	y Kong) Ltd			1st submission		-	1 11/11	
Remaining Work	Vork Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Wan Chai By	Pass - T	unnel ( Cause	way Bay Typl	ioon Shelte	r Section)			CHINA STATE CONS	中国第第十年(中本)上四京のGING STATE CONSTRUCTION BY CINETING CHONG KONG ID.	HONG KONG II
Critical Kerns		200000000000000000000000000000000000000	2000		:							

All	Activity Name	Calendar	Original	2000	1 11111111	- inner	2015		2016	
		_	Ouration			Float	04 01 02 03 04	100	2018	000
S67685 Achie	Achievement of KD5	7d/wk-2	р		16-0ct-14 18	-323d	vernent of KD5	ē	77	23
S67687 Com	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	Po		27-0ct-14 18	-322d	◆ Complete Reinstatement of Vertical Seawall (near PRE Office)	*++++		
Reinstate Mucking	Reinstate Mucking Out Access Shaft "C"									
S67240 Start work:	Start reinstatement works (after completion of TPCWAW OHVD works)	6d/wk	B	26-Mar-16 08		-102d		₩.	Start reinstatement works (after	orks (after
S67225 Cast	Cast slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d			Cast slab opening at top of C	at top of (
S67230 Rem	Removal of vertical shaft and backfiling	6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d			Remova	Removal of vertica
S67235 Reins	Reinstatement of pavement	6d/w/k	12d 3	30-May-16 08	11-Jun-16 18	-102d		×	Reinst	Reinstatement of
TPCWAE - OHVD / Cable Trough	Cable Trough									
S5_7405 TPC\	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	9 gd/wik	48d	04-Sep-15 08	02-Nov-15 18	PO	MO41	TPCWAE - Cable Trough (access through temp. opening at T	ess through temp, or	pening at
S5_7400 TPC1	TPCWAE - OHVD Slab AT Area A (access through temp. opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Po	TPCM	TPCWAE - OHVD Slab AT Area A (access through temp. ope	a A (access through	temp. ope
S5_59840 Comp	Completion of Section 5 - TPCVVAE Area (KD10), below -20mPD	7d/wk-2	B		02-Nov-15 18*	В	◆ Compi	Completion of Section 5 - TPCWAE Area (KD10), below -20m	WAE Area (KD10), b	below -20n
Works in TPCWAW Area	AW A rea		The state of	THE PART OF	The second					
TPCWAW - Temporary Reclamation	ary Reclamation									
Temporary Reclamation	ation -									
S6_9440 TPC\	TPCWAW - place levelling stone and tamping, South side	7d/wk-1		15-Oct-14 08	20-Oct-14 18	-122d	■ TPCWAW - place levelling stone and tamping, South side			
S6_9450 TPC\	TPCWAW - place seawall block to +4 at South side (Qty. 569 nos/day)	7d/wk-1	12d 2	21-Oct-14 08	01-Nov-14 18	-122d	■ TPCWAW - place seawall block to +4 at South; side (Qty. 569 nos. @ 50 nos/day)	ay)		
S6_9465 TPC\	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	0 pg	02-Nov-14 08	07-Nov-14 18	-122d	■ TPCWAW - place levelling stone and tamping, North side			
S6_9470 TPCV	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d 0	08-Nov-14 08	21-Nov-14 18	-122d	■ TPCWAW - place seawall blocks to +4 North side (Qty.672 nos @ 50 nos/day )	day)		
S6_9495 TPC\	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d 1	15-Nov-14 08	01-Dec-14 18	-122d	TPCWAW - General fill to +2 within the seawall			
S6_9490 TPCV	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	0 PZ	02-Dec-14 08	08-Dec-14 18	-122d	■ TPCWAW - place seawall blocks to +4 at the temporary opening	*****		
S6_9475 TPCV	TPCWAW - Remaining General fill to +4 within the seawall	7d/wk-1	0 POI	09-Dec-14 08	18-Dec-14 18	-122d	■ TPCW/AW - Remaining General fill to +4 within the seawall	*****	****	
rPCWAW - Diaphragm Wall	ıgm Wall									
Diaphragm Wall									*****	
S6_9385 Site in	Site investigation	7d/wk-1	49d 0	01-Dec-14 08	21-Jan-15 18	-113d	Site investigation			
S6_8960 Install	Install guide wall	7d/wk-1	40d	7-Dec-14 08	28-Jan-15 18	-120d	Install guide wall			
S6_8955 Curta	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	9-Dec-14 08	30-Jan-15 18	-122d	Curtain grout along proposed diaphragm wall			
S6_9382 Set up	Set up bentonite silo/plants and equipments	7d/wk-1	30d 1	19-Dec-14 08	20-Jan-15 18	-112d	Set up bentonite slo/plants and equipments	*****		
S6_9345 Diaph	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d 3	30-Jan-15 08	14-Apr-15 18	-141d	Diaphragm wall construction (34 panels @ 3 panels/ week)	ane(s/ week)		
S6_9350 Install	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d	Install shear pins on diaphragm wall			
Summary Bar	4 of 18						Prepared by William Caluza	-		
Actual Level of Effort Actual Work		e Constructi	on Engin	China State Construction Engineering (Hong Kong) Ltd	Kong) Ltd		Date Revision Checked Approved 26-Sep 1st submission		1	
Remaining Work	k Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	fan Chai By I	Jass - Tu	nnel (Cause	way Bay Typt.	oon Shelter	r Section)	中國東部工程(華承)年度公司 CHINA STATE CONSTRUCTION BICKNESSING (HONG KONG) IIII	国(哈米) NO ENCINEERING (HONG	H A M
Critical Remaining Work										

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		_	Duration			Float	04	02	03	0.4	50	2010	00
S6_9355	Install king posts	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d		Install king posts		5	5	42	03
0268_98	Diaphragm Wall Pile test	7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d		Diaphragn	Diaphragm Wall Pile test			(*****	
S6_9375	Carry out contact/fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d		Carry out co	Carry out contact/fissure grouting				
TPCWAW ELS Works	Works												
ELS Works													
S6_9360	Install dewatering wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d		install dewat	Install dewatering wells and piezometers	meters			
S6_9365	Install inclinometers inside D-wall	7d/wk-1	50d	5-Apr-15 08	05-May-15 18	-141d		Install inclin	Install inclinometers inside D-wall	all a			
S6_8975	Carry out pumping tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d		Carry out	Carry out pumping tests			*****	
S6_8980	1st Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d		■ 1st Laye	1st Layer - D Wall conc over break if any & Soft Excavation	r break if any & So	oft Excavation		
S6_9260	Submit pumping test report	7d/wk-1	14	06-May-15 08	06-May-15 18	-137d		Submit pu	Submit pumping test report.				
S6_8985	1st Layer - install lateral support	7d/wk-1	POL	6-May-15 08	26-May-15 18	-141d		a 1st La	1st Layer - install lateral support	pport			
0668 95	Install vibrating wire strain gauge	7d/wk-1	10d	6-May-15 08	26-May-15 18	-141d		Instail	Install vibrating wire strain gauge	gauge			
S6_8995	2nd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	8-May-15 08	28-May-15 18	-141d		■ 2nd L	2nd Layer - D Wall conc over break if any & Soft Excavation	ver break if any &	Soft Excavation	*****	
0006 98	2nd Layer - install lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d		□ 2nd	2nd Layer - install lateral support	Support		*****	
S6_9005	3rd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	100	31-May-15 08	09-Jun-15 18	-141d		and and	3rd Layer - D Wall conc over break if any & Soft Excavation	over break if any	& Soft Excavation		
S6_9010	3rd Layer - install lateral support	7d/wk-1	10d	0-Jun-15 08	19-Jun-15 18	-141d		ea	3rd Layer - install lateral support	ral support	2000		
S6_9015	4th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	2-Jun-15 08	22-Jun-15 18	-141d			4th Layer - D Wall conc over break if any & Soft Excavation	inc over break if a	ny & Soft Excavation	Lo	
S6_9020	4th Layer - install lateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-1419			4th Layer - install lateral support	ateral support			
S6_9025	5th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d 2	25-Jun-15 08	05-Jul-15 18	-141d			5th Layer - D Wal	Conc over break	5th Layer - D Wall conc over break if any & Soft Excavation	vation	
S6_9030	5th Layer - install lateral support	7d/wk-1	10d 2	27-Jun-15 08	07-Jul-15 18	-141d			5th Layer - install lateral support	lateral support		*****	
S6_9035	6th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			6th Layer - D Wall conc over break if any & Soft Excavation	Vall conc over bre	ak if any & Soft Ex	cavation	
S6_9040	6th Layer - install lateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	P69-			6th Layer - ins	6th Layer - install lateral support			
PCWAW-RO	TPCWAW - ROCK EXCAVATION												
S6_6180	Rock excavation to formation	7d/wk-1	112d 1	18-Jul-15 08	09-Nov-15 18	-141d				Rock excar	Rock expavation to formation		
S6_9370	Install lie back anchor to D- Walls (area on west side, near Portion 11)	7d/wk-1	25d 2	20-Jul-15 08	13-Aug-15 18	P69-			Install tie b	ack anchor to D-1	Install tie back anchor to D- Walls (area on west side, near Portion 11)	st side, near Porti	on 11)
S6_9415	Install tie back anchor to D- Walls (east area)	7d/wk-1	20d 2	20-Jul-15 08	08-Aug-15 18	P69-			Install tie ba	Install tie back anchor to D- Walls (east area)	/alls (east area);		
S6_9055	Provide Access to WDII Contrador for demolition of bulkhead at Portion 11	7d/wk-2	B		10-Nov-15 18	-133d				◆ Provide Ac	Provide Access to WDII Contractor for demolition of bulkhear	ractor for demolit	ion of bulkhe
PCWAW-CCT	TPCWAWL CCT RC Structure												
TPCWAW - CCT / OHVD	OHVD.												
Summary Bar	5 of 18						-	Prepared by William Caluza					
<ul> <li>Actual Level of Effort</li> <li>Actual Work</li> </ul>		China State Construction Engineering (Hong Kong) Ltd	n Engin	eering (Hong	Kong) Ltd		26-Sep 1st su	Revision 1st submission	Checked Approved				
Remaining Work	Work Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Van Chai By P	ass - Tu	nnel (Cause	way Bay Typh	oon Shelter Section	(uc				中國運業工程(春港)有限公司OHMY SME CONSTRUCTION BIGINERING GLONG ENDING TO SME CONSTRUCTION BIGINERING GLONG ENDING TO SME	院(帯ボ)沿 ON ENGINE INC #1	
Critical Ken	Critical Kemaining Work												

