

Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Quarterly EM&A Report (December 2014-February 2015)

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-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 FEP-06/356/2009 AND FEP-07/356/2009

> QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

- DECEMBER 2014 TO FEBRUARY 2015 -

CLIENTS:

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and

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CHECKED BY:

Raymond Dai Environmental Team Leader

DATE:

2-3 March 2015

Ref.: AACWBIECEM00 0 6387L.15



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

By Post and Fax (2691 2649)

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Quarterly Environmental Monitoring and Audit Report (Dec 2014 to Feb 2015) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the Quarterly Environmental Monitoring and Audit (EM&A) Report for December 2014 to February 2015 received by e-mail on 23 March 2015 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission and thereby write to verify the captioned submission.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

c.c. HyD CEDD AECOM Lam Mr. Bond Chow Mr. Jason Cheung Mr. Stephen Lai Mr. Raymond Dai

by fax: 2714 5289 by fax: 2577 5040 by fax: 2691 2649 by fax: 2882 3331

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EXECUTIVE SUMMARY

- . . .

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report - December 2014 to February 2015 prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring and audit findings and information during the period from December 2014 to February 2015. The cut-off date of reporting is at 27th of each reporting period.

Construction Activities for the Reported Period

ii. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized as below:

Table I	Principal Worl	k Activities for Contract no. HK/2	2009/01
Decemb	oer 2014	January 2015	February 20

HS for rock trimming works or cross harbour water main	

During this reporting period, the principal work activities for Contract no. HK/2009/02 are iii. summarized as below:

	December 2014		January 2015		February 2015
•	Works of covered	•	Works of covered	•	Works of covered walkway
	walkway		walkway	•	ABWF work
•	Drainage work	•	Drainage work	•	Dredging and Reclamation
•	ABWF work	•	ABWF work		at WCR3
•	Demolition of Existing	•	Dredging and	•	Air lifting operation at
	Wan Chai Ferry Pier		Reclamation at WCR3		WCR3
•	Dredging and				
	Reclamation at WCR3				

Table II Principal Work Activities for Contract no. HK/2009/02

iv. Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

Table III	Principal Work Activities for Contract no. HY/2009/15

Dec	ember 2014		January 2015		February 2015
Remov	al of D-wall at	•	Temporary reclamation at	•	Installation of seawall
TPCW	AE & TS4		TPCWAW		blocks
Tempo	orary reclamation	•	Maintenance dredging	•	Backfilling works for
works	and installation of	•	Reinstatement of existing		formation of TZ5
seawa	II blocks at		bermstone and seawall at	•	Reinstatement of seabed
TPCW	/AW		TS4		at TS4
Mainte	nance dredging	•	Installation of seawall blocks		



	December 2014	January 2015	February 2015
•	Reinstatement of	and backfilling works for	
	existing bermstone and seawall at TS4	formation of TZ5	

v. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table IV Principal Work Activities for Contract no. HY/2009/19

December 2014	January 2015	February 2015
Construction of Dolphin Cap	• Nil	• Nil

vi. Contract no. HK/2012/08 was commenced on 5 March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

Table V	Dringing Wark Activities for Contract no. 111/2012/00
Table V	Principal Work Activities for Contract no. HK/2012/08

	December 2014		January 2015		February 2015
•	ELS for box culvert L at	•	ELS for box culvert L at	•	Placing of levelling stones
	Lung King Street		Lung King Street	•	Dry dock construction
•	Removal of rock armour	•	Placing of levelling stones	•	Formation of rock bund
•	Placing of levelling	•	Dry dock construction	•	Filling works
	stones	•	Installation of caisson	•	Casing installation on
•	Dry dock construction		seawall		temporary piling platform
•	Installation of caisson	•	Filling works		
	seawall				
•	Filling works				

vii. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

Table VIPrincipal Work Activities for Contract no. HY/2010/08

	December 2014		January 2015		February 2015
•	Rock filling works	•	Rock filling works	•	Rock filling works
•	Dredging works	•	Dredging works	•	Seawall blocks installation
•	Seawall blocks	•	Seawall blocks installation		works
	installation	•	Sheet piling works, welding	•	Pre-treatment works
•	Sheet piling works,		& struts installation works	•	Bar fixing works
	welding & struts		at Outfall Q	•	Diaphragm Wall and
	installation works at	•	D-wall construction works		Barrette construction works
	Outfall Q			•	Fill Disposal works
•	Seawater intake				
	diversion works				
•	Installation of water tank				



Noise Monitoring

- viii. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project. Investigation found that exceedances were not related to the Project.
- ix. Two limit level exceedances at M6 HK Baptist Church Henrietta Secondary School were recorded on 11 and 16 December 2014 in December 2014 reporting month. The exceedances were concluded as non-project related.
- x. No action and limit level exceedance was recorded in January and February 2015 reporting month.

Real-time Noise Monitoring

- xi. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- xii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre have been commenced on 5 October 2010 for the filling works of Contract no. HY/2009/11.
- xiii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot commenced external wall renovation since 1 June 2012
- xiv. Oil Street Community Liaison Centre was confirmed to be demolished in mid-October by CWB RSS. This presented a need for relocation of RTN2 – Oil Street Community Liaison Centre. After liaison with Hong Kong Electric, permission was granted on 21 Sep 2012 for real time noise monitoring set up at City Garden Electric Centre (RTN2a – Electric Centre), which is a representative of the noise sensitive receiver City Garden. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xv. No project related exceedance was recorded in December 2014, January and February 2015 reporting months at RTN2a-Hong Kong Electric Centre during this reporting quarter.

Air Quality Monitoring

February 2015 respectively.

xvi. Due to electricity interruption, the following 24hr TSP monitoring events were rescheduled in this reporting quater,
24hr TSP monitoring at CMA3a was rescheduled from 8 December 2014 and 13 December 2014 to 9 December 2014 and 15 December 2014 respectively.
24hr TSP monitoring at CMA3a was rescheduled from 27 January 2015 to 28 January 2015.
24hr TSP monitoring at CMA3a was rescheduled from 2 and 7 February 2015 to 4 and 10

24hr TSP monitoring at CMA4a was rescheduled from 17 February 2015 to 18 February 2015.



- xvii. 1hr TSP monitoring at CMA5b and CMA6a was rescheduled from 20 December 2014 to 22 December 2014 due to baseline capturing at the monitoring location.
- xviii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xix. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively.
- xx. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- xxi. Due to Chinese New Year Holiday and no marine activities will be conducted under all WDII-CWB contracts according to the information provided by the Contractor(s), the water quality monitoring event at all WQM stations was cancelled on 20 February 2015 during flood tide and ebb tide.
- xxii. Due to malfunctioning of the intake transfer pump and resulting unavailability of seawater supply to Windsor House cooling intake pump house at the designated water tank, the water quality monitoring at monitoring station C7 was cancelled on 8 Jan 2015 during flood tide and ebb tide.
- xxiii. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014.
- xxiv. Due to misplacement of lock by WSD at the access gate for WSD19 cooling water intake location, the WQM at monitoring station WSD19 were cancelled on 8 December 2014 during both flood tide and ebb tide.
- xxv. Due to blockage of access road to monitoring location at Ex-PCWA, Enhance DO Monitoring at monitoring station Ex-PCWA SW on 5 December 2014 during ebb tide was cancelled.
- xxvi. Water quality monitoring was conducted at 8 monitoring stations namely WSD19, C1, C7, P1, P3, P4, P5 and RW21-P789 during the reporting period.
- xxvii. There were 2 action level and no limit level exceedances of SS recorded in December 2014 reporting month. Investigation found that the exceedances were not related to Project works.
- xxviii. There was no action level and 1 limit level exceedance of turbidity recorded in January 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- xxix. There were no action level and 1 limit level exceedance of turbidity recorded in February 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- xxx. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period.
- xxxi. There were no action level exceedances and 3 limit level exceedances of enhanced dissolved oxygen recorded in December 2014 reporting month. Investigation found that the exceedances are not related to the Project works
- xxxii. There were no action level and 1 limit level exceedance of turbidity recorded in January 2015 reporting month. Investigation found that the exceedance was not related to Project works.

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- xxxiii. There were no action level exceedances and 3 limit level exceedance of enhanced dissolved oxygen recorded in February reporting month. Investigation found that the exceedance was not related to the Project works.
- xxxiv. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- xxxv. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- xxxvi. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- xxxvii. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- As confirmed by WDII RSS and IEC, the cross harbor dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- xxxix. Action and Limit level of water quality monitoring was transited from wet season to dry season from 1 October 2014.
 - xI. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
 - xli. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
 - xlii. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.
 - xliii. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
 - xliv. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.



- xlv. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
- xlvi. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- xlvii. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- xlviii. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- xlix. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
 - I. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
 - Ii. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
 - Iii. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
- Iiii. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- liv. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- Iv. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a



fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.

- Ivi. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- Ivii. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

Complaints, Notifications of Summons and Successful Prosecutions

- Iviii. No environmental complaint received in December 2014 reporting month.
- lix. One environmental complaint received in January 2015 reporting month.
- Ix. A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015.
- Ixi. According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were conducted under HY/2009/15 at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.
- Ixii. Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.
- Ixiii. In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.
- Ixiv. As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality



impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.

Ixv. No environmental complaint received in February 2015 reporting month.



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-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 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 Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- **1.1.3.** This report documents the finding of EM&A works during the period from December 2014 to February 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. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above



- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above
- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Flojects dilder this Floject							
ltem	Designated Project	EIAO Reference	Reason for inclusion				
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length				
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads				
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point				
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall				
DP6	Dredging for the Cross- harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point				

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

2.3.1 Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-05/356/2009

2.3.2 The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.



<u>Contract no. HY/2009/11 – Wan Chai Development Phase II – Central – Wan Chai Bypass -</u> North Point Reclamation

- 2.3.3 The construction works were completed and the FEP-01/356/2009 was surrendered by the Contractor on 22 October 2012.
- 2.3.4 Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.5 The details of individual contracts are summarized in *Table2.2*.

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong	DP3, DP6	23 July 2010
	Convention and Exhibition Centre	DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and	550	17 March 2010
	Central – Wan Chai Bypass – North Point Reclamation	DP3	(Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-		22 March 2011
	Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	(Completed)
04/HY/2006	Reconstruction of Bus Terminus near	DP1	September 2010
	Man Yiu Street and Man Kwong Street		(Completed)
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling	DP1	5 October 2010
	works.		(Completed)
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	10 March 2014
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central-		
	Wan Chai Bypass at Wan Chai	DP1,DP2, DP3	5 March 2013
	West		
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

Table 2.2 Details of Individual Contracts under the Project



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2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. 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.
- 2.4.2. 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 2.3*:

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
Chun Wo – Leader Joint	Contractor under Contract	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Venture	no. HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896	
		Engineer Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Kenneth Chan	9160 3850	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057	
Chun Wo – CRGL Joint	Contractor under Contract	Project Manager	Mr. Alfred Leung	3658-3022	2827 9996
Venture	no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State	Contractor	Project Director	K C Cheung	3557 6399	2566 2192
Construction Engineering (HK) Ltd.	under Contract no. HY/2009/15	Site Manager	J H Chen	3557 6368	
		Contractor's Representative	Andrew Wong	3557 6358	
		Contractor's Representative	Gene Cheung	3557 6395	
		Senior Project Manager	Eddie Tang	35576452	

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax	
		Environmental Officer	Mr. Daniel Sin	3557 6347		
Gammon	Contractor	Project Manager	Mr. Paul Lui	9095 7922	2529 2880	
-Leader JV	under Contract no. HK/2010/06	Site Agent	Mr. Eric Yip	2529 2068		
		Environmental Officer	Clement Pang	9735 9200		
		Environmental Supervisor	Jacky Cheung	9779 2292		
Chun Wo - CRGL -	Contractor under Contract	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013	
MBEC_Joint Venture	no. HY/2009/19	Site Agent	Mr. Eric Yip	252902068		
		Environmental Engineer	Mr. Calvin Leung	9286 9208		
		Environmental Manager /	Mr. M.H. Isa	9884 0810		
		Environmental Officer				
		Construction Manager (Marine)	William Luk	9610 1101		
		Construction Manager (Land)	Patrick Cheung	9643 3012		
		Construction Manager (Land)	Eric Fong	6191 9337	-	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010		
China State-	Contractor	Project Director	Andrew Tse	9137 1811	2877 1522	
Leader JV	_eader JV under Contract		Victor Wu	9193 8871		
	no. HK/2012/08	Deputy Project Manager	George Cheung	9268 1918		
		Site Agent	Paul Lui	9095 7922		
		Environmental Officer	James Ma	9130 9549		
		Environmental Supervisor	Ching Man, Chan	6050 4919		
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061	
		Project Manager	Chan Ying Lun	3418 3001		
		Deputy Project Manager	Chris Leung	3467 4299		
		Site Agent	Dave Chan	3467 4277	1	
		Environmental Officer	C.M. Wong	3557 6464		



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	34652888	34652899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.5 Principal Work and Activities

2.5.1. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized in *Table 2.4*.

Table 2.4 Principal Work Activities for Contract no. HK/2009/01

December 2014	January 2015	February 2015
• Nil	IHS for rock trimming works	• Nil
	for cross harbour water main	

2.5.2. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized in *Table 2.5*.

Table 2.5 Principal Work Activities for Contract no. HK/2009/02

	December 2014		January 2015		February 2015
•	Works of covered walkway	•	Works of covered	•	Works of covered walkway
•	Drainage work		walkway	•	ABWF work
•	ABWF work	•	Drainage work	•	Dredging and Reclamation
•	Demolition of Existing Wan	•	ABWF work		at WCR3
	Chai Ferry Pier	•	Dredging and	•	Air lifting operation at
•	Dredging and Reclamation		Reclamation at WCR3		WCR3
	at WCR3				

2.5.3. Major construction activities for Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

December 2014	January 2015	February 2015
Removal of D-wall at	Temporary reclamation at	Installation of seawall
TPCWAE & TS4	TPCWAW	blocks
Temporary reclamation	Maintenance dredging	Backfilling works for
works and installation of	Reinstatement of existing	formation of TZ5
seawall blocks at	bermstone and seawall at	• Reinstatement of seabed at
TPCWAW	TS4	TS4

Table 2.6 Principal Work Activities for Contract no. HY/2009/15



	December 2014		January 2015	February 2015
•	Maintenance dredging	•	Installation of seawall blocks	
•	Reinstatement of existing		and backfilling works for	
	bermstone and seawall		formation of TZ5	
	at TS4			

2.5.4. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table 2.7 Principal Work Activities for Contract no. HY/2009/19

December 2014	January 2015	February 2015
Construction of Dolphin Cap	• Nil	• Nil

2.5.5. Contract no. HK/2012/08 was commenced on March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

Table 2.8	Principal Work Activities for Contract no. HK/2012/08	
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	December 2014		January 2015		February 2015
•	ELS for box culvert L at	•	ELS for box culvert L at	•	Placing of levelling stones
	Lung King Street		Lung King Street	•	Dry dock construction
•	Removal of rock armour	•	Placing of levelling stones	•	Formation of rock bund
•	Placing of levelling	•	Dry dock construction	•	Filling works
	stones	•	Installation of caisson	•	Casing installation on
•	Dry dock construction		seawall		temporary piling platform
•	Installation of caisson	•	Filling works		
	seawall				
•	Filling works				

2.5.6. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

Table 2.9 Principal Work Activities for Contract no. HY/2010/08

	December 2014		January 2015		February 2015
•	Rock filling works	•	Rock filling works	•	Rock filling works
•	Dredging works	•	Dredging works	•	Seawall blocks installation
•	Seawall blocks	•	Seawall blocks installation		works
	installation	•	Sheet piling works, welding	•	Pre-treatment works
•	Sheet piling works,		& struts installation works	•	Bar fixing works
	welding & struts		at Outfall Q	•	Diaphragm Wall and
	installation works at	•	D-wall construction works		Barrette construction works
	Outfall Q			•	Fill Disposal works
•	Seawater intake				
	diversion works				



Γ	December 2014	January 2015	February 2015
•	Installation of water tank		

2.5.7. 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 STATIONS

3.1.1. The noise monitoring stations for the Project are listed and shown in *Table 3.1* and *Figure* <u>3.1</u>. <u>Appendix 3.1</u> shows the established Action/Limit Levels for the monitoring works.

Station	Description	
M1a	Harbour Road Sports Centre	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

 Table 3.1
 Noise Monitoring Stations

REAL TIME NOISE MONITORING STATIONS

- 3.1.2. The real-noise monitoring stations for the Project are listed and shown in *Table 3.2* and *Figure 3.1. Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.
- 3.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 3.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

District Station Description		Description
North Point RTN2 Oil Street Community Liaison Centre		Oil Street Community Liaison Centre
North Point	RTN2a	Electric Centre

 Table 3.2
 Real Time Noise Monitoring Station

• Real time noise monitoring results and graphical presentation during night time period are for information only.

RTN2 had been relocated to RTN2a since 5 Oct 2012

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NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (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, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.6. 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.
- 3.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.
- 3.1.8. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
 - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
 - One set of measurements between 2300 and 0700 hours on next day on everyday.

MONITORING EQUIPMENT

- 3.1.9. As referred to in the Technical Memorandum [™] 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.
- 3.1.10. 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 Monitoring

AIR QUALITY MONITORING STATIONS

3.2.1. The air monitoring stations for the Project are listed and shown in *Table 3.3* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station ID	Monitoring Location	Description		
CMA1b	Oil Street Site Office**	North Point		
CMA2a	Causeway Bay Community Centre	Causeway Bay		
CMA3a	CWB PRE Site Office *	Causeway Bay		
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai		
CMA5b	Pedestrian Plaza***	Wan Chai		
CMA6a	WDII PRE Site Office *	Wan Chai		

Table 3.3 Air Monitoring Stations

* Remarks: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were renamed as remark.

Remarks**: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013.

Remarks***: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR 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.
- 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.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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 An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 3.2.9 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.
- 3.2.10 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.
- 3.2.11 All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL



- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in <u>*Figure 3.1*</u> to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
 - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
 - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
 - 3 Strong Identifiable, likely to have odour nuisance;
 - 4 Extreme Severe odour, and unacceptable odour level.
- 3.2.16 The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in *Appendix 3.1*.

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.
- 3.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.



Water Quality Monitoring Stations

3.3.3. It is proposed to monitor the water quality at 2 WSD salt water intakes and 7 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 3.4* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station Ref. Location		Easting	Northing			
WSD Salt Water Int	WSD Salt Water Intake					
WSD19	Sheung Wan	833415.0	816771.0			
Cooling Water Inta	ke					
C1	HKCEC Extension	835885.6	816223.0			
C7	Windsor House	837193.7	816150.0			
P1	HKCEC Phase I	835774.7	816179.4			
P3	The Academy of performing Arts	835824.6	816212.0			
P4	Shui on Centre	835865.6	816220.0			
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2			
Cooling Water Inta	ke / WSD Salt Water Intake					
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0			

Table 04	Maulia a Matau	0	04-4-	f	14/- 4	0	
I able 3.4	Marine Water	Quality	Stations	tor	water	Quality	/ wonitoring

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.



WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.4. 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.
- 3.3.5. 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.
- 3.3.6. 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 3.5* 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.

Activities	Monitoring Frequency ¹	Parameters ²
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

 Table 3.5
 Marine Water Quality Monitoring Frequency and Parameters

Notes:

- 1. 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

- 3.3.7. 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
- 3.3.8. 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).



3.3.9. 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

3.3.10 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

3.3.11 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

3.3.12 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

3.3.13 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.

<u>SALINITY</u>

3.3.14 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

3.3.15 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

3.3.16 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.



- 3.3.17 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.
- 3.3.18 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

3.3.19 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.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 3.3.20 The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 3.3.21 Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 3.6* and *Figure* <u>3.1.</u>

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Table 3.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

3.3.22 The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).



DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 3.3.23 During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.24 The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data shall be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 3.3.25 In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 3.3.26 With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 3.3.27 The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 3.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2 According to EP-364/2009/A Part B, "Scale and Scope of Designated Project", Remarks (c), "The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department", and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.

4.1. Noise Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC and Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.1.1. The proposed divisions of noise monitoring stations are summarized in *Table 4.1* below.

Table 4.1	Noise Monitoring Station for Contract ne	os. HK/2009/01 and HK/2009/02
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Station	Description
M1a	Harbour Road Sports Centre

4.1.2. No action or limit level exceedance was recorded in this reporting quarter.

Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.1.3. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 4.2* below.

Station	Description	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	

 Table 4.2
 Noise Monitoring Station for Contract nos. HY/2009/15

4.1.4. No action or limit level exceedance was recorded in this report quarter.



Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link</u>

- 4.1.5. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.
- 4.1.6. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in *Table 4.3* below:

Table 4.3 Noise Monitoring	g Stations for Contract no.	HY/2009/19
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Station	Description	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

- 4.1.7. Two limit level exceedances were recorded on 11 and 16 December 2014 at M6 HK Baptist Church Henrietta Secondary School in December 2014 reporting month.
- 4.1.8. Major traffic noise observed during monitoring on 11 and 16 December 2014 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 4.1.9. No action or limit level exceedance was recorded in January and February 2015 reporting months.
- 4.1.10. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

4.1.11. The proposed division of noise monitoring stations are summarized in **Table 4.4** below.



Table 4.4 Noise Monitoring Station for Contract no. HY/2010/08

Station	Description	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	

- 4.1.12. No action or limit level exceedance was recorded in the reporting quarter.
- 4.1.13. Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u>
 4.1.

4.2. Real Time Noise Monitoring Results

Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 4.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 4.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

District	Station	Description
North Point	RTN2a	Electric Centre

 Table 4.5
 Real Time Noise Monitoring Station for Contract no. HY/2009/19

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012
- 4.2.5 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 4, 9, 11, 12, 13, 15, 16 and 20 December 2014 in the reporting month. After checking with Contractor of HY/2009/19, socket H-piling works were conducted at the concerned location during the



recorded period and mitigation measures including erection of temporary noise blanket was implemented by Contractor. In addition, chilling system pipe work installation works (hammering and wielding works) was observed conducting at the roof top of Hong Kong Electric Centre and the exceedances were considered to be non-Project related and contributed by maintenance work at Hong Kong Electric Centre.

- 4.2.6 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 10 and 14 January 2015 in the reporting month. After checking with Contractor of HY/2009/19, bored piling works were conducted at the concerned location during the recorded period and mitigation measures including erection of temporary noise blanket was implemented by Contractor. As the exceedances were non-continuous, the exceedances were considered to be non-Project related and contributed by nearby IEC traffic.
- 4.2.7 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 9, 10, 11, 12, 13 and 26 February 2015 during day time and on 20 February 2015 during restricted hours in the reporting month. After checking with Contractor of HY/2009/19, no major noise generating construction activities were undertaken by the Contractor on 9, 10, 11, 12, 13 and 26 February 2015 while breaking works and excavation works was observed across February 2015 at the construction site located next to the concerned monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. On 20 February 2015, no construction works conducted at the concerned location during the recorded period and the exceedance were considered to be non-Project related and contributed by nearby non-Project related and contributed by pyrotechnic display.

4.3. Air Monitoring Results

4.3.1. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

4.3.2. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in *Table 4.6* below.

Station	Description						
CMA5b	Pedestrian Plaza						
CMA6a	WDII PRE Site Office *						

 Table 4.6
 Air Monitoring Stations for Contract no. HK/2009/01

- 4.3.3. No action or limit exceedance was recorded in December 2014 reporting month.
- 4.3.4. One limit level exceedance was recorded at CMA5b on 27 January 2015 during 24hr TSP monitoring in January 2015 reporting month.



- 4.3.5. After investigation, it was found that the high ambient air pollutant concentration was the major contribution to air quality impact and contractor dust mitigation measures were confirmed in place. As such, the exceedances were considered as non- project related.
- 4.3.6. One action level exceedance was recorded at CMA5b on 7 February 2015 during 24hr TSP monitoring in February 2015 reporting month.
- 4.3.7. After investigation, it was found that the relatively high ambient air pollutant concentration with nearby traffic exhaust was the major contribution to air quality impact and contractor dust mitigation measures were confirmed in place. As such, the exceedances were considered as non-project related.
- 4.3.8. Two action level and one limit exceedances were recorded at CMA5b on 9 February 2015 during 1hr TSP monitoring in February 2015 reporting month.
- 4.3.9. After investigation, it was found that the relatively high ambient air pollutant concentration with nearby traffic exhaust was the major contribution to air quality impact and contractor dust mitigation measures were confirmed in place. As such, the exceedances were considered as non-project related.

Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

4.3.10. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations is summarized in *Table 4.7* below.

Table 4.7	Air Monitoring Station for Contract no. HK/2009/02
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Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

- 4.3.11. No action or limit level exceedance was recorded in December 2014 reporting month.
- 4.3.12. One action level exceedance was recorded at CMA4a on 27 January 2015 during 24hr TSP monitoring in January 2015 reporting month.
- **4.3.13.** After investigation, it was found that the high ambient air pollutant concentration was the major contribution to air quality impact and contractor dust mitigation measures were confirmed in place. As such, the exceedances were considered as non- project related.
- 4.3.14. No action or limit level exceedance was recorded in February 2015 reporting month.



<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.3.15. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in *Table 4.8* below.

Table 4.8Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

4.3.16. No action or limit exceedance was recorded in this reporting quarter.

Contract no. HY/2009/19 –Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.3.17. Air monitoring at CMA1b and CMA2a have been implemented with respect to HY/2009/19 since the marine bore piling works started on 28 Jan 2012. No exceedance was recorded in the reporting period.
- 4.3.18. The proposed division of air monitoring stations is summarized in *Table 4.9* below.

 Table 4.9 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

- 4.3.19. No action or limit exceedance was recorded in December 2014 reporting month.
- 4.3.20. One action level exceedance was recorded at CMA1b and one action level exceedance was recorded at CMA2a on 27 January 2015 during 24hr TSP monitoring in January 2015 reporting month.
- **4.3.21.** After investigation, it was found that the high ambient air pollutant concentration was the major contribution to air quality impact and contractor dust mitigation measures were confirmed in place. As such, the exceedances were considered as non- project related.
- 4.3.22. No action or limit exceedance was recorded in February 2015 reporting month.

4.4 Water Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

4.4.1. Water quality monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations is summarized in *Table 4.10* below.



4.4.2. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

Table 4.10 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing				
Cooling Water Intal	Cooling Water Intake						
C1 HKCEC Extension 835885.6 816223.0							

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II -Central – Wan Chai Bypass at WanChai East

4.4.3. Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations is summarized in Table 4.11 below.

Station Ref.	Location	Easting	Northing					
WSD Salt Water Intake								
WSD9	Tai Wan	837921.0	818330.0					
WSD17	Quarry Bay	839790.3	817032.2					
Cooling Water In	itake							
C1 HKCEC Extension		835885.6	816223.0					
Cooling Water Intake								
RW21-P789 Great Eagle Centre/ Sun Hung Kai Centre/CWB		836268.0	816020.0					

Table 4.11 Water Monitoring Stations for Contract no. HK/2009/02

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.



<u>Contract no. HK/2012/08 - Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

4.4.4. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in *Table 4.12* below.

Station Ref.	Location	Easting	Northing					
WSD Salt Water Intake								
WSD19	Sheung Wan	833415.0	816771.0					
Cooling Water Inta	Cooling Water Intake							
P1	HKCEC Phase I	835774.7	816179.4					
P3	The Academy of performing Arts	835824.6	816212.0					
P4	Shui on Centre	835865.6	816220.0					
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2					

Table 4.12	Water Monitoring	Stations for Contract no. I	HK/2012/08

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> <u>Section)</u>

- 4.4.5. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 4.4.6. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- 4.4.7. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations is summarized in *Table 4.13* below.

Table 1 12	Water Monitoring	Stations for	Contract no	HV/2000/15
1 abie 4.13	water wontoning	SIGUIUISIUI	Contract no.	H1/2009/15

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

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.



<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link</u>

- 4.4.8. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012.
- 4.4.9. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 4.4.10. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- 4.4.11. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- 4.4.12. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 4.4.13. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- 4.4.14. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 4.4.15. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 4.4.16. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 4.4.17. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7



and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

- 4.4.18. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.
- 4.4.19. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 4.4.20. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011.
- 4.4.21. Water monitoring results measured in this reporting period are reviewed and summarized in *Table 4.14*. Details of water quality monitoring results and graphical presentation can be referred in <u>Appendix 4.3</u>.

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring	DO		Turbidity		SS		DO		Turbidity		SS	
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	1	1	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	1	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
8 Feb 2012	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	1	0	0	0	0	0	0	0	0
Total		0	0	0	2	2	0	0	0	0	0	0	0

Table 4.14 Summary of Water Quality Monitoring Exceedances in Reporting period

Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.



- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no.
 HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 4.4.22. There were 2 action level and no limit level exceedances of SS recorded in December 2014 reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.23. There were no action level and 1 limit level exceedance of turbidity recorded in January 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.24. There were no action level and 1 limit level exceedance of turbidity recorded in February 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.25. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table 4.15.*

		Mid-flood		Mid-ebb	
Contract no.	Water Monitoring Station	DO		DO	
		AL	LL	AL	LL
	C6	0	0	0	0
HY/2009/15	C7	0	0	0	0
H1/2009/15	Ex-WPCWA SW	0	0	0	1
	Ex-WPCWA SE	0	2	0	4
	Total	0	2	0	5

Table 4.15Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting period

4.4.26. There were no action level exceedance and 3 limit level exceedances of enhanced dissolved oxygen recorded in December 2014 reporting month. Investigation found that the exceedances were not related to the Project works.



- 4.4.27. There were no action level exceedance and 1 limit level exceedance of enhanced dissolved oxygen recorded in January 2015 reporting month. Investigation found that the exceedance was not related to the Project works.
- 4.4.28. There were no action level exceedance and 3 limit level exceedance of enhanced dissolved oxygen recorded in February 2015 reporting month. Investigation found that the exceedance was not related to the Project works.
- 4.4.29. Investigation found that the exceedances are not related to the Project works. Details of graphical presentation can be referred in *Appendix 4.3*.
- 4.4.30. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.4.31. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 4.4.32. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.

4.5 Waste Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

4.5.1. No Inert C&D waste and non-inert C&D waste was disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.16.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m ³	NIL	5856.5	N/A
Non-inert C&D materials disposed, m ³	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

4.5.2. There were no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1-Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in June, July and August reporting months.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

4.5.3. No Inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.17.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	276075.1	TKO137/ TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ^{3 *}	24105	241292 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate	1818	150052 (Bulk volume)	East of Sha Chau

 Table 4.17 Details of Waste Disposal for Contract no. HK/2009/02



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Sites) & Type 2 – Confined Marine Disposal), m ^{3 *}			

* Remarks: Contractor clarified the quantity of marine sediment – type 1 open sea disposal for November reporting month was 27453m³ and the quantity of marine sediment – type 1 open sea disposal (Dedicate Sites) & Type 2- confined marine disposal for November was 7991m³, hence the cumulative quantity is updated in December reporting month.

4.5.4. There were Marine Sediment (Type 1 – Open Sea Disposal) and Marine Sediment (Type 1- Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.5.5. No inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.18.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
disposed, m ²	NIL	65216	TKO137 FB	NIL
Inert C&D materials	NIL	304	Ex-PCWA	NIL
recycled, m ³	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	21720	125208 (Bulk Volume)	South of Cheung Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	13940	287285 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance

 Table 4.18 Details of Waste Disposal for Contract no. HY/2009/15



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Geosynthetic Containers)				dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m3	NIL (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

4.5.6. There was Marine Sediment (Type 1 – Open Sea Disposal) and Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal) disposed in this reporting quarter.

<u>Contract no. HY/2009/19 – Central- WanChai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

4.5.7. No Inert and non-inert C&D waste were disposed of in this reporting quarter

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m ³	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	N/A

Table 4.19 Details of Waste Disposal for Contract no. HY/2009/19



4.5.8. There were no marine sediments Type1- Open Sea Disposal and there were no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in the reporting period.