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		_	Duration			Float	04	Q2 Q3	04	Q1 Q2	03
S6_9070 TPCWAW	TPC/WAW Construct tunnel base slab	7d/wk-1	20d	23-Oct-15 08	11-Dec-15 18	-141d		-		Construct tunne	
S6_9075 TPCWAW	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d		*****	I	TPCWAW Construct tunnel wall + OHVD +	# OHAD +
S6_9077 TPCWAW box (ind. sc	TPCWAW - external waterproofing on top of completed CCT box (ind. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d		*****		TPCWAW - external waterproofing or	erproofing or
S6_9076 TPCWAW	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d				TPCWAW King post load transfer	transfer
TPCWAW - Removal of 1	FPCWAW - Removal of Temporary Reclamation							******			
Removal of Temporary Reclamation	eclamation										
S6_9140 Backfilling/F	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion 11 (concurrent activities)	7d/wk-1	90c	17-Feb-16 08	17-Mar-16 18	-120d		*****	*****	Backfilling/Removal of ELS/ Reinsta	ELS/ Reinsta
S6_9105 Remove gr	Remove general fill' seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08	30-Mar-16 18	-120d				Remove general fill seawall bloc	/ seawall bloc
S6_9120 Saw cut dis	Saw cut diaphragm wall	7d/wk-1	P£9	21-Mar-16 08	23-May-16 18	-120d		*****	••••	Sawcut	Saw cut diaphragm w
S6_7550 Completion	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	РО		23-May-16 18	-121d		*****		◆ Complet	Completion of Section
TPCWAW -Cable Trough/ Maintenance Walkway	/ Maintenance Walkway										
S6_9085 TPCWAW Portion 19)	TPCWAW - Cable Trough (access through temp. opening at Portion 19)	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d	*****	*****		TPCWAW - Cable Trough (acce.	rough (acces
S6_9135 Completion	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	7d/wk-2	PO		25-Mar-16 18	-144d		******		<ul> <li>Completion of Section 5 - TPCW</li> </ul>	n 5 - TPCW
Works in Wan Chai PCWA (Portion 11)	CWA (Portion 11)										
Initial Works & Utilities Works	Norks										
S4_2810 Installation	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A 17-Oct-14 18	17-Oct-14 18	-58d	Installation of Hoarding	****			
S4_2720 Remove ex	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remove existing rock mound				
S4_2750 Carry out S	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry out Site Investigation for BW1/BW2	BW1/BW2			
S4_2755 BW1/BW2	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	РО		07-Nov-14 18	-61d	◆ BW1/BW2 Engineers confirmation of provisional Barrettes	ation of provisional Barrettes			
Allow Access to WDII											
S4_2785 Complete 8	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	PO		10-Nov-15 18	-132d	******		◆ Comp	<ul> <li>Complete Section 4 - Portion 11 (KD9)</li> </ul>	
S4_2775 Return Por	Return Portion 11 to WDIII	7d/wk-1	PO		10-Nov-15 18	-129d			♦ Return	◆ Return Portion 11 to WDII:	
Works for Mined Tur	Works for Mined Tunnel (Portion 16, 17, 18)										
SR8 (Tunnel Excavation + Lining)	+ Lining)										
From West (TPCWAE)											
Heading Excavation (2d	Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday	iry holiday)									
A8676 SR8 Headi @2d/m	SR8 Heading Excavation From West, CH 4095-4107 = 8m @2d/m	7d/wk-1a	16d	03-Sep-14 08 A	28-Sep-14 18	164d SF	SR8 Heading Excavation From West, CH 4095- 4107	CH 4095- 4107 = 8m @2d/m			
Sench Excavation (1.50	Bench Excavation (1.5d-2d/m, 20m separation with heading)										
A8700 SR8 Bench	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	7d/wk-1a	20d	08-Sep-14 08 A	24-Sep-14 18	148d	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	1 4055- 4065 = 10m			
Summary Bar	6 of 18							William Cal			
Actual Level of Effort Actual Work	China State	e Construct	ion Engi	China State Construction Engineering (Hong Kong) Ltd	Kong) Ltd		Date Re 26-Sep 1st submission	Revision Checked Approved	1	人 美洲/用一件现货车	i
Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	/an Chai By	Pass - T	unnel ( Cause	way Bay Typł	oon Shelter Se	ction)		1100	ト 国 利 米 イ 年 ( 和 永 ) 在 写 々 D D CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) ITD	NC KONC) LTD.
A Milestone		MODING DECEMBER DEV. M	/d5/00								

				COLUMN			Dat			
			_	Duration			The second second	Q4 Q1 Q2 Q3 Q4	Q1 Q2	03
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-0ct-14 18	148d	SR8 Bench Excavation From West, CH 4065- 4075 = 10m		
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	4075- 4085 = 10m	7d/wk-1a	50d	16-Oct-14 08	04-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4075- 4085 = 10m		
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	.,	
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	4095- 4100 = 5m	7d/wk-1a	P01	25-Nov-14 08	04-Dec-14 18	148d	■ SRB Bench Excavation From West, CH: 4095- 4100 = 5m		
From East (TS4)	TS4)									
Heading Ex	Heading Excavation (2d/m, 24hiday work shift, 7d/week, no work on statutory holiday)	week, no work on statu	tory holiday)							
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m	14115-4107 = 8m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Extravelion From East CH 4115-4107 = 8m @2d/m		
Bench Exc.	Bench Excavation (1.5d/m, 20m separation with heading)	(Bujper								
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 08	09-Oct-14 18	В	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m		
A8470	SR8 Bench Excavation From East, CH 4135- 4125 = 10m	4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	8	SR8 Bench Excavation From East, CH 4135- 4125 = 10m		(2-14)
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	4125-4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	8	SR8 Behch Excavation From East, CH 4125- 4115 = 10m		
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	8	SR8 Bench Excavation From East, CH 4115-4100 = 15m	O. V V.	
Tunnel Lining Works	ng Works									
From West	From West - Base Slab (10m/bay, 10m separation with benching excavation)	with benching excavation	(0)			A STATE OF THE PARTY OF THE PAR				
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab		
A8530	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	n/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	SR8, From V/est,CH 4025 - 4035 = 10m/bay, base slab		
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	n/bay, base slab	7d/wk-1a	pg pg	15-Oct-14 08	22-Oct-14 18	165d	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	•••••	
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	pg	23-Oct-14 08	30-Oct-14 18	165d	SR8, From West, CH 4045 + 4055 = 10m/bay, base slab	••••	
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	p8	05-Nov-14 08	12-Nov-14 18	160d	SR8, F om West, CH 4055 - 4065 = 10m/bay, base slab		
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	P8	25-Nov-14 08	02-Dec-14 18	148d	SR8, From West, CH/4065 - 4075 = 10m/bay, base slab	• • • • • • •	(2222+)
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	P8	05-Dec-14 08	12-Dec-14 18	148d	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab		
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	pg P8	13-Dec-14 08	20-Dec-14 18	150d	■ SR8, From West, CH 4085 - 4095 = 10m/bay, base slab		
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	P8	21-Dec-14 08	29-Dec-14 18	152d	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	-4-14	
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	m/bay, base slab	7d/wk-1a	P8	30-Dec-14 08	07-Jan-15 18	154d	SR8, From West, CH 4105 - 41(5 = 10m/bay, base slab	*****	
From West	From West - Lining (5m/bay, 10m separation with base slab)	base slab)			The second					
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	ay, lining	7d/wk-1a	P6	20-Sep-14 08	28-Sep-14 18	В	SR8, From West, CH 3995 - 4000 = 1bay, lining		
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	ay, lining	7d/wk-1a	P6	05-Oct-14 08	13-Oct-14 18	137d	■ SRB, From West, CH 4000 - 4005 = 1 bay, lining		
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	ay, lining	7d/wk-1a	p <sub>6</sub>	14-Oct-14 08	22-0d-14 18	137d	SR8, From West, CH 4005 - 4010 = 1bay, Ining:	×	
A8590	SR8, From West, CH 4010 - 4015 = 1bay, lining	ray, lining	7d/wk-1a	p <sub>6</sub>	23-Oct-14 08	31-Oct-14 18	137d	SR8, From West, CH 4010 - 4015 = 1bay, fining		
Summary Bar Actual Level o	Summary Bar 7 of 18 Adual Level of Effort	China St	China State Construction Engineering (Hong Kong) Ltd	on Fnoi	neering (Hong	Kond) I fd		Prepared by William Caluza  Date Revision Checked Approved		
Actual Work Remaining W		Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Wan Chai By	Pass - T	unnel ( Cause	eway Bay Typ	hoon She	1100	中國運禁工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINERRING (HONG KONG) IID.	学 图 公司
Critical Re	Critical Remaining Work			10000 CO						

	Activity Name	Calcinal	in in it	, inio			2018	
			Duration			Float	04 01 02 03 04 01 02	03
A8595	SR8, From West, CH 4015 - 4020 = 1bay, lining	7d/wk-1a	P6	01-Nov-14 08	09-Nov-14 18	137d		
A8600	SR8, From West, CH 4020 - 4025 = 1bay, lining	7d/wk-1a	P6	10-Nov-14 08	18-Nov-14 18	137d	SR8, from West, CH 4020 - 4025 = 1bay, fining	
A8605	SRB, From West, CH 4025 - 4030 = 1bay, lining	7d/wk-1a	2q	19-Nov-14 08	23-Nov-14 18	137d	SR8, From West, CH 4025 - 4030 = 1bay, lining	
A8610	SR8, From West, CH 4030 - 4035 = 1bay, lining	7d/wk-1a	2q	24-Nov-14 08	28-Nov-14 18	137d	■ SR8, From West, CH 4030 - 4035 = 1bay, lining	
A8615	SR8, From West, CH 4035 - 4040 = 1bay, lining	7d/wk-1a	P9	29-Nov-14 08	03-Dec-14 18	137d	SRB, From West, CH 4035 - 4040 = 1bay, lining	
A8620	SRB, From West, CH 4040 - 4045 = 1bay, lining	7d/wk-1a	P5	04-Dec-14 08	08-Dec-14 18	137d	SR8, From West, CH 4040 - 4045 = 1bay, lining	
A8625	SR8, From West, CH 4045 - 4050 = 1bay, lining	7d/wk-1a	2q	09-Dec-14 08	13-Dec-14 18	137d	SR8, From West, CH 4045 - 4050 = 1bay, lining	
A8630	SR8, From West, CH 4050 - 4055 = 1bay, lining	7d/wk-1a	29	14-Dec-14 08	18-Dec-14 18	137d	R8, From West, CH 4050 - 4055 = 1 bay, lining	
A8635	SR8, From West, CH 4055 - 4060 = 1bay, lining	7d/wk-1a	PS	19-Dec-14 08	23-Dec-14 18	137d	SR8, From West, CH 4055 - 4080 = 1bay, lining	
A8640	SR8, From West, CH 4060 - 4065 = 1bay, lining	7d/wk-1a	25	24-Dec-14 08	29-Dec-14 18	137d	SR8, From West, CH 4060 - 4065 = 1bay, Ining	
A8645	SR8, From West, CH 4065 - 4070 = 1bay, lining	7d/wk-1a	25	30-Dec-14 08	04-Jan-15 18	137d	■ SR8, From West, CH 4085 - 4070 = 1bay, lining	
A8647	SR8, From West, CH 4070 - 4075 = 1bay, lining	7d/wk-1a	PS	05-Jan-15 08	09-Jan-15 18	137d	■ SR8, From West, CH 4070 - 4075 = 1bay, lining	
A8648	SR8, From West, CH 4075 - 4080 = 1bay, lining	7d/wk-1a	. Sd	10-Jan-15 08	14-Jan-15 18	137d	SR8, From West, CH 4075 - 4080 = 1bay, lining	
A8649	SR8, From West, CH 4080 - 4085 = 1bay, lining	7d/wk-1a	29	15-Jan-15 08	19-Jan-15 18	137d	SR8, From West, CH 4080 - 4085 = 1bay, lining	
A8651	SR8, From West, CH 4085 - 4090 = 1bay, lining	7d/wk-1a	2d	20-Jan-15 08	24-Jan-15 18	137d	SR8, From West, CH 4085 - 4090 = 1bay, lining	
A8652	SR8, From West, CH 4090 - 4095 = 1bay, lining	7d/wk-1a	2d	25-Jan-15 08	29-Jan-15 18	137d	SR8, From West, CH 4090 - 4095 = 1bay, Ining	
A8653	SR8, From West, CH 4095 - 4100 = 1bay, lining	7d/wk-1a	<b>2</b> 9	30-Jan-15 08	03-Feb-15 18	137d	SR8, From West, CH 4095 - 4100 = 1bay, lining	
A8654	SR8, From West, CH 4100 - 4105 = 1bay, lining	7d/wk-1a	2d	04-Feb-15 08	08-Feb-15 18	137d	SR8, From West, CH 4100 - 4105 = 1bay, lining	
From East	From East - Base Slab (10m/bay, 10m separation with benching excavation)	(u						
A9775	SR8 From East, CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	pg Pg	02-Dec-14 08	09-Dec-14 18	P	SR8 From East, CH 4149.5- 4145 = 4.5m, base slab	
A9780	SR8 From East, CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	pg	10-Dec-14 08	17-Dec-14 18	PO	RR8 From East, CH 4145 - 4135 = 10m/bay, base slab	
A9785	SR8 From East, CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	. Bd	18-Dec-14 08	26-Dec-14 18	P8	SR8 From East, CH 4135 - 4125 = 10mbay, base slab	
A9786	SR8 From East, CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	pg gd	27-Dec-14 08	04-Jan-15 18	10d	SR8 From East, CH 4125 - 4115 = 10mbay, base slab	
From East	From East - Lining (Smibay, 10m separation with base slab)							
A9820	From East, SR8 CH 4149.5 - 4145 = 4.5m,1 bay, lining	7d/wk-1a	PS	18-Dec-14 08	22-Dec-14 18	PO	From East, SR8 CH 4149.5 - 4145 = 4,5m,1 bay, lining	
A9815	From East, SR8 CH 4145 - 4140 = 1bay, lining	7d/wk-1a	P.	23-Dec-14 08	28-Dec-14 18	p9	From East, SR8 CH 4145 - 4140 = 1bay, lining	
A9810	From East, SR8 CH 4140 - 4135 = 1bay, lining	7d/wk-1a	2d	29-Dec-14 08	03-Jan-15 18	pg pg	■ From East, SR8 CH 4140 - 4135 = 1bay, lining	
A9805	From East, SR8 CH 4135 - 4130= 1bay, lining	7d/wk-1a	2q	04-Jan-15 08	08-Jan-15 18	P9	■ From East, SR8 CH 4135 - 4130= 1bay, lining	

中國連禁工程(香港)有限公司 CHINA STATE CONSTRUCTION BIGINEERING GHONG KONG IUD. Prepared by William Caluza
Revision Checked Approved

Date Re 26-Sep... 1st submission

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section) China State Construction Engineering (Hong Kong) Ltd

WORKS PROGRAMME REV. M

Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work

Summary Bar

♦ Milestone

A9870 From East, SR8 CI A9800 From East, SR8 CI A9850 From East, SR8 CI A9855 From East, SR8 CI A9850 From East, SR8 CI A9850 From East, SR8 CI OHVD(10m/bay) / Utility Trough TOM SR8 Tunnel OHVD 10m/bay @ 74/bay	From East, SR8 CH 4130 - 4125 = 1bay, Ining From East, SR8 CH 4125 - 4120 = 1bay, Ining	7d/wk-1a	Duration 5d 09-Jan-15 08		Float 13-Jan-15 18 6d	at Q4	01 02	Q3 Q4	01	92 93
A9800 Frc A9860 Frc A9855 Frc A9850 Frc A9850 Frc A8570 SR	vm East, SR8 CH 4130 - 4125 = 1bay, lining om East, SR8 CH 4125 - 4120 = 1bay, lining	7d/wk-1a			-					
A9860 Fre A9855 Fre A9850 Fre A9570 SR	om East, SR8 CH 4125 - 4120 = 1bay, lining				-	pg pg	■ From East, SR8 CH 4130 - 4125 = 1bay, lining	ay, lining		
A9860 Fro A9855 Fro A9850 Fro OHVD(10m/bay)		7d/wk-1a	5d 14-Jan-15 08		18-Jan-15 18 14	143d	■ From East, SR8 CH 4125 - 4120 = 1bay, lining	bay, lining	*****	
A9855 Fro A9850 Fro OHVD(10m/bay) / A8570 SR	From East, SR8 CH 4120 - 4115 = 1bay, lining	7d/wk-1a	5d 19-Jan-15 08		23-Jan-15 18 143d	198	■ From East, SR8 CH 4120 - 4115 = 1bay, Ining	1bay, Ining		
A9850 Fro OHVD(10m/bay) / A8570 SR	From East, SR8 CH 4115 - 4110 = 1bay, lining	7d/wk-1a	5d 24-Jan-15 08		28-Jan-15 18 143d	P.	From East, SR8 CH 4115 - 4110 = 1bay, lining	1bay, lining		
OHVD[10m/bay) / A8570 SR 10r	From East, SR8 CH 4110 - 4105 = 1bay, lining	7d/wk-1a	5d 29-Jan-15 08		02-Feb-15 18 14	143d	■ From East, SR8 CH 4110 - 4105 = 1bay, lining	= 1bay, lining		
A8570 SR 10r	' Utility Trough			100000000000000000000000000000000000000					.,,,,,,	
	SR8 Tunnel OHVD and utility trough =, 167=17 bays @ 10m/bay @ 74/bay	7d/wk-1a 1	120d 09-Feb-15 08		13-Jun-15 18 137d	pL.	SR8 T	SR8 Tunnel OHVD and utility trough = 167= 17 bays @ 10m/bay @ 7d/bay	167= 17 bays @ 10m/ba	y @ 7d/bay
EB Outer Tunnel Excavation	Excavation									
From West (TPCWAE)	ME)									*****
Outer Bench Exc	Outer Bench Excavation (1,54 - 2d/m, 20m separation with heading)									
A9550 EB	EB, Outer Bench From West, CH 4035-4045 = 10m	7d/wk-1a	30d 07-Aug-14 08 A	7.5	20-Oct-14 18 135d		EB, Outer Bench From West, CH 4035-4045 = 10m	*****	.,,,,,	*****
A9555 EB	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d 20-Oct-14 08		08-Nov-14 18 13	135d EB,	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/m)	m (2d/m)		
A9560 EB	EB, Outer Bench From West, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d 09-Nov-14 08		28-Nov-14 18 13	135d	EB, Duter Bench From West, CH 4055-4065 = 10m (2d/m)	= 10m (2d/m)	*****	
A9565 EB	EB, Outer Bench From West, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d 29-Nov-14 08		18-Dec-14 18 13	135d	■ EB, Outer Bench From West, CH 4095- 4075 = 10m (2d/m)	775 = 10m (2d/m)		
A9520 EB	EB, Outer Bench From West, CH 4075-4085 = 10m (2d/m)	7d/wk-1a	20d 19-Dec-14 08		09-Jan-15 18 13	135d	EB, Outer Beach From West, CH 4075- 4085 = 10m (2d/m)	5- 4085 = 10m (2d/m)	*****	
A9545 EB	EB, Outer Bench From West, CH 4085- 4095 = 10m 1.5d/m)	7d/wk-1a	15d 10-Jan-15 08		24-Jan-15 18 135d	pg	EB, Outer Bench From West, CH 4085- 4095 = 10m 1.5d/m)	085- 4095 = 10m 1.5d/m)	*****	
From East (TS4)										
Outer Bench Exc	Outer Bench Excavation (1.5d-2d/m, 20m separation with heading)									
A9605 EB	EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d 20-Oct-14 08*		18-Nov-14 18 120d		EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m	-2.5m	*****	
A9610 EB	EB, Outer Bench From East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d 19-Nov-14 08		08-Dec-14 18 120d	Po	EB, Outer Bench From East, CH 4145; 4135 = 10m (2d/m)	= 10m (2d/m)		
A9615 EB	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/m)	7d/wk-1a	20d 09-Dec-14 08		29-Dec-14 18 12	120d	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/m)	1125 = 10m (2d/m)	477944	
A9620 EB	EB, Outer Bench From East, CH 4125-4115 = 10m (2d/m)	7d/wk-1a	20d 30-Dec-14 08		19-Jan-15 18 12	120d	EB, Outer Bench From East, CH 4125- 4115 = 10m (2d/m)	25- 4115 = 10m (2d/m)		
A9625 EB	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d 20-Jan-15 08		08-Feb-15 18 120d	P	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/m)	4115- 4105 = 10m (2d/m)		*****
A9630 EB	EB, Outer Bench From East, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d 09-Feb-15 08		26-Feb-15 18 120d	B	EB, Outer Bench From East,	Outer Bench From East, CH 4105- 4095 = 10m (1.5d/m)		
EB (Inner Tunnel I	EB (Inner Tunnel Excavation + Lining)									
From West (TPCWAE)	AE)								*****	
Inner Heading Ex	Inner Heading Excavation (2d/m, 24hiday work shift, 7d/week, no work on statutory holiday)	statutory holiday	0							
A8805 EB	EB,Inner Heading From West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d 29-Sep-14 08		07-Nov-14 18 0d	1	EB,Inner Heading From West, CH 3992- 4005 = 13m @3d/m	3m @3d/m		*****
A8815 EB	EB.Inner Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d 08-Nov-14 08		27-Nov-14 18 0d		EB,Ihner Heading From West, CH 4005; 4015 = 10m @2d/m	= 10m @2d/m	******	
Summary Bar	9 of 18						Prepared by William Calt			
Actual Level of Effort Actual Work		China State Construction Engineering (Hong Kong) Ltd	n Engineering	g (Hong Kong	) Ltd		26-Sep 1st submission		7.25十年晚日上	のではかくは出
Remaining Work	ork Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Wan Chai By P	ass - Tunnel (	Causeway B.	ay Typhoon	Shelter Section)			ト国 末米 十年(本本) 上 M A J D J CHINA STATE CONSTRUCTION BYGINERING HONG KONG IE.	中本/上 ゴスト GINEERING CHONG KONG) EI
Critical Remaining Work		WORKS PROGRAMME REV. M	JGRAMME	REV. M						