<u>Contract no. HK/2012/08 –Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

4.5.9. Inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in Table 4.20.

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	2100	3886	TM38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³ *	NIL	315	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 -	NIL	31759	South of Cheung
Open Sea Disposal), m ³ *	(Bulk volume)	(Bulk volume)	Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³ *	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

Table 4.20 Details of Waste Disposal for Contract no. HK/2012/08

4.5.10. No Marine Sediment (Type 1 – Open Sea Disposal) and no marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated disposed in this reporting period.

Contract no. HY/2010/08 – Central - Wan Chai Bypass (CWB) – Tunnel (Slip Road 8)

4.5.11. No Inert C&D waste and non-inert C&D waste were disposed in this reporting period. Details of the waste flow table are summarized in Table 4.21

Table 4.21 Details of Waste Disposal for Contract no. HY/2010/08
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Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	NIL	N/A
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A



Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds		
Chemical waste disposed, L	NIL	NIL	N/A		
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	54580	South Cheung Chau		
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	2900	27760	Brothers Island		
Marine Sediment (Type 3 – Special Treatment)	7780	7780	Brothers Island		

4.5.12. There were Marine Sediment (Type 3 – Special Treatment) and marine sediment Type 1 –
 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated disposed in this 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 Two limit level exceedances were recorded on 11 and 16 December 2014 at M6 HK Baptist Church Henrietta Secondary School in December 2014 reporting month. Investigations found that on 11 and 16 December 2014, traffic noise were major contribution in the noise monitoring and exceedances were not related to the Project.
- 5.1.2 No action and limit level exceedance was recorded in January 2015 reporting period.
- 5.1.3 No action and limit level exceedance was recorded in February 2015 reporting period.
- 5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1.*

5.2. Real-time Noise Monitoring

- 5.2.1 No project related exceedances were recorded in December 2014, January and February 2015 reporting month at RTN2a-Hong Kong Electric Centre during this reporting quarter.
- 5.2.2 Details of real time noise monitoring results and graphical presentation can be referred to Appendix 4.2

5.3. Air Monitoring

- 5.3.1 No action or limit exceedance was recorded in 1-hr TSP and 24-hrs TSP monitoring in the December 2014 reporting period.
- 5.3.2 One limit level exceedances were recorded at CMA5b- Pedestrian Plaza on 21 January 2015 during 24hr TSP monitoring in January 2015 reporting month. Ambient air pollutant concentration was considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.
- 5.3.3 One action level exceedances were recorded at CMA4a- Pedestrian Plaza on 21 January 2015 during 24hr TSP monitoring in January 2015 reporting month. Ambient air pollutant concentration was considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.
- 5.3.4 One action level exceedance was recorded at CMA1b- Oil street site office and one action level exceedance was recorded at CMA2a – Causeway Bay Community Centre on 21 January 2015 during 24hr TSP monitoring in January 2015 reporting month. Ambient air



pollutant concentration was considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.

- 5.3.5 One limit level exceedances were recorded at CMA5b- Pedestrian Plaza on 21 January 2015 during 24hr TSP monitoring in January 2015 reporting month. Ambient air pollutant concentration was considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.
- 5.3.6 One action level exceedance was recorded at CMA5b Pedestrian Plaza on 7 February 2015 during 24hr TSP monitoring and two action level and one limit level exceedances were recorded at CMA5b Pedestrian Plaza on 9 February 2015 in February 2015 reporting month. Ambient air pollutant concentration and nearby traffic exhaust were considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.
- 5.3.7 One action level exceedance was recorded at CMA5b Pedestrian Plaza on 7 February 2015 during 24hr TSP monitoring and two action level and one limit level exceedances were recorded at CMA5b Pedestrian Plaza on 9 February 2015 in February 2015 reporting month. Ambient air pollutant concentration and nearby traffic exhaust were considered as the contribution to air quality impact. As such, the exceedances were concluded as non-project related.

5.4. Water Quality Monitoring

5.4.1. The summary of water quality exceedances recorded in reporting period is presented in the *Table 5.1* and *Table 5.2*.

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring Station	DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	1	1	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	1	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
8 Feb 2012	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	1	0	0	0	0	0	0	0	0
Total		0	0	0	2	2	0	0	0	0	0	0	0

 Table 5.1
 Summary of Water Quality Monitoring Exceedances in Reporting period



Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporary suspended since 27 April 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 5.4.2. There were 2 action level and no limit level exceedances of SS recorded in December 2014 reporting month. Investigation found that the exceedances were not related to Project works.
- 5.4.3. There were no action level and 1 limit level exceedance of turbidity recorded in January 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- 5.4.4. There were no action level and 1 limit level exceedance of turbidity recorded in February 2015 reporting month. Investigation found that the exceedance was not related to Project works.

Table 5.2Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting period

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
HY/2009/15	C6	0	0	0	0	
	C7	0	0	0	0	
	Ex-WPCWA SW	0	0	0	1	
	Ex-WPCWA SE	0	2	0	4	
	0	2	0	5		



- 5.4.5. There were no action level exceedances and 3 limit level exceedances of enhanced dissolved oxygen recorded in December 2014 reporting month. Investigation found that the exceedances are not related to the Project works
- 5.4.6. There were no action level and 1 limit level exceedance of turbidity recorded in January 2015 reporting month. Investigation found that the exceedance was not related to Project works.
- 5.4.7. There were no action level exceedances and 3 limit level exceedance of enhanced dissolved oxygen recorded in February reporting month. Investigation found that the exceedance was not related to the Project works.

5.5. Site Audit

5.5.1. There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

5.6. Review of the Reasons for and the Implications of Non-compliance

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

5.7. Summary of action taken in the event of and follow-up on non-compliance

5.7.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits in the reporting period.



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint received in December 2014 reporting month.
- 6.0.2. One environmental complaint received in January 2015 reporting month.
- 6.0.3. A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015.
- 6.0.4. According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were conducted under HY/2009/15 at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.
- 6.0.5. Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.
- 6.0.6. In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.
- 6.0.7. As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.
- 6.0.8. No environmental complaint received in February reporting month.
- 6.0.9. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1.*
- 6.0.10. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.



Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting period	34
December 2014- January 2015	1
Project-to-Date	35

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-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, Diaphragm wall construction, removal of rock armour, and socket H piling works were performed in this reporting quarter. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant
- 7.0.4. 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 marine works at HKCEC areas, tunnel works and foundation works at Wan Chai East and dredging 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, land based bored pilling works and ELS works at Victoria Park, segment launching works and tunnel works at North Point area. Marine-based construction activities were seawall construction and filling works at EX-PCWA and seawall construction and filling works at TS3 at Causeway Bay Typhoon Shelter in the reporting quater.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



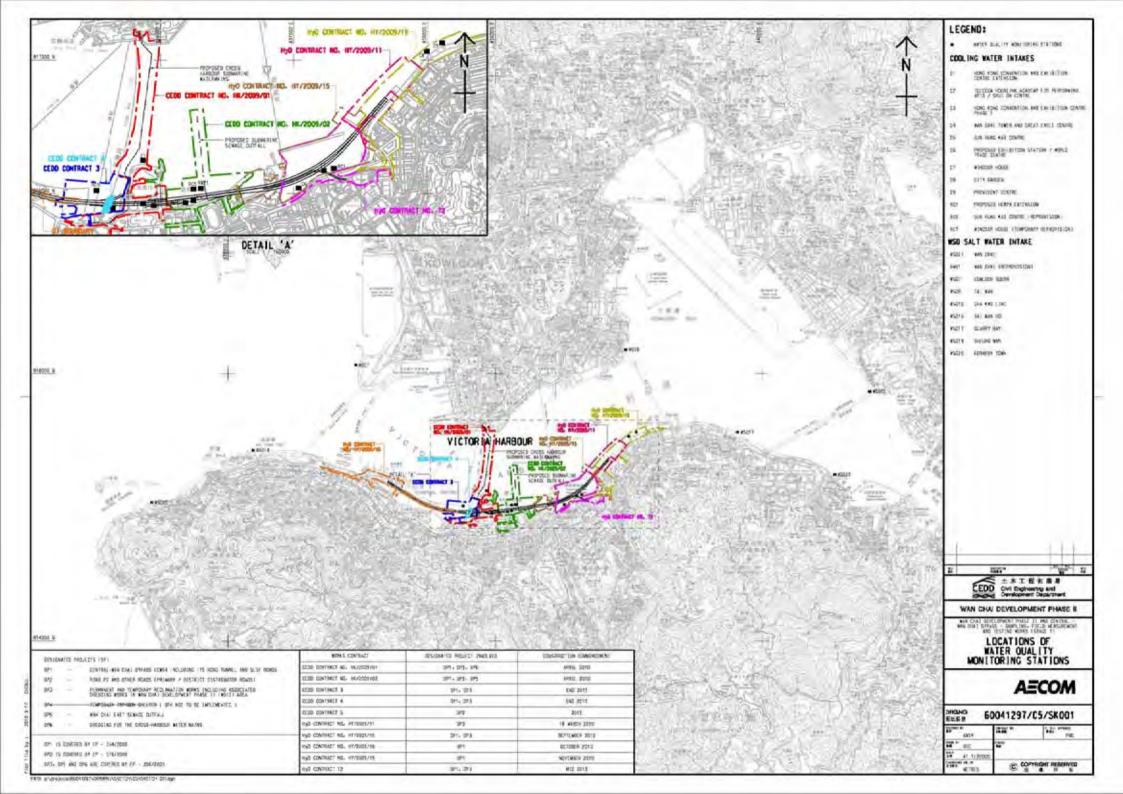
8. CONCLUSION

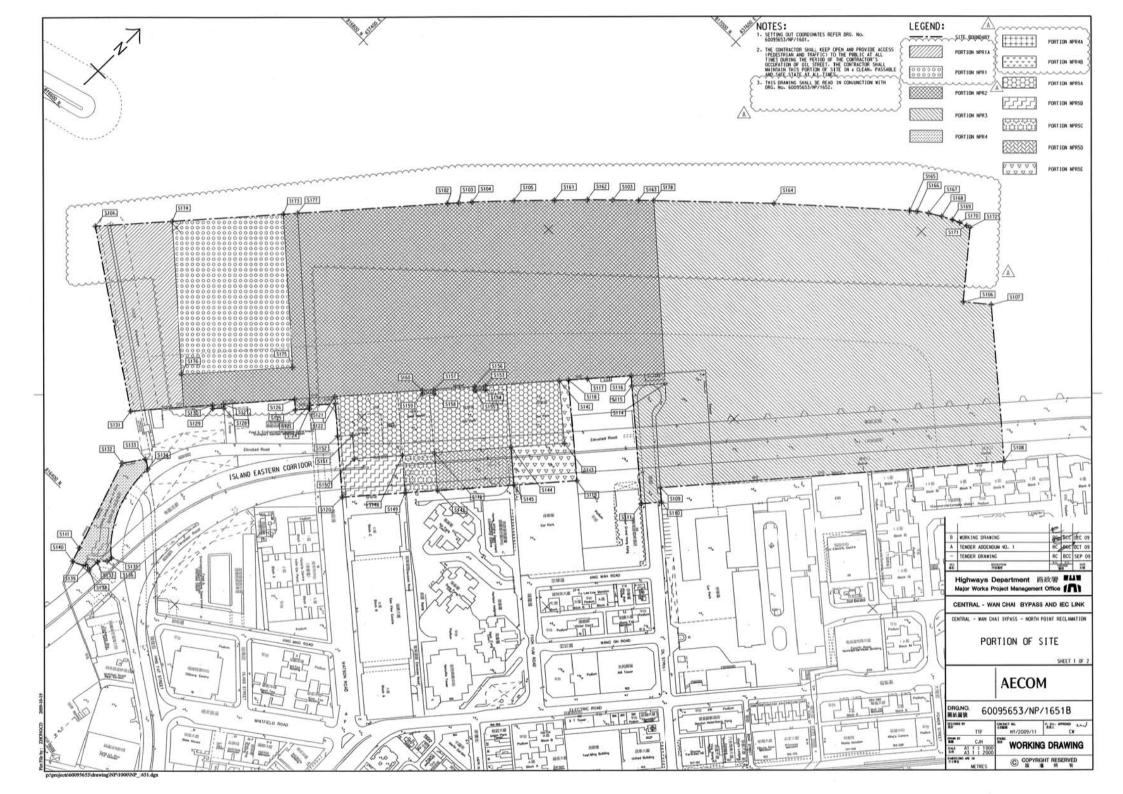
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliance was noted and no prosecution was received during the reporting period.
- 8.0.3. The construction programmes of individual contracts are provided in *Appendix 8.1*.

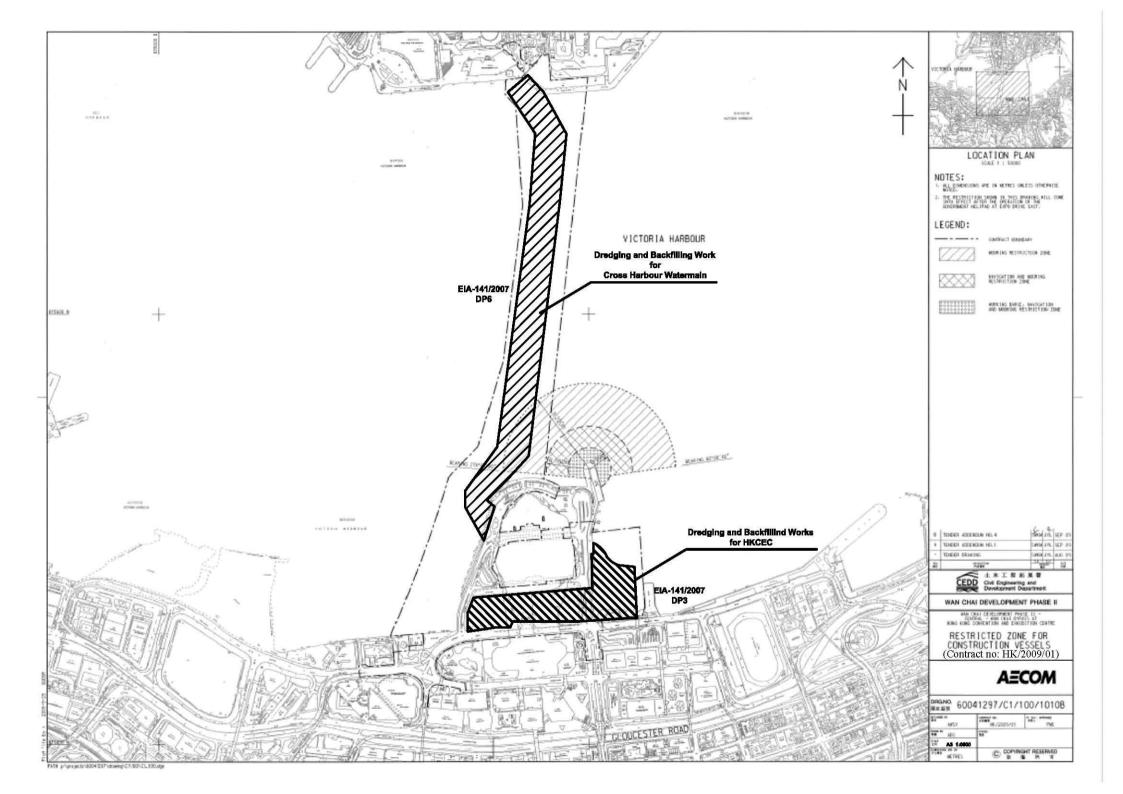


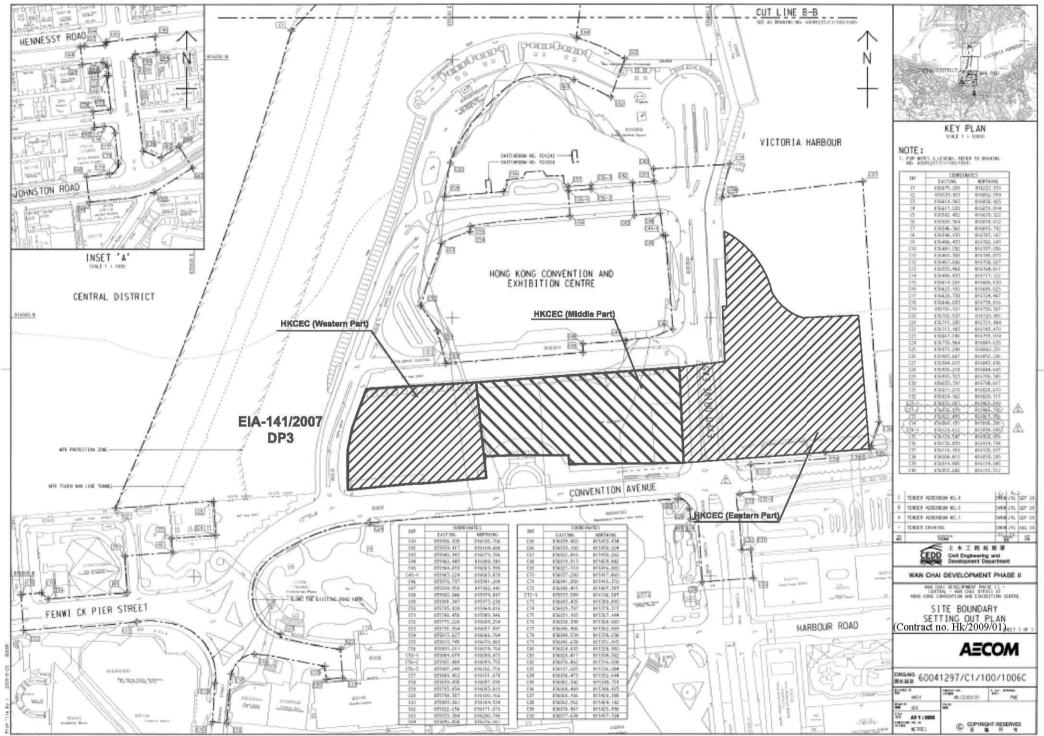
Figure 2.1

Project Layout

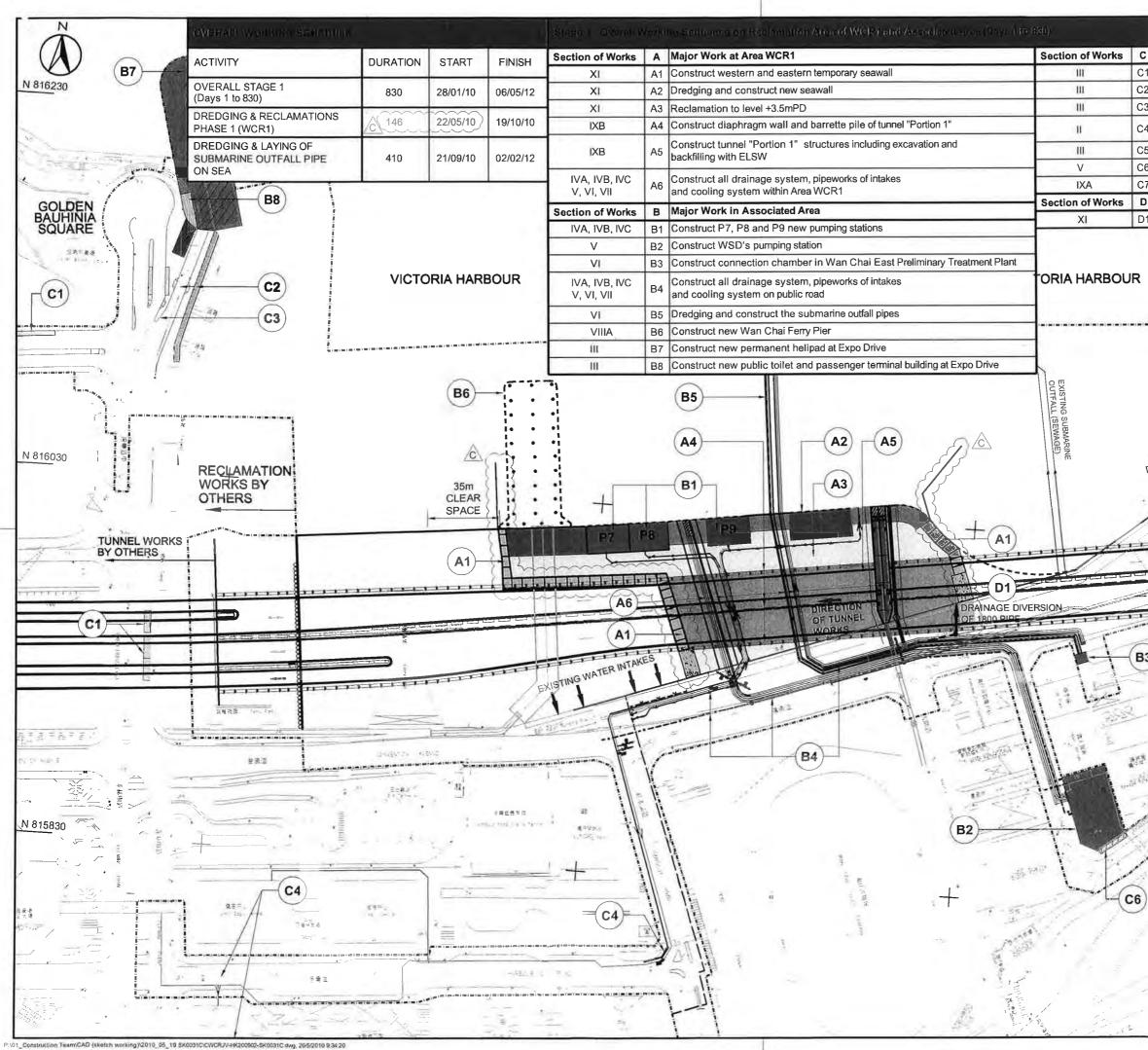




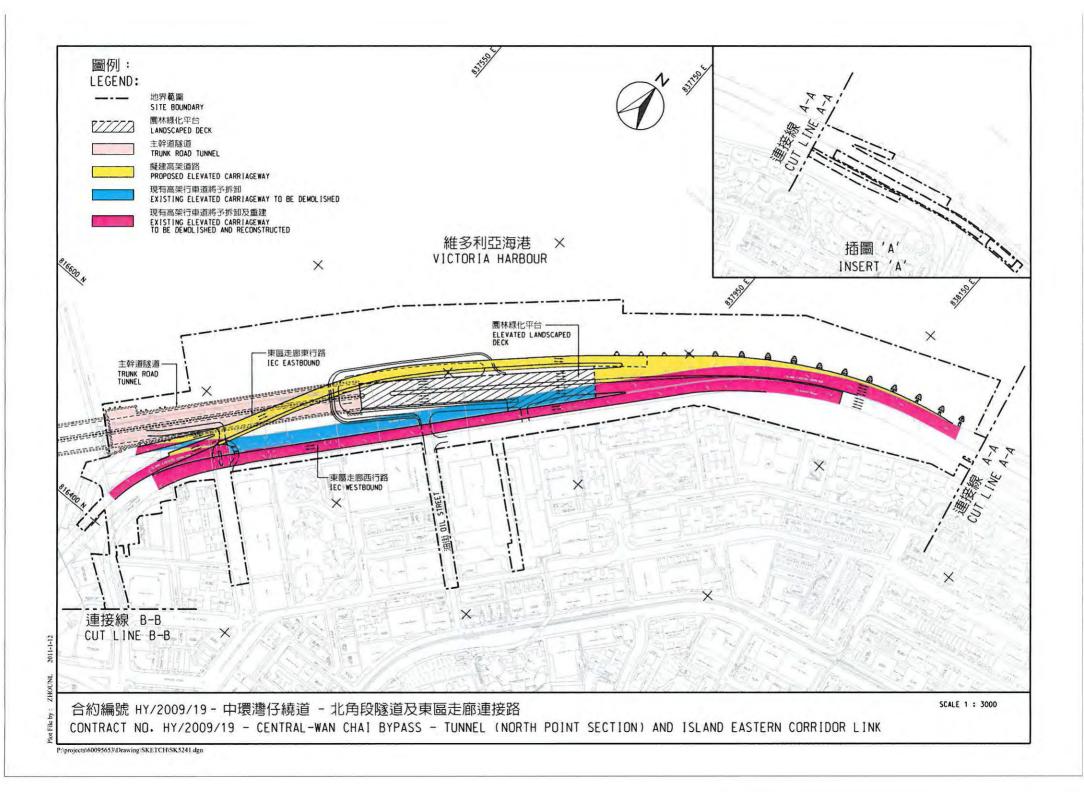


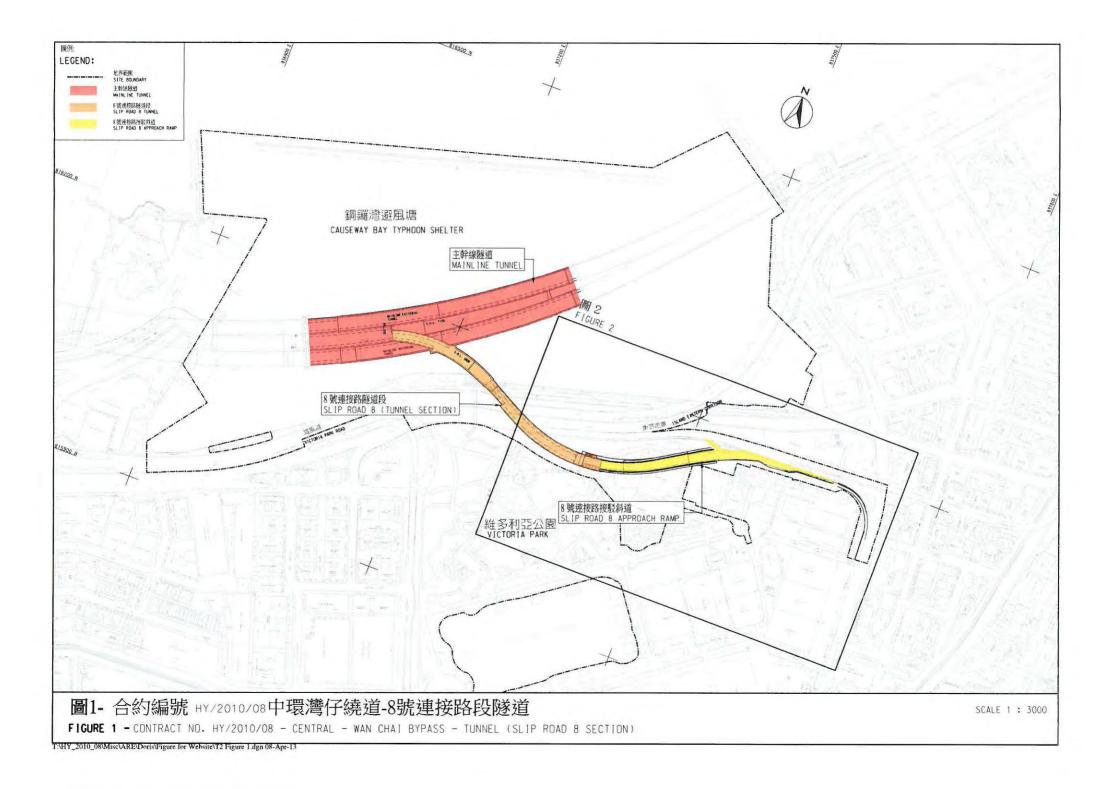


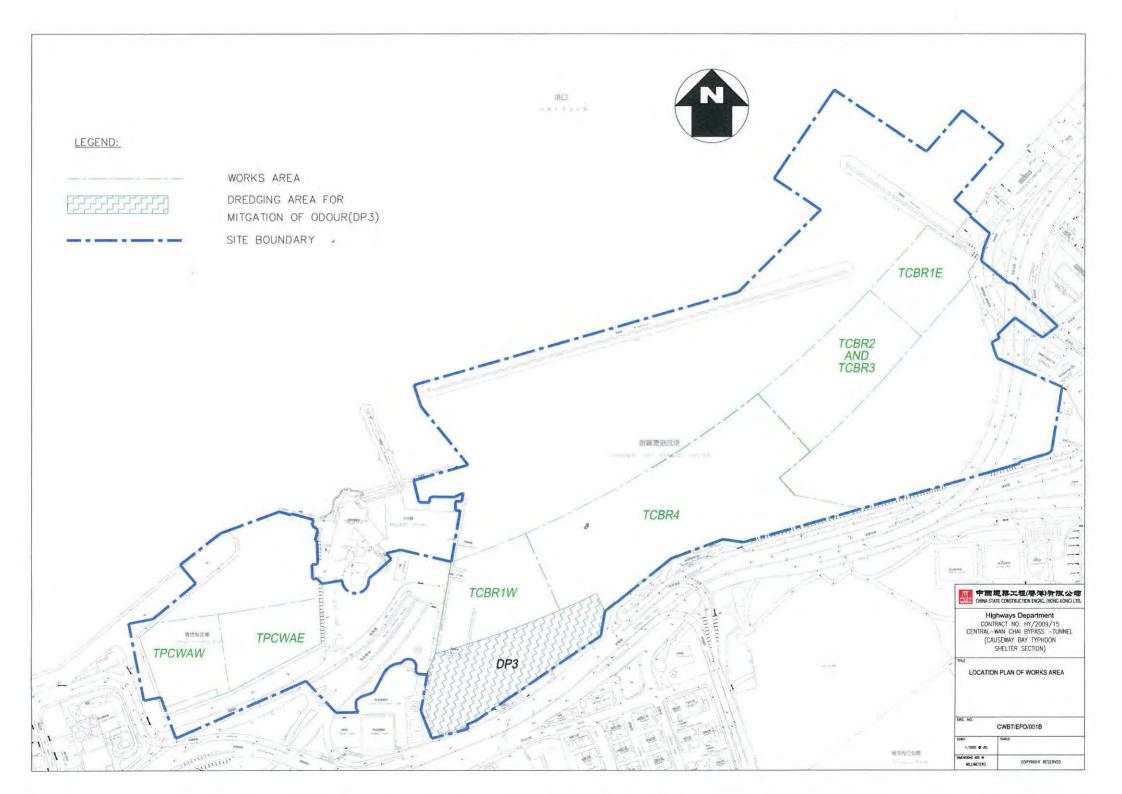
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С	Other Miscellaneous Works				
C1	Construct new taxi and coach bus I	parking space at Expos Drive East			
C2		all and provide new EVA at Expo Drive			
C3	Road re-alignment work on existing				
C4	Road improvement work at junction	of Harbour Road /			
-	Tonnochy Road and Fleming Road				
C5	Demolition of existing above groun				
C6	Demolition of existing staircase of f				
C7	Demolition of existing temporary he	sipad at ex-PCWA			
D1	Other Temporary Works Divert existing 1800 mm diameter of	Irain nine			
२					
EXISTING DISCHARGE					
1	BY OTHER				
- i i	TAN//A				
and the second	14H				
1	111111111				
B 3		C 19/05/2010 WORKING SCHEDULE UPDATED &			
Q		TEMPORARY SEAWALL LAYOUT REVISED B 14/04/2010 SECTION OF WORKS ADDED			
	~ ~ ~ 11 M	A 08/04/2010 AS MARKED & TITLE BLOCK UPDATED			
		REV DATE DESCRIPTION			
	1141				
~	1111	(
an -	and the	ENGINEERS REPRESENTATIVE			
新聞	- 1 min Vis				
2	Stand Internet	CONTRACTOR			
1ª	11 INA	後和一中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE			
1	1º 1 th	PROJECT CONTRACT NO. HK/2009/02			
1		WAN CHAI DEVELOPMENT PHASE II			
1		CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST			
6)	The Same and and	DRAWING TITLE			
		DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1			
	- The	DESIGN DRAWN CHECKED			
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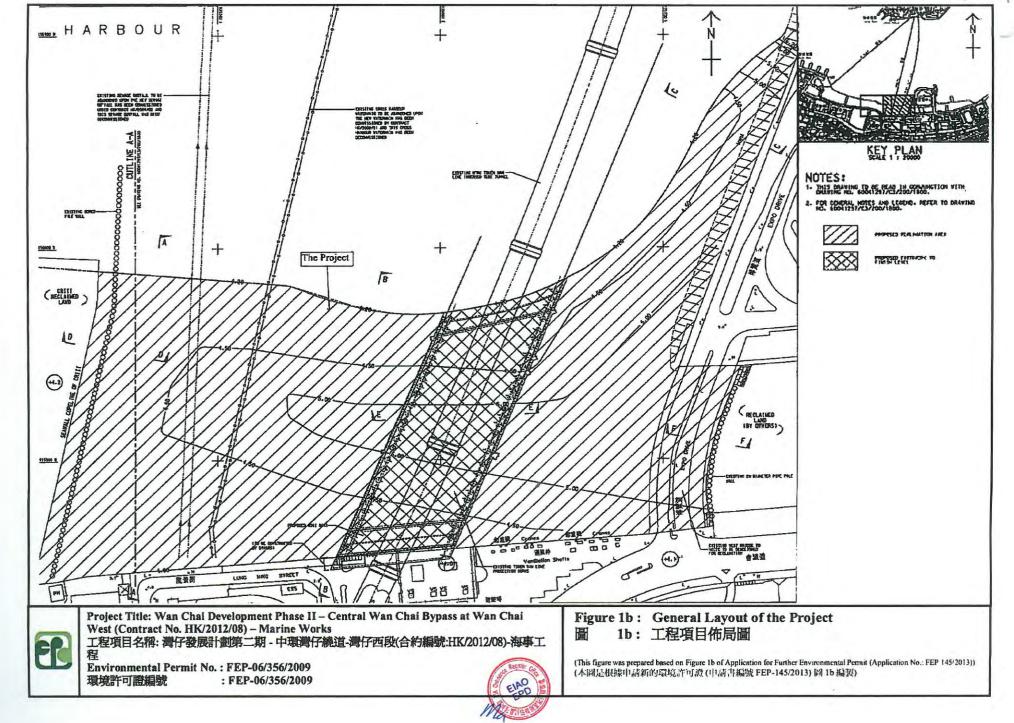
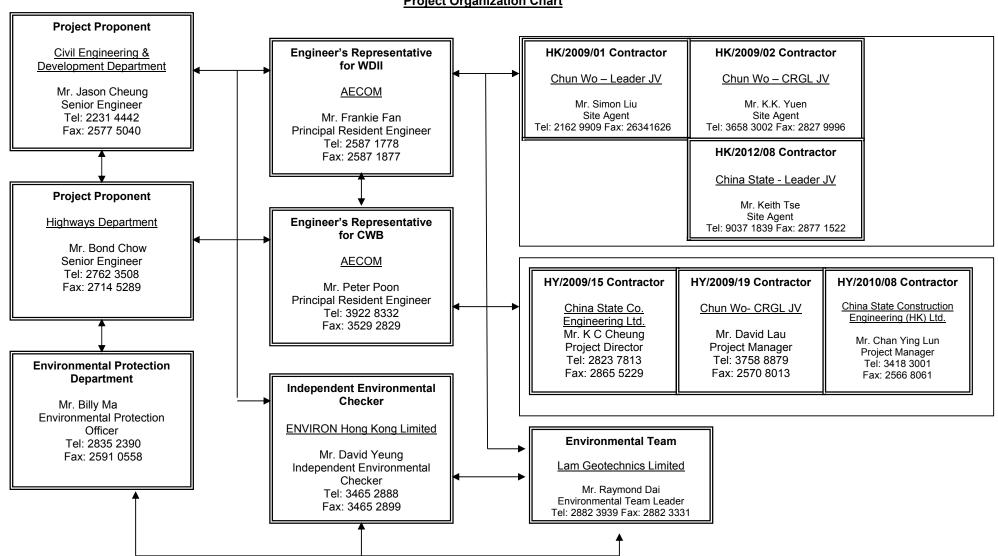