			O O	Duration			Float			2016	
A8820	EB,Inner Heading I	EB, Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	7d/wk-1a	Total Contract	28-Nov-14 08	17-Dec-14 18		69 Q1 Q2 Q3 Q4	10	072	03
08780	On State of						3	EB, Inner Heading From West, , CH 4015- 4025 = 10m @2d/m			
A8/80	EB,Inner Heading	EB, Inner Heading From West, CH 4025-4035 = 10m @2d/m	7d/wk-1a	20d 1	18-Dec-14 08	08-Jan-15 18	B	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m			
A8810	EB,Inner Heading I	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d 09	9-Jan-15 08	28-Jan-15 18	РО	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m			
A8785	EB,Inner Heading	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d 29	9-Jan-15 08	17-Feb-15 18	PO	EB, Inner Heading From West, CH 4045-4055 = 10m @2d/m			
A8790	EB,Inner Heading	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d 18	8-Feb-15 08	12-Mar-15 18	PO	EB.Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	Ę		
A8795	EB,Inner Heading F	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d 1	13-Mar-15 08	01-Apr-15 18	PO	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	@ 2d/m		
A8800	EB,Inner Heading F	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/v/k-1a	20d 0	02-Apr-15 08	22-Apr-15 18	PO	■ EB,Inner Heading From West; CH 4075- 4085 = 10m @ 2d/m	m @ 2d/m		
A8825	EB,Inner Heading F	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d 2	23-Apr-15 08	13-May-15 18	Po	EB,Inner Heading From West, CH 4085- 4085 = 10m @ 2dim	= 10m @ 2d/m		
iner Benci	h Excavation (1.5-2d)	Inner Bench Excavation (1.5-2d/m, 20m separation with heading)			3						
A8765	EB, Inner Bench Fr	EB, Inner Bench From West, CH 3992- 4005 = 13m (2d/m)	7d/wk-1a	26d 0	08-Nov-14 08	03-Dec-14 18	23d	EB Inner Bench From West, CH 3992-4005 = 13m (2d/m)			
A8770	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d 18	8-Dec-14 08	03-Jan-15 18	P6	EB, Inner Bench From West, CH 4005- 4015 = 10m			
A8775	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d 0	09-Jan-15 08	23-Jan-15 18	p4	EB, Inner Bench From West, CH 4015- 4025 = 10m	(*****)		
A8735	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d 29	9-Jan-15 08	12-Feb-15 18	14d	EB, Inner Bench From West, CH 4025- 4035 = 10m			
A8740	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d 1	18-Feb-15 08	07-Mar-15 18	114	EB, Inner Bench From West,CH 4035- 4045 = 10m			
A8745	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d 13-	3-Mar-15 08	27-Mar-15 18	pg pg	EB, Inner Bench From West,CH 4045- 4055 = 10m			
A8750	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d 00	02-Apr-15 08	17-Apr-15 18	PĮ.	EB, Inner Bench From West,CH 4055- 4065 = 10m	*****		
A8755	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d 18	3-Apr-15 08	03-May-15 18	10	EB, Inner, Bench From West, CH 4065- 4075 = 10m	F	•••••	
A8760	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d 05-	5-May-15 08	19-May-15 18	PO	EB, Inner Bendt From West, CH 4075- 4085 = 10m	10m		
A8761	EB, Inner Bench Fr	EB, Inner Bench From West, CH 4085- 4095 = 10m	7d/wk-1a	15d 20-	3-May-15 08	03-Jun-15 18	PO	EB. Inner Bench From West, CH 4085- 4095 = 10m	i = 10m		
From East (TS4)	TS4)										
ner Headi	ing Excavation (3d/m	Inner Heading Excavation (3d/m, 24h/day work shift, 7dlweek, no work on statutory holiday)	tatutory holiday								
A8835	EB,Inner Heading F	EB,Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @ 3d/m	7d/wk-1a	-90 pg	3-Jan-15 08	13-Jan-15 18	PO	■ EB,Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @ 3d/m			
A8850	EB,Inner Heading F	EB,Inner Heading From East, CH 4145-4135 = 10m, @ 3d/m	7d/wk-1a	30d 14-	1-Jan-15 08	12-Feb-15 18	PO	EB.Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m		57.55	
A8830	EB,Inner Heading F	EB,Inner Heading From East, CH 4135-4125 = 10m @2d/m	7d/wk-1a	20d 13-	3-Feb-15 08	07-Mar-15 18	B	EB, Inner Heading From East, CH 4135- 4125 = 10m @2d/m			
A8840	EB,Inner Heading F	EB,Inner Heading From East, CH 4125-4115 = 10m @2d/m	7d/wk-1a 2	20d 08-	3-Mar-15 08	27-Mar-15 18	B	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m			
A9910	EB,Inner Heading F	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d 28-	3-Mar-15 08	17-Apr-15 18	р	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	@2d/m		
A8845	EB,Inner Heading F	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 2	20d 18	18-Apr-15 08	08-May-15 18	PO	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	0m @2d/m		
ner Bench	1 Excavation (1.5d-2c	Inner Bench Excavation (1.5d-2d/m, 20m separation with heading)		The same of	The same of the sa	The second second					
A8860	EB,Inner Bench Fro	EB Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d 08-	-Mar-15 08	11-Mar-15 18	11d	■ EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m			
Summary Bar	ry Bar	10 of 18						Prepared by William Call			
Actual Level Actual Work	Actual Level of Effort Actual Work	China State	China State Construction Engineering (Hong Kong) Ltd	n Engine	ering (Hong	Kong) Ltd					
Remaining Work	Remaining Work Critical Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	fan Chai By Pa	ass - Tu	nnel ( Causev	иау Вау Турћо	oon Shelter Section	31163	中國運際大程(海珠)。宇宙公司 CHINA STATE CONSTRUCTION BACINEERING HONG KONG ITO	(斯州)州(BUCINEBING GHON	京 NG KONG
Cilinai Nei	VEHICALITIES AVOIN			107000000000000000000000000000000000000							

			Culation					
A8865 EB,	EB,Inner Bench From East, CH 4145- 4135 = 10m	7d/wk-1a	15d	12-Mar-15 08	26-Mar-15 18		04 Q1 Q2 Q3 Q4 Q1 Q2 Q2 Q4 Q1 Q1 Q2 Q2 Q4 Q1 Q1 Q2 Q1 Q2 Q1 Q2 Q1	03
A8870 EB,	EB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	28-Mar-15 08	12-Apr-15 18	10d	EB.Inner Bench From East, CH 4135-4125 = 10m	
A8855 EB,	EB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	PS PS	EB,Inner Bench From East, CH 4125-4115 = 10m	
A8875 EB,	EB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	09-May-15 08	23-May-15 18	PO	■ EB Inner Bench From East, CH 4115- 4105 = 10m	*****
A9915 EB,	EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	В	■ EB,Inner Bench From East, CH 4105- 4095 = 10m	
Tunnel Lining Works	rks							
rom West Base	From West Base Slab (10m/bay, 10m separation with benching excavation)	tion)						
A8900 EB	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	334	■ E8 From West, Base Slab CH 3990 - 3995 = 1 bay	
A8890 EB	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d	■ EB From West, Base Slab CH 3995 - 4005 = 10mbay	
A8905 EB	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	49	■ EB From West, Base Slab CH 4005 - 4015 = 10m/bay	*****
A8910 EB	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	144	■ EB From West, Base Slab CH 4015 - 4025 = 10m/bay	*****
A8915 EB I	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d	■ EB From West, Base Slab CH 4025 - 4035 = 10mbay	
A8920 EB	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	P8	■ EB From West, Base Slab CH 4035 - 4045 = 10m'day	
A8925 EB	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	44	■ EB From West, Base Slab CH 4045 - 4055 = 10mbay	
A8930 EB	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	P9	■ EB From West, Base Slab CH 4055 - 4065 = 10mbay	
A8880 EB	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	P9	■ EB From West, Base Slab CH 4065 - 4075 = 10m/bay	
A8885 EB I	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	PO	■ EB From West, Base Slab CH 4075 - 4085 = 10mbay	
A8895 EB I	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	PO	■ EB From West, Base Slab CH 4085 - 4095 = 10mbay	
rom East Base S	From East Base Slab (10m/bay, 10m separation with benching excavation)	(ion)						
A9905 EB I	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d	■ EB From East, Base Slab CH 4149.5 - 4145 = 4,5m	
A9900 EB I	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d	■ EB From East, Base Slab CH 4145 - 4135 = 10m/bay	
A9895 EB	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	pg	■ EB From East, Base Slab CH 4135 - 4125 = 10mbay	
A9890 EB	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	po	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	
A9885 EB	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	PO	■ EB From East, Base Slab CH 4115 - 4105 = 10m/bay	
A9880 EB	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	po	■ EB From East, Base Slab CH 4105 - 4095 = 10m/bay	
ining (5m/bay, 1:	Lining (5m/bay, 15m separation with base slab)							
A9065 EB P	EB From West, Lining CH 3990 - 3995 = 1bay	7dvvk-1a	10d	03-Feb-15 08	12-Feb-15 18	P4	■ EB From West, Lining CH 3890 - 3895 = 1bay	
A9005 EB	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	44	■ EB From West, Lining CH 3995 - 4000 = 1bay	
A9090 EB	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	44	■ E6 From West, Lining CH 4000 - 4005 = 1bay	
Summary Bar Actual Level of Effort Actual Work	11 of 18	China State Construction Engineering (Hong Kong) Ltd	on Engir	neering (Hong	Kong) Ltd		912	
Remaining Work Critical Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	ral Wan Chai By	Pass - T	unnel ( Cause	чау Вау Турһ	oon Shelter Section	u) 中国語 第 1 括 ( 事 ) 本 I を I を I を I を I を I を I を I を I を I	来)为因公司 ERING (HONG KONG) [
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Activity ID	ACTIVITY INSTITUTE			The second secon						
		_			rioat	Q4 Q1	Q2 Q3 Q	Q4 Q1	92	Q3
A9050	EB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a 1	10d 08-Mar-15 08	17-Mar-15	18 4d	E8 F	EB From West, Lining CH 4005 - 4010 = 1bay			
A9055	EB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a 1	10d 18-Mar-15 08	08 27-Mar-15 18	8 4d	89	EB From West, Lining CH 4010 - 4015 = 1bay	ay		
A9060	EB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a 1	10d 26-Mar-15 08	05-Apr-15 18	8 4d		EB From West, Lining CH 4015 - 4020 = 1bay	Ibay		
A9070	EB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a 1	10d 03-Apr-15 08	08 13-Apr-15 18	8 4d		EB From West, Lining CH 4020 - 4025 = 1bay	- 1bay		
A9075	EB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a 1	10d 12-Apr-15 08	08 21-Apr-1518	8 4d		EB From West, Lining CH 4025 - 4030 = 1bay	= 1bay		
A9080	EB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a 1	10d 20-Apr-15 08	08 29-Apr-1518	8 4d		EB From West, Lining CH 4030 - 4035 = 1bay	35 = 1bay		
A9085	EB From West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a 1	10d 28-Apr-15 08	08 08-May-1518	18 4d		■ EB From West, Lining CH 4035 - 4040 = 1ba	040 = 1bay		
A9015	EB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a 1	10d 07-May-15 08	5 08 16-May-15 18	18 4d		EB Fram West, Lining CH 4040 - 4045 = 1bay	4045 = 1bay		
A9020	EB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a 1	10d 15-May-15 08	5 08 24-May-15 18	8 4d		■ EB From West, Lining CH 4045 - 4050 = 1bay	- 4050 = 1bay		
A9025	EB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a 1	10d 23-May-15 08	5 08 01-Jun-15 18	8 4d		■ EB From West, Lining CH 4050 - 4055 = 1bay	0 - 4055 = 1bay		
A9030	EB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a 1	10d 31-May-15 08	5 08 09-Jun-15 18	8 4d		■ EB From West, Lining CH 4055 - 4080 = 1bay	355 - 4060 = 1bay		
A9035	EB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a 1	10d 07-Jun-15 08	08 16-Jun-15 18	8 4d		■ EB From West, Lining CH 4060 - 4065 = 1bay	4060 - 4065 = 1bay		
A9040	EB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a 1	10d 14-Jun-15 08	08 24-Jun-15 18	8 4d		EB From West, Lining CH 4065 - 4070 = 1bay	4 4065 - 4070 = 1bay		
A9045	EB From West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a 1	10d 25-Jun-15 08	6 05-Jul-15 18	po		EB From West; Lining CH 4070 -	CH 4070 - 4075 = 1bay		
A8955	EB From West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a 1	10d 30-Jun-15 08	08 10-Jul-15 18	po s		EB From West, Lining CH 4075	CH 4075 - 4080 = 1bay		
A8960	EB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d 11-Jul-15 08	08 15-Jul-15 18	p0 8		EB From West, Lining	EB From West, Lining CH 4080 - 4085 = 1bay		
A8970	EB From West, Lining CH 4085 - 4090 = 1 bay	7d/wk-1a	5d 16-Jul-15 08	08 20-Jul-15 18	p0 8		■ EB From West, Linin	EB From West, Lining CH 4085 - 4090 = 1bay		
A8975	EB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d 21-Jul-15 08	08 25-Jul-15 18	po s	******	■ EB From West, Lini	EB From West, Lining CH 4090 - 4095 = 1bay		
A8980	EB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d 26-Jul-15 08	08 30-Jul-15 18	po e		■ EB From West, Lin	EB From West, Lining CH 4095 - 4100 = 1bay		
A8985	EB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d 31-Jul-15 08	08 04-Aug-15 18	18 Od		■ EB From:West, Li	EB From: West, Lining CH 4100 - 4105 = 1bay	ay	
A8990	EB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d 05-Aug-15 08	5 08 09-Aug-15 18	18 Od		■ EB From West, I	EB From West, Lining CH 4105 - 4110 = 1bay	oay.	
A8995	EB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d 10-Aug-15 08	5 08 14-Aug-15 18	18 0d		■ EB From West,	EB From West, Lining CH 4110 - 4115 = 1bay	bay	
A9000	EB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d 15-Aug-15 08	5 08 19-Aug-15 18	18 0d		■ EB From West	EB From West, Lining CH 4115 - 4120 = (bay	(bay	
A9010	EB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d 20-Aug-15 08	5 08 24-Aug-15 18	18 0d		■ EB From Wes	EB From West, Lining CH 4120 - 4125 = 1bay	-1bay	
A8965	EB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d 25-Aug-15 08	5 08 29-Aug-15 18	18 0d		■ EB From We	EB From West, Lining CH 4125 - 4130 = 1bay	= 1bay	
A8935	EB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d 30-Aug-15 08	5 08 03-Sep-15 18	18 Od		■ EB:From W	EB:From West, Lining CH 4130 - 4135 = 1bay	5=1bay	
A8940	EB From West, Lining CH 4135 - 4140 = 1bay	7d/wk-1a	5d 04-Sep-15 08	5 08 08-Sep-15 18	18 Od		■ EB From V	EB From West, Lining CH 4135 - 4140 = 1bay	0 = 1bay	
A8945	EB From West, Lining CH 4140 - 4145 = 1bay	7d/wk-1a	5d 09-Sep-15 08	5 08 13-Sep-15 18	18 0d		■ EB From	EB From West, Lining CH 4140 - 4145 = 1bay	45 = 1bay	
A8950	EB From West, Lining CH 4145 - 4149,5 = 4.5m	7d/wk-1a	5d 14-Sep-15 08	5 08 18-Sep-15 18	18 0d		EB From	EB From West, Liring CH 4145 - 4149.5 = 4.5m	149.5 = 4.5m	
Summary Bar	12 of 18					Prepar	Prepared by William Caluza			
Actual Level	f Effort	China State Construction Engineering (Hong Kong) Ltd	ı Engineering	(Hong Kong) Lt	т.	Date Re- 26-Sep 1st submission	Revision Checked Approved	10.00	四个四点(英语)群上海影图4	今日
Remaini	Remaining Work Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	ntral Wan Chai By P	ss - Tunnel (	Causeway Bay	Typhoon Shelter	Section)		CHINA STATE CONSTRU	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD	IC KONG)
Critical Ke	Cracal Remaining Work		STERRING SHORES	10 May 10 Colors 11 May						

Activity ID	Activity Name	- 1								
		Calerinar	Ouration Start	Finish	Float	2015				
OHVD(10m/ba	OHVD(10m/bay) / Utility Trough						04	£0	02 0	03
A9095	EB From West OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a 12	120d 03-Jul-15 08	02-Nov-15 18	po		EB From	West OHVD and utili	EB From West OHVD and utility trough =, 167=17 bays @ 10	ays @ 10i
WB Outer Tunnel Excavation	lel Excavation									
From West (TPCWAE)	CWA.E.)									
Outer Heading	Outer Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)	on statutory holiday								
A9651	WB, Outer Heading From West, CH 4085-4092.5 = 7.5m @ 2d/m	7d/wk-1a 1	15d 13-Sep-14 08 A	A 30-Sep-14 18	163d WB	WB, Outer Heading From West, CH 4085- 4092.5 = 7.5m @ 2d/m	m/r			
Outer Bench 6	Outer Bench Excavation (1.54-2d/m, 20m separation with heading)									
A9680	WB, Outer Bench From West, CH 4025- 4035 = 10m	7d/wk-1a 1	15d 12-0d-14 08	26-Oct-14 18	163d	WB, Outer Bench From West, CH 4025- 4035 = 10m				
A9665	WB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a 1	15d 27-Oct-14 08	10-Nov-14 18	163d	WB, Outer Bench From West, CH 4035- 4045 = 10m				
A9670	WB, Outer Bench From West, CH 4045- 4055 = 10m	7d/wk-1a 1	15d 11-Nov-14 08	25-Nov-14 18	163d	WB, Outer Bench From West, CH 4045-4055 = 10m				
A9675	WB, Outer Bench From West, CH 4055- 4065 = 10m	7d/wk-1a 1	15d 26-Nov-14 08	10-Dec-14 18	163d	W8, Outer Bench From West, CH 4055- 4065 = 10m	0m	••••		
A9700	WB, Outer Bench From West, CH 4065- 4075 = 10m	7d/wk-1a 1	15d 11-Dec-14 08	26-Dec-14 18	163d	WB, Outer Bench From West, CH 4065- 4075 = 10m	= 10m	*****		
A9701	WB, Outer Bench From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a 1	15d 27-Dec-14 08	11-Jan-15 18	163d	WB, Outer Bench From West, CH 4075-4082.5 = 7.5m	382,5 = 7.5m	*****		
From East (TS4)	0						******			
Outer Heading	Outer Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)	in statutory holiday)								
A9730	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m	7d/wk-1a 2	25d 30-Aug-14 08 A	A 30-Sep-14 18	168d WB	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m @2d/m				
Onter Rench F	Gram Bench Exercation (1 5d.3d/m 30m consession with honding)		7		-	,	****			
The state of the s	Action (1,50-20/III, 20III Separation With reading)									
A9740	WB, Outer Bench From East, CH 4136- 4135 = 1m	7d/wk-1a 2	2d 12-Oct-14 08	13-Oct-14 18	168d I V	WB, Outer Bench From East, CH 4136- 4135 = 1m	****		*****	
A9770	WB, Outer Bench From East, CH 4135-4125 = 10m	7d/wk-1a 1	15d 14-Oct-14 08	28-Oct-14 18	168d	WB, Outer Bench From East, CH 4135- 4125 = 10m				
A9745	WB, Outer Bench From East, CH 4125-4115 = 10m	7d/wk-1a 1	15d 28-Oct-14 08	11-Nov-14 18	168d	■ WB, Outer Bench From East, CH 4125-4115 = 10m	*****			
A9750 \	WB, Outer Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 1	15d 11-Nov-14 08	25-Nov-14 18	168d	■ WB, Outer Bench From East, CH 4115- 4105 = 10m				
A9755	WB, Outer Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 1	15d 26-Nov-14 08	10-Dec-14 18	168d	WB, Outer Bench From East, CH 4105- 4095 = 10m				
A9760	WB, Outer Bench From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a 2	25d 11-Dec-14 08	06-Jan-15 18	168d	WB, Outer Bench From East, CH 4095- 4082.5 = 12.5m	2.5 = 12.5m			
WB (Inner Tunn	WB (Inner Tunnel Excavation + Lining)									
From West (TPCWAE)	CWAE)									
Inner Heading	Inner Heading Excavation (2-3d/m, 24h/day work shift, 7d/week, no work on statutory holiday)	on statutory holiday	0							
A9130 V	WB,Inner Heading From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a 5/	50d 29-Sep-14 08	18-Nov-14 18	PO	■ WB.Inher Heading From West, CH 3993-4005 = 12m @3d/m	@3d/m			
A9135	WB,Inner Heading From West,CH 4005-4015 = 10m @2d/m	7d/wk-1a 2/	20d 19-Nov-14 08	08-Dec-14 18	PO	WB.Inner Heading From West,CH 4005- 4015 = 10m @2d/m	0m @2d/m	*****	(1.5.e.r	
A9140 V	WB,Inner Heading From West, CH 4015-4025 = 10m @2d/m	7d/wk-1a 20	20d 09-Dec-14 08	29-Dec-14 18	PO	WB.Inner Heading From West, CH 4015-4025 = 10m @2d/m	5 = 10m @2d/m	********	*******	
Summary Bar	13 of 18					Prepared by William Caluza				
Actual Level of Effort Actual Work	100	China State Construction Engineering (Hong Kong) Ltd	Engineering (Ho	ng Kong) Ltd		26-Sep 1st submission	payorddy		图外(共) H/图	
Remaining Work	Remaining Work Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Wan Chai By Pa	ss - Tunnel ( Cau	seway Bay Typho	on Shelter Sect	(noi		子 国 和 米 十 子 GHINA STATE CONSTRUCTIO	中国课券上往(海米)年贸公司 CHINA STATE CONSTRUCTION ENCINERING CHONG KONG LTD.	ONC ID.
◆ ♦ Milestone	rating work	WORKS PRO	WORKS PROGRAMME REV. M	/. M						
	_									1

A9100 WB,Inner Hea	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	Duration 20d 30-Di	30-Dec-14 08	19-Jan-15 18	Float Q4	Q1         Q2         Q3         Q4         Q1         Q2         Q3           WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m         Q4         Q1         Q2         Q3
WB,Inner He	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	PO	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m
WB,Inner Hea	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	PO	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m
WB,Inner Hea	WB, Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	50d	04-Mar-15 08	23-Mar-15 18	PO	WBJnner Heading From West, CH 4055- 4085 = 10m @ 2d/m
WB,Inner Hea	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	PO	WB.Inner Heading From West, CH 4085- 4075 = 10m, @ 2d/m
WB,Inner He	WB.Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	PO	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m:
h Excavation (1	nner Bench Excavation (1.54-24/m, 20m separation with heading)						
WB,Inner Ber	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d	WB.Inner Bench From West, CH 3993- 4005 = 12m
WB,Inner Ber	WB,Inner Bench From West, CH 4005-4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d	■ WB,Inner Bench From West, CH 4005- 4015 = 10m
WB,Inner Ber	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d	WB.)nner Bench From West, CH 4015- 4025 = 10m
WB,Inner Ber	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d	WB, Inner Bench From West, CH 4025-4035 = 10m
WB,Inner Ber	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d	WB,Inner Bench From West, CH 4035- 4045 = 10th
WB,Inner Ber	WB, Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	. 2d	■ WB Inner Bench From West; CH 4045- 4055 = 10m
WB,Inner Ber	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Po	■ WB.lnner Bench From West, CH 4055- 4055 = 10m
WB,Inner Ber	WB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	РО	■ WB,Inner Bench From West, CH 4065- 4075 = 10m
WB,Inner Ber	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	Po	■ (VB)Inner Bench From West, CH 4075-4085 = 10m
From East (TS4)							
ng Excavation	Inner Heading Excavation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday)	tatutory holid	ay)				
WB,Inner Hea	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 08	02-Feb-15 18	B	WB.Inner Heading From East, CH 4135- 4125 = 10m @2d/m
WB,Inner Hea	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	P9	WB Inner Heading From East, CH 4125-4115 = 10m @2d/m
WB,Inner He	WB,Inner Heading From East, CH 4115- 4105 = 10m @24/m	7d/wk-1a	20d	26-Feb-15 08	17-Mar-15 18	- P9	WB,Inner Heading:From East, CH 4115- 4105 = 10m @2d/m
WB,Inner He	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	P9	WB Inner Heading From East, CH 4105- 4095 = 10m @2d/m
WB,Inner Hea	WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a	50d	08-Apr-15 08	27-Apr-15 18	Po	WB.Inner Heading From East, CH 4095- 4085 ≠ 10m @2d/m
h Excavation (1	Inner Bench Excavation (1.5d-2d/m, 20m separation with heading)	The state of the s			No. of Concession, Name of Street, or other Persons and Street, or other P		
WB, Inner Ber	WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	18-Mar-15 08	01-Apr-15 18	16d	WB.Inner Bench From East, CH 4/35- 4/25 = 10m
WB,Inner Ber	WB, Inner Bench From East, CH 4125-4115 = 10m	7d/wk-1a	15d	08-Apr-15 08	22-Apr-15 18	114	■ WB,Inner Bench From East, CH 4125-4115 = 10m
WB,Inner Ber	WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	28-Apr-15 08	13-May-15 18	P9	WB, Inner Bench From East, CH 4115- 4105 = 10m
WB,Inner Ber	WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	14-May-15 08	28-May-15 18	pg pg	■ WB) Inner Bench From East, CH 4105-4495 = 10m
WB,Inner Ber	WB.Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a	15d	29-May-15 08	12-Jun-15 18	p9	₩
Summary Bar Actual Level of Effort	14 of 18						Prepared by Willam Caluza Date Revision   Checked   Approved
Actual Work Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	e Construct /an Chai By	ion Engil Pass - T	Cnina State Construction Engineering (Hong Kong) Ltd - Central Wan Chai By Pass - Tunnel ( Causeway Bay Ty	y Kong) Ltd way Bay Typh	oon Shelter Section)	26-Sep 1st submission 中國通常上程(毒米)予照公司 (min start constitutions accurate constitution)
Critical Remaining Work		•					