Figure 2.2

Project Organization Chart



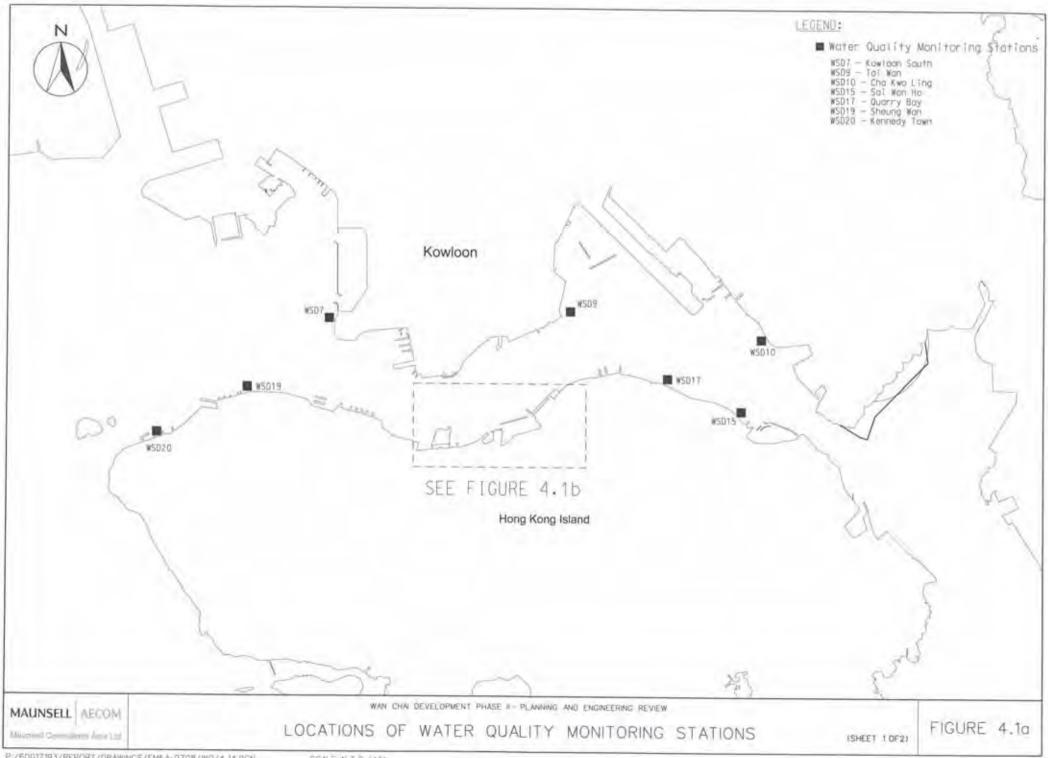


Project Organization Chart



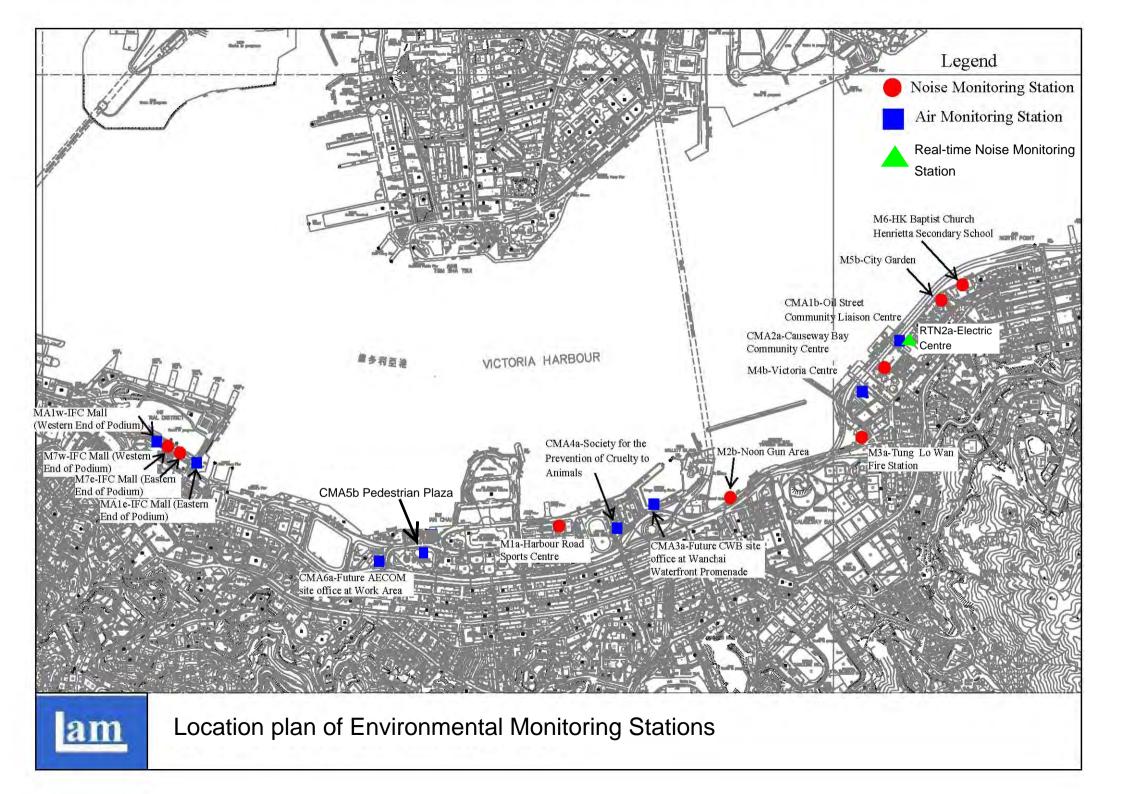
Figure 4.1

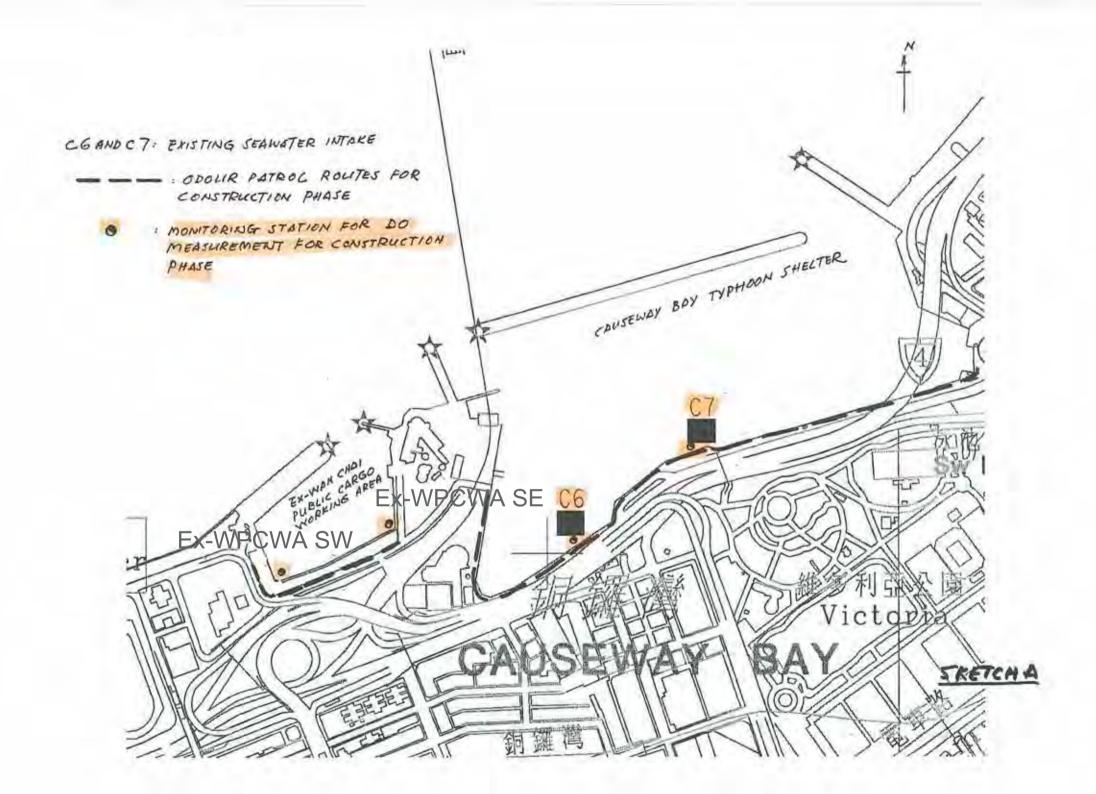
Locations of Monitoring Stations

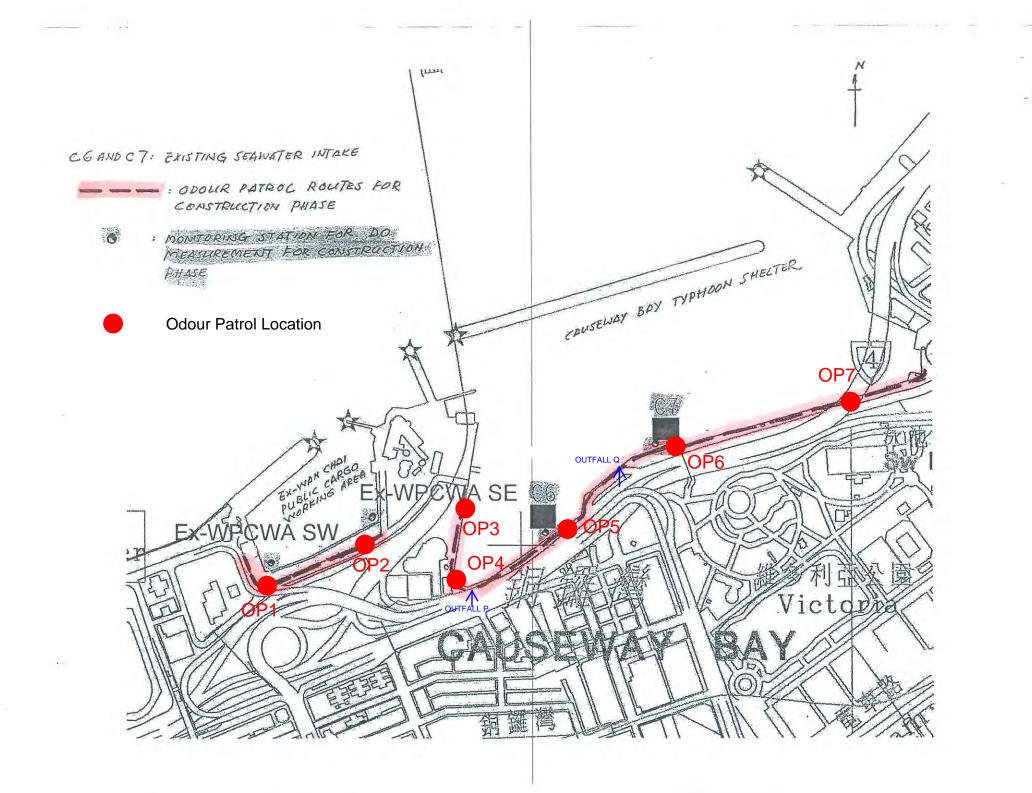


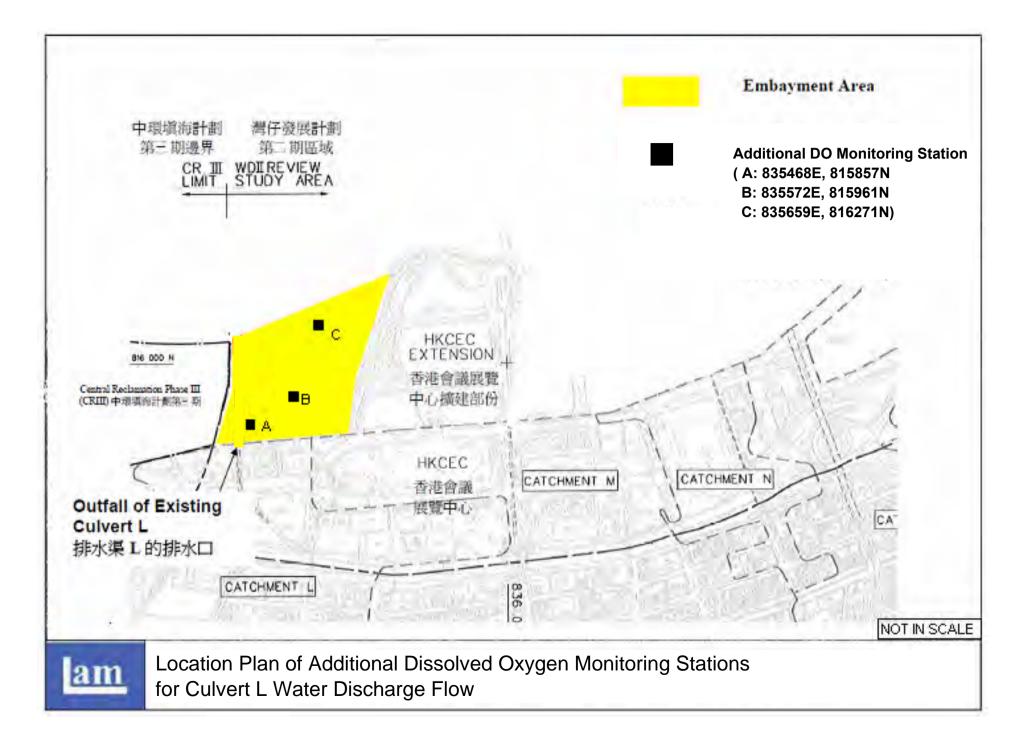
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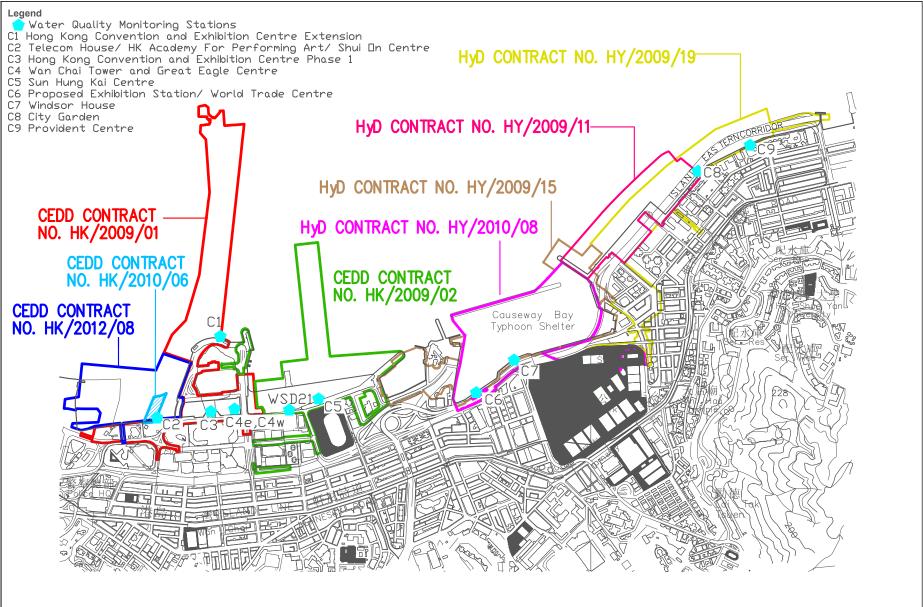
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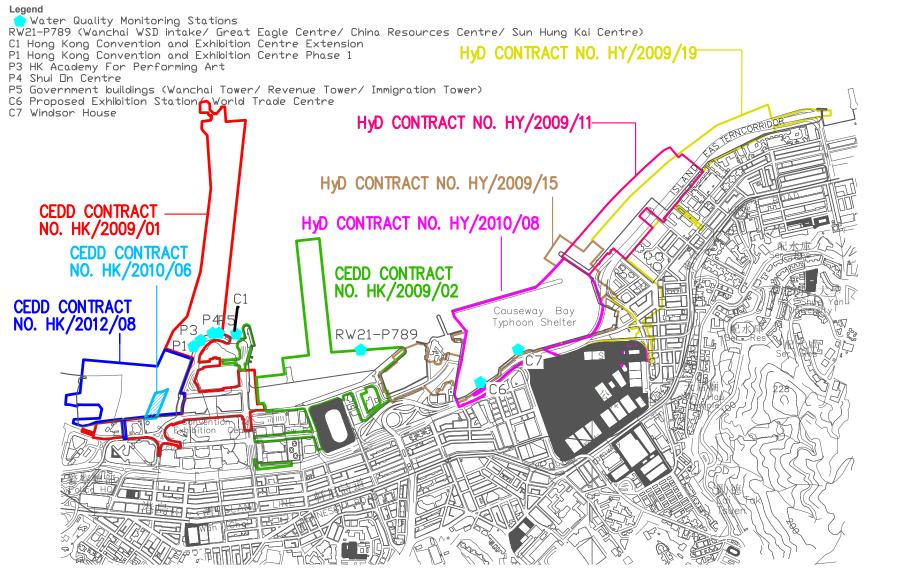




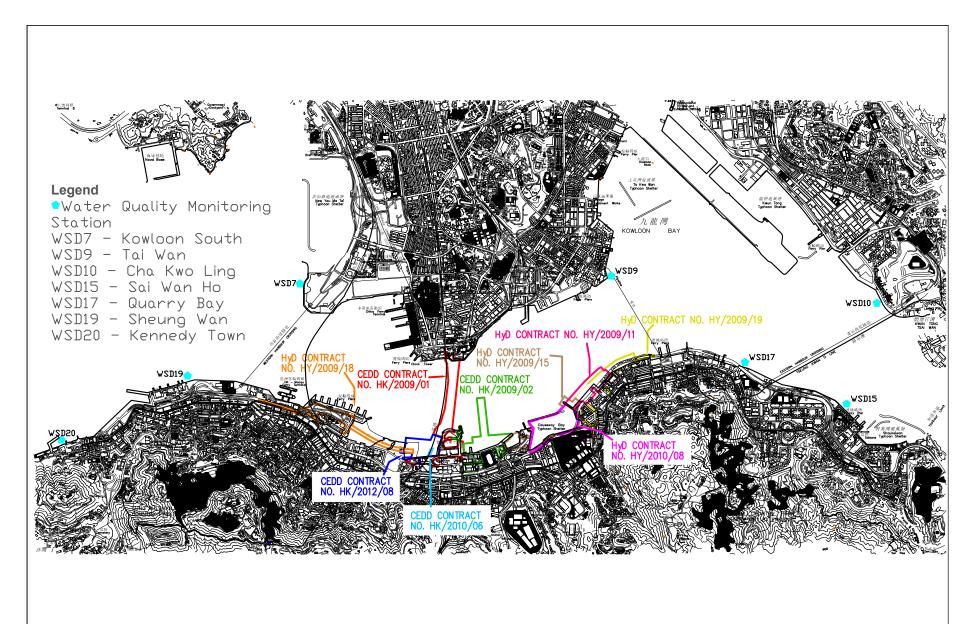




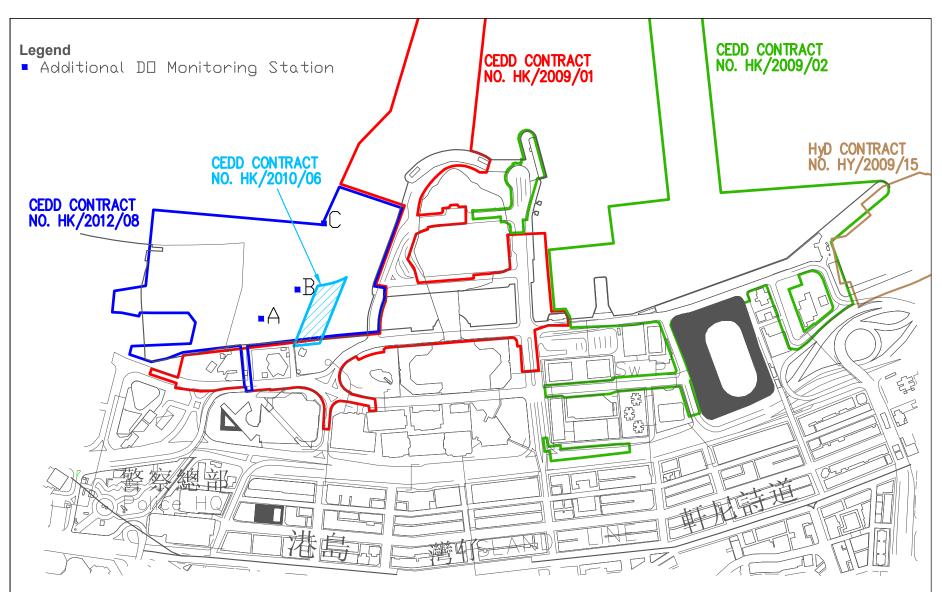
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF ADDITIONAL DISSOLVED OXYGEN MONITORING STATIONS FOR CULVERT L WATER DISCHARGE FLOW



Appendix 2.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	res Location / Timing	Implementation Agent	In		ientati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project							
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
\$3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V			

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		Lookiton, Thing	Agent	Des	С	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		1			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation I		1	1	1	1	1	1	1
For the Who	ole Project							

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
2		Liotation / Thing	Agent	Des	С	0	Dec	and Guidelines
\$3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
\$3.6.53 – \$3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

• Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Quarterly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		ıplem Sta	entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Constructio	n Phase							
For the Whe	ole Project							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
EIA KU	Environmental i rotection (vicasures / integation vicasures	Location / Thining	Agent	Des	С	0	Dec	
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 	Work Sites / During Construction	Contractor	Des				EIAO-TM, NCO

Appendix 2.1

Quarterly EM&A Report

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Implementation Implementation **Relevant Legislation** Stages* EIA Ref Location / Timing **Environmental Protection Measures / Mitigation Measures** and Guidelines Agent Des 0 С Dec EIAO-TM, NCO S4.8.3 -Use of quiet powered mechanical equipment, movable noise Work Sites / During Contractor S4.8.5 barrier and temporary noise barrier for the following tasks: Construction Slip road 8 tunnel Construction of diaphragm wall and substructures of the . tunnel approach ramp Excavation Construction of slabs . Backfill . Demolition and construction of substructures for the IEC . Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction . Substructure for IECL connection . For DP2 – WDII Major Roads (Road P2) Use of quiet powered mechanical equipment, movable noise Work Sites / During EIAO-TM, NCO S4.8.3 -Contractor $\sqrt{}$ S4.8.4 barrier and temporary noise barrier for the following tasks: Construction Temporary road diversion . Resurfacing At-grade roadwork . For DP3 – Reclamation Works S4.8.3 -Use of quiet powered mechanical equipment for the following Work Sites / During Contractor EIAO-TM, NCO $\sqrt{}$ S4.8.4 task: Construction • Filling behind seawall • Seawall construction

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
Lintiker	Environmental Protection Measures / Minigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		N			EIAO-TM, NCO

Appendix 2.1

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		8	Agent	Des	С	0	Dec	and Guidelines
Operation	Phase							
For DP1 –	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	ion	Relevant Legislation
		Look ton / Thing	Agent	Des	С	0	Dec	and Guidelines
EIA Ref S4.8.14 – S4.8.18	 Environmental Protection Measures / Mitigation Measures For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour 	Near North Point / Before commencement of operation of road project	Agent HyD HyD	Des √		T	Dec	and Guidelines EIAO-TM
	 about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.						

Appendix 2.1

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

[#] Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
For DP3 – I Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sha	a Tsu	i), DP	1 – CW	B (within the Project
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / M	Aitigation Me	easures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
		inigation fore	cusures		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary rec typhoon shelter shall not be fully enclosed	I the temporary reclamations within the Causeway Bay ot be fully enclosed.				Contractor		V			EIAO-TM, WPCO
S5.8	within the temporary embayment be impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The barr discharge flows from Culvert L to the	hitigation measure, to avoid the accumulation of water borne pollutants the temporary embayment between CRIII and HKCEC1, an meable barrier, suspended from a floating boom on the water surface tending down to the seabed, will be erected by the contractor before KCEC1 commences. The barrier will channel the stormwater rge flows from Culvert L to the outside of the embayment. The ctor will maintain this barrier until the reclamation works in C2W care corrected the contract of the contract.						√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the mathematical dredging rates in each of the mathematical terms and the maximum production rates state production rates without considering the descent of the mathematical terms and the mathematical terms are stated as a state of th	ed in the table	e below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Reclamation Area	Rate m ³ per h day (for	m ³ per hour (m ³ per								
	Dredging along seawall or breakwater										
	North Point Shoreline Zone (NPR)	6,000 375 42,000									
	Causeway Bay TBW	1,500	94	10,500							
	Shoreline Zone TCBR		375	42,000							
	PCWA Zone	5,000 3	313	35,000							

EIA Ref	Environmental Protection Measures / Mitigation Measures			Location /	Implementation	In		entati ges*	ion	Relevant Legislation	
EIA KU	Environmental Frotection Measures /	mingano	in Wicasures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000 1,500	375 94	42,000 10,500							
	(HKCEC) HKCEC Stage 2	6,000	375	42,000							
	Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline	1,500	94 94	10,500 10,500							
95.0	Note: 1,500 m ³ per day shall be app seawall of WCR1.	lied for c	onstruction	of the western	Work site /	C. A. A.		1			
S5.8, Figure 5.3	Dredging along the seawall at WCl 1,500m ³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water ma much as possible from further dredging	nich is in close struction at the	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO		
S5.8, Figure 5.3	For dredging within the Causeway B partially constructed to protect the n dredging activities. For example, at seawalls shall be constructed first (a seawater intakes at the inner water wou the remaining dredging activities along	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO		
S5.8, Figure 5.3	Silt curtains shall be deployed aroun seawall dredging and seawall trench fi TCBR and NP.	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO			
S5.8, Figure 5.3	2009 with concurrent Bay, Sheung	Applicatio ater intak Wan, Wan	ns es at Sai W Chai, Kowloo	an Ho, Quarry	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection	Measures / Mitigation Measures	Location /	Implementation	In	iplem Stag	entatio ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone Scenario 2B in late	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai							
	2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	Other mitigation measures	include:	Work site /	Contractor		\checkmark			ProPECC PN 1/94;
	spillage and sealed tig	sed, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	During the construction period						WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into th	appers shall be controlled to prevent splashing of the surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		er of	Des	С	0	Dec	and Guidelines	
	• before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zivi olilienta i rotetton rrenou es / ringation rrenou es	Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>					WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation
EIA KU	Environmental Frotection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	• Work site	Contractor		\checkmark			ProPECC PN 1/94;
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						WPCO (TM-DSS)
	 Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; 							
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 							
	 oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; 							
	 precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; 							
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 							
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 							

³ CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
EIA Kei	Zivi oliliena i rocensi rensa es / ringaton riensa es	Timing	Agent	Des	С	0	Dec	and Guidelines
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	 Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase. 							
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<i>Floating Debris and Refuse</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		V			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation		
		Timing	Agent	Des	С	0	Dec	and Guidelines		
85.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO		
Operation	I Phase									
	B (within the Project Boundary)	1	2					1		
\$5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO		
	nearby foul water manholes.Petrol interceptors shall be regularly cleaned and maintained in good									
	 Working condition. Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. 									
	• Sewage arising from ancillary facilities of CWB (for examples, car park,									

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation	
			Timing	Agent	Des	С	0	Dec	and Guidelines
	•	control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities. Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff. The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.							