Marcia Base Stab CH (1976)   Marcia Base Stab CH 4005 - 4005 = 10m bay   7dwk-1a   10d   18-Jan-15 08   10d   18	4 4 4	1													
Extractive with beaching services with services with beaching services with beaching services with beaching services with services with beaching services with services with beaching	Activity ID	Activity Name		Calendar O		tart	Finish	Float			2015			20	
	Tunnel Lini	ning Works			Engage Long				04	10		Q4			
Towk-in   10d   19-Lin-15 08   12-Feb-15 18   377								THE DESIGNATION OF THE PERSON				.,			
Towk-1s   10d   G-Le-R-15 0s   G-Le-R-15 1s   30d   Towk-1s   1s   30d	From Wes	st Base Slab (10m/bay, 10m s	separation with benching excavati	(uo)			THE PERSON NAMED IN								
70444-11   104   27-Feb-15 09   13-Feb-15 19   304   70444-11   104   27-Feb-15 09   10-Abu-15 19   304   70444-11   104   27-Feb-15 09   13-Abu-15 19   304   70444-11   104   13-Abu-15 09   23-Abu-15 19   304   70444-11   104   23-Abu-15 09   23-Abu-15 19   304	A9295	WB From West, Base Sla	ab CH 3990 - 3995 = 5m bay			8-Jan-15 08	27-Jan-15 18	37d		■ WB From \	Vest, Base Slab CH 3990 - 3	995 = 5m bay		*****	
Totale   1   1   1   1   1   1   1   1   1	A9320	WB From West, Base Sia	ab CH 3995 - 4005 = 10m/bay			4-Feb-15 08	13-Feb-15 18	30d		■ WB Fro	m West, Base Slab CH 3995	- 4005 = 10m/bay	20		
Totale   18   10   19   Main   15   16   19   Main   15   16   19   Main   15   18   10   19   Main   15   18   19   19   Main   15   18   19   19   Main   15   18   19   Main   15   18   Main   15	A9255	WB From West, Base Sla	ab CH 4005 - 4015 = 10m/bay			7-Feb-15 08	08-Mar-15 18	50d		■ WE	From West, Base Slab CH	1005 - 4015 = 10m	v'bay		
744wi-1a   10d   29-Aga-15 03   19-Aga-15 18   30d   744wi-1a   10d   29-Aga-15 03   29-Aga-15	A9260	WB From West, Base Sla	ab CH 4015 - 4025 = 10m/bay				28-Mar-15 18	40d			WB From West, Base Slab	2H 4015 - 4025 =	10m/bay		
704W-13   104   25-Apr-15 08   25-Abril-15 18   204	A9265	WB From West, Base Sla	ab CH 4025 - 4035 = 10m/bay			9-Apr-15 08	18-Apr-15 18	30d		6.85 4.8	■ WB From West, Base S	lab CH 4025 - 403	35 = 10m/bay		
7dWk-1s 10d 04-Jun-15 08 13-Jun-15 18 54  7dWk-1s 10d 13-Jun-15 08 13-Jun-15 18 18 54  7dWk-1s 10d 13-Jun-15 08 13-Jun-15 08 13-Jun-15 18 18 54  7dWk-1s 10d 13-Jun-15 08 13-Jun-15 18 18 18 18 18 18 18 18 18 18 18 18 18	A9300	WB From West, Base Sla	ab CH 4035 - 4045 = 10m/bay			9-Apr-15 08	09-May-15 18	20d			■ WB From West, Ba	se Slab CH 4035 -	. 4045 = 10m/bay		
7dvw-1a   10d   04-Jun-15 08   12-Jun-15 08   12-	A9325	WB From West, Base Sla	ab CH 4045 - 4055 = 10m/bay			0-May-15 08	29-May-15 18	10d			■ WB From West	Base Slab CH 40	145 - 4055 = 10m/l	bay	
7dvwk-1a   10d   19-Jun-15 08   29-Jun-15 18   0d   7dvwk-1a   10d   22-Apr.15 08   23-Apr.15 18   26d   24-Jun-15 08   23-Apr.15 18   26d   24-Jun-15 08   23-Apr.15 18   26d   24-Jun-15 08   24-Jun-	A9305	WB From West, Base Sla	ab CH 4055 - 4065 = 10m/bay			4-Jun-15 08	13-Jun-15 18	PS		***	■ WB From W	est, Base Slab CH	4055 - 4065 = 10	)m/bay	
7dvw-1a   10d   22-Apr-15 08   10-Jal-15 18   0d   23-Apr-15 08   23-Apr-15 18   5d   26-Apr-15 08   23-Apr-15 18   5d   24-Apr-15 08   23-Apr-15 18   30d   23-Apr-15 08   23-Apr-15 18   30d   23-Apr-15 08   23-Apr-15 18   30d   33-Apr-15 18	A9310	WB From West, Base Sla	ab CH 4065 - 4075 = 10m/bay		T	9-Jun-15 08	29-Jun-15 18	В			WB Front	West, Base Slab	CH 4065 - 4075 =	= 10m/bay	
74/44-18   10d   23-4pr-15 08   03-4bay-15 18   26d   24/40-15 08   03-4bay-15 18   15d   24/4bay-15 08   23-4bay-15 08   23	A9315	WB From West, Base Sla	ab CH 4075 - 4080 = 5m			0-Jun-15 08	10-Jul-15 18	PO			■ WBFr	m West, Base Sla	1b CH 4075 - 4080	)=5m	
-4125 = 10mbay 70wk-1a 10d 22-May-1518 28d	From East	st Base Slab (10m/bay, 10m s	separation with benching excavation	(uc											
-4105 = 10m7bay 7 d/w/k-1a 10d 14-May-15 08 23-May-15 18 116d   14-May-15 08 23-May-15 18 116d   14-May-15 08 23-May-15 18 116d   14-May-15 08 23-May-15 18 6d   14-May-15 18	A9960	WB From East, Base Slat	b CH 4135 - 4125 = 10m/bay			3-Apr-15 08	03-May-15 18	26d				Slab CH 4135 - 4	125 = 10m/bay		
-4105 = 10mbay 70wk-1a 10d 32-May-15 08 07-Jun-15 18 11d	A9955	WB From East, Base Slat	b CH 4125 - 4115 = 10m/bay			4-May-15 08	23-May-15 18	16d		*****	■ WB From East, Ł	ase Slab CH 412	5 - 4115 = 10m/ba	λı.	
-4086 = 10m/bay 7dwk-1a 10d 13-Jun-15 08 23-Jun-15 18 6d	A9950	WB From East, Base Slat	b CH 4115 - 4105 = 10m/bay			9-May-15 08	07-Jun-15 18	110			■ WB From Eas	t, Base Slab CH 4	115 - 4105 = 10m	/bay	
-4080 = 5m	A9945	WB From East, Base Slat	b CH 4105 - 4095 = 10m/bay			3-Jun-15 08	23-Jun-15 18	P9			■ WB From	East, Base Slab Cl	H 4105 - 4095 = 1	'0m/bay.	
-4080 = 5m 704wk-1a 10d 05-Jul-15 08 14-Jul-15 18 64	A9940	WB From East, Base Slat	b CH 4095 - 4085 = 10m/bay			4-Jun-15 08	04-Jul-15 18	P9		*****	WB Froi	n East, Base Slab	CH 4095 - 4085 =	= 10m/bay	
965 = 1bay 7 d4wk-1a 7d 14-Feb-15 08 23-Feb-15 18 30d	A9941	WB From East, Base Slat	b CH 4085 - 4080 = 5m			5-Jul-15 08	14-Jul-15 18	P9				om East, Base Sla	tb CH 4085 - 4080	0 = 5m	
WB From West, Lining CH 3990 - 3995 = 1bay         7d/wk-1a         7d         14-Feb-15 08         23-Feb-15 18         30d         ■         WB From West, Lining CH 3990 - 3995 = 1bay           WB From West, Lining CH 4010 - 4005 = 1bay         7d/wk-1a         7d         24-Feb-15 08         02-Mar-15 18         30d         ■         WB From West, Lining CH 4000 - 4005 = 1bay           WB From West, Lining CH 4010 - 4015 = 1bay         7d/wk-1a         7d         17-Mar-15 08         15-Mar-15 18         30d         ■         WB From West, Lining CH 4000 - 4005 = 1bay           WB From West, Lining CH 4010 - 4015 = 1bay         7d/wk-1a         7d         17-Mar-15 08         30-Mar-15 18         30d         ■         WB From West, Lining CH 4010 - 4015 = 1bay           WB From West, Lining CH 4010 - 4015 = 1bay         7d/wk-1a         7d         17-Mar-15 08         30-Mar-15 18         30d         ■         WB From West, Lining CH 4010 - 4015 = 1bay           WB From West, Lining CH 4020 - 4020 = 1bay         7d/wk-1a         7d         17-Mar-15 08         30-Apr-15 18         30d         ■         WB From West, Lining CH 4020 - 4020 = 1bay           WB From West, Lining CH 4020 - 4020 = 1bay         7d/wk-1a         7d         11-Apr-15 08         11-Apr-15 18         30d         ■         WB From West, Lining CH 4020 - 4020 = 1bay           WB From West, Lining CH 402	Lining (Sn	m/bay, 10m separation with I	base slab)										-		
WB From West, Lining CH 3995 - 4000 = 1bay         7d 24-Feb-15 08         22-Feb-15 08         90-Mar-15 18         30d         ■ WB From West, Lining CH 3995 - 4000 = 1bay           WB From West, Lining CH 4005 - 4006 = 1bay         7dwk-1a         7d         7d-Mar-15 08         15-Mar-15 18         30d         ■ WB From West, Lining CH 4005 - 4006 = 1bay           WB From West, Lining CH 4005 - 4006 = 1bay         7dwk-1a         7d         10-Mar-15 08         35-Mar-15 18         30d         ■ WB From West, Lining CH 4015 - 4020 = 1bay           WB From West, Lining CH 4015 - 4020 = 1bay         7dwk-1a         7d         24-Mar-15 08         35-Mar-15 18         30d         ■ WB From West, Lining CH 4015 - 4020 = 1bay           WB From West, Lining CH 4015 - 4020 = 1bay         7dwk-1a         7d         24-Mar-15 08         35-Mar-15 18         30d         ■ WB From West, Lining CH 4015 - 4020 = 1bay           WB From West, Lining CH 4025 - 4020 = 1bay         7dwk-1a         7d         24-Mar-15 08         14-Apr-15 18         30d         ■ WB From West, Lining CH 4025 - 4020 = 1bay           WB From West, Lining CH 4025 - 4020 = 1bay         7dwk-1a         7d         15-Mar-15 08         14-Apr-15 18         30d         ■ WB From West, Lining CH 4025 - 4020 = 1bay           WB From West, Lining CH 4025 - 4020 = 1bay         7dwk-1a         7d         15-Apr-15 18         30d         ■ WB From	A9430	WB From West, Lining Cl	:H 3990 - 3995 = 1bay	7d/wk-1a		4-Feb-15 08	23-Feb-15 18	30d		■ WB	rom West, Lining CH 3990 -	3995 = 1bay			
WB From West, Lining CH 4000 - 4005 = 1bay         7dvwk-1a         7d         03-Mar-15 08         03-Mar-15 18         30d         B         WB From West, Lining CH 4000 - 4010 = 1bay         Promotest, Lining CH 4000 - 4010 = 1bay         Promotest, Lining CH 4000 - 4010 = 1bay         Promotest, Lining CH 4000 - 4015 = 1bay         Promotest, Lining CH 4010 - 4010 = 1bay	A9470	WB From West, Lining Cl	:H 3995 - 4000 = 1bay	7d/wk-1a		4-Feb-15 08	02-Mar-15 18	30d		MB WB	From West, Lining CH 3995	4000 = 1bay			
WB From West, Lining CH 4005 - 4010 = 1bay         7d wk-ta         7d low-ta         7d low-ta         7d low-ta         7d low-ta         17-Mar-15 08         15-Mar-15 18         30d         8         Prepared by William CH 4015 - 4010 - 4015 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Ch 4015 - 4020 - 1bay         Prepared by William Caltara         Prepared b	A9435	WB From West, Lining Cl	:H 4000 - 4005 = 1bay	7d/wk-1a		3-Mar-15 08	09-Mar-15 18	30d		M.	From West, Lining CH 4000	1-4005 = 1bay			
WB From West, Lining CH 4010 - 4015 = 1bay         7d wk-1a         7d         17-Mar-15 08         23-Mar-15 18         30d         WB From West, Lining CH 4010 - 4015 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d         24-Mar-15 08         30-Mar-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d         31-Mar-15 08         07-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d         15-Apr-15 08         14-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d         15-Apr-15 08         21-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d         15-Apr-15 08         21-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4020 - 4025 = 1bay         7dwk-1a         7d 15-Apr-15 08         21-Apr-15 18         30d         Properted by William Caluza           A 15 of 18         China State Construction Engineering (Hong Kong) Lid         Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section) <td>A9360</td> <td>WB From West, Lining Cl</td> <td>:H 4005 - 4010 = 1bay</td> <td></td> <td>T</td> <td>0-Mar-15 08</td> <td>16-Mar-15 18</td> <td>30d</td> <td></td> <td></td> <td>B From West, Lining CH 400</td> <td>15 - 4010 = 1bay</td> <td></td> <td></td> <td></td>	A9360	WB From West, Lining Cl	:H 4005 - 4010 = 1bay		T	0-Mar-15 08	16-Mar-15 18	30d			B From West, Lining CH 400	15 - 4010 = 1bay			
WB From West, Lining CH 4015 - 4020 = 1bay         7dvwk-1a         7d         24-Mar-15 08         30-Mar-15 18         30d         Total From West, Lining CH 4025 - 4030 = 1bay         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4025 - 4030 = 1bay         7dvwk-1a         7d         08-Apr-15 08         14-Apr-15 18         30d         WB From West, Lining CH 4025 - 4030 = 1bay           WB From West, Lining CH 4025 - 4030 = 1bay         7dvwk-1a         7d         08-Apr-15 08         14-Apr-15 18         30d         WB From West, Lining CH 4025 - 4030 = 1bay           WB From West, Lining CH 4025 - 4030 = 1bay         7dvwk-1a         7d         15-Apr-15 08         21-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4025 - 4030 = 1bay         7dvwk-1a         7d         15-Apr-15 08         21-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           WB From West, Lining CH 4030 - 4035 = 1bay         7dvwk-1a         7d         15-Apr-15 08         21-Apr-15 18         30d         WB From West, Lining CH 4020 - 4025 = 1bay           Annual Bay Common West, Lining CH 4030 - 4035 = 1bay         7dvwk-1a	A9365	WB From West, Lining Cl	:H 4010 - 4015 = 1bay			7-Mar-15 08	23-Mar-15 18	30d		•	WB From West, Lining CH 4u	110 - 4015 = 1bay			
WB From West, Lining CH 4020 - 4025 = 1bay         7d/wk-1a         7d         31-Mar-15 08         17-Apr-15 18         30d         Image: CH 4020 - 4025 = 1bay         Image: CH 4020 - 4020 = 1bay         Image: CH 4020 - 4025 = 1bay         Image: CH 4020 - 4020 = 1bay	A9370	WB From West, Lining Cl	:H 4015 - 4020 = 1bay		T	4-Mar-15 08	30-Mar-15 18	30d			WB From West, Lining CH	4015 - 4020 = 1ba	<u> </u>		
WB From West, Lining CH 4025 - 4030 = 1bay         7d/wk-1a         7d         08-Apr-15 08         14-Apr-15 18         30d         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Central Wan Chail By Pass - Tunnel ( Causeway Bay Typhoon Shelfer Section)         Image: Contract No. HY/2009/15 - Centract No. HY/2009/15 - Centract No. HY/2009/15 - C	A9375	WB From West, Lining C	:H 4020 - 4025 = 1bay	7d/wk-1a		1-Mar-15 08	07-Apr-15 18	30d			WB From West, Lining Cl	1 4020 - 4025 = 11	yay		
WB From West, Lining CH 4030 - 4035 = 1bay  Td/wk-ta  Td/who Td/wg CH 4030 - 4035 = 1bay  Td/wc-ta  Td/wc-	A9380	WB From West, Lining Cl	:H 4025 - 4030 = 1bay	7d/wk-1a		8-Apr-15 08	14-Apr-15 18	30d		*****	■ WB From West, Lining C	H 4025 - 4030 = 1	fbay		
15 of 18 Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	A9385	WB From West, Lining C	:H 4030 - 4035 = 1bay	7d/wk-1a		5-Apr-15 08	21-Apr-15 18	30d		******	WB From West, Lining	CH 4030 - 4035 =	· 1bay	******	
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Summ		rf 18								bared by William Caluza				
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Actual	al Level of Effort	China §	State Constructio	n Engin	eering (Hong	Kong) Ltd		Ior	1st submiss	Vision	Approved	- 2	11/11/11	010000000000000000000000000000000000000
WORKS PROGRAMME REV M	Remai		ntract No. HY/2009/15 - Centra	al Wan Chai By P	ass - Tu	nnel (Cause	way Bay Typh	loon She	ter Section)			-2		の SONSTRUCTION ENCINI	ERING CHONG KONG) E
	Critica	al Remaining Work		WORKS PRO	OGRAI	WME REV.	Σ								