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

³ if employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Zarri omnerimi i rocectori Accuoli co / Arrigatori Accuoli co	Liocation / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 -	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Agent		Des	С	0	Dec	and Guidelines
\$6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	 During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved. 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing In	Implementation Agent	In		entati ges*	Relevant Legislation and Guidelines	
		Lookton, Thing	Agent	Des	С	0	Dec	and Guidelines
	 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. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
86.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		~			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		Liounion / Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		V			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stay	entati ges*	on	Relevant Legislation
Lintitei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		~			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
S6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
	Zarnomienta i occorton Accuoa co / Arnaganon Accuoa co	Liotation / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							-
For the Wh	ole Project							
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
\$7.10	 During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: Excavation profiles must be properly designed and executed; In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Quantities of soil to be excavated must be estimated; It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. Temporary storage of soil at intermediate depot or on-site 	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	Relevant Legislation	
				Des	С	0	Dec	and Guidelines
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	 Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities: 							Water Pollution Control Ordinance

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
	 <u>Air Quality Mitigation Measures</u> The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations. 							
	 Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any). 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
		Liocation / Thining	Agent	Des	С	0	Dec	and Guidelines
	 <u>Water Quality Mitigation Measures</u> Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO. 							
	 Waste Mitigation Measures Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment. 							
	 Stabilized soils shall be broken into suitable size for backfilling or reuse on site. A high standard of housekeeping shall be maintained within the mixing plant area. 							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project - Schedule 3 DP							
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 –	Reclamation Works							
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
S.9.7.4	 During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: Installation of silt curtains during dredging activities Use of tightly-closed grab dredger Reduction of dredging rate Control of grab descending speed Construction of leading edges of seawall in the early stages of the reclamation works 	Work site / during construction phase	Contractor		~			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stay	entati ges*	on	Relevant Legislation
		Liounion / Timing	Agent	Des	С	0	Dec	and Guidelines
S.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended:	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	• Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible.							
	Adoption of multiple-phase construction schedule.							
	• General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.							
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

*Des - Design, C - Construction, $\mathrm{O}-\mathrm{Operation},$ and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environment	tal Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		ientati ges*	ion	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Construction	Phase								
For the Whole	Project								
Table 10.5	re-use	il, where identified, shall be stripped and stored for in the construction of the soft landscape works, practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ng trees to be retained on site shall be carefully ted during construction.	Work site / During Construction Phase	Contractor	\checkmark	V			EIAO TM
Table 10.5		unavoidably affected by the works shall be lanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ensatory tree planting shall be provided to ensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Contro	ol of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5		on of decorative screen hoarding compatible with rrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	B (Within the	Project Boundary)							
Table 10.5	re-use	il, where identified, shall be stripped and stored for in the construction of the soft landscape works, practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5		ng trees to be retained on site shall be carefully ted during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		unavoidably affected by the works shall be lanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ensatory tree planting shall be provided to ensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Contro	ol of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 - WD	II Majo	r Roads (Road P2)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
For DP5 - Wa	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
	ss-Harbour Water Mains from Wan Chai to Tsim Sha Tsui			1	1			
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se	-						1
For the Whole	Project - Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004

Appendix 2.1

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Quarterly EM&A Report

EIA Ref	Enviro	nmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines	
					Des	С	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/					ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	$CEDD^4$	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP1 - CW.	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-		including viaducts, vent buildings, subways, footbridges	Design Stage and						
10.5.5		and noise barriers and enclosure.	Operation Phases						
Table 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	HyD					ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP2 - WD	II Major	· Roads (Road P2)							

⁴ CEDD will identify an implementation agent

EIA Ref	Envir	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Implementation Stages*		on	Relevant Legislation and Guidelines				
					Des	С	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
For DP3 – Reci	amation			-				1	1
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

⁵ CEDD will identify an implementation agent

Appendix 2.1



Appendix 3.1

Action and Limit Level



Action and Limit Level

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) ^{Note 1}

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 Air Monitoring

Monitoring Location	1-hour TSP Lev	el in μ g/m ³	24-hour TSP Le	vel in μ g/m ³
	Action Level	Limit Level	Action Level	Limit Level
CMA1b Note 2	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a Note 2	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5b Note 2	332.0	500	181.0	260
CMA6a Note 2	300.1	500	187.3	260

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.

- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season				
Falameter S	Action	Limit	Action	Limit			
WSD Salt Water Intake							
SS in mg L ⁻¹	13.00	14.43	16.26	19.74			
Turbidity in NTU	8.04	9.49	10.01	11.54			
DO in mg/L	3.66	3.28	3.17	2.63			
Cooling Water Intake							
SS in mg L ⁻¹	15.00	22.13	18.42	27.54			
Turbidity in NTU	9.10	10.25	11.35	12.71			
DO in mg/L	3.36	2.73	3.02	2.44			

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

Parameters	Action	Limit		
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above is measured from odour intensity analysis. 		

Action and Limit Levels for Odour Patrol

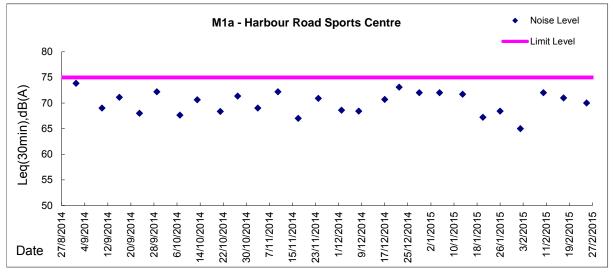


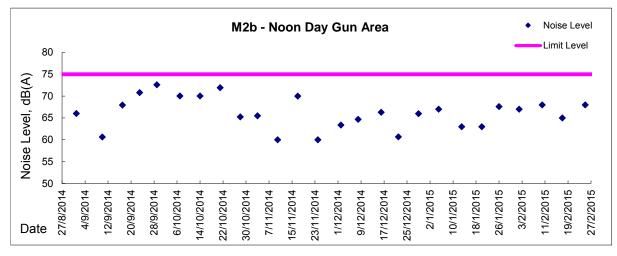
Appendix 4.1

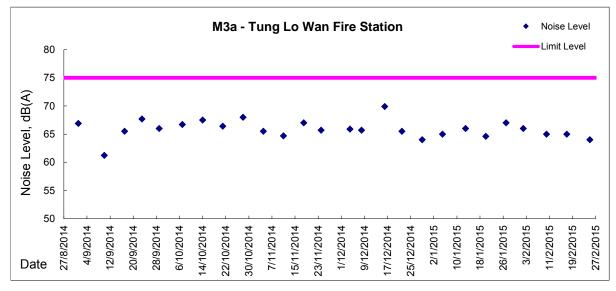
Noise Monitoring Graphical Presentations



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

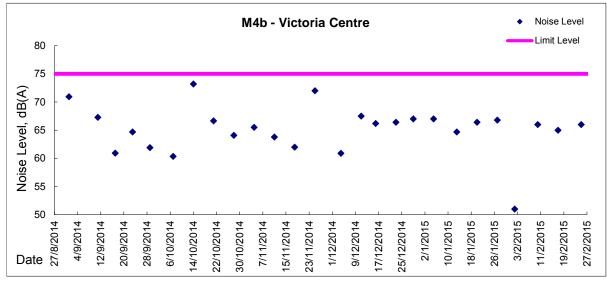


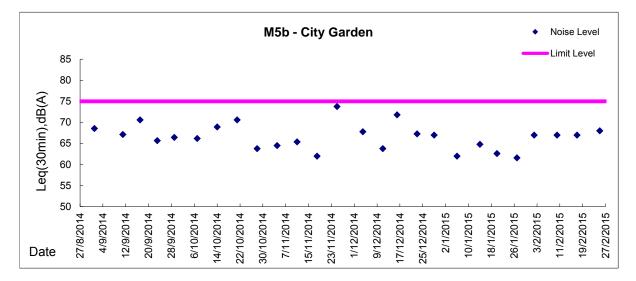


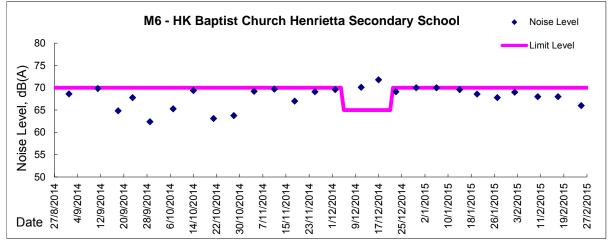




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





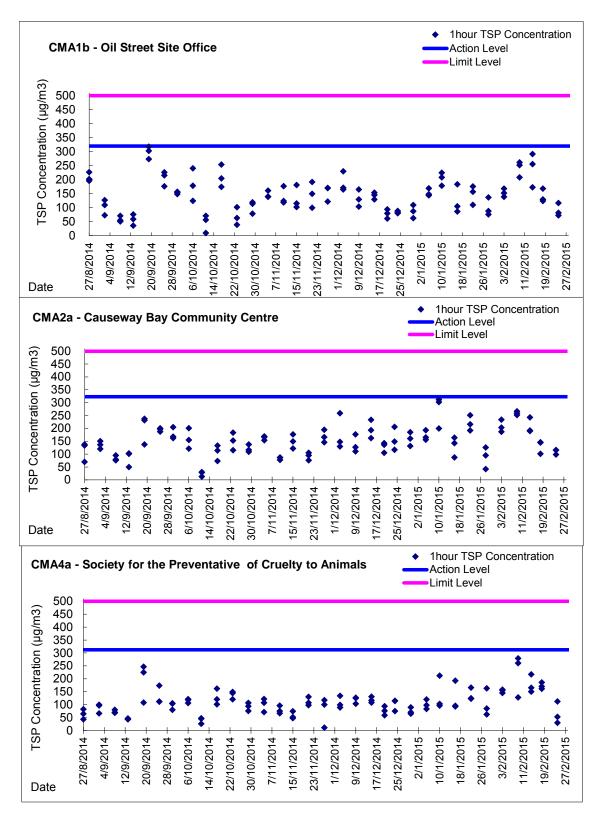




Appendix 4.2 Air Quality Monitoring Graphical Presentations

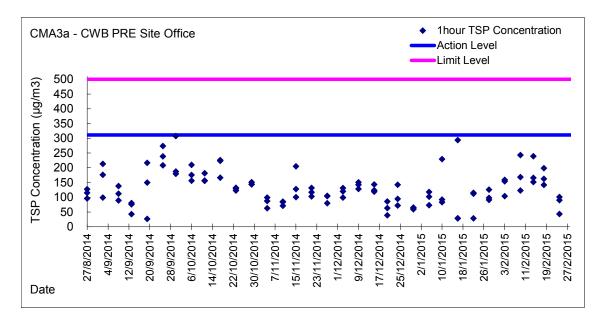


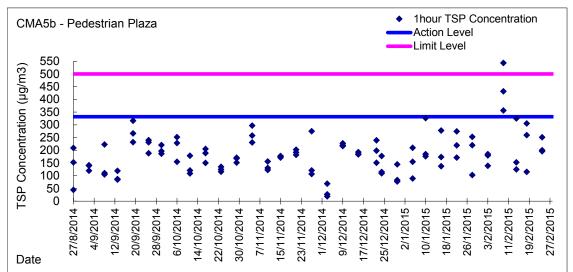
Graphic Presentation of 1 hour TSP Result

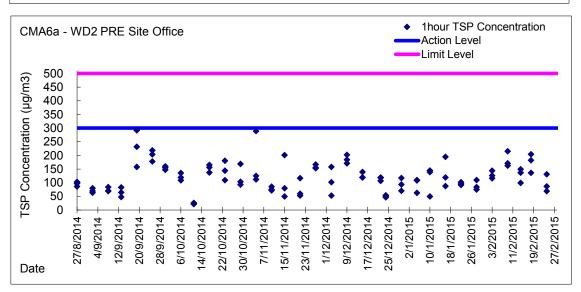




Graphic Presentation of 1 hour TSP Result

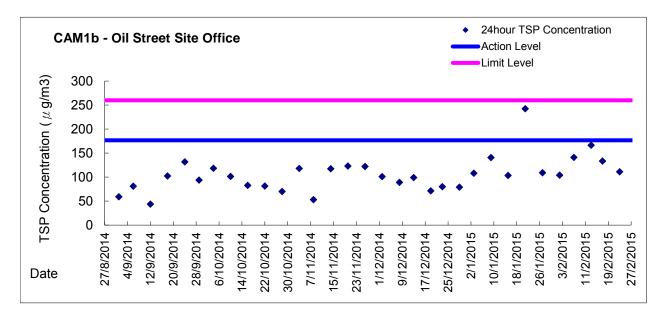


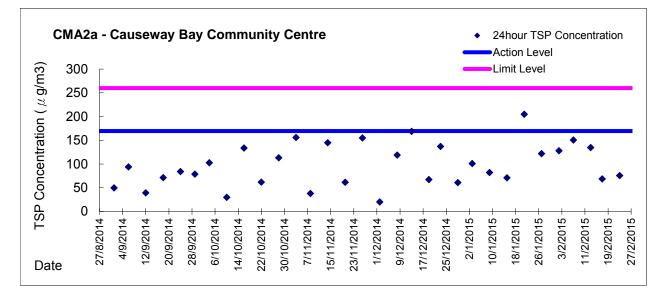


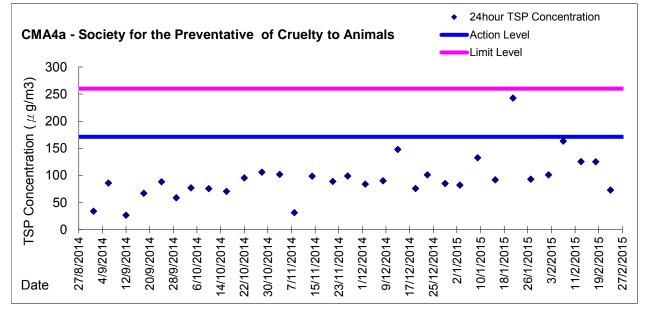




Graphic Presentation of 24 hour TSP Result

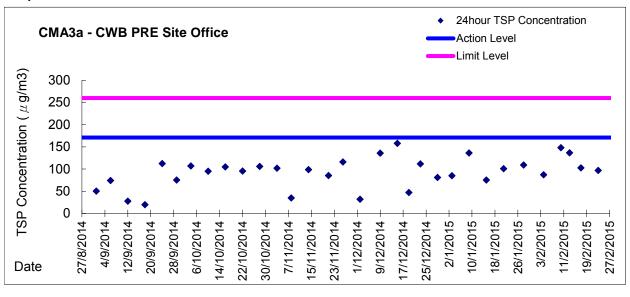


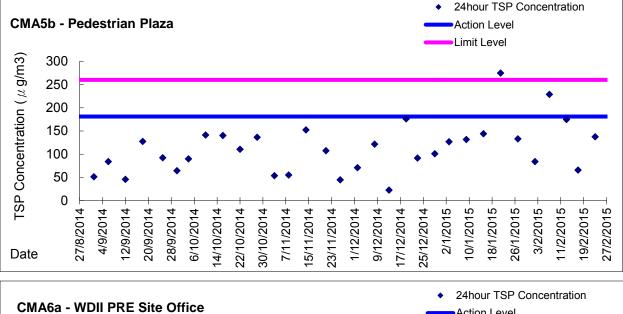


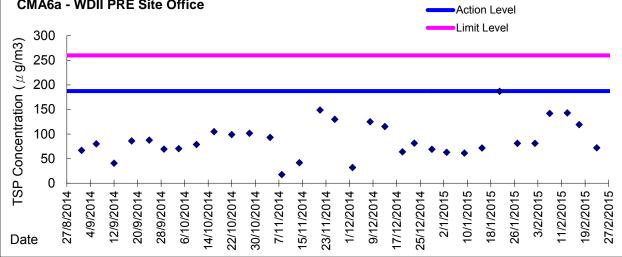




Graphic Presentation of 24 hour TSP Result





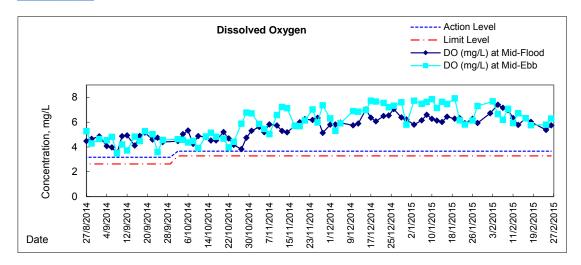


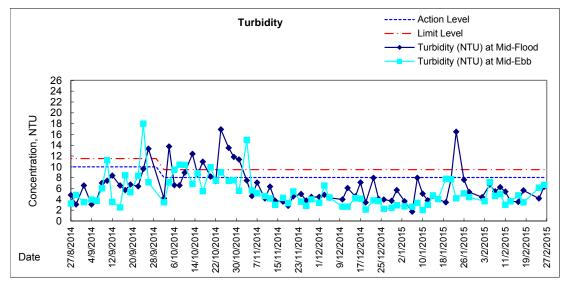


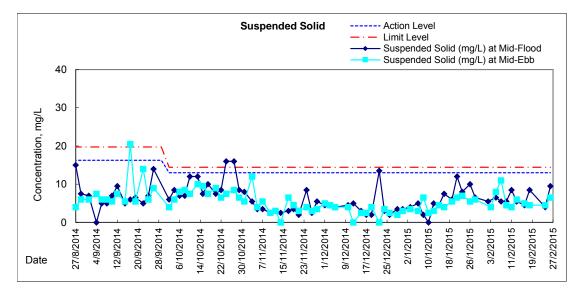
Appendix 4.3

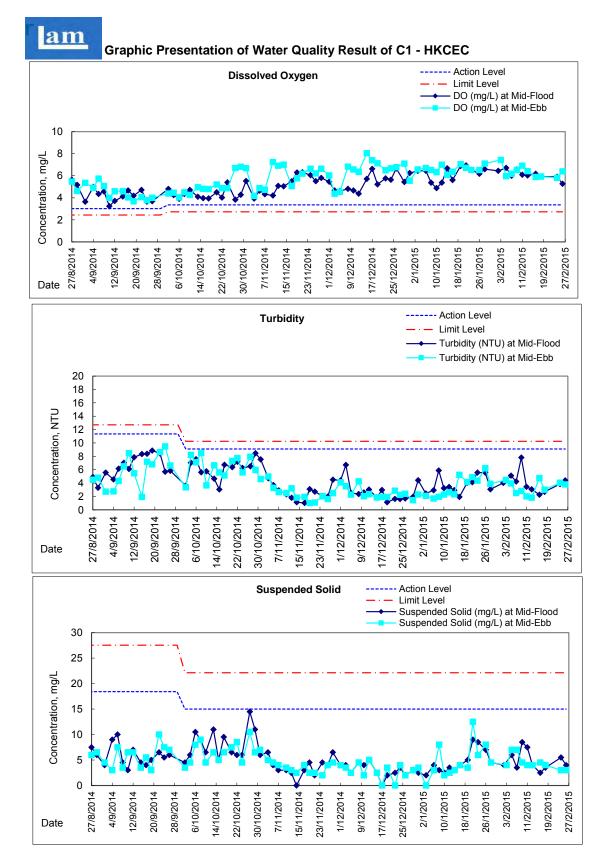
Water Quality Monitoring Graphical Presentations

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

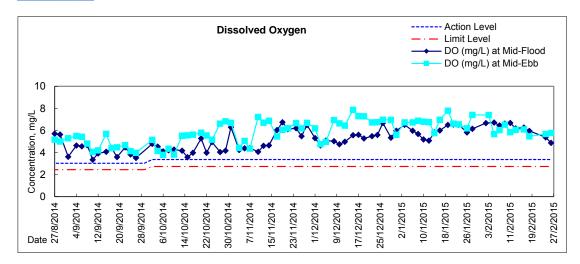


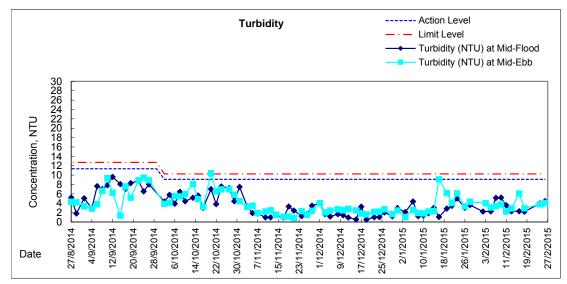


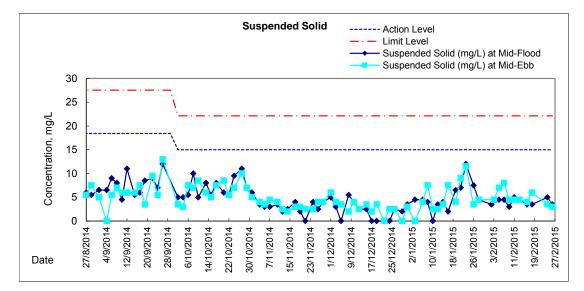




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

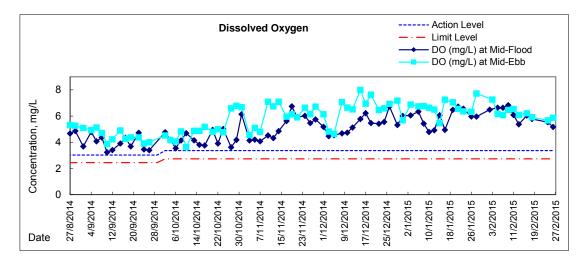


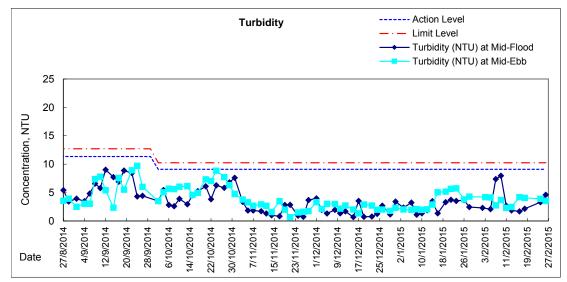


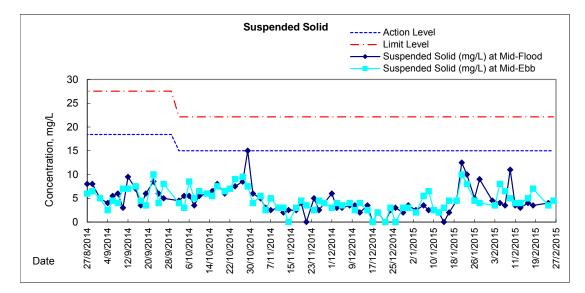




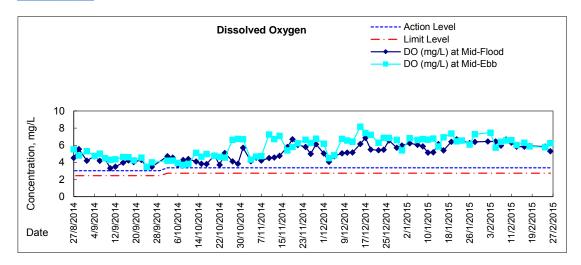
Graphic Presentation of Water Quality Result of P3 - APA

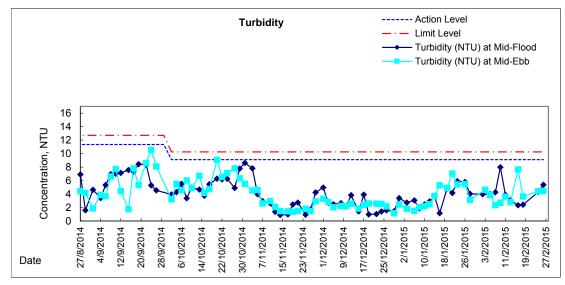


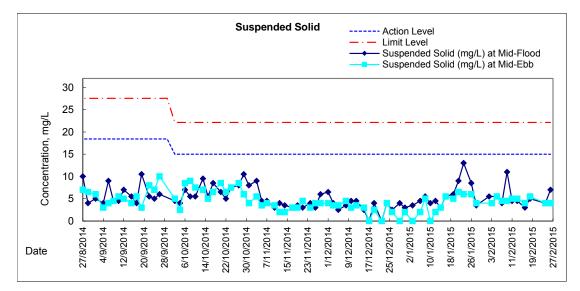




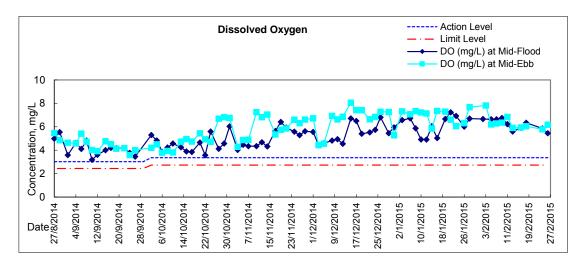
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

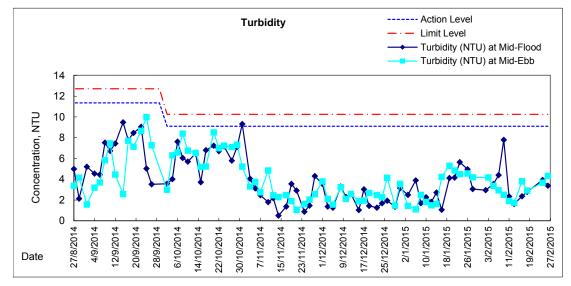


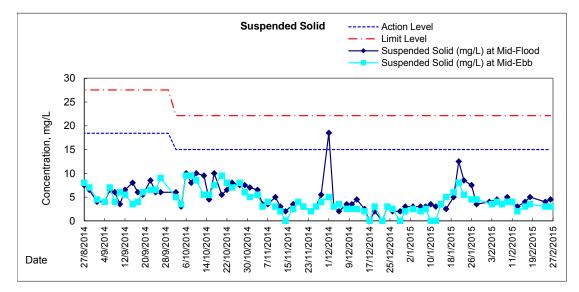




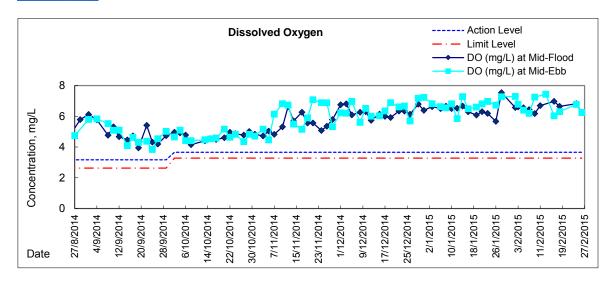
Graphic Presentation of Water Quality Result of P4 - SOC

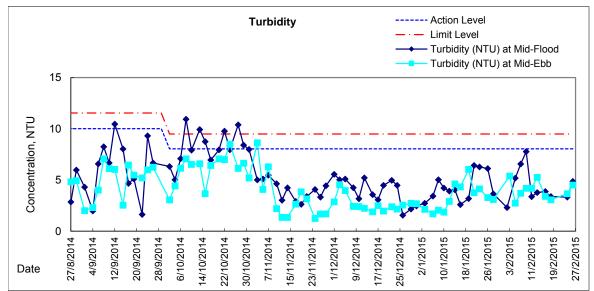


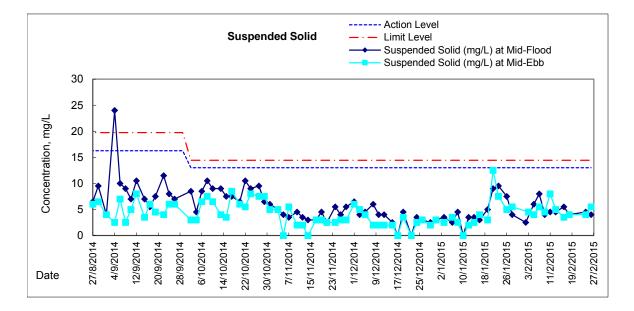




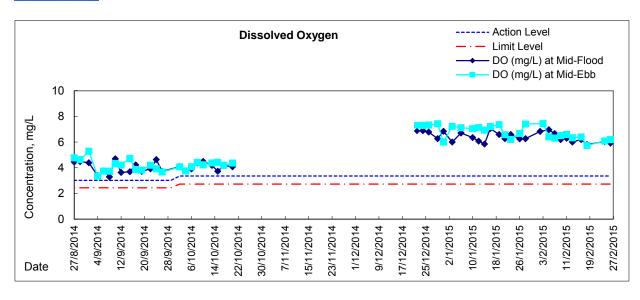
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

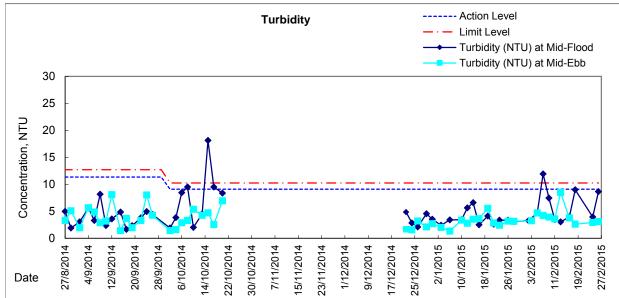


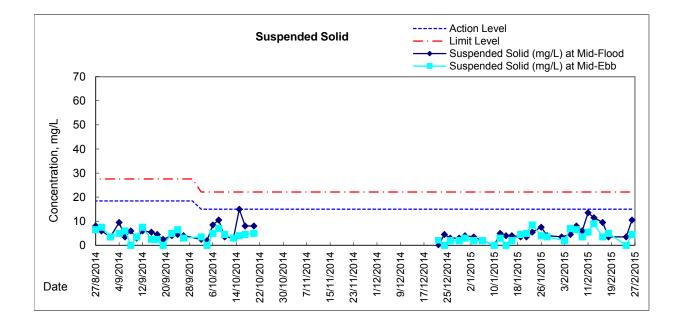




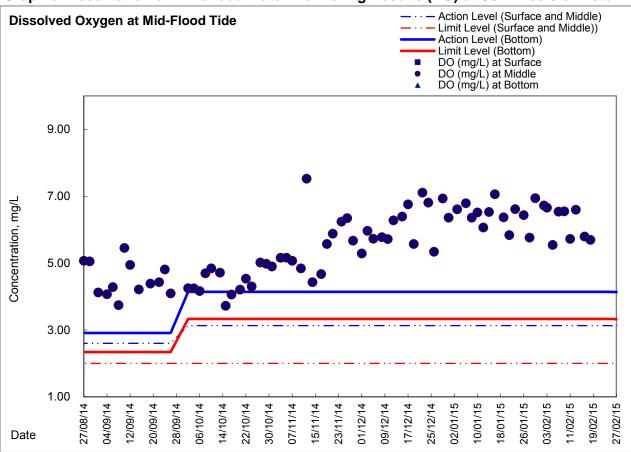
Graphic Presentation of Water Quality Result of C7 - Windsor House



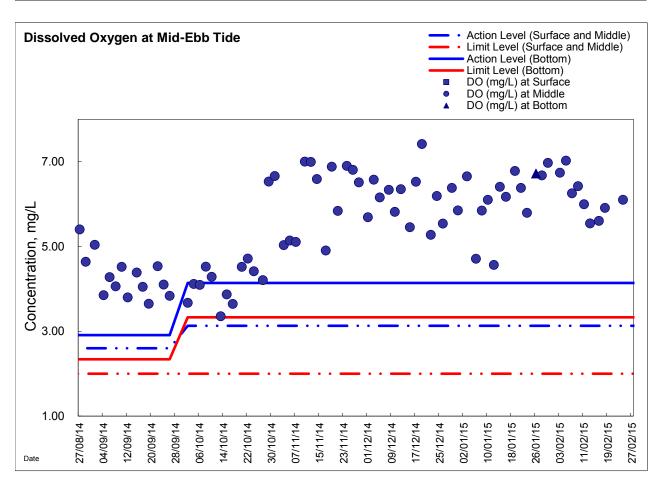






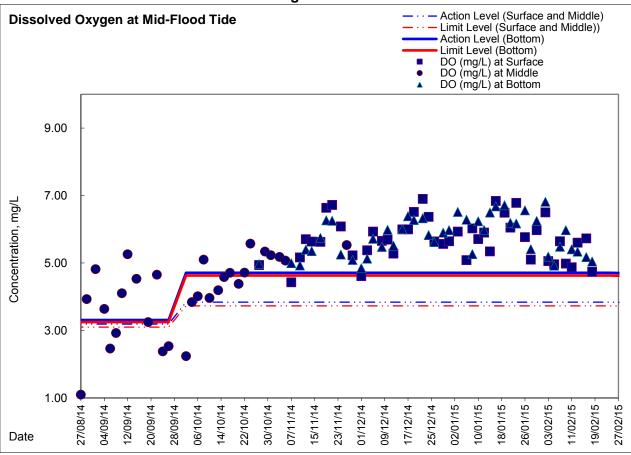


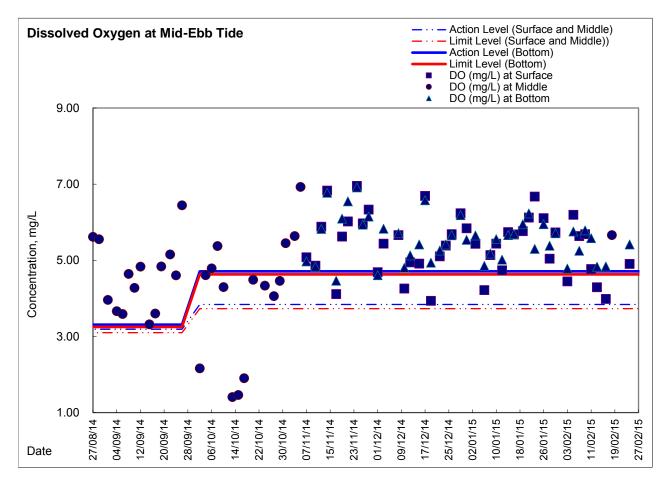
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





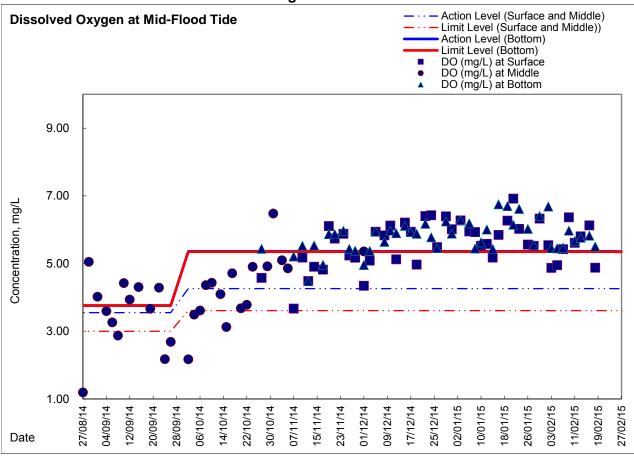
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

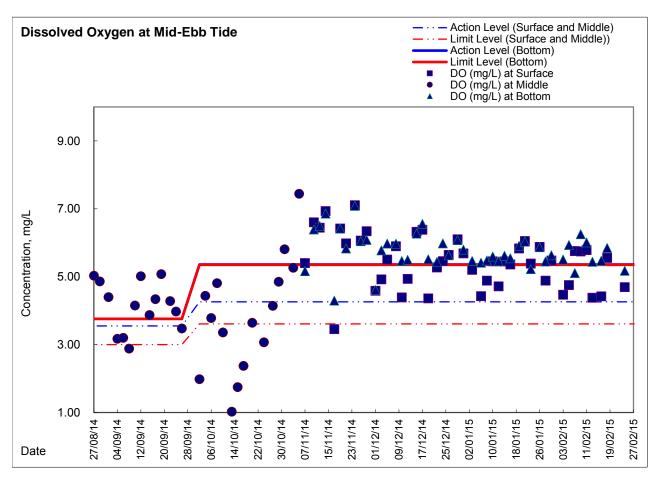






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area





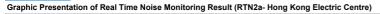


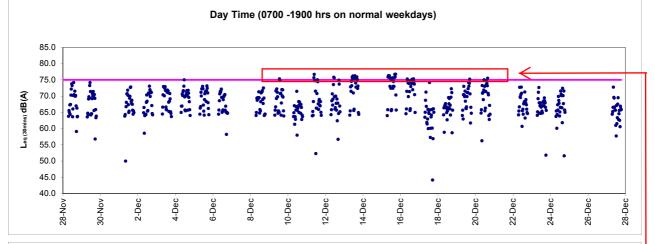
Appendix 4.4

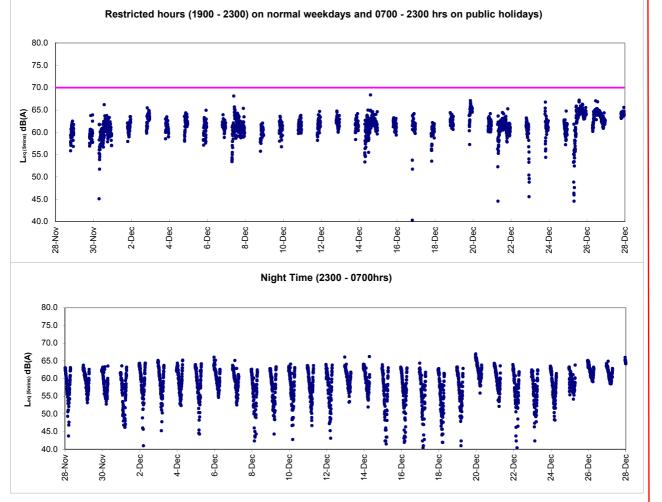
Real-time Noise Monitoring Results and Graphical Presentations



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



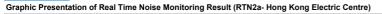


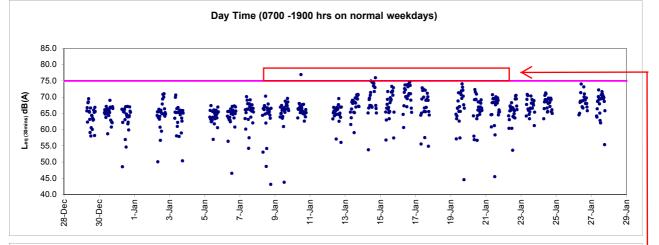


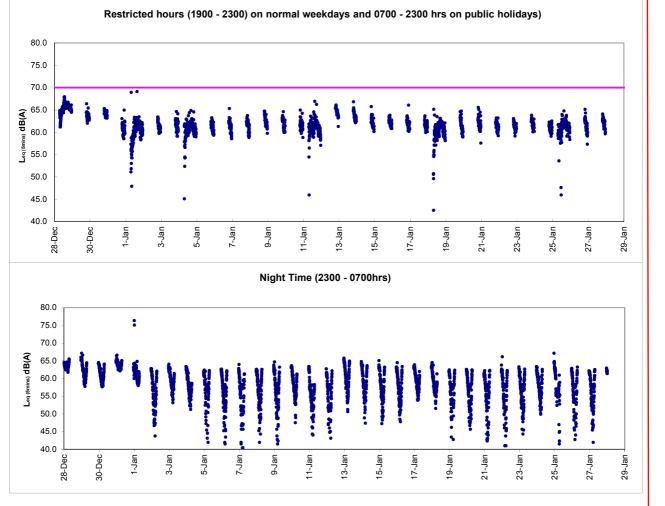
After checking with contractor HY/2009/19, socket H-piling was conducted during the recorded period, contractor mitigation measures including provision of temporary noise barrier were implemented while chilling system pipe work installation works (hammering and wielding works) was conducting at the roof top of Hong Kong Electric Centre during the recorded period. As such, the exceedances were considered to be non-Project related and contributed by the pipe work installation works at Hong Kong Electric Centre.



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



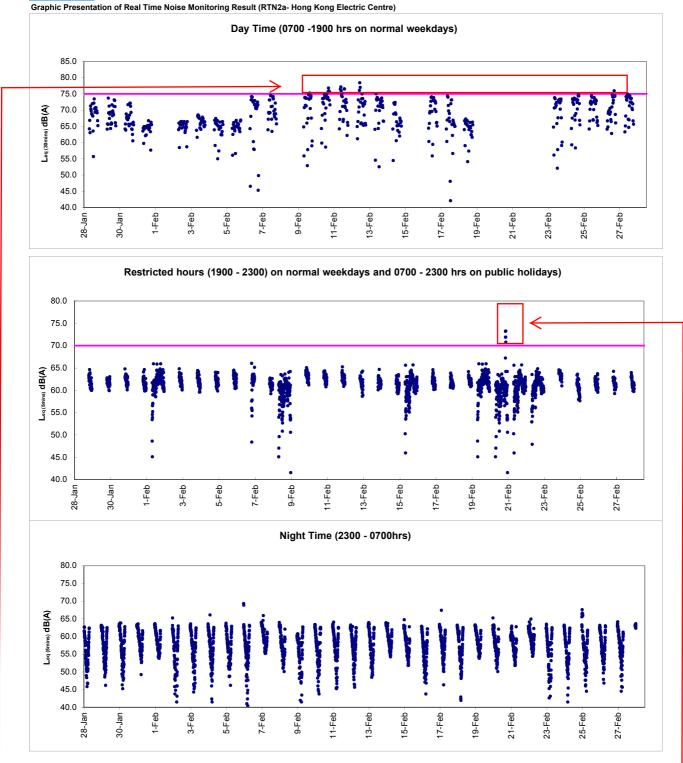




After checking with contractor HY/2009/19, bored piling was conducted during the recorded period, contractor mitigation measures including provision of temporary noise barrier were implemented. In view of the exceedances are non-continuous, the exceedances were considered to be non-Project related and contributed by nearby IEC traffic.



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



After checking with Contractor HY/2009/19, no major noise generating construction activities were undertaken at the concerned location during the recorded period while breaking works and excavation works was observed at the construction site next to the monitoring station across February 2015.

As such, the exceedances were considered to be non Project related and contributed by nearby non-CWB Project construction works. After checking with contractor HY/2009/19, no construction activity was undertaken at the concerned location during the recorded period. The exceedances were considered to be contributed by pyrotechnic display during Chinese New Year.



Appendix 5.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT		A	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; 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 the exceedance 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 the exceedance 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 the exceedance is identified)



EVENT		AC	CTION	
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 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 the exceedance 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)



Event / Action Plan for Construction Air Quality

EVENT		ACTION		-
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance 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 the exceedance 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)
2. 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 the exceedance is identified) 	 Submit proposals for remedial to ER within 3 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				
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform 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 the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (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. 	 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; 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 the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



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)



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, 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. (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	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	1)	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March	<i>'</i>	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome Status	tus
100504	4/5/2010	Public complainant received by ICC (ICC case: 1- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	sed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	Noise Permit no. GW-RS0371-10 for their dredging works.	sed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	sed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1) 2)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen. Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	Closed
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
			2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.			
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.	
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City		Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome S	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the compliant at night-time. Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; No further complaint was received after implementation of proposed measures 	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status		
110419	19/04/2011	Victoria Centre at Victoria Centre by	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.	Closed		
		ICC (ICC# 1- 272874759)			2)	There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.			
					3)	It is considered as invalid complaint under this Project.			
110617	9/06/2011	Victoria Centre Management	North Point	generating from the discharge point – Channel T at Watson	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.	Closed		
		Office Road in part of the site area was related to CWB under Contract no. HY/2009/11	related to	related	related to overb ander oblitabl	related to CWB under Contract	2)	According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	
					3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.			
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.			
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.			



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. Referring to the record provided by Cayley Property	Closed
						Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1- 301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.		ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.	
				Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
		4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.				
					5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was	1)	It was referred by AECOM to ET on 8 August 2011	
		by ICC no. 1- 304013959 Typhoon Shelter at 7am on 23 2) With refer July 2011. She complained that July 2011	by ICC no. 1-	July 2011. She complained that the works shall be started later	Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
				to the vicinity of the residents in early morning	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011		North Point	It was complained by Mr. Law from Victoria Centre	1)	It was referred by AECOM to ET on 28 July 2011	
		Victoria Centre Management Office by ICC no. 1-304616162		Management Office on 27 July 2011 regarding construction noise generated by the	2)	RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.	Closed
		1 00-010102		construction operations of	3)	No noise exceedance was recorded at construction noise	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409		Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) 2)	It was referred by AECOM to ET on 28 July 2011 With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	
	08/08/2011				4)	However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed
					5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Rei	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) 2)	It was referred by AECOM to ET on 17 August 2011. Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	Closed
					3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	,	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue	
						and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.	
						The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
						Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the	Closed
						 construction works were referred to the Contractors HY/2009/11 and HY/2009/19. 	
						 The pump is located on the site area of HY/2009/19 A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. 	
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outo	come	Status
						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						 Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 	
						 In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed 	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) 2)	RSS notified ET to carry out investigation on 17 October 2011. ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					 at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then 	
					 removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor. 	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	 ET confirmed with the Resident Site Staff that A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area. 	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	 According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no 	Keep in view for three months from the date of complaint recevied



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome		Status
					2)	CNP was checked by the police officer. ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.	
					3)	Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	2)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. HyD made a reply to the complainant on 16 April 2012 via	Closed
					4)	1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	 RSS notified ET on 8 March 2013 ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use. 	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	letter from EPD (ref: EP/860/F2/24 Annex IV) was received	Interim Report was submitted to EPD on 20 June 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome		Status
					3)	the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.		case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					 Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works. 	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	 A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground. ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. 	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	
					Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation.	
					According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.	
					In view of the above findings, no direct information associated with the noise concern was considered available.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014).	Interim investigation report
		EPD complaint received by ET on 10 November		was scented that affecting the swimmers at Wan Chai Swimming Pool.	The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	submitted to EPD on 17 November 2014.
		2014			ET confirmed with the Resident Site Staff that	
					ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool).	EPD advised no comment on the interim
					Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.	report and case closed on 1 Dec 2014.
					Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.	
					Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)	
					Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.	
					According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	 EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night. EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14. EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents. 	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	
					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.	
					In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	



Appendix 7.1

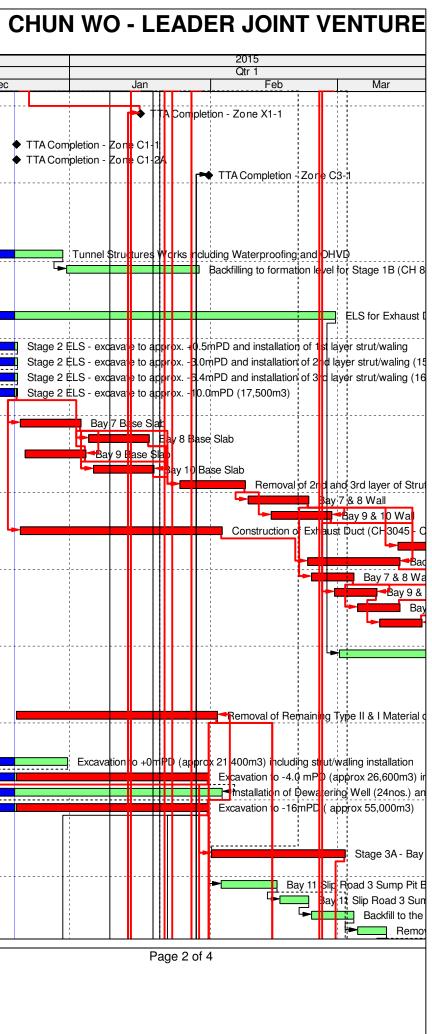
Construction Programme of Individual Contracts

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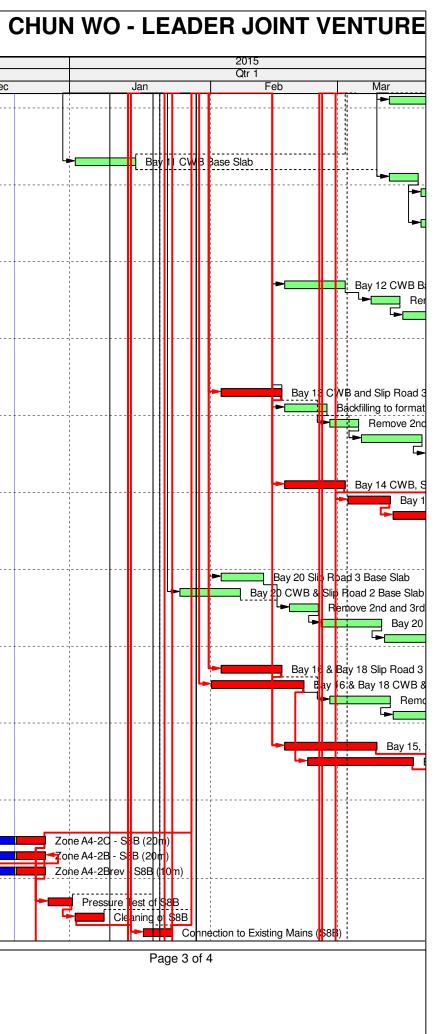
ID	Activity Name	OD	RD	Start	Finish	% Comp	Total Float	2014	
							ribat	Dec	
<mark><!--2009/01 - Works Pr</mark--></mark>	ogramme Rev.6E (Data Date: 20-Dec-14)								
Key Dates (Contractua	al)								
Major Works									
KD-0300	Completion of Section 3 of Works - CWB, Slip Roads 2 & 3 & Works in A	Area 8 0	0		11-Mar-15*	0%	0		1
KD-0400B	Completion of Outstanding Works for Section 4 - Salt Watermains	0	0		30-Jan-15	0%	562		
KD-0610	Completion of Section 6A of Works - Gov't Offices cooling water discharg	le 0	0		20-Dec-14*	0%	-62	← ℃omplet	ion of Secti
KD-0620	Completion of Section 6B of Works - Great Eagle Centre cooling water of		0		20-Dec-14*	0%	-62	Complet	ion of Secti
KD-0630	Completion of Section 6C of Works - China Resources Bldg cooling wate	-	0		20-Dec-14*	0%	-62		ion of Secti
KD-0800	Completion of Section 8 of Works - Works in Area 6	0	0		20-Dec-14*	0%	-44		ion of Secti
KD-1200	Completion of Section 12 of Works - Works in Area 10	0	0		20-Dec-14*	0%	-255	◆ Complet	
KD-1300	Completion of Section 13 of Works - Works in Area 11	0	0		21-Jan-15*	0%	0		
Key Dates (Forecast (Ū		21 out 10	070	Ű		-
	sompletion)								1
Major Works	O secolation of O table allow We dealers O satisfy A . Only We have also A . We		0		10 1-1 15	00/	570		1
KD-0405B	Completion of Outstanding Works for Section 4 - Salt Watermains & Work		0		16-Jan-15	0%	576		
KD-0805	Completion of Section 8 of Works - Works in Area 6	0	0		09-Apr-15	0%	-155		1
KD-1205	Completion of Section 12 of Works - Works in Area 10	0	0		28-Feb-15*	0%	0		1
KD-1305	Completion of Section 13 of Works - Works in Area 11	0	0		28-Feb-15*	0%	0		i i
Preliminaries									-
Method Statement &	Design (Major) Approval by AECOM								-
PRE-2000G	D-Wall Construction for CWB Tunnel (Stage 3)	60	1	05-Nov-13 A	20-Dec-14*	0%	-364	D-Wall (Constructio
PRE-2030B	ELS for CWB Stage 2	30	1	20-Mar-14 A	17-Jan-15	0%	575		
PRE-2030C	ELS for CWB Stage 3	30	30	19-Apr-14 A	16-Feb-15	0%	545		
Statutory / Authority						J J			;
PRE-3050B	ELS for CWB Tunneling Works Stage 2 (GEO)	28	28	21-Dec-14*	17-Jan-15	0%	-539		
PRE-3050C	ELS for CWB Tunneling Works Stage 3 (GEO)	28	28		16-Feb-15	0%	545		
PRE-3050D	ELS for CWB Tunneling Works Stage 1b (GEO) for Bottom Up	28	1		20-Dec-14	0%	-539	FI S for	-¦ ĊWB Tunr
PRE-3310	Stage 2 Tunnel Structure Design	60	60	•	17-Feb-15	0%	544		9112 1011
PRE-3320	Stage 3 Tunnel Structure Design	60	60		17-Feb-15	0%	544		1
	ection Submission Approval by WSD/Stakeholders	00	00	20 800 14	17 1 66 16	070	011		-
PRE-3200C	Salt Water Mains (S3)	28	28	20-Dec-14*	16-Jan-15	0%	15		<u>i</u>
PRE-3200C	Salt Water Mains (SS)	28	28		16-Jan-15	0%	-147		
PRE-3200E	Salt Water Mains (S9)	28	28		16-Jan-15	0%	-567		1
									1
PRE-32000	Cooling Watermains (BF)	28	28		16-Jan-15	0%	-91		!
PRE-3200P	Cooling Watermains (BG)	28	28		16-Jan-15	0%	-91		:
PRE-3200Q	Cooling Watermains (BI)	28	28	20-Dec-14*	16-Jan-15	0%	-91		
	(CWB Diaphragm Wall)				1				
PRE-4020	Contractor's Detailed Design	30	1		20-Dec-14	40%	543	Contract	tor's Detail
PRE-4030	AECOM's and GEO's approval on Detailed Design	60	60	21-Dec-14	18-Feb-15	0%	543		1
Contractor's Design									
PRE-5100C	Approval of ICCP of Cross-Harbour Mains - by AECOM & Relevant Auth	orities 9	0	04-Mar-11 A	20-Dec-14	100%	604	Approval	of ICCP o
TTA Implementation a	nd Completion Summary Milestone								
Zone A2 (At Convent	ion Avenue)								
TTAM-A2-1040D	TTA Completion - Zone A2-4B	0	0		12-Jan-15	0%	580		Г
Zone A3 (At Fenwick	Pier Street)								
TTAM-A3-1030	TTA Completion - Combination of Zone A3-5D & A3-4D (Sewer)	0	0		24-Jan-15	0%	-146		
TTAM-A3-1040	TTA Implementation - Zone A3-2C (Sewer)	0	0			0%	-146		
TTAM-A3-1050	TTA Completion - Zone A3-2C (Sewer)	0	0		27-Feb-15	0%	-152		
TTAM-A3-1060	TTA Implementation - Zone A3-2D (Sewer)	0	0	28-Feb-15	2710010	0%	-152		-
TTAM-A3-1070	TTA Completion - Zone A3-2D (Sewer)	0	0	2010010	26-Mar-15	0%	507		-
TTAM-A3-1090B	TTA Completion - Zone A3-5C - Salt Water	0	0		23-Jan-15	0%	569		-
		0	0		23-Jan-15	0%	569		
Zone A4 (At Convent		0	0		00 lan 15	00/	1 47		
TTAM-A4-1120B	TTA Completion - Zo ne A4-2C	0	0		30-Jan-15	0%	-147		-
Zone A5 (At Harbour		-							-
TTAM-A5-1050B	TTA Completion - Zone A5-6	0	0		30-Jan-15	0%	562		1
	1					~ /			
Remaining Work	Summary Bar	CE	DDC	UN I RACT N	IO. HK/2009/	01			
Actual Work				o	ol : -				
Summary Bar	Wa	an Chai Development Ph	nase II	- Central-Wa	an Chai Bypa	iss at HKC	EC (Co	ntract 1)	
					Durin			44	
		WORKS PROGRAMME	Dovi	SE - R Month	Programme	starting fro	om 20-D	ec-14	
 Critical Remaining Wo Milestone 	··· ··		. nev.		riogramme	otarting ne			

				2015		
an				Qtr 1 Feb		Mar
				100		ina
				Completion of Out	etandina	Comp Works for Section
of	Wor	ks -		Offices cooling wa		
				t Eagle Centre co	-	-
				a Resources Bldg s in Area 6	cooling	water discharge
				ks in Area 10		
1				on of Section 13 of	f Works	Works in Area 11
	Comr		on of	Outstanding Work	rs for Sec	tion 4 - Salt Waterr
	Jouri	iic ti				
						Completion of Sec
					•	Completion of Sec
CM	/B Tu	inne	el (Sta	ge 3)		
]	ELS	for	CWE	Stage 2		
					LS for C	WB Stage 3
	L ELS	for	CWE	Tunneling Works	Stage 2	(ĠEO)
-	-					WB Tunneling Wor
Wo	orks S	Stag	je 1b	(GEO) for Bottom		unnel Structure De
				i		unnel Structure De
				ins (S3) ins (S8)		
				ins (S9)		
İ	Coolir	ng V	Vate	mains (BF)		
				mains (BG)		
(20011	<u>ig</u> v	vatei	mains (BI)		
sig	n					
					AECOM	's and GEO's appro
s-F	larbo	ur	Mains	- by AECOM & R	elevant A	wthorities
		<u></u>				
TA	Com	plet	ion -	Zone A2-4B		
	-	T	TAC	; ompletion - Comb	ination o	f Zone A3-5D & A3-
	5	•		mplementation - Z		
					2	TTA Completion -
					2	TTA Implementati
	гн	T	TACc	mpletion - Zone A	3-50 - S	alt Water
				TTA Completion - 2	20ne A4	20
			-	TTA Completion - 2	Zone A5-	6
F	Page	9 1	of 4			
F	Page	9 1	of 4			
F	Page	e 1	of 4			

D	Activity Name	OD	RD	Start	Finish	% Comp	Total Float	2014				
							i iout		Dec			Jai
Area X3 (Fleming Roa	ad b/w Harbour Road & Convention Avenue)											
TTAM-X3-1000B	TTA Completion - Zone X1-1	0	0		16-Jan-15	0%	-90					
Zone C (Expo Drive E	ast)											
TTAM-C1-1000B	TTA Completion - Zone C1-1	0	0		20-Dec-14	0%	604		•	TTA Com	pletion - Zo	ne C
TTAM-C1-1010D	TTA Completion - Zone C1-2A	0	0		20-Dec-14	0%	604		•	TTA Com	pletion - Zo	ne C
TTAM-C3-1000B	TTA Completion - Zone C3-1	0	0		31-Jan-15	0%	561					
ection 3 of the Works	- CWB Tunnel, Slip Roads 2 & 3, Works in Area 8											
	ks (Stage 1 : CH2947 - CH3045)											
	tructure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)											
	e at Stage 1A & 1B (CH2947 - CH3045)											
	Tunnel Structures Works including Waterproofing and OHVD	300	11	28-Feb-14 A	30-Dec-14	0%	178		_		Tunnel Stru	
	Backfilling to formation level for Stage 1B (CH 80 to CH 120)	30		31-Dec-14	29-Jan-15	0%	178	·				
	ks (Stage 2 : Ch3045 - Ch3129)	30	30	31-Dec-14	29-Jan-15	0%	170					
	on Works (Bottom Up Method : CH3045 - CH3129 / CH120 - CH225)	170	74	07 hun 144	00 Esh 15	00/	455	1				
	ELS for Exhaust Duct (~-5.0mPD)	170	/1	27-Jun-14 A	28-Feb-15	0%	455	1				
	on Works (For Bottom Slab Construction : CH3045 - CH3129)											
S3B-EW-1000A	Stage 2 ELS - excavate to approx. +0.5mPD and installation of 1st layer s			19-May-14 A	20-Dec-14	0%	603			- 1	LS - excava	
S3B-EW-1000B	Stage 2 ELS - excavate to approx3.0mPD and installation of 2nd layer s			19-Sep-14 A	20-Dec-14	0%	603				LS - excava	
S3B-EW-1000C	Stage 2 ELS - excavate to approx6.4mPD and installation of 3rd layer s	U ()		19-Sep-14 A	20-Dec-14	0%	603			-	LS - excava	
S3B-EW-1000D	Stage 2 ELS - excavate to approx10.0mPD (17,500m3)	50	1	19-Sep-14 A	20-Dec-14	0%	-73	1		Stage 2 E	LS - excava	i e to
	tructure Works (Bay 8 to Bay 10 : CH3045 - CH3129)									, , ,		
S3B-TS-1010	Bay 7 Base Slab	14	14	21-Dec-14	03-Jan-15	0%	-73				Bay 7 E	8 se
S3B-TS-1020	Bay 8 Base Slab	14	14	05-Jan-15	18-Jan-15	0%	-73					
S3B-TS-1030	Bay 9 Base Slab	14	14	22-Dec-14	04-Jan-15	0%	-73				Bay 9	Base
S3B-TS-1040	Bay 10 Base Slab	14	14	06-Jan-15	19-Jan-15	0%	-73					
S3B-TS-1050	Removal of 2nd and 3rd layer of Strut/Waling	15	15	25-Jan-15	08-Feb-15	0%	-73					
S3B-TS-1060	Bay 7 & 8 Wall	14	14	09-Feb-15	22-Feb-15	0%	-73					
S3B-TS-1070	Bay 9 & 10 Wall	14	14	14-Feb-15	27-Feb-15	0%	-73					
S3B-TS-1080	Construction of Exhaust Duct (CH3045 - CH3129)	45	45	21-Dec-14	03-Feb-15	0%	-35		╘╾┓	i		
S3B-TS-1090	Backfilling at Northern Side from -10mPD to -2mPD (Slip Road 2 - 4700c		21	14-Mar-15	03-Apr-15	0%	-73					
S3B-TS-1100	Backfilling at Southern Side from -10mPD to -2mPD (Slip Road 3 - 4000c	,	21	22-Feb-15	14-Mar-15	0%	-53					
S3B-TS-1110	Bay 7 & 8 Wall and OHVD Base Slab	10	10	23-Feb-15	04-Mar-15	0%	-73					
S3B-TS-1120	Bay 9 & 10 Wall and OHVD Base Slab	10	10	28-Feb-15	09-Mar-15	0%	-73	 				
S3B-TS-1130	Bay 7 & 8 OHVD Wall Stem and Bay 7 & 8 Top Slab	10	10	05-Mar-15	14-Mar-15	0%	-68					
S3B-TS-1140	Bay 9 & 10 OHVD Wall Stem and Bay 9 Top Slab	10	10	10-Mar-15	19-Mar-15	0%	-73					
S3B-TS-1140	Construction of Slip Road 2 & 3 Base Slab (CH3045 - CH3129)		14		17-Apr-15	0%	-73					
		14		-				·				
S3B-TS-2000A	Construction of Exhaust Duct (CH2988 - CH3045)	48	48	01-Mar-15	17-Apr-15	0%	455					
S3B-TS-2000B	Construction of Slip Road 3 (CH2988 - CH3045) above Exhaust Duct inc	luding backfilling 30	30	18-Apr-15	17-May-15	0%	455					
	ks (Stage 3 : Ch3129 - Ch3245)											
Stage 3 - Reclamat									_			
	Removal of Remaining Type II & I Material during Stage 3 Excavation	45	45	20-Dec-14	02-Feb-15	0%	-144					
	on Works (Ch3129 - Ch3245)											
Excavation Wor												
	D Excavation to +0mPD (approx 21,400m3) including strut/waling installation			03-Sep-14 A	31-Dec-14	0%	592				Excavatior	104
	Excavation to -4.0 mPD (approx 26,600m3) including strut/waling installat			03-Sep-14 A	31-Jan-15	0%	-271	· –				
	Installation of Dewatering Well (24nos.) and Pumping Test	45		12-Dec-14 A	03-Feb-15	0%	558					
	Excavation to -16mPD (approx 55,000m3)	125	43	15-Dec-14 A	31-Jan-15	0%	-142	L		· · · · · · · · · · · · · · · · · · ·		1
Stage 3 - Tunnel Si	tructure Works (Bay 11 to Bay 17 : Ch3129 - Ch3245)							1				
Tunnel Structur	e at Stage 3A (Top Slab Construction : CH3185 - CH3246)											
S3C-TS-1100	Stage 3A - Bay 15, 16, 17 & 18 Top Slab (CH3185 - CH3223 : 38m Long) 30	30	01-Feb-15	02-Mar-15	0%	-271					
Tunnel Structur	e at Stage 3A & 3B (CH3129 - CH3245)											
S3C-TS-2000	Bay 11 Slip Road 3 Sump Pit Base Slab	14	13	03-Feb-15	15-Feb-15	0%	453					
	A Bay 11 Slip Road 3 Sump Pit Wall	7	7	16-Feb-15	22-Feb-15	0%	453					
	B Backfill to the Base Slab of Slip Road 3	10	10	23-Feb-15	04-Mar-15	0%	453					
	Remove 2nd and 3rd layer of Strut and Waling (Bay 11)	7	7	05-Mar-15	11-Mar-15	0%	453					
000 10 2000		•	•			070	100	1				
Remaining Work	Summary Bar	CE		ONTRACT N	O. HK/2009/	01						
Actual Work												
	Wa	n Chai Development Ph	ase II	- Central-Wa	an Chai Bypa	ss at HKC	EC (Co	ontract 1)				
Summary Bar		•						,				
— • • • • • • •					_							
 Critical Remaining Wo Milestone 	rk <u>V</u>	NORKS PROGRAMME	Rev.6	E - 3 Month	Programme	starting fro	m 20-l	<u>Dec-14</u>				