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10   10   10   10   10   10   10   10				-			rioat		Q2 Q3			
100   100	A9390	WB From West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a			28-Apr-15 18	30d		■ WB From West, Lining	CH 4035 - 4040 = 1bay		
100	A9330	WB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	123		06-May-15 18	30d		WB From West, Linir	1g CH 4040 - 4045 = 1bay		
005 = 1999	A9335	WB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	Ť		13-May-15 18	90g		■ WB From West, Lin	ing CH 4045 - 4050 = 1bay		
100	A9340	WB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a			20-May-15 18	90e		■ WB From West, L	ining CH 4050 - 4055 = 1bay		
008 = 1899	A9345	WB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	1		27-May-15 18	90e		■ WB From West,	Lining CH 4055 - 4060 = 1bay		
100	A9350	WB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a			03-Jun-15 18	P06		■ WB From Wes	t, Lining CH 4060 - 4065 = 1bay		
100	A9355	WB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	T		08-Jun-15 18	30d		■ WB From We			
089 = 169y	A9415	WB From West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a		Jul-15 08	15-Jul-15 18	PO		■ WB Fr	om West, Lining CH 4076 - 4075	5 = 1bay	
100	A9475	WB From West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	Ť		20-Jul-15 18	В	*****	■ WBF	rom West, Lining CH 4075 - 408	80 = 1bay	
150	A9440	WB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a			25-Jul-15 18	В		■ WB	From West, Lining CH 4080 - 40	385 = 1bay	22777
1508 = 1589	A9445	WB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a			30-Jul-15 18	В		BW ■	From West, Lining CH 4085 - 40	.090 = 1bay	
150 = 1189y	A9450	WB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a		Jul-15 08	04-Aug-15 18	B	******	■ WE	3 From West, Lining CH 4090 - 4	4095 = 1bay	
150 = 1589	A9455	WB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	10000	Aug-15 08	09-Aug-15 18	В		s =	/B From West, Lining CH 4095 -	- 4100 = 1bay	
155 = 1589	A9420	WB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a		Aug-15 08	14-Aug-15 18	B			WB From West, Lining CH 4100	- 4105 = 1bay	
125	A9425	WB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a		Aug-15 08	19-Aug-15 18	p		•	WB From West, Lining CH 4105	5 - 4110 = 1bay	
125 = 1bay   7dvk-1a   5d   22-Aug-15 08   02-Sap-15 18   0d   125 = 1bay   7dvk-1a   5d   02-Sap-15 18   0d   125 = 1bay   7dvk-1a   5d   04-Sap-15 08   12-Sap-15 18   0d   125 = 1bay   7dvk-1a   5d   04-Sap-15 08   12-Sap-15 18   0d   125 = 1bay   7dvk-1a   5d   04-Sap-15 08   12-Sap-15 18   0d   12-Sap-15 18	A9460	WB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a		Aug-15 08	24-Aug-15 18	В		-	WB From West, Lining CH 411	10 - 4115 = 1bay	
130 = 1 bay   7 dwk-1a   5d   30-Aug-15 0B   09-Sep-15 1B   0d     130 = 1 bay   7 dwk-1a   5d   04-Sep-15 0B   09-Sep-15 1B   0d     130 = 1 bay   7 dwk-1a   5d   04-Sep-15 0B   19-Sep-15 1B   0d     130 = 1 bay   7 dwk-1a   5d   04-Sep-15 0B   19-Sep-15 1B   0d     130 = 1 bay   7 dwk-1a   5d   04-Sep-15 0B   18-Sep-15 1B   0d     130 = 1 bay   7 dwk-1a   115d   08-Jul-15 0B   18-Sep-15 1B   0d     130 = 1 bay   7 dwk-2   0d   30-Sep-14 1B   -249d   4 Handover TZ5 to MTR     130 = 1 bay   7 dwk-2   0d   30-Sep-14 1B   -249d   4 Handover TZ5 to MTR     14	A9465	WB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a		Aug-15 08	29-Aug-15 18	В			WB From West, Lining CH 41	115 - 4120 = 1bay	
135 = 1 bay	A9395	WB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a		Aug-15 08	03-Sep-15 18	PO			■ WB From West, Lining CH 4	1120 - 4125 = 1bay	
135.5 = 1 bay	A9400	WB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a		Sep-15 08	08-Sep-15 18	po	••••		■ WB From West, Lining CH	4125 - 4130 = 1bay	
196.5 = 1bay	A9405	WB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a		Sep-15 08	13-Sep-15 18	po			WB From West, Lining CH	(4130 - 4135 = 1ba	>
ed Turnel Works (orig. 7d/wk-2 0d 02-Nov-15 18* 0d 7d/wk-2 0d 30-Sep-14 18* -249d 7d/wk-2 0d 10-Nov-14 18* -290d 4 Handover TZ6 to MTR 4 Handover TZ6 to MTR 7d/wk-2 0d 10-Nov-14 18* -290d 4 Handover TZ6 to CWB(T2) 4 Handover TZ7 to CWB(T2) 4 Handover	A9410	WB From West, Lining CH 4135 - 4136.5 = 1bay	7d/wk-1a		Sep-15 08	18-Sep-15 18	В				H 4135 - 4136.5 = 1	lbay
Provide access to CWB(CC) Contractor   1154   08-Jul-15 08   02-Nov-15 18   04	OHVD(10r	m/bay) / Utility Trough										
red Tunnel Works (orig. 7/dvwk-2 0d 02-Nov-15 18* 0d	A9480	WB From West OHVD and utility trough =, 153= 16 bays @ 10m/bay @ 7d/bay			Jul-15 08	02-Nov-15 18	В		I	WB From West (	OHVD and utility tro	ough =, 153= 16 bays @
Td/wk-2	Completion	n of KD10- Section 5										*****
7 d/wk-2 0d 30-Sep.14 18 -249d  7 d/wk-2 0d 10-Nov-14 18 -290d  7 d/wk-2 0d 10-Nov-14 18 -290d  ↑ Handover TZ6 to CWB(T2)  ↑ Han	A8445	KD10- Section 2: Completion of Mined Tunnel Works (orig. Target KD10- 2 Nov 2015)	7d/wk-2	PO		02-Nov-15 18*	PO		******	♦ KD10- Section 2:	: Completion of Min	ed Tunnel Works (orig. T
Handover TZ6 to MTR	Interface	works with other Contracts				100000						
Handover T24 to CWB(T2)	S5_60115	Handover TZ6 to MTR	7d/wk-2	PO		30-Sep-14 18		Handover TZ6 to MTR		*****		
Provide access to CWB (CC) Contractor - TS1 & TS2  7d/wk-2  7d/wk-	S6_5283	Handover TZ4 to CWB(T2)	7d/wk-2	ро		10-Nov-14 18	-290d	<ul> <li>Handover TZ4 to CWB(T2</li> </ul>				
16 of 18  China State Construction Engineering (Hong Kong) Ltd  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	S6_5275	Provide access to CWB (CC) Contractor- TS1 & TS2	7d/wk-2	PO		21-Nov-14 18*	-85d	◆ Provide access to CWB (	CC) Contractor- TS1 & TS2			
China State Construction Engineering (Hong Kong) Ltd  26-Sep 1st submission  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Summ								bared by William Caluza			4
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)  WORKS PROGRAMME REV. M	Actual		tate Constructio	n Engine	ering (Hong	Kong) Ltd		1st submiss	N SIGN	uphinden white	一門十部一門	0/1温水(共用
WORKS PROGRAMME REV. M	Rema		Wan Chai By F	ass - Tun	nel ( Cause	vay Bay Typh	oon Shelter	Section)			AN 米十年にWIE CONSTRUCTION BY	作んだ FA TA FA LINGING IN INCINE IN
	Critica	I Remaining Work	WORKS PR	OGRAM	MF REV	5						