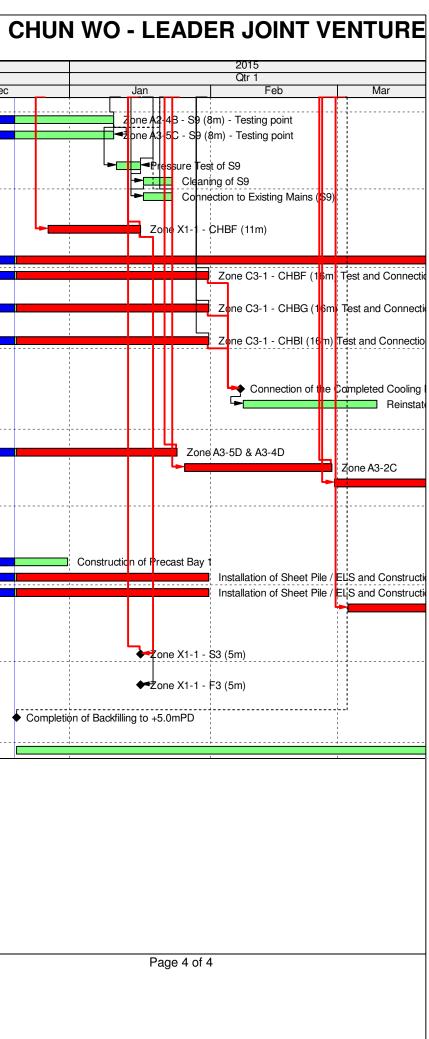


ID		Activity Name	OE	R	D Sta	rt Finish	% Comp		2014		
								Float	Dec		
	S3C-TS-2000	C Bay 11 Slip Road 3 Base Slab and Pump Room Base Slab	14	1	4 12-Ma	ar-15 25-Mar-1	5 0%	453	Dec		-
		DD Bay 11 Slip Road 3 Pump Room Wall	7	_	7 26-Ma						
			14		4 02-Ap						
		DE Bay 11 Slip Road 3 Elec. Room Base Slab			· ·						
		Bay 11 Slip Road 3 Wall & OHVD Base Slab	10		0 16-Ap	· ·					
		OF Bay 11 CWB Base Slab	14		4 02-Ja						-
	S3C-TS-2000	OG Bay 11 CWB Wall	7		7 12-Ma			470			_
	S3C-TS-2000	0H Bay 11 CWB Wall and OHVD Base Slab	10	1	0 19-Ma	ar-15 28-Mar-1	5 0%	491			
	S3C-TS-2000	I Bay 11 CWB OHVD Wall Stem and Top Slab	14	1	4 29-Ma	ar-15 11-Apr-1	5 0%	491			
	S3C-TS-2000	0J Backfilling to formation of Slip Road 2	10	1	0 19-Ma	ar-15 28-Mar-1	5 0%	470			
		0K Bay 11 Slip Road 2 Base Slab	14	1	4 29-Ma	ar-15 11-Apr-1	5 0%	470			
		DL Bay 11 Slip Road 2 Wall	7		7 12-Ap						
		Bay 11 Slip Road 2 Top Slab	14		4 19-Ap					·	-
					· · ·						
		Bay 12 CWB Base Slab	14	_	4 17-Fe						
		A Remove 2nd and 3rd layers of Strut/Waling (Bay 12)	7		7 08-Ma						
		D. Bay 12 CWB Wall	14	1	4 15-Ma						
	S3C-TS-2010	0B Backfilling to formation of Slip Road 2 & 3	10	1	0 29-Ma	ar-15 07-Apr-1	5 0%	447			
	S3C-TS-2010	0C Bay 12 Slip Road 2 & 3 Base Slab	10	1	0 12-Ap	r-15 21-Apr-1	5 0%	443			
	S3C-TS-2010	D Bay 12 CWB Wall & OHVD Base Slab	14	1	4 29-Ma	ar-15 11-Apr-1	5 0%	443			
		E Bay 12 CWB OHVD Wall Stem and Top Slab	14	1	4 12-Ap	r-15 25-Apr-1	5 0%	477			
		Bay 13 CWB and Slip Road 3 Base Slab	14		4 03-Fe	· ·					
		A Backfilling to formation of Slip Road 2	10		0 17-Fe						
											-
		0. Remove 2nd and 3rd layers of Strut/Waling (Bay 13)	7		7 27-Fe						
		B Bay 13 CWB & Slip Road 3 Wall and Slip Road 2 Base Slab	14	1	4 06-Ma						
	S3C-TS-2020	OC Bay 13 CWB & Slip Road 3 Wall & OHVD Base Slab and Slip Road 2 Wall	l 21	2	1 20-Ma	ar-15 09-Apr-1	5 0%	478			
	S3C-TS-2020	DD Bay 13 CWB & Slip Road 3 Top Slab and Slip Road 2 Wall & OHVD Base	Slab 14	1	4 10-Ap	r-15 23-Apr-1	5 0%	478			
	S3C-TS-2030	Bay 14 CWB, Sump Pump and Slip Road 3 Base Slab	14	1	4 17-Fe	b-15 02-Mar-1	5 0%	-144			
	S3C-TS-2030	0A Bay 14 Sump Pump Wall	10	1	0 03-Ma	ar-15 12-Mar-1	5 0%	-144			Î
		B Backfill to formation of Slip Road 2	10	1	0 13-Ma						
		C Bay 14 Slip Road 2 Base Slab	14	_	4 23-Ma						
			7		7 11-Ap	· ·					
		DD Remove 2nd and 3rd layer of Strut/Waling (Bay 14)			· ·	· ·					
		DE Bay 14 CWB and Slip 3 Road Wall and Pump Room Base Slab	14		4 18-Ap						-
		0 Bay 20 Slip Road 3 Base Slab	10	_	0 03-Fe						
		0A Bay 20 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	14	1	4 25-Ja						
	S3C-TS-2090	0. Remove 2nd and 3rd layer of Strut/Waling (Bay 20)	7		7 18-Fe	b-15 24-Feb-1	5 0%	495			
	S3C-TS-2090	B Bay 20 CWB & Slip Road 2 Wall and Slip Road 3 Wall & OHVD Base Slab	o 14	1	4 25-Fe	b-15 10-Mar-1	5 0%	495			
	S3C-TS-2090	C Bay 20 CWB & Slip Road 2 Wall & OHVD Base Slab and Slip Road 3 Top	Slab 14	1	4 11-Ma	r-15 24-Mar-1	5 0%	495			
		D Bay 20 CWB & Slip Road 2 Top Slab	14	1	4 25-Ma						-
) Bay 16 & Bay 18 Slip Road 3 Base Slab	14	1	4 03-Fe					1	
		A Bay 16 & Bay 18 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	21		1 01-Fe						
		B Remove 2nd and 3rd layer of Strut/Waling (Bay 16 & Bay 18)	14	_	4 27-Fe						
		IC Bay 16 & Bay 18 CWB & Slip Road 2 Wall and Slip Road 3 Wall & OHVD I			1 13-Ma	· · ·					_
	S3C-TS-2100	D Bay 16 & Bay 18 CWB & Slip Road 2 Wall & OHVD Base Slab and Slip Ro	oad 3 OHVD Wall { 21	2	1 03-Ap	r-15 23-Apr-1	5 0%	465			
	S3C-TS-2110	Bay 15, 17 & 19 Slip Road 3 Base Slab	21	2	1 17-Fe	b-15 09-Mar-1	5 0%	-131			
	S3C-TS-2110	A Bay 15, 17 & 19 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	24	2	4 22-Fe	b-15 17-Mar-1	5 0%	-139		1	
	S3C-TS-2110	B Remove 2nd and 3rd layer of Strut/Waling (Bay Bay 15, 17 & 19)	14	1	4 23-Ma	ar-15 05-Apr-1	5 0%	-139			
		IC Bay 15, 17 & 19 CWB & Slip Road 2 Wall and Slip Road 3 Wall & OHVD E			4 06-Ap						
Socti		s - Salt Water Mains, Works in Area 3					0 0 / 0				-
	B (DN800) Salt Wa				-						-
	S4-1000	Zone A4-2C - S8B (20m)	45		7 24-Sep					Zone A4-	
	S4-1010C	Zone A4-2B - S8B (20m)	48		7 07-Oc					Tone A4-	
:	S4-1010D	Zone A4-2Brev - S8B (10m)	21		7 14-Ma	-14 A 26-Dec-1	4 100%	-132		Zone A4-	-)
	Testing and Com	nissioning									
	S4-1500	Pressure Test of S8B	6		6 27-De	c-14 01-Jan-1	5 0%	-132		Pre	- פו
	S4-1510	Cleaning of S8B	7		7 02-Ja						Ĵ
	S4-1520	Connection to Existing Mains (S8B)	7	_	7 17-Ja						-
	34-1020	Connection to Existing Mains (SoB)	1		/ 1/-Ja	11-15 23-Jall-1	5 0%	-147		1	_
	omoining Merte	Summery Ber	(EDD	CONTRA	CT NO. HK/20	09/01				
	emaining Work	Summary Bar									
Ac	ctual Work	Mar	n Chai Development I	haco	II - Cent	al-Wan Chai P	Inase at UK		ontract 1)		
📃 Su	ummary Bar	l vva		nase			pass at th				
	•				0 - 0 1	Ionth Programr	aa atartina f				
	ritical Remaining Wo										



D	Activity Name	OD	RD	Start	Finish	% Comp	Total Float	2014	
							Tiour	Dec	J
S9 (DN450) Salt Wa			,						
S4-2080	Zone A2-4B - S9 (8m) - Testing point	24		04-Dec-13 A	10-Jan-15	100%	453	1	
S4-2120	Zone A3-5C - S9 (8m) - Testing point	14	14	16-Jul-13 A	10-Jan-15	0%	464		
Testing and Cor									
S4-2500	Pressure Test of S9	6		11-Jan-15	16-Jan-15	0%	569		
S4-2510	Cleaning of S9	7		17-Jan-15	23-Jan-15	0%	569		
S4-2520	Connection to Existing Mains (S9)	7	7	17-Jan-15	23-Jan-15	0%	569		4
	orks - Cooling Water Discharge System (3 nos. Govt Towers)								
S6A-1200	Zone X1-1 - CHBF (11m)	21	21		16-Jan-15	0%	-112		
S6A-1220	Zone X1-3 - CHBF (7m)	21	21	· ·	04-May-15	0%	-241		
S6A-1230	Zone X1-4A - CHBF (21m) & S3 (21m) Connection Point	24		20-Jan-14 A	13-Apr-15	100%	-241		
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	43	22-Jun-14 A	31-Jan-15	0%	-127		
Section 6B of the W	orks - Cooling Water Intake & Discharge System (Great Eagle / Harbour	Centre)							
S6B-1220	Zone C3-1 - CHBG (16m) Test and Connection Point	60	43	22-Jun-14 A	31-Jan-15	0%	-127		
Section 6C of the W	orks - Cooling Water Discharge System (China Resources Building)								
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Point	60	43	22-Jun-14 A	31-Jan-15	0%	-127		1
Common Works for	Sections 6A, 6B & 6C						Ĩ		
Discharge Outfall (Construction								
S6-1030	Connection of the Completed Cooling Mains to Precast Outfall Unit	0	0		07-Feb-15*	0%	0		
S6-1040	Reinstatement of Existing Seawall after Connection	30	30	08-Feb-15	09-Mar-15	0%	524		
Section 8 of the Wo	rks - Works in Area 6 (Utilities other than Watermains in Fenwick Pier St	reet)							
Sewerage Works	·	-					Ť		
S8-1030	Zone A3-5D & A3-4D	23	28	10-Jan-14 A	24-Jan-15	100%	-120		1
S8-1040	Zone A3-2C	23	23		27-Feb-15	0%	-120		
S8-1050	Zone A3-2D	23	23		26-Mar-15	0%	-120		
S8-2500	CCTV Survey	1	1	27-Mar-15	27-Mar-15	0%	-120		
S8-3000	Connection with Upstream Existing Manhole & Abandon Used Pipe	7	7		09-Apr-15	0%	-120		
Section 9 of the Wo	rks - Remaindar of the Works								
Box Culvert Const									
S9-1030	Construction of Precast Bay 1	76	12	25-Sep-14 A	31-Dec-14	84.21%	592		Construction
S9-1040A	Installation of Sheet Pile / ELS and Construction for Bay 7	180		07-Sep-14 A	31-Jan-15	0%	-166	1	
S9-1040B	Installation of Sheet Pile / ELS and Construction for Bay 2	180		11-Oct-14 A	31-Jan-15	0%	-166		
S9-1050	Construction of Bay 3 to Bay 6 incl. top slab waterproofing works	75		03-Mar-15	16-May-15	0%	-271		
Waterworks in Area									
	s (S3, S5A & S5B)								
S9-5500A	Zone X1-1 - S3 (5m)	0	0		16-Jan-15	0%	-90		
Fresh Water Mai									
S9-7040	Zone X1-1 - F3 (5m)	0	0		16-Jan-15	0%	1		
	orks - Works in Area 11 (other than Section 11)						-		
S13-3000	Completion of Backfilling to +5.0mPD	0	0		20-Dec-14	0%	70		Completion of Backfilling
	orks - Landscape Softworks in Area 9	0	0		20 200 14	078	70		
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	180	20-Dec-14	17-Jun-15	0%	59		
39A-1000	Transplanting at Expo Drive East and Convention Avenue Sunction	100	100	20-Dec-14	17-5011-15	0 /0	59		1

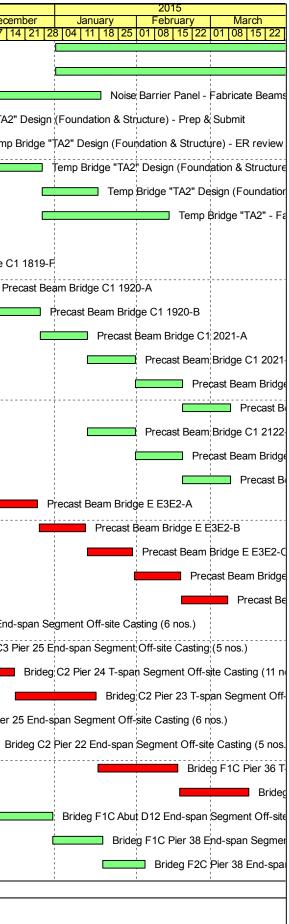
Remaining Work Summary Bar	CEDD CONTRACT NO. HK/2009/01	
Actual Work	Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	
Summary Bar Critical Remaining Work	WORKS PROGRAMME Rev.6E - 3 Month Programme starting from 20-Dec-14	
 ♦ Milestone 	WORKOPHOCHAWIWE Nev. 02 - 5 Wohar Programme starting from 20 Dec 14	



Activity ID	Activity Name		Rem	Start	Finish	Late Start	Late Finish	Total		014 Per December		2015 February Mar	reb
			Dur					Float			January 28 04 11 18 25	01 08 15 22 01 08	
3MRP - Nov	2014 to Feb 2015												
02 - PRE-CO	NSTRUCTION WORKS												
02.3 - Method S	Statement / Shop Drawings												
0230-1380	MS Landscape Deck Structure - Submission		28	08-Feb-15	07-Mar-15	28-Mar-17	25-Apr-17	780				MS	S Lands
0230-1450	MS Permanent Noise Barrier Cantilever - No Adverse	e Comment	14	19-Aug-14 A	03-Dec-14	03-Jan-15	17-Jan-15	45		MS Permane	nt Noise Barrier Ca	ntilever - No Adverse Co	omment
0230-1660	MS Approach Ramp - Submission		28	20-Nov-14	17-Dec-14	24-Aug-16	21-Sep-16	644		MS A	pproach Ramp - Si	Ibmission	
0230-1670	MS Approach Ramp - ER Review & Comment		28	18-Dec-14	14-Jan-15	21-Sep-16	19-Oct-16	644			MS App	oach Ramp - ER Review	v & Cor
0230-1680	MS Approach Ramp - Resubmission		28	15-Jan-15	11-Feb-15	19-Oct-16	16-Nov-16	644				MS Approach Ra	amp - R
0230-1690	MS Approach Ramp - ER Approval		28	12-Feb-15	11-Mar-15	16-Nov-16	14-Dec-16	644					MS App
0230-1760	MS Temporary Bridge TB - Resubmission		0	16-Oct-14 A	18-Nov-14 A	12-Dec-14	12-Dec-14			MS Temporary Bridge	TB - Resubmission		
0230-1770	MS Temporary Bridge TB - ER Approval		15	19-Dec-14 A	04-Dec-14	12-Dec-14	27-Dec-14	23					
0230-1820	MS Bridge Demolition Pier E3 to P20 - Submission		4	20-Jul-14 A	23-Nov-14	19-Nov-14	23-Nov-14	0		MS Bridge Demoliti	ion Pier E3 to P20 -	Submission	
0230-1830	MS Bridge Demolition Pier E3 to P20 - ER Review &	Comment	6	07-Aug-14 A	29-Nov-14	23-Nov-14	29-Nov-14	0		MS Bridge Dem	nolition Pier E3 to P	20 - ER Review & Comm	nent
0230-1840	MS Bridge Demolition Pier E3 to P20 - Resubmission		5	13-Aug-14 A	28-Nov-14	23-Nov-14	28-Nov-14	0		MS Bridge Dem	olition Pier E3 to P2	0 - Resubmission	
0230-1850	MS Bridge Demolition Pier E3 to P20 - No Adverse C		0	14-Sep-14 A	15-Nov-14 A	28-Nov-14	28-Nov-14			S Bridge Demolition Pi			
A5910	MS W/B Bridge Demolition & Reconstruction - Submi		20	20-Nov-14	09-Dec-14	04-Feb-15	23-Feb-15	76				Reconstruction - Submis	sion
A5920	MS W/B Bridge Demolition & Reconstruction - ER Re		12	10-Dec-14	21-Dec-14	24-Feb-15		76				lition & Reconstruction - E	
A5930	MS W/B Bridge Demolition & Reconstruction - Resub		6	22-Dec-14	27-Dec-14		13-Mar-15	76				emolition & Reconstruction	
A5940	MS W/B Bridge Demolition & Reconstruction - ER No		18	28-Dec-14	14-Jan-15		31-Mar-15	76				Bridge Demolition & Rec	
A5960	MS ADB Ground Beam & Pile Cap - ER Review & Co		0	14-Oct-14 A	01-Nov-14 A	23-Dec-14		10	MSADR	Ground Beam & Pile C			201130100
A5900 A5970	MS ADB Ground Beam & Pile Cap - ER Review & Ca		6	20-Nov-14	25-Nov-14	23-Dec-14 28-Feb-15		101		MS ADB Ground			
		Commont					24-Mar-15	101					
A5980	MS ADB Ground Beam & Pile Cap - ER No Adverse	Comment	18	26-Nov-14	13-Dec-14							Pile Cap - ER No Adverse	e Comn
A7560	MS Temporary Bridge TA2 - Submission		10	20-Nov-14	29-Nov-14		11-Dec-14	12	-		Bridge TA2 - Subm		
A7570	MS Temporary Bridge TA2 - ER Review & Comment		12	30-Nov-14	11-Dec-14		23-Dec-14	12				ER Review & Comment	1
A7580	MS Temporary Bridge TA2 - Resubmission		6	12-Dec-14	17-Dec-14			12		MS T	emporary Bridge T		
A7590	MS Temporary Bridge TA2 - ER No Adverse Comme	nt	18	18-Dec-14	04-Jan-15	29-Dec-14	16-Jan-15	12			MS Temporar	y Bridge TA2 - ER No Ad	verse (
02.4 - Contract	tor's Design and Build Items												
0240-1070	Temp Bridge "TB" Design - Resubmission		0	16-Oct-14 A	30-Oct-14 A		26-Dec-14			le "T₿" Design - Resul 			
0240-1080	Temp Bridge "TB" Design - ER Approval		0	31-Oct-14 A	15-Nov-14 A	26-Dec-14	26-Dec-14			emp Bridge "TB" Desig	n - ER Approval		
0240-1085	Temp Bridge "TB" Tower Fabrication Fabrication		1	01-Nov-14 A	20-Nov-14	26-Dec-14	27-Dec-14	37		Temp Bridge "TB" To	ower Fabrication Fa	brication	
0240-1111	Noise Enclosure Structural Design - No Adverse Con	ment	11	03-Aug-14 A	30-Nov-14	04-Jun-16	15-Jun-16	563	· · · · · · · · · · · · · · · · · · ·	Noise Enclosur	e Structural Design	- No Adverse Comment	
0240-1137	Noise Barrier Panel - Design No Adverse Comment		21	13-Aug-14 A	10-Dec-14	18-Dec-14	08-Jan-15	29		Noise Ba	rrier Panel - Desigr	No Adverse Comment	
0240-1141	Noise Barrier Panel - Fabricate Type C Column (77 r	os.)	36	20-Nov-14	25-Dec-14	18-Dec-14	23-Jan-15	29			Noise Barrier Panel	- Fabricate Type C Colur	mn (77
0240-1142	Noise Barrier Panel - Fabricate Type B Column (25 n	os.)	24	02-Dec-14	25-Dec-14	13-Jan-15	06-Feb-15	43			Noise Barrier Panel	- Fabricate Type B Colur	mn (25
0240-1143	Noise Barrier Panel - Fabricate Type A Column (38 n	DS.)	30	14-Dec-14	12-Jan-15	25-Jan-15	24-Feb-15	43			Noise Ba	rrier Panel - Fabricate Ty	pe A Co
Remaining	Level of Effort Milestone			Contract	HY/2009/19								
Actual Leve	el of Effort	Three Marth				014 +- 44	D Eak 20	15			Page 1 of 14	ł	
Actual Wor		Three Month	S KOII	ing Program	$\frac{1}{20} \times \frac{2}{100} \times \frac{2}{2}$	U14 to 1	9 red 20	(כוי					
•	maining Work												

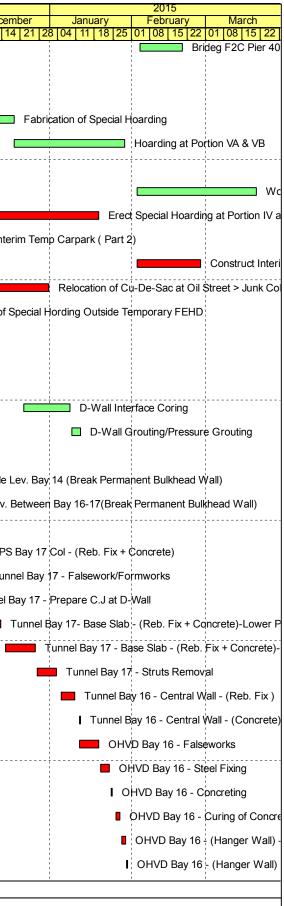
y ID	Activity Name		Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	ber	Novem	2014	Dec
			Dur							02 09 1		
0240-1170	HGHK Permanent Carpark Design - Prep & Submit		90	01-Jan-15*	31-Mar-15	20-Dec-15	19-Mar-16	354		1		
0240-1270	Landscaping Design - Submission		90	01-Jan-15*	31-Mar-15	04-May-17	01-Aug-17	854		1		
0240-1429	Noise Barrier Panel - Fabricate Beams (203 nos.)		48	02-Dec-14	18-Jan-15	30-Dec-14	16-Feb-15	29		1		
A5860	Temp Bridge "TA2" Design (Foundation & Structure) -	Prep & Submit	0	15-Jan-14 A	10-Nov-14 A	18-Jan-15	18-Jan-15			Te	mp Bric	dge "TA
A5870	Temp Bridge "TA2" Design (Foundation & Structure) -	ER review and comment	13	11-Nov-14 A	02-Dec-14	18-Jan-15	30-Jan-15	59			 	Tem
A5880	Temp Bridge "TA2" Design (Foundation & Structure) -	Resubmission	25	02-Dec-14	27-Dec-14	30-Jan-15	24-Feb-15	59			;	
A5890	Temp Bridge "TA2" Design (Foundation & Structure) -	ER No Adverse Comment	21	27-Dec-14	17-Jan-15	24-Feb-15	17-Mar-15	59		1		
A5900	Temp Bridge "TA2" - Fabrication		48	27-Dec-14	13-Feb-15	24-Feb-15	13-Apr-15	59		1		
)2.5 - Bridge Se	gment/Beam Off-site Precasting											
0250-1720.14	Precast Beam Bridge C1 1819-F		0	05-Oct-14 A	02-Nov-14 A	06-Feb-15	06-Feb-15			Precast	Beam	Bridge
0250-1720.15	Precast Beam Bridge C1 1920-A		19	20-Nov-14	08-Dec-14	06-Feb-15	24-Feb-15	78				P
0250-1720.16	Precast Beam Bridge C1 1920-B		18	08-Dec-14	26-Dec-14	24-Feb-15	14-Mar-15	78		1	1	
0250-1720.17	Precast Beam Bridge C1 2021-A		18	26-Dec-14	13-Jan-15	14-Mar-15	01-Apr-15	78		1		
0250-1720.18	Precast Beam Bridge C1 2021-B		18	13-Jan-15	31-Jan-15	01-Apr-15	19-Apr-15	78				
0250-1720.19	Precast Beam Bridge C1 2021-C		18	31-Jan-15	18-Feb-15	19-Apr-15	07-May-15	78				
0250-1720.20	Precast Beam Bridge C1 2122-A		18	18-Feb-15	08-Mar-15	07-May-15	25-May-15	78			••••••	
0250-1720.22	Precast Beam Bridge C1 2122-C		18	13-Jan-15	31-Jan-15	01-Apr-15	19-Apr-15	78		1		
0250-1720.23	Precast Beam Bridge C1 2122-D		18	31-Jan-15	18-Feb-15	19-Apr-15	07-May-15	78		1		
0250-1720.25	Precast Beam Bridge C1 2122-E		18	18-Feb-15	08-Mar-15	07-May-15	25-May-15	78		1		
0250-1720.27	Precast Beam Bridge E E3E2-A		18	08-Dec-14*	25-Dec-14	08-Dec-14	25-Dec-14	0	,	1		
0250-1720.28	Precast Beam Bridge E E3E2-B		18	26-Dec-14	12-Jan-15	29-Dec-14	15-Jan-15	3				
0250-1720.29	Precast Beam Bridge E E3E2-C		18	13-Jan-15	30-Jan-15	16-Jan-15	02-Feb-15	3				
0250-1720.30	Precast Beam Bridge E E4E3-A		18	31-Jan-15	17-Feb-15	03-Feb-15	20-Feb-15	3				
0250-1720.31	Precast Beam Bridge E E4E3-B		18	18-Feb-15	07-Mar-15	21-Feb-15	10-Mar-15	3				
0250-2010	Brideg C3 Pier 28 End-span Segment Off-site Casting	(6 nos.)	0	22-Oct-14 A	04-Nov-14 A	13-Dec-14	13-Dec-14			🗖 Brideç	JC3 Pie	er 28 Er
0250-2020	Brideg C3 Pier 25 End-span Segment Off-site Casting	(5 nos.)	3	12-Oct-14 A	23-Nov-14	13-Dec-14	16-Dec-14	24			Bi	rideg C3
0250-2030	Brideg C2 Pier 24 T-span Segment Off-site Casting (11	nos.)	27	20-Nov-14	16-Dec-14	19-Nov-14	16-Dec-14	0		1		
0250-2040	Brideg C2 Pier 23 T-span Segment Off-site Casting (13	3 nos.)	31	17-Dec-14	16-Jan-15	16-Dec-14	16-Jan-15	0		1		
0250-2050	Brideg C2 Pier 25 End-span Segment Off-site Casting	(6 nos.)	0	02-Nov-14 A	16-Nov-14 A	16-Dec-14	16-Dec-14				Bridec	C2 Pie
0250-2060	Brideg C2 Pier 22 End-span Segment Off-site Casting	· · · · ·	16	23-Nov-14	09-Dec-14	31-Dec-14	16-Jan-15	39		1		
0250-2070	Brideg F1C Pier 36 T-span Segment Off-site Casting (31	17-Jan-15	16-Feb-15	16-Jan-15	16-Feb-15	0				
0250-2080	Brideg F1C Pier 37 T-span Segment Off-site Casting (27	17-Feb-15	15-Mar-15	16-Feb-15	15-Mar-15	0				
0250-2090	Brideg F1C Abut D12 End-span Segment Off-site Cast		22	09-Dec-14	31-Dec-14	25-Jan-15	16-Feb-15	48				
0250-2100	Brideg F1C Pier 38 End-span Segment Off-site Casting		19	31-Dec-14	19-Jan-15	19-Feb-15	10-Mar-15	51		1		
0250-2120	Brideg F2C Pier 38 End-span Segment Off-site Casting		16	19-Jan-15	04-Feb-15	10-Mar-15		51		1		
		<u> </u>										
Remaining L Actual Level Actual Work Remaining V	< Comparison of the second sec	Three Month	s Ro	Contract Iling Program	HY/2009/19 me (20 Nov 2	014 to 1	9 Feb 20)15)				

Critical Remaining Work



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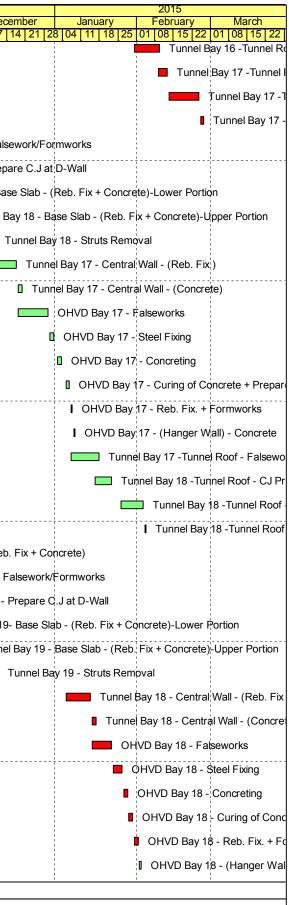
ctivity ID	Activity Name		Rem	Start	Finish	Late Start	Late Finish	Total			2014
			Dur					Float	ober 2 19 26	Novem	ber Decer 6 23 30 07 1
0250-2130	Brideg F2C Pier 40 End-span Segment Off-site Cas	ting (5 nos.)	16	04-Feb-15	20-Feb-15	26-Mar-15	11-Apr-15	51			
03 - PRELIM										- - - -	
03.1 - Site Est	ablishment									- - - -	
0310-1700	Fabrication of Special Hoarding		25	24-Oct-14 A	18-Dec-14	07-Jan-15	05-Feb-15	40			i i
A6410	Hoarding at Portion VA & VB		34	02-Jul-12 A	29-Jan-15	14-Mar-15	25-Apr-15	68			4
03.3 - Interfac	e Works									/	
0330-1100	Works at FEHD Permanent Depot (Stage 1)		36	03-Feb-15	20-Mar-15	06-Mar-15	20-Apr-15	24		/ 	
0330-1350	Erect Special Hoarding at Portion IV and V		50	20-Nov-14*	19-Jan-15	20-Nov-14	19-Jan-15	0			
A7600	Agreement of HGHK Interim Temp Carpark (Part 2)	0	13-Mar-14 A	31-Oct-14 A	03-Feb-15	03-Feb-15			Agreeme	ent of HGHK Inte
A7610	Construct Interim Temp Carpark for HGHK (Part 2)		18	03-Feb-15	27-Feb-15*	03-Feb-15	26-Feb-15	0			
A7630	Relocation of Cu-De-Sac at Oil Street > Junk Collect	tor	35	20-Nov-14*	31-Dec-14	20-Nov-14	31-Dec-14	0			
A7640	Modification of Special Hording Outside Temporary F	FEHD	0	10-Nov-14 A	17-Nov-14 A	16-Jul-20	16-Jul-20				Modification of
05 - SECTIO	N 2 & 2A OF THE WORKS									1	
05.1 - Cut & C	over Tunnel Ch 4855-4932 (APS Footprint)									1	
05.1.1 - D-Wall	Construction									1	
A5990	D-Wall Interface Coring		14	22-Dec-14*	08-Jan-15	04-Feb-15	23-Feb-15	36			
A6000	D-Wall Grouting/Pressure Grouting		3	09-Jan-15	12-Jan-15	24-Feb-15	26-Feb-15	36		J 	
05.1.2 - ELS					J					/ 	
0512-1275	Middle Lev. Bay 14 (Break Permanent Bulkhead Wa	ll)	8	23-Nov-14	30-Nov-14	01-Dec-14	08-Dec-14	8		/ 	Middle
0512-1290	Middle Lev. Between Bay 16-17(Break Permanent E	Bulkhead Wall)	3	03-Nov-14 A	22-Nov-14	22-Nov-14	24-Nov-14	2			Middle Lev.
05.1.3 - APS &	Tunnel Structure										
0513-1316	APS Bay 17 Col - (Reb. Fix + Concrete)		12	24-Nov-14	06-Dec-14	25-Nov-14	08-Dec-14	1			APS
0513-1318	Tunnel Bay 17 - Falsework/Formworks		12	24-Nov-14	06-Dec-14	25-Nov-14	08-Dec-14	1			Tun
0513-1319	Tunnel Bay 17 - Prepare C.J at D-Wall		6	24-Nov-14	29-Nov-14	02-Dec-14	08-Dec-14	7			🔲 Tunnel I
0513-1400	Tunnel Bay 17- Base Slab - (Reb. Fix + Concrete)-L	ower Portion	7	07-Dec-14	13-Dec-14	09-Dec-14	15-Dec-14	2			
0513-1410	Tunnel Bay 17 - Base Slab - (Reb. Fix + Concrete)-	Upper Portion	10	15-Dec-14	26-Dec-14	16-Dec-14	27-Dec-14	1			E CONTRACTOR
0513-1420	Tunnel Bay 17 - Struts Removal		6	27-Dec-14	03-Jan-15	29-Dec-14	05-Jan-15	1		1	
0513-1430	Tunnel Bay 16 - Central Wall - (Reb. Fix)		6	05-Jan-15	10-Jan-15	06-Jan-15	12-Jan-15	1		- - - -	
0513-1440	Tunnel Bay 16 - Central Wall - (Concrete)		1	12-Jan-15	12-Jan-15	13-Jan-15	13-Jan-15	1		- - - -	
0513-1450	OHVD Bay 16 - Falseworks		7	12-Jan-15	19-Jan-15	13-Jan-15	20-Jan-15	1		1	
0513-1460	OHVD Bay 16 - Steel Fixing		4	20-Jan-15	23-Jan-15	21-Jan-15	24-Jan-15	1		, 	
0513-1470	OHVD Bay 16 - Concreting		1	24-Jan-15	24-Jan-15	25-Jan-15	25-Jan-15	1		 	
0513-1480	OHVD Bay 16 - Curing of Concrete + Prepare CJ		2	26-Jan-15	27-Jan-15	26-Jan-15	27-Jan-15	0		J 1 1 1	
0513-1490	OHVD Bay 16 - (Hanger Wall) - Reb. Fix. + Formwo	orks	2	28-Jan-15	29-Jan-15	28-Jan-15	29-Jan-15	0		/ 	
0513-1500	OHVD Bay 16 - (Hanger Wall) - Concrete		1	30-Jan-15	30-Jan-15	30-Jan-15	30-Jan-15	0			
										1	
Remaining	g Level of Effort Milestone			Contract	HY/2009/19						
	vel of Effort		_								
Actual Wo		Three Months	s Ro	lling Program	me (20 Nov 2	014 to 19	9 Feb 20	915)			
-	emaining Work										



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ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	ber Novemb		
0513-1510	Tunnel Bay 16 -Tunnel Roof - Falseworks	10	31-Jan-15	09-Feb-15	31-Jan-15	09-Feb-15	0	2 <mark> 19 26 02 09 1</mark> 6	23	30 07
0513-1520	Tunnel Bay 17 -Tunnel Roof - CJ Preparation	4	09-Feb-15	12-Feb-15	09-Feb-15	12-Feb-15	0			
0513-1530	Tunnel Bay 17 -Tunnel Roof - Steel Fixing	7	13-Feb-15	24-Feb-15	13-Feb-15	24-Feb-15	0			
0513-1540	Tunnel Bay 17 -Tunnel Roof - (Concrete)	2	25-Feb-15	26-Feb-15	25-Feb-15	26-Feb-15	0			
0513-1590	Tunnel Bay 18 - Falsework/Formworks	0	21-Oct-14 A	05-Nov-14 A	09-Dec-14	09-Dec-14		Tunnel	Bay	18 - False
0513-1600	Tunnel Bay 18 - Prepare C.J at D-Wall	0	01-Nov-14 A	03-Nov-14 A	09-Dec-14	09-Dec-14		Tunnel	Bay 1	8 - Prep
0513-1610	Tunnel Bay 18- Base Slab - (Reb. Fix + Concrete)-Lower Portion	0	03-Nov-14 A	08-Nov-14 A	09-Dec-14	09-Dec-14		🗖 Tunn	el Bay	/ 18- Bas
0513-1620	Tunnel Bay 18 - Base Slab - (Reb. Fix + Concrete)-Upper Portion	5	10-Nov-14 A	25-Nov-14	09-Dec-14	13-Dec-14	16			Tunnel B
0513-1630	Tunnel Bay 18 - Struts Removal	12	26-Nov-14	09-Dec-14	15-Dec-14	29-Dec-14	16			т
0513-1640	Tunnel Bay 17 - Central Wall - (Reb. Fix)	7	10-Dec-14	17-Dec-14	30-Dec-14	07-Jan-15	16			
0513-1650	Tunnel Bay 17 - Central Wall - (Concrete)	2	18-Dec-14	19-Dec-14	08-Jan-15	09-Jan-15	16			
0513-1660	OHVD Bay 17 - Falseworks	9	18-Dec-14	29-Dec-14	08-Jan-15	17-Jan-15	16			
0513-1670	OHVD Bay 17 - Steel Fixing	2	30-Dec-14	31-Dec-14	19-Jan-15	20-Jan-15	20			
0513-1680	OHVD Bay 17 - Concreting	2	02-Jan-15	03-Jan-15	21-Jan-15	22-Jan-15	16			
A3370	OHVD Bay 17 - Curing of Concrete + Prepare CJ	2	05-Jan-15	06-Jan-15	23-Jan-15	24-Jan-15	16			
A3380	OHVD Bay 17 - Reb. Fix. + Formworks	1	07-Jan-15	07-Jan-15	26-Jan-15	26-Jan-15	16			
A3390	OHVD Bay 17 - (Hanger Wall) - Concrete	1	08-Jan-15	08-Jan-15	05-Feb-15	05-Feb-15	24			
A3400	Tunnel Bay 17 -Tunnel Roof - Falseworks	10	07-Jan-15	17-Jan-15	26-Jan-15	05-Feb-15	16			
A3410	Tunnel Bay 18 -Tunnel Roof - CJ Preparation	6	16-Jan-15	22-Jan-15	04-Feb-15	10-Feb-15	16			
A3420	Tunnel Bay 18 -Tunnel Roof - Steel Fixing	8	26-Jan-15	03-Feb-15	13-Feb-15	25-Feb-15	16			
A3430	Tunnel Bay 18 -Tunnel Roof - (Concrete)	1	04-Feb-15	04-Feb-15	26-Feb-15	26-Feb-15	16			
A3440	APS Bay 19 Col - (Reb. Fix + Concrete)	0	22-Oct-14 A	01-Nov-14 A	21-Nov-14	21-Nov-14		APS Bay	19 Co	ol - (Reb
A3460	Tunnel Bay 19 - Falsework/Formworks	0	03-Nov-14 A	10-Nov-14 A	08-Dec-14	08-Dec-14		Tun	nel Ba	ay 19 - F
A3470	Tunnel Bay 19 - Prepare C.J at D-Wall	0	06-Nov-14 A	12-Nov-14 A	08-Dec-14	08-Dec-14		Tur	nnel E	ay 19 -
A3480	Tunnel Bay 19- Base Slab - (Reb. Fix + Concrete)-Lower Portion	0	11-Nov-14 A	16-Nov-14 A	08-Dec-14	08-Dec-14			Funne	Bay 19
A3490	Tunnel Bay 19 - Base Slab - (Reb. Fix + Concrete)-Upper Portion	10	18-Nov-14 A	29-Nov-14	08-Dec-14	17-Dec-14	18			Tunne
A3500	Tunnel Bay 19 - Struts Removal	9	01-Dec-14	10-Dec-14	18-Dec-14	29-Dec-14	15			
A3510	Tunnel Bay 18 - Central Wall - (Reb. Fix)	10	05-Jan-15	14-Jan-15	10-Jan-15	19-Jan-15	5			
A3520	Tunnel Bay 18 - Central Wall - (Concrete)	2	15-Jan-15	16-Jan-15	20-Jan-15	21-Jan-15	4			
A3530	OHVD Bay 18 - Falseworks	8	15-Jan-15	22-Jan-15	20-Jan-15	27-Jan-15	5			
A3540	OHVD Bay 18 - Steel Fixing	4	23-Jan-15	26-Jan-15	28-Jan-15	31-Jan-15	5			
A3550	OHVD Bay 18 - Concreting	2	27-Jan-15	28-Jan-15	01-Feb-15	02-Feb-15	5			
A3560	OHVD Bay 18 - Curing of Concrete + Prepare CJ	2	29-Jan-15	30-Jan-15	03-Feb-15	04-Feb-15	5			
A3570	OHVD Bay 18 - Reb. Fix. + Formworks	2	31-Jan-15	01-Feb-15	05-Feb-15	06-Feb-15	5			
A3580	OHVD Bay 18 - (Hanger Wall) - Concrete	1	02-Feb-15	02-Feb-15	14-Feb-15	14-Feb-15	11			1 1 1 1
Bomoining	Lovel of Effort		Contract							
e e	Level of Effort Milestone of Effort		Contract	HY/2009/19						

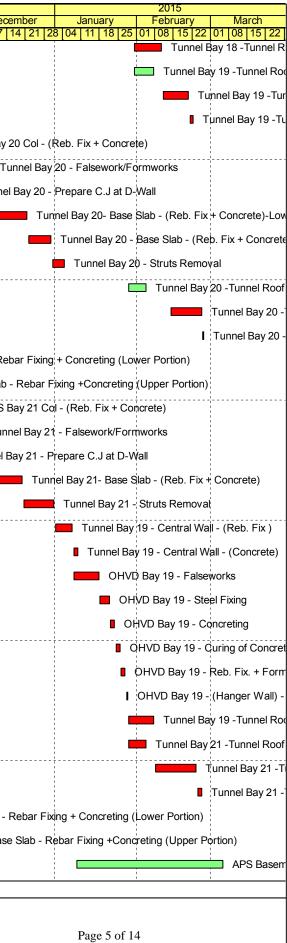
Critical Remaining Work



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ty ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	ber Nove	
A3590	Tunnel Bay 18 -Tunnel Roof - Falseworks	9	31-Jan-15	10-Feb-15	05-Feb-15	14-Feb-15	4	26 02 09	16 23 30 07 1
A3600	Tunnel Bay 19 -Tunnel Roof - CJ Preparation	7	31-Jan-15	07-Feb-15		16-Feb-15	7		
A3610	Tunnel Bay 19 -Tunnel Roof - Steel Fixing	10	11-Feb-15	20-Feb-15		24-Feb-15	4		
A3620	Tunnel Bay 19 -Tunnel Roof - (Concrete)	2	21-Feb-15	22-Feb-15	25-Feb-15	26-Feb-15	4		
A3630	APS Bay 20 Col - (Reb. Fix + Concrete)	5	12-Nov-14 A	24-Nov-14		25-Nov-14	1		APS Bay 20
A3650	Tunnel Bay 20 - Falsework/Formworks	13	25-Nov-14	07-Dec-14	26-Nov-14	08-Dec-14	1		Tur
A3660	Tunnel Bay 20 - Prepare C.J at D-Wall	5	25-Nov-14	29-Nov-14	03-Dec-14	08-Dec-14	7		🔲 Tunnel E
A3670	Tunnel Bay 20- Base Slab - (Reb. Fix + Concrete)-Lower Portion	14	08-Dec-14	21-Dec-14	09-Dec-14	22-Dec-14	1		
A3680	Tunnel Bay 20 - Base Slab - (Reb. Fix + Concrete)-Upper Portion	7	22-Dec-14	30-Dec-14	23-Dec-14	31-Dec-14	1		
A3690	Tunnel Bay 20 - Struts Removal	5	31-Dec-14	04-Jan-15	01-Jan-15	05-Jan-15	1		
A3790	Tunnel Bay 20 -Tunnel Roof - CJ Preparation	7	29-Jan-15	04-Feb-15	08-Feb-15	14-Feb-15	10		
A3800	Tunnel Bay 20 -Tunnel Roof - Steel Fixing	7	14-Feb-15	25-Feb-15	14-Feb-15	25-Feb-15	0		
A3810	Tunnel Bay 20 -Tunnel Roof - (Concrete)	1	26-Feb-15	26-Feb-15	26-Feb-15	26-Feb-15	0		
A3811	APS Bay 21 Base Slab - Rebar Fixing + Concreting (Lower Portion)	0	16-Oct-14 A	24-Oct-14 A	16-Jul-20	16-Jul-20		APS Bay 2	1 Base Slab - Reba
A3812	APS Bay 21 Base Slab - Rebar Fixing +Concreting (Upper Portion)	0	27-Oct-14 A	01-Nov-14 A	16-Jul-20	16-Jul-20		🗖 APS B	ay 21 Base Slab -
A3813	APS Bay 21 Col - (Reb. Fix + Concrete)	12	20-Nov-14	01-Dec-14	19-Nov-14	01-Dec-14	0		APS Ba
A3840	Tunnel Bay 21 - Falsework/Formworks	10	22-Nov-14	03-Dec-14	21-Nov-14	03-Dec-14	0		Tunne
A3850	Tunnel Bay 21 - Prepare C.J at D-Wall	4	22-Nov-14	26-Nov-14	28-Nov-14	03-Dec-14	6		🔲 Tunnel Ba
A3860	Tunnel Bay 21- Base Slab - (Reb. Fix + Concrete)	14	04-Dec-14	19-Dec-14	03-Dec-14	19-Dec-14	0		
A3880	Tunnel Bay 21 - Struts Removal	12	20-Dec-14	31-Dec-14	20-Dec-14	31-Dec-14	0		
A3890	Tunnel Bay 19 - Central Wall - (Reb. Fix)	7	01-Jan-15	07-Jan-15	01-Jan-15	07-Jan-15	0		
A3900	Tunnel Bay 19 - Central Wall - (Concrete)	2	08-Jan-15	09-Jan-15	08-Jan-15	09-Jan-15	0		
A3910	OHVD Bay 19 - Falseworks	10	08-Jan-15	17-Jan-15	08-Jan-15	17-Jan-15	0		
A3920	OHVD Bay 19 - Steel Fixing	4	18-Jan-15	21-Jan-15	18-Jan-15	21-Jan-15	0		
A3930	OHVD Bay 19 - Concreting	2	22-Jan-15	23-Jan-15	22-Jan-15	23-Jan-15	0		
A3940	OHVD Bay 19 - Curing of Concrete + Prepare CJ	2	24-Jan-15	25-Jan-15	24-Jan-15	25-Jan-15	0		
A3950	OHVD Bay 19 - Reb. Fix. + Formworks	2	26-Jan-15	27-Jan-15	26-Jan-15	27-Jan-15	0		
A3960	OHVD Bay 19 - (Hanger Wall) - Concrete	1	28-Jan-15	28-Jan-15	28-Jan-15	28-Jan-15	0		
A3970	Tunnel Bay 19 -Tunnel Roof - Falseworks	10	29-Jan-15	07-Feb-15	29-Jan-15	07-Feb-15	0		
A3980	Tunnel Bay 21 -Tunnel Roof - CJ Preparation	7	29-Jan-15	04-Feb-15	02-Feb-15	08-Feb-15	4		
A3990	Tunnel Bay 21 -Tunnel Roof - Steel Fixing	16	08-Feb-15	23-Feb-15	09-Feb-15	24-Feb-15	1		
A4000	Tunnel Bay 21 -Tunnel Roof - (Concrete)	2	24-Feb-15	25-Feb-15	25-Feb-15	26-Feb-15	1		
A4001	APS Bay 22 Base Slab - Rebar Fixing + Concreting (Lower Portion)	0	16-Oct-14 A	29-Oct-14 A	05-Feb-15	05-Feb-15		APS Bay	/ 22 Base Slab - R
A4002	APS Bay 22 Base Slab - Rebar Fixing +Concreting (Upper Portion)	0	30-Oct-14 A	12-Nov-14 A	05-Feb-15	05-Feb-15	-		APS Bay 22 Base
A5414	APS Basement (Zone A) - Partition Wall (Reb. Fix + Concreting)	45	09-Jan-15	05-Mar-15	05-Feb-15	02-Apr-15	24		

Actual Level of Effort Three Months Rolling Programme (20 Nov 2014 to 19 Feb 2015) Actual Work Remaining Work Critical Remaining Work



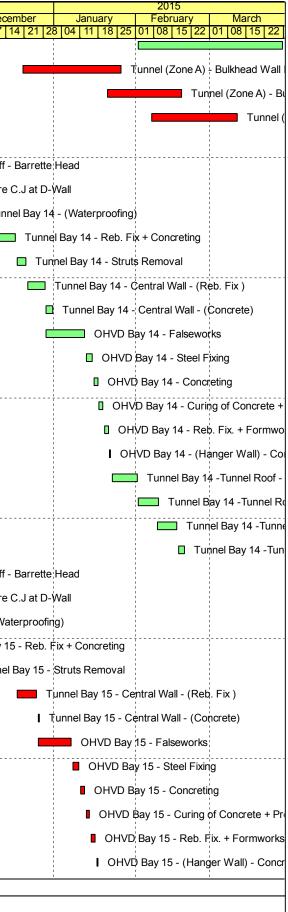
	Rem	Start	Finish	Late Start	Late Finish	Total	bber	Novem	2014 bor	Door
	Dur					Float		6 02 09 1		Dece 30 07
one B) - Partition Wall (Reb. Fix + Concreting)	45	02-Feb-15	28-Mar-15	04-Mar-15	29-Apr-15	24				
Bulkhead Wall Removal (Hole Drilling into Bulkhead Wall)	30	20-Dec-14	26-Jan-15	19-Dec-14	26-Jan-15	0				
Bulkhead Wall Removal (Saw Cutting)-Eastbound	25	21-Jan-15	18-Feb-15	20-Jan-15	18-Feb-15	0				
Bulkhead Wall Removal (Saw Cutting)-westbound	25	07-Feb-15	11-Mar-15	06-Feb-15	11-Mar-15	0				
										1 1 1
m Off - Barrette Head	0	19-Oct-14 A	29-Oct-14 A	16-Jul-20	16-Jul-20			Tunnel Ba	y 14 - T	rim Off -
repare C.J at D-Wall	0	19-Oct-14 A	29-Oct-14 A	16-Jul-20	16-Jul-20			Tunnel Ba	y 14 -	Prepare
Vaterproofing)	3	01-Dec-14	03-Dec-14	09-Dec-14	11-Dec-14	8				🗖 Tunr
eb. Fix + Concreting	14	04-Dec-14	17-Dec-14	12-Dec-14	25-Dec-14	8				
ruts Removal	4	18-Dec-14	21-Dec-14	26-Dec-14	29-Dec-14	8				
entral Wall - (Reb. Fix)	7	22-Dec-14	28-Dec-14	30-Dec-14	05-Jan-15	8		 		;
entral Wall - (Concrete)	3	29-Dec-14	31-Dec-14	06-Jan-15	08-Jan-15	8				1
alseworks	12	29-Dec-14	12-Jan-15	06-Jan-15	19-Jan-15	6				1
eel Fixing	3	13-Jan-15	15-Jan-15	20-Jan-15	22-Jan-15	7				
oncreting	2	16-Jan-15	17-Jan-15	23-Jan-15	24-Jan-15	7				
uring of Concrete + Prepare CJ	2	18-Jan-15	19-Jan-15	25-Jan-15	26-Jan-15	7				
eb. Fix. + Formworks	2	20-Jan-15	21-Jan-15	27-Jan-15	28-Jan-15	6				
langer Wall) - Concrete	1	22-Jan-15	22-Jan-15	30-Jan-15	30-Jan-15	8				
nnel Roof - Falseworks	10	23-Jan-15	01-Feb-15	30-Jan-15	08-Feb-15	7				
nnel Roof - CJ Preparation	8	02-Feb-15	09-Feb-15	09-Feb-15	16-Feb-15	7				
nnel Roof - Steel Fixing	8	09-Feb-15	16-Feb-15	16-Feb-15	23-Feb-15	7				 !
nnel Roof - (Concrete)	3	17-Feb-15	19-Feb-15	24-Feb-15	26-Feb-15	7				
m Off - Barrette Head	0	21-Oct-14 A	29-Oct-14 A	28-Nov-14	28-Nov-14			Tunnel Ba	y 15 -T	rim Off -
epare C.J at D-Wall	0	20-Oct-14 A	29-Oct-14 A	28-Nov-14	28-Nov-14			Tunnel Ba	y 15 -	Prepare
Vaterproofing)	0	03-Nov-14 A	06-Nov-14 A	28-Nov-14	28-Nov-14			Tunn	l Bay	15 - (Wa
eb. Fix + Concreting	0	15-Nov-14 A	19-Nov-14 A	28-Nov-14	28-Nov-14				Tunn	nel Bay 1
ruts Removal	10	20-Nov-14	29-Nov-14	28-Nov-14	08-Dec-14	9				Tunnel
entral Wall - (Reb. Fix)	8	18-Dec-14	25-Dec-14	20-Dec-14	28-Dec-14	3				1
entral Wall - (Concrete)	1	26-Dec-14	26-Dec-14	28-Dec-14	29-Dec-14	3				
alseworks	13	26-Dec-14	07-Jan-15	28-Dec-14	10-Jan-15	3				1
eel Fixing	3	08-Jan-15	10-Jan-15	10-Jan-15	13-Jan-15	3				}
oncreting	2	11-Jan-15	12-Jan-15	13-Jan-15	15-Jan-15	3				
uring of Concrete + Prepare CJ	2	13-Jan-15	14-Jan-15	15-Jan-15	17-Jan-15	3				
eb. Fix. + Formworks	2	15-Jan-15	16-Jan-15	17-Jan-15	19-Jan-15	3				
langer Wall) - Concrete	1	17-Jan-15	17-Jan-15	20-Jan-15	21-Jan-15	4				1
uring of eb. Fix. langer \	Concrete + Prepare CJ + Formworks	Concrete + Prepare CJ 2 + Formworks 2 Wall) - Concrete 1	Concrete + Prepare CJ 2 13-Jan-15 + Formworks 2 15-Jan-15 Wall) - Concrete 1 17-Jan-15	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 + Formworks 2 15-Jan-15 16-Jan-15 Wall) - Concrete 1 17-Jan-15 17-Jan-15	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 Wall) - Concrete 1 17-Jan-15 17-Jan-15 20-Jan-15	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 17-Jan-15 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 19-Jan-15 Wall) - Concrete 1 17-Jan-15 17-Jan-15 20-Jan-15 21-Jan-15	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 17-Jan-15 3 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 19-Jan-15 3 Wall) - Concrete 1 17-Jan-15 17-Jan-15 20-Jan-15 21-Jan-15 4	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 17-Jan-15 3 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 3 Wall) - Concrete 1 17-Jan-15 17-Jan-15 2 13-Jan-15 16-Jan-15 17-Jan-15 3	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 17-Jan-15 3 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 3 Wall) - Concrete 1 17-Jan-15 17-Jan-15 20-Jan-15 4	Concrete + Prepare CJ 2 13-Jan-15 14-Jan-15 15-Jan-15 17-Jan-15 3 + Formworks 2 15-Jan-15 16-Jan-15 17-Jan-15 3 Wall) - Concrete 1 17-Jan-15 17-Jan-15 21-Jan-15 4

 Remaining Level of Effort Milestone
 Milestone

 Actual Level of Effort
 Contract HY/2009/19

 Actual Work
 Three Months Rolling Programme (20 Nov 2014 to 19 Feb 2015)

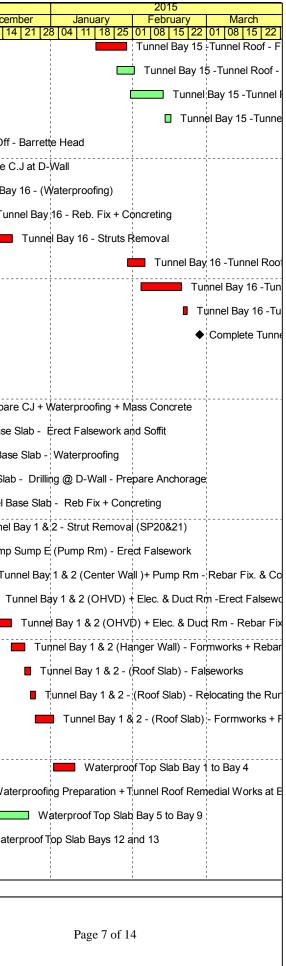
 Remaining Work
 Critical Remaining Work



Page 6 of 14

Ac	tivity ID	Activity Name		Rem	Start	Finish	Late Start	Late Finish	Total		2014
				Dur					Float	ber Novem	ber Decer 6 23 30 07 1
	A5213	Tunnel Bay 15 - Tunnel Roof - Falseworks		12	18-Jan-15	29-Jan-15	20-Jan-15	01-Feb-15	3		
	A5223	Tunnel Bay 15 - Tunnel Roof - CJ Preparation		7	26-Jan-15	01-Feb-15	06-Feb-15	12-Feb-15	11		
	A5233	Tunnel Bay 15 - Tunnel Roof - Steel Fixing		13	31-Jan-15	12-Feb-15	11-Feb-15	23-Feb-15	11		
	A5234	Tunnel Bay 15 - Tunnel Roof - (Concrete)		3	13-Feb-15	15-Feb-15	24-Feb-15	26-Feb-15	11		
	A5243	Tunnel Bay 16 - Trim Off - Barrette Head		0	29-Oct-14 A	01-Nov-14 A	16-Jul-20	16-Jul-20		Tunnel I	ay 16 - Trim Off
	A5253	Tunnel Bay 16 - Prepare C.J at D-Wall		0	21-Oct-14 A	29-Oct-14 A	16-Jul-20	16-Jul-20		Tunnel Ba	ay 16 - Prepare C
	A5263	Tunnel Bay 16 - (Waterproofing)		3	23-Nov-14	25-Nov-14	25-Nov-14	28-Nov-14	3		Tunnel Bay
	A5273	Tunnel Bay 16 - Reb. Fix + Concreting		12	26-Nov-14	07-Dec-14	28-Nov-14	10-Dec-14	3		Tun
	A5283	Tunnel Bay 16 - Struts Removal		10	08-Dec-14	17-Dec-14	10-Dec-14	20-Dec-14	3		
	A5383	Tunnel Bay 16 - Tunnel Roof - CJ Preparation		7	30-Jan-15	05-Feb-15	01-Feb-15	08-Feb-15	3		
	A5393	Tunnel Bay 16 -Tunnel Roof - Steel Fixing + Concret	iing	16	04-Feb-15	19-Feb-15	06-Feb-15	22-Feb-15	3	· · · · · · · · · · · · · · · · · · ·	
	A5394	Tunnel Bay 16 -Tunnel Roof - (Concrete)		2	20-Feb-15	21-Feb-15	22-Feb-15	24-Feb-15	3		
	A5395	Complete Tunnel Roof		0		26-Feb-15*		26-Feb-15	0		
	05.2 - Cut & Co	ver Tunnel Ch 4932-5149									
	05.2.3 - ELS										
	A4186	Tunnel Base Slab - Prepare CJ + Waterproofing + N	lass Concrete	0	07-Oct-14 A	29-Oct-14 A	19-Nov-14	19-Nov-14		Tunnel Ba	se Slab - Prepar
	A4192	Tunnel Base Slab - Erect Falsework and Soffit		2	20-Nov-14	21-Nov-14	19-Nov-14	21-Nov-14	0		Tunnel Base
	A4202	Tunnel Base Slab - Waterproofing		1	22-Nov-14	24-Nov-14	21-Nov-14	22-Nov-14	0		Tunnel Bas
	A4212	Tunnel Base Slab - Drilling @ D-Wall - Prepare And	horage	0	29-Oct-14 A	15-Nov-14 A	24-Nov-14	24-Nov-14			unnel Base Slat
	A4222	Tunnel Base Slab - Reb Fix + Concreting		4	17-Nov-14 A	28-Nov-14	24-Nov-14	27-Nov-14	0		📕 Tunnel B
	A4232	Tunnel Bay 1 & 2 - Strut Removal (SP20&21)		2	28-Nov-14	01-Dec-14	28-Nov-14	29-Nov-14	0		Tunnel
	A4242	Pump Sump E (Pump Rm) - Erect Falsework		2	01-Dec-14	03-Dec-14	01-Dec-14	02-Dec-14	0		Pump
	A4252	Tunnel Bay 1 & 2 (Center Wall)+ Pump Rm - Rebar	Fix. & Conc.	5	03-Dec-14	08-Dec-14	03-Dec-14	07-Dec-14	0		💻 Tur
	A4272	Tunnel Bay 1 & 2 (OHVD) + Elec. & Duct Rm -Erect	Falseworks	3	08-Dec-14	11-Dec-14	08-Dec-14	10-Dec-14	0		П Т
	A4282	Tunnel Bay 1 & 2 (OHVD) + Elec. & Duct Rm - Reba	ar Fix. & Conc.	6	11-Dec-14	17-Dec-14	11-Dec-14	16-Dec-14	0		
	A4292	Tunnel Bay 1 & 2 (Hanger Wall) - Formworks + Reb	ar Fix & Conc.	5	17-Dec-14	22-Dec-14	17-Dec-14	21-Dec-14	0		1
	A4302	Tunnel Bay 1 & 2 - (Roof Slab) - Falseworks		2	22-Dec-14	24-Dec-14	22-Dec-14	23-Dec-14	0		
	A4312	Tunnel Bay 1 & 2 - (Roof Slab) - Relocating the Run	ner Beam	2	24-Dec-14	26-Dec-14	24-Dec-14	25-Dec-14	0		
	A4322	Tunnel Bay 1 & 2 - (Roof Slab) - Formworks + Reba	r Fix. & Conc.	7	26-Dec-14	02-Jan-15	26-Dec-14	01-Jan-15	0		
	05.2.4 - Tunnel	Structure									
	0524-2535	Waterproof Top Slab Bay 1 to Bay 4		7	02-Jan-15	10-Jan-15	02-Jan-15	09-Jan-15	0		
	0524-2535.1	Waterproofing Preparation + Tunnel Roof Remedial	Works at Bay 9	15	20-Nov-14	06-Dec-14	05-Dec-14	22-Dec-14	13		Wat
	0524-2535.2	Waterproof Top Slab Bay 5 to Bay 9		14	08-Dec-14	23-Dec-14	23-Dec-14	09-Jan-15	13		
	0524-2535.3	Waterproof Top Slab Bays 12 and 13		14	20-Nov-14	05-Dec-14	06-Dec-14	22-Dec-14	14		Wate
	05.2.5 - Road &	Miscellaneous Works									
	Remaining	Level of Effort Milestone			Contrac	t HY/2009/19					
	Actual Leve										
	Actual Worl		Three	e Months Ro	ling Progran	nme (20 Nov 2	U14 to 19	9 ⊦eb 20	J15)		
1.1		-	1								