1982   Protection and Control Contro	Activity ID	Activity Name	Calendar								
1,120-01-12-12-12-12-12-12-12-12-12-12-12-12-12			_			Float	10			025	03
1, 11, 1250, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1	S6_5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined Tunnel		PO	31-Mar-16 18*	-124d				Provide access	CWB (CC) C
1964-1964   1964	Stage and	Section Completion									
Property 19	KD_5735	KD8 - Completion of Section 3, (1326d)		po	30-Sep-14 18*		KD8 - Completion of Section 3, (1326d)				
17-040-14 19   -2072	KD_5720	KD5 - Achievement of Stage 5, (1152d)		PO	16-0ct-14 18*	-323d	<ul><li>KD5 - Achievement of Stage 5, (1152d)</li></ul>				
17-10-10-10-10-10-10-10-10-10-10-10-10-10-	KD_5760	KD13 - Completion of Section 7B, (1152d)		PO	17-Nov-14 18"	-353d	<ul> <li>KD13 + Completion of Section 7B, (1152d)</li> </ul>				
19   19   19   19   19   19   19   19	KD_5730	KD7 - Completion of Section 2, (1152d)		PO	17-Nov-14 18*	-297d	<ul> <li>KD7 - Completion of Section 2, (1152d)</li> </ul>				
1985   1985	KD_5740	KD9 - Completion of Section 4, (1739d)		PO	10-Nov-15 18*	-132d	2000		KD9 - Completion of	Section 4, (1739d)	o.
Period   Control (1, KDS +28)	KD_5745	KD10 - Completion of Section 5, (1863d)		po	25-Mar-16 18	-144d		*****		♦ KD10 - Complet	n of Section 5, (
## Perten M(4), KD6 *28	KD_5750	KD11 - Completion of Section 6, (1949d)	7d/wk-2	PO	23-May-16 18*	-121d				♦ KD1	- Completion of
Pertical Handbower - Pertical N(4), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(4), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Od-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   15-De-14 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   704wk-2   Od   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   0d   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   0d   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   0d   22-Ad-16 ttp - 4504   9-Pertical Handbower - Pertical N(16), KDB +28   0d   22-Ad-16 ttp - 4504   9-Pertical Handbower - P	Portion H	andover Date									
Portion Handover - Portion V (b), ICID +28         704wk-2         04         22-O-61-14 IF -504         9-Pertion Handover - Portion V (b), ICID +28         704wk-2         04         22-O-61-14 IF -504         9-Pertion Handover - Portion V (b), ICID +28         9-Pertion Handover - Portion V (c), ICID +28         9-	CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	P0	28-Oct-14 18*	-50d	◆ Portion Handover - Portion IV(4), KD8 +28				
Perticut Handbows - Particut M (8), KOB 428   704442   04   28-Oct-14 16" - 504   9 Perticut Handbows - Particut M (8), KOB 428   704442   04   28-Oct-14 16" - 504   9 Perticut Handbows - Particut M (8), KOB 428   704442   04   28-Oct-14 16" - 504   9 Perticut Handbows - Particut M (8), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (9), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-14 16" - 7044   9 Perticut Handbows - Particut M (19), KOB 428   704442   04   15-Dec-15 16" - 504   15	CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	po	28-Oct-14 18*	-50d	♦ Portion Handover - Portion V (5), KD8 +28				2000000
Portion Hundover - Portion XIIII (13b), KD3 +28   744wk-2	CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	po	28-Oct-14 18*	-50d	<ul> <li>Portion Handover - Portion VI (5), KD8 +28</li> </ul>				V2445
Portion Handover - Portion XIII (13), KD3 +28   7444k-2	CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	Po	28-Oct-14 18*	-50d	<ul> <li>Portion Handover - Portion XIIIB (138), KD8 +28</li> </ul>			*****	
Portion Handover - Portion III (3), KD3 +28   7dwk-2	CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	po	28-Oct-14 18*	-50d	<ul> <li>Portion Handover - Portion XXII (22), KD8 +28.</li> </ul>				
Portion Handover - Portion XIII (13A), KD7 +28   754/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion VIII (8), KD7 +28   Portion Handover - Portion XIII (13A), KD7 +28   Portion Handover - Portion XIII (13), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (13), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (13), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (13), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14), KD1 +28   T44/kk2   Od   15-Dec)14 18° -7364   Portion Handover - Portion XIII (14)   T4/kk2   T4/	CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	PO	28-Oct-14 18*	-50d	◆ Portion Handover - Portion III (3), KD8 +28				
Portion Handover - Portion VIII (8), KO7 +28   7dvik-2	CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	PO	15-Dec-14 18*	p62-	<ul> <li>Portion Handover - Portion XIIIA (13A), KD</li> </ul>	7 +28			
Portion Handover - Portion XIAA (14A), KD7 +28	CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Po	15-Dec-14 18*	p62-	♦ Portion Handover - Portion VIII (8), KD7 +:				
Portion Handover - Portion XVIII (23), KD7 +28   T-dvw-2	CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	po	15-Dec-14 18*	p62-		7 +28		-3-6-4	
Portion Handover - Portion XXIII (19), KD10 +28   740kk-2	CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	PO	15-Dec-14 18*	P62-	-	-28			
Pertion Handover - Pertion XVIII (19), KD10 +28   74wk-2   0d   22-Dec-15 18*   0d	CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	PO	15-Dec-14 18*	p62-	<ul> <li>Portion Handover - Portion XXIII (23), KDJ</li> </ul>	+28			
Portion Handover - Portion XJ (11), KD8 +28   74wk-2	CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	PO	30-Nov-15 18*	В		******	Portion Handov	er - Portion XVIII (18), I	D10 +28
Portion Handover - Portion IX (9), KD10 +28	CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	PO	27-Dec-15 18*	В			Portion Ha	Indover - Portion XI (11	KD9 +28
Portion Handover - Portion XVI (19), KD10 +28   7dwwk-2   0d   22-Apr-16 18" -52d	CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	PO	22-Apr-16 18"	-52d				Portion Ha	dover - Portion
Portion Handover - Portion XVII (16), KD10 +28	CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2	PO	22-Apr-16 18*	-52d		******		Portion Ha	Idover - Portion
Portion Handover - Portion XM (177), KD10 +28	CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2	PO	22-Apr-16 18*	-52d				♦ Portion Ha	idover - Portion
Portion Handover - Portion XXR (19), KD10 +28	CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2	PO	22-Apr-16 18*	-52d				Portion Ha	dover - Portion
Portion Handover - Portion XXB (20B), KD10 +28   7d/wk-2   0d   22-Apr-16 18" -52d   Prepared by William Caluza   China State Construction Engineering (Hong Kong) Ltd   26-Sep   1st submission   China State Construction Engineering (Hong Kong) Ltd   26-Sep   1st submission   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)   Contract No. HY/2009/15 - Cent	CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2	P0	22-Apr-16 18*	-52d				Portion Ha	dover - Portion
17 of 18  Prepared by William Caluza  China State Construction Engineering (Hong Kong) Ltd  26-Sep 1st submission  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	CD_5780	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2	PO	22-Apr-16 18*	-52d				♦ Portion Ha	dover - Portion
China State Construction Engineering (Hong Kong) Ltd  28-Sep 1st submission  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Sumr						Prepared by William Cal	3 Shortest American			
Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)	Actus		ate Constructio	n Engineering	(Hong Kong) Ltd		1st submission	na n	0.70	(共活)是一群	加い、温水
	Remi		Wan Chai By F	ass - Tunnel (	Sauseway Bay Typ	hoon Shelter	Section)			ONSTRUCTION ENGINEERING	CHONG KONG) LED.
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2015	5					Prepared by William Caluza Revision Ch	evision	-			
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Float		18 0d	18 Od	18 Od	18 0d		1	=			
Finish	20-Jun-16 18	20~Jun-16 18	20-Jun-16 18	20-Jun-16 18	20-Jun-16 18		(Hong Kong)	(פווסא פווסה)			
nal Start				13000			Engineering	Engineering			
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Caler	7d/n	WPL	Vb7	V/P/	VpZ		China State Construction Engineering (Hong Kong)   td	nina state con			
	11 +28	111 +28	11 +28	KD11 +28	D11 +28		t	3			
	ortion VII (7), KD	rtion XII (12), KD	ortion X (10), KD	ortion XXA (20A),	ortion XXI (21), Ki	18 of 18					
Activity Name	Portion Handover - Portion VII (7), KD11 +28	Portion Handover - Portion XII (12), KD11 +28	Portion Handover - Portion X (10), KD11 +28	Portion Handover - Portion XXA (20A), KD11 +28	Portion Handover - Portion XXI (21), KD11 +28		Actual Level of Effort	1			
Activity ID	CD_5690	CD_5725	CD_5715	CD_5785	CD_5795	Summary Bar	Actual Le			Actual W	Actual W