Critical Remaining Work



rity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	bber	Novem	2014 Iber Decen
					10.1.15			1926	02 09 1	6 23 30 07 14
0525-2882	Backfill above Tunnel Structure Bay 1 to Bay 4	20	10-Jan-15	03-Feb-15	10-Jan-15	02-Feb-15	0			
0525-2890	Tunnel Road Drainage (excl vent bldg)	45	20-Nov-14	13-Jan-15	02-Jan-15	26-Feb-15	35	_		
0525-2900	Tunnel Roadside/Profile Barrier (excl vent bldg)	30	05-Aug-14 A	02-Jan-15	04-Dec-14	09-Jan-15	7		:	
0525-2940	Backfill above Tunnel Structure Bay 5 to Bay 9	20	24-Dec-14	17-Jan-15	10-Jan-15	02-Feb-15	13			
0525-2950	Backfill above Tunnel Structure Bay 10 to Bay 13	20	06-Dec-14	30-Dec-14	10-Jan-15	02-Feb-15	28			
06 - SECTION	I 3 OF THE WORKS									
06.1 - Westbour	nd - Pier 29-34									
A6020	Pier 29 Additional 12nos. Pre bore H-Pile > P29-5	0	13-Nov-14 A	20-Nov-14	07-Feb-15	07-Feb-15	67			Pier 29 Additio
A6040	Pier 29 Additional 12nos. Pre bore H-Pile > P29-7	0	24-Oct-14 A	11-Nov-14 A	07-Feb-15	07-Feb-15			Pie	er 29 Additional 12
A6050	Pier 29 Additional 12nos. Pre bore H-Pile > P29-8	25	20-Nov-14	18-Dec-14	07-Feb-15	12-Mar-15	67	-		
A6090	Pier 29 Additional 12nos. Pre bore H-Pile > P29-12	25	19-Dec-14	19-Jan-15	12-Mar-15	14-Apr-15	67			
A6110	Pier 29 Additional 12nos. Pre bore H-Pile > P29-14	25	21-Oct-14 A	18-Dec-14	13-Mar-15	15-Apr-15	93			
A6120	Pier 29 Additional 12nos. Pre bore H-Pile > P29-15	25	19-Nov-14 A	18-Dec-14	13-Mar-15	15-Apr-15	93	-	I	
06.2 - Box Culve	ert U1									
0620-2634	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Pipe Laying	6	20-Nov-14	26-Nov-14	15-Dec-14	22-Dec-14	22			🔲 1350mm D
0620-2635	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Backfill/Extract Sheet Pile	9	27-Nov-14	06-Dec-14	22-Dec-14	03-Jan-15	22			1350
0620-2636	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Remove Pavement	7	08-Dec-14	15-Dec-14	03-Jan-15	12-Jan-15	22	_		
0620-2637	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Sheet Pile	12	16-Dec-14	30-Dec-14	12-Jan-15	26-Jan-15	22	_		
0620-2638	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Trench Excav	9	31-Dec-14	10-Jan-15	26-Jan-15	05-Feb-15	22	-		
0620-2639	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Pipe Laying	6	12-Jan-15	17-Jan-15	05-Feb-15	12-Feb-15	22	_		
0620-2641	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Backfill/Extract Sheet Pile	7	19-Jan-15	26-Jan-15	12-Feb-15	24-Feb-15	22			
0620-2642	1500mm Drainage MH 3-1 to MH 3-2 - Sheet Pile	12	16-Dec-14	30-Dec-14	27-Jan-15	10-Feb-15	35	-		
0620-2643	1500mm Drainage MH 3-1 to MH 3-2 - Trench Excav	9	12-Jan-15	21-Jan-15		24-Feb-15	26	_		
0620-2644	1500mm Drainage MH 3-1 to MH 3-2 - Pipe Laving	6	27-Jan-15	02-Feb-15		03-Mar-15	20	_		
						17-Mar-15	22	_		
0620-2645	1500mm Drainage MH 3-1 to MH 3-2 - Construct MH 3-1	12	03-Feb-15	16-Feb-15	03-Mar-15					
0620-2646	1500mm Drainage MH 3-1 to MH 3-2 - Backfill/Extract Sheet Pile	12	10-Feb-15	26-Feb-15	10-Mar-15	24-Mar-15	22			
06.3 - Admin Bu				4= 11						
0630-3119	Grd. Beam - Stage 1-(GL > L2-N6) - Demobilize CWF Piling Machine & Dry Formation	0	10-Nov-14 A	15-Nov-14 A	23-Dec-14	23-Dec-14				Grd. Beam - Stag
0630-3119.1	Grd. Beam - Stage 1-(GL > L2-N6) - Blinding of Cap & Grnd. Beam	0	16-Nov-14 A	17-Nov-14 A	22-Jan-15	22-Jan-15		_		Grd. Beam - Sta
0630-3119.12	Grd. Beam - Stage 1-(GL > L2-N6) - Install Capping Plate + weld Test	3	18-Nov-14 A	22-Nov-14	22-Jan-15	24-Jan-15	52			Grd. Beam -
0630-3119.13	Grd. Beam - Stage 1-(GL > L2-N6) - Loading Test for HP13c	28	23-Nov-14	20-Dec-14	25-Jan-15	22-Feb-15	64			
0630-3119.14	Grd. Beam - Stage 1-(GL > L2-N6) - Reb Fix + Forworks (Grd. Beam & Pile Cap) > Part1	13	21-Dec-14	02-Jan-15	22-Feb-15	07-Mar-15	64			
0630-3119.15	Grd. Beam - Stage 1-(GL > L2-N6) - Reb Fix + Forworks (Grd. Beam & Pile Cap) > Part2	9	03-Jan-15	13-Jan-15	07-Mar-15	18-Mar-15	52	_		
0630-3119.16	Grd. Beam - Stage 1-(GL > L2-N6) - Concreting (Grd. Beam & Pile Cap)	1	14-Jan-15	14-Jan-15	18-Mar-15	19-Mar-15	52	-		
0630-3119.18	Grd. Beam - Stage 1-(GL > L2-N6) - Formworks Removal and Backfill	4	15-Jan-15	19-Jan-15	19-Mar-15	24-Mar-15	52			
Remaining I	Level of Effort Milestone		Contract	HY/2009/19						
Actual Leve				(00.1)						
Actual Work		ins Ro	Iling Program	nme (20 Nov 2	U14 to 1 9	9 Feb 2(J15)			
Critical Rem										

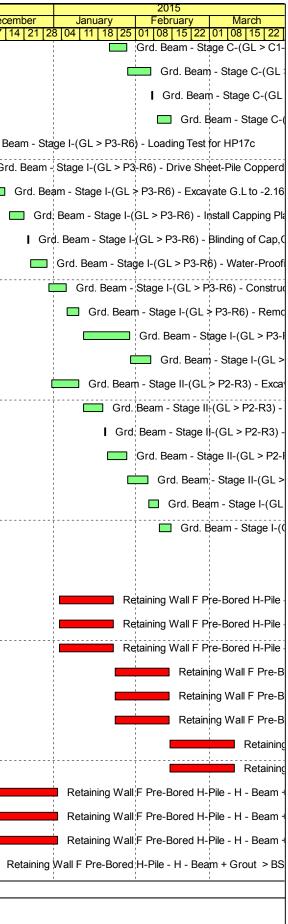
	2015
ember January	February March
14 21 28 04 11 18 25	01 08 15 22 01 08 15 22
	Backfill above Tunnel Structur
Tunnel P	oad Drainage (excl vent bldg)
Tunnel Roadside	e/Profile Barrier (excl vent bldg)
Backfill	above Tunnel Structure Bay 5 to
Backfill above Tur	nnel Structure Bay 10 to Bay 13
itional 12nos. Pre bore H-Pile	> P29-5
l 12nos. Pre bore H-Pile > P2	9-7
Pier 29 Additional 12nos.	Pre bore H-Pile > P29-8
Pier 2	9 Additional 12nos. Pre bore H-I
Pier 29 Additional 12nos.	Pre bore H-Pile > P29-14
Pier 29 Additional 12nos	Pre bore H-Pile > P29-15
n Drainage MH 9-P to MH 3+	1 Stage 1 - Pine Laving
II Dialilage Mili 9-P to Mili 3-	
350mm Drainage MH 9-P to M	/H 3-1 Stage 1 - Backfill/Extract
□ 1350mm Drainage MH 9+I	P to MH 3-1 Stage 2 - Remove
1350mm Drainag	e MH 9-P to MH 3-1 Stage 2 - S
1350mm D	rainage MH 9-الم
🔲 1350m	m Drainage MH 9-P to MH 3-1
13	350mm Drainage MH 9-P to MH
1500mm Drainag	e MH 3-1 to MH 3-2 - Sheet Pile
1500) mm Drainage MH 3-1 to MH 3-
] 1500mm Drainage MH 3-1 to
	1500mm Drainage M
	1500mm Draina
tage 1-(GL > L2-N6) - Domo	bilize CWF Piling Machine & Dry
Stage 1-(GL > L2-N6) - Blind	ling of Cap & Grnd. Beam
n - Stage 1-(GL > L2-N6) - In	stall Capping Plate + weld Test
Grd, Beam - Stage 1-(GL > L2-N6) - Loading Test for I
Grd. Beam - Sta	age 1-(GL > L2-N6) - Reb Fix +
Grd. Bea	m - Stage 1-(GL > L2-N6) - Rel
I Grd. Bea	am - Stage 1-(GL > L2-N6) - Co
🗖 Grd E	Beam - Stage 1-(GL > L2-N6) -
	;

Page 8 of 14

Activity ID	Activity Name		Rem	Start	Finish	Late Start	Late Finish	Total			2014		2015	
			Dur					Float	ber	Novem 02 09 1		December January	February 25 01 08 15 22	March 01 08 15 22
0630-3119.2	Grd. Beam - Stage 2-(GL > G2-K6) - Preparation & Divert	Waterflow	17	10-Nov-14 A	06-Dec-14	23-Dec-14	09-Jan-15	34				Grd. Beam - Stage 2-(GL >		
0630-3119.21	Grd. Beam - Stage 2-(GL > G2-K6) - Excavate G.L to +2.5 +1.65mPD	mPD and Pile Cap B.L to	6	08-Dec-14	13-Dec-14	09-Feb-15	16-Feb-15	53				Grd. Beam - Stage 2-(GL > G2-K6) - Exca	vate G.L to +2.
0630-3119.22	Grd. Beam - Stage 2-(GL > G2-K6) - Install Capping Plate		9	15-Dec-14	24-Dec-14	16-Feb-15	02-Mar-15	53				Grd. Beam - Sta	ge 2-(GL > G2-K6)	- Install Cappin
0630-3119.23	Grd. Beam - Stage 2-(GL > G2-K6) - Blinding of Cap & Gri	nd. Beam	2	26-Dec-14	27-Dec-14	02-Mar-15	04-Mar-15	53				🛛 Grd. Beam - S	age 2-(GL > G2-K6	6) - Blinding of (
0630-3119.24	Grd. Beam - Stage 2-(GL > G2-K6) - Rebar Fixing (Grd. B	eam & Pile Cap)	5	29-Dec-14	03-Jan-15	04-Mar-15	10-Mar-15	53				Grd. Beam	- Stage 2-(GL > G	2-K6) - Rebar F
0630-3119.25	Grd. Beam - Stage 2-(GL > G2-K6) - Erect Formworks (Gr	d. Beam & Pile Cap)	6	05-Jan-15	10-Jan-15	10-Mar-15	17-Mar-15	53				🗖 Grd. B	eam - Stage 2-(GL	> G2-K6) - Ere
0630-3119.26	Grd. Beam - Stage 2-(GL > G2-K6) - Concreting (Grd. Bea	am & Pile Cap)	1	12-Jan-15	12-Jan-15	17-Mar-15	18-Mar-15	53				Grd.	Beam - Stage 2-(GL	- > G2-K6) - Co
0630-3119.27	Grd. Beam - Stage 2-(GL > G2-K6) - Formworks Remova	I and Backfill	5	13-Jan-15	17-Jan-15	18-Mar-15	24-Mar-15	53				🗖 Gr	d. Beam - Stage 2-(GL > G2-K6) -
0630-3119.6	Grd. Beam - Stage A-(GL > D2-F6) - Backfill Water Pond A	rea w/ Concrete Debris	0	10-Nov-14 A	11-Nov-14 A	23-Dec-14	23-Dec-14			l Gr	d. Beam - S	Stage A-(GL > D2-F6) - Bac	fill Water Pond Are	a w/ Concrete [
0630-3119.61	Grd. Beam - Stage A-(GL > D2-F6) - Drive Sheet-Pile Cop	perdam	15	12-Nov-14 A	06-Dec-14	23-Dec-14	12-Jan-15	29				Grd. Beam - Stage A-(GL >	D2-F6) - Drive Sh	eet-Pile Coppe
0630-3119.62	Grd. Beam - Stage A-(GL > D2-F6) - Excavate to -0.55mF	D	2	08-Dec-14	09-Dec-14	12-Jan-15	14-Jan-15	29				Grd. Beam - Stage A-(GL	>D2-F6) - Excava	ate to -0.55mPI
0630-3119.63	Grd. Beam - Stage A-(GL > D2-F6) - Drive Sheet-Pile for	3nos. Sump Pits	4	10-Dec-14	13-Dec-14	14-Jan-15	19-Jan-15	29				Grd. Beam - Stage A-(GL > D2-F6) - Driv	e Sheet-Pile for
0630-3119.64	Grd. Beam - Stage A-(GL > D2-F6) - Excavate Sump Pits	(B.L -1.35,-2.6 & -3.3mPD) +	4	15-Dec-14	18-Dec-14	19-Jan-15	23-Jan-15	29				🔲 Grd. Beam - Stage	-(ĠL > D2-F6) - E	xcavate Sump
0630-3119.65	install waling Grd. Beam - Stage A-(GL > D2-F6) - Install Capping Plate		4	19-Dec-14	23-Dec-14	23-Jan-15	28-Jan-15	29				🔲 Grd. Beam - Stag	e A-(GL > D2-F6) -	Install Cappin
0630-3119.66	Grd. Beam - Stage A-(GL > D2-F6) - Blinding of Cap,Grnd	l. Beam + 3nos.Sump Pits	1	24-Dec-14	24-Dec-14	28-Jan-15	29-Jan-15	29				I Grd. Beam - Sta	ge A-(GL > D2-F6)	- Blinding of Ca
0630-3119.67	Grd. Beam - Stage A-(GL > D2-F6) - Water-Proofing		5	26-Dec-14	31-Dec-14	29-Jan-15	04-Feb-15	29				🔲 Grd. Beam -	Stage A-(GL > D2-	F6) - Water-Pi
0630-3119.68	Grd. Beam - Stage A-(GL > D2-F6) - Construct Lower Por	tion 3nos. Sump-Pit	6	02-Jan-15	08-Jan-15	04-Feb-15	11-Feb-15	29				🗔 Grd. Be	am - Stage A-(GL >	D2-F6) - Con
0630-3119.69	Grd. Beam - Stage A-(GL > D2-F6) - Remove Waling and	Construct upper Portion of	5	09-Jan-15	14-Jan-15	11-Feb-15	17-Feb-15	29				🔲 Grd.	Beam - Stage A-(G	L > D2-F6) - R
0630-3119.7	Sump Pit Grd. Beam - Stage A-(GL > D2-F6) - Water-Proofing at Ba	sement	4	15-Jan-15	19-Jan-15	17-Feb-15	25-Feb-15	29				🗖 G	rd. Beam - Stage A	(GL > D2-F6)
0630-3119.71	Grd. Beam - Stage A-(GL > D2-F6) - Construct Base-Slab	w/ Kicker	4	20-Jan-15	23-Jan-15	25-Feb-15	02-Mar-15	29					Grd. Beam - Stage	A-(GL > D2-F6
0630-3119.72	Grd. Beam - Stage A-(GL > D2-F6) - Remove Strut		4	24-Jan-15	28-Jan-15	02-Mar-15	06-Mar-15	29				C	Grd. Beam - Sta	ige A-(GL > D2
0630-3119.73	Grd. Beam - Stage A-(GL > D2-F6) - Construct Basement	Wall/PC/GB/Column	10	29-Jan-15	09-Feb-15	06-Mar-15	18-Mar-15	29					Grd. Bea	m - Stage A-(G
0630-3119.74	Grd. Beam - Stage A-(GL > D2-F6) - Formworks, Sheet-P	ile Removal and Backfill	5	10-Feb-15	14-Feb-15	18-Mar-15	24-Mar-15	29					🔲 Grd. B	eam - Stage A-
0630-3119.8	Grd. Beam - Stage B-(GL > A1-B6) - Drive Sheet-Pile Cop	perdam	17	08-Dec-14	27-Dec-14	12-Jan-15	31-Jan-15	29				Grd. Beam - S	age B-(GL >A1-B6) - Drive Sheet
0630-3119.81	Grd. Beam - Stage B-(GL > A1-B6) - Bulk Excavate G.L to	+0.7mPD and install	6	29-Dec-14	05-Jan-15	31-Jan-15	07-Feb-15	29				Grd. Bear	n - Stage B-(GL >A	(1-B6) - Bulk E
0630-3119.82	Waling/Strut Grd. Beam - Stage B-(GL > A1-B6) - Beam Excavation up	to +0.2mPD	3	06-Jan-15	08-Jan-15	07-Feb-15	11-Feb-15	29				🔲 Grd. Be	am - Stage B-(GL >	A1-B6) - Bear
0630-3119.83	Grd. Beam - Stage B-(GL > A1-B6) - Pile Cap Excavation	up to +0.0mPD and -0.3mPD +	5	09-Jan-15	14-Jan-15	11-Feb-15	17-Feb-15	29				🔲 Grd.	Beam - Stage B-(G	iL > A1-B6) - F
0630-3119.84	Vert/Hor. Blinding Grd. Beam - Stage B-(GL > A1-B6) - Install Capping Plate		9	15-Jan-15	24-Jan-15	17-Feb-15	03-Mar-15	29					Grd. Beam - Stage	e B-(GL > A1-B
0630-3119.85	Grd. Beam - Stage B-(GL > A1-B6) - Rebar Fixing (Grd. B	eam & Pile Cap) + Formworks	6	26-Jan-15	31-Jan-15	03-Mar-15	10-Mar-15	29					🔲 Grd. Beam - S	tage B-(GL > A
0630-3119.86	Grd. Beam - Stage B-(GL > A1-B6) - Concreting (Grd. Bea	m & Pile Cap)	7	01-Feb-15	07-Feb-15	10-Mar-15	17-Mar-15	38					🔲 Grd. Beam	n - Stage B-(GL
0630-3119.87	Grd. Beam - Stage B-(GL > A1-B6) - Formworks, Sheet-Pi	e Removal and Backfill	6	09-Feb-15	14-Feb-15	17-Mar-15	24-Mar-15	29					🔲 Grd. B	eam - Stage B
0630-3119.91	Grd. Beam - Stage C-(GL > C1-F2) - Drive Sheet-Pile Cop	perdam	22	08-Dec-14	03-Jan-15	12-Jan-15	06-Feb-15	29				Grd. Beam	- Stage C-(GL > C	1-F2) - Drive S
0630-3119.92	Grd. Beam - Stage C-(GL > C1-F2) - Excavate G.L to +1.0	mPD and install Waling/Strut	6	05-Jan-15	10-Jan-15	06-Feb-15	13-Feb-15	29				🔲 Grd. B	eam - Stage C-(GL	> C1-F2) - Exc
0630-3119.93	Grd. Beam - Stage C-(GL > C1-F2) - Excavate Pile-Cap B	L to -0.7mPD and Cast Vert/Hor	3	12-Jan-15	14-Jan-15	13-Feb-15	17-Feb-15	29				🗖 Grd.	Beam - Stage C-(C	GL > C1-F2) - E
0630-3119.94	Blinding Grd. Beam - Stage C-(GL > C1-F2) - Install Capping Plate		6	15-Jan-15	21-Jan-15	17-Feb-15	27-Feb-15	29					Grd. Beam - Stage (C-(GL > C1-F2
					·				L'			I	I I	
Remaining	Level of Effort Milestone			Contract	HY/2009/19									
Actual Leve			_		. -							Page 9 o	f 14	
Actual Wor		Three Month	s Ro	Iling Program	me (20 Nov 2	2014 to 19	9 Feb 20	15)				i age 90		
Remaining	VVOrK													

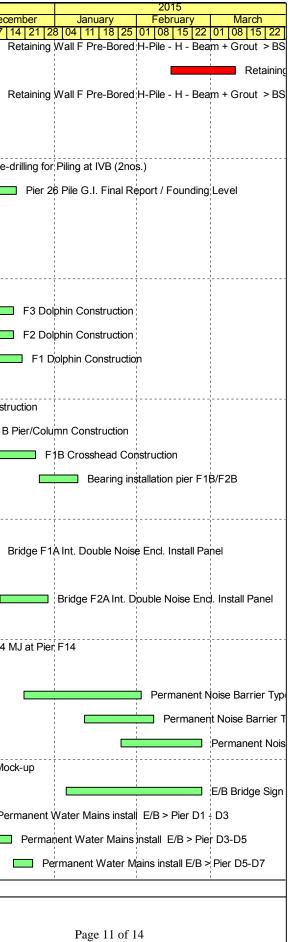
Critical Remaining Work

ctivity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	2014 bber November
0620 2110 05	Crid Deem Store C (CL > C1 E2) Cost) (ortical and Deem Dinding Layer		22. Jan 15	29. Jap 15	27-Feb-15	06-Mar-15		19 26 02 09 16 23 30
0630-3119.95	Grd. Beam - Stage C-(GL > C1-F2) - Cast Vertical and Beam Blinding Layer	6	22-Jan-15	28-Jan-15			29	
0630-3119.96	Grd. Beam - Stage C-(GL > C1-F2) - Rebar Fixing (Grd. Beam & Pile Cap) + Formworks		29-Jan-15	06-Feb-15	06-Mar-15	16-Mar-15	29	
0630-3119.97	Grd. Beam - Stage C-(GL > C1-F2) - Concreting (Grd. Beam & Pile Cap)	1	07-Feb-15	07-Feb-15		17-Mar-15	29	
0630-3119.98	Grd. Beam - Stage C-(GL > C1-F2) - Formworks, Sheet-Pile Removal and Backfill	6	09-Feb-15	14-Feb-15	17-Mar-15	24-Mar-15	29	
0630-3121.4	Grd. Beam - Stage I-(GL > P3-R6) - Loading Test for HP17c	9	10-Nov-14 A	29-Nov-14	02-Jan-15	13-Jan-15	36	
0630-3121.41	Grd. Beam - Stage I-(GL > P3-R6) - Drive Sheet-Pile Copperdam	15	10-Nov-14 A	06-Dec-14	02-Jan-15	20-Jan-15	36	
0630-3121.42	Grd. Beam - Stage I-(GL > P3-R6) - Excavate G.L to -2.16mPD and install Waling/Struts	6	08-Dec-14	13-Dec-14	20-Jan-15	27-Jan-15	36	
0630-3121.43	Grd. Beam - Stage I-(GL > P3-R6) - Install Capping Plate	6	15-Dec-14	20-Dec-14	27-Jan-15	03-Feb-15	36	
0630-3121.44	Grd. Beam - Stage I-(GL > P3-R6) - Blinding of Cap,Grnd. Beam	1	22-Dec-14	22-Dec-14	03-Feb-15	04-Feb-15	36	
0630-3121.45	Grd. Beam - Stage I-(GL > P3-R6) - Water-Proofing	5	23-Dec-14	29-Dec-14	04-Feb-15	10-Feb-15	36	
0630-3121.46	Grd. Beam - Stage I-(GL > P3-R6) - Construct Base Slab w/ Kicker	5	30-Dec-14	05-Jan-15	10-Feb-15	16-Feb-15	36	
0630-3121.47	Grd. Beam - Stage I-(GL > P3-R6) - Remove waling and strut	5	06-Jan-15	10-Jan-15	16-Feb-15	25-Feb-15	36	
0630-3121.48	Grd. Beam - Stage I-(GL > P3-R6) - Construct Walls, Columns & Remaining Beams	16	12-Jan-15	29-Jan-15	25-Feb-15	16-Mar-15	36	
0630-3121.49	Grd. Beam - Stage I-(GL > P3-R6) - Formworks, Sheet-Pile Removal and Backfill	7	30-Jan-15	06-Feb-15	16-Mar-15	24-Mar-15	36	
0630-3121.5	Grd. Beam - Stage II-(GL > P2-R3) - Excavate G.L to +2.5mPD beam formation to	9	31-Dec-14	10-Jan-15	03-Feb-15	13-Feb-15	29	
0630-3121.51	+1.8mPD Grd. Beam - Stage II-(GL > P2-R3) - Install Capping Plate	7	12-Jan-15	19-Jan-15	13-Feb-15	25-Feb-15	29	
0630-3121.52	Grd. Beam - Stage II-(GL > P2-R3) - Cast Beam Blinding Layer	1	20-Jan-15	20-Jan-15	25-Feb-15	26-Feb-15	29	
0630-3121.53	Grd. Beam - Stage II-(GL > P2-R3) - Rebar Fixing for Beam	7	21-Jan-15	28-Jan-15		06-Mar-15	29	
0630-3121.54	Grd. Beam - Stage II-(GL > P2-R3) - Erect Formworks for Beam	7	29-Jan-15	05-Feb-15		14-Mar-15	29	
0630-3121.55	Grd. Beam - Stage I-(GL > P2-R3) - Cast Concrete for Beam	3	06-Feb-15	09-Feb-15	14-Mar-15	18-Mar-15	29	
						24-Mar-15		
0630-3121.57	Grd. Beam - Stage I-(GL > P2-R3) - Formworks Removal and Backfill	5	10-Feb-15	14-Feb-15	10-IVIAI-13	24-10181 - 15	29	
08 - SECTION								
	Wall 'F' Substructure							
A7653	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS36a	18	03-Jan-15	23-Jan-15		29-Jan-15	5	
A7654	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS36b	18	03-Jan-15	23-Jan-15	09-Jan-15	29-Jan-15	5	
A7655	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS37a	18	03-Jan-15	23-Jan-15	09-Jan-15	29-Jan-15	5	
A7656	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS37b	18	24-Jan-15	13-Feb-15	30-Jan-15	23-Feb-15	5	
A7657	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS38a	18	24-Jan-15	13-Feb-15	30-Jan-15	23-Feb-15	5	
A7658	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS38b	18	24-Jan-15	13-Feb-15	30-Jan-15	23-Feb-15	5	
A7660	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS39a	18	14-Feb-15	10-Mar-15	24-Feb-15	16-Mar-15	5	
A7670	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS39b	18	14-Feb-15	10-Mar-15	24-Feb-15	16-Mar-15	5	
A7671	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS40a	18	11-Dec-14	02-Jan-15	17-Dec-14	08-Jan-15	5	
A7672	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS40b	18	11-Dec-14	02-Jan-15	17-Dec-14	08-Jan-15	5	
A7673	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS41a	18	11-Dec-14	02-Jan-15		08-Jan-15	5	
A7680	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS42a	18	20-Nov-14	10-Dec-14	26-Nov-14	16-Dec-14	5	
								· · · · · · · · · · · · · · · · · · ·
Remaining L Actual Level	Level of Effort Milestone		Contract	HY/2009/19				
Actual Work	Three Mon	ths Ro	olling Program	ime (20 Nov 2	014 to 19	9 Feb 2(015)	

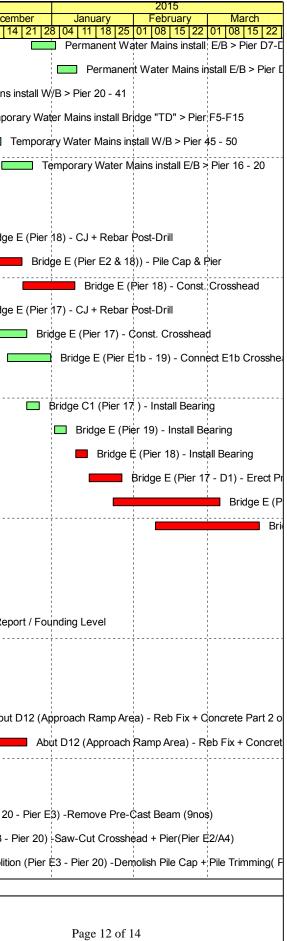


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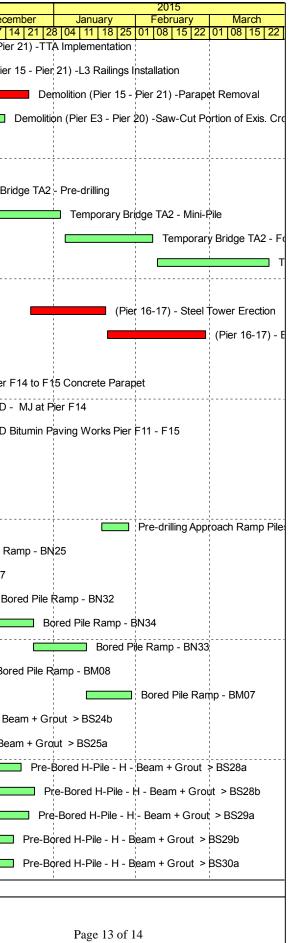
Activity ID	Activity Name		Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	ber No	2014 ovember	Dece
17000									19 26 02		30 07 1
A7690	Retaining Wall F Pre-Bored H-Pile - H - Beam + Gro		18	20-Nov-14	10-Dec-14	26-Nov-14	16-Dec-14	5			R
A7720	Retaining Wall F Pre-Bored H-Pile - H - Beam + Gro		18	14-Feb-15	10-Mar-15	24-Feb-15	16-Mar-15	5			
A7790	Retaining Wall F Pre-Bored H-Pile - H - Beam + Gro	but > BS47b	18	20-Nov-14	10-Dec-14	26-Nov-14	16-Dec-14	5			R
	6 OF THE WORKS										
09.2 - Westboun											
0920-2100	Pre-drilling for Piling at IVB (2nos.)		12	13-Oct-14 A	03-Dec-14			1563			Pre-d
0920-2105	Pier 26 Pile G.I. Final Report / Founding Level		12	04-Dec-14	17-Dec-14	21-Feb-20	05-Mar-20	1563			
10 - SECTION	X OF THE WORKS										
10.1 - E/B Bridge	es (Bridge D, E and F)										
10.1.1 - Marine P	ier Construction										
Pier F03 to F15											
1011-3272	F3 Dolphin Construction		23	08-Jul-14 A	16-Dec-14	01-Dec-14	29-Dec-14	10			
1011-3273	F2 Dolphin Construction		23	11-Jul-14 A	16-Dec-14	01-Dec-14	29-Dec-14	10			
1011-3274	F1 Dolphin Construction		26	23-Jul-14 A	19-Dec-14	27-Nov-14	29-Dec-14	7			
Pier F01 to F02											
1011-2895	F1B Pile Cap Construction		0	15-Jul-14 A	06-Nov-14 A	18-Aug-17	18-Aug-17		·	F1B Pile Cap	Construe
1011-2900	F1B Pier/Column Construction		12	20-Nov-14	03-Dec-14	18-Aug-17	01-Sep-17	825			F1B F
1011-2910	F1B Crosshead Construction		18	04-Dec-14	24-Dec-14	01-Sep-17	22-Sep-17	825			
1011-2930	Bearing installation pier F1B/F2B		12	26-Dec-14	09-Jan-15	22-Sep-17	09-Oct-17	825			
10.1.3 - E/B Bridg	ge Construction										
Bridge F1A											
1013-1868.1	Bridge F1A Int. Double Noise Encl. Install Panel		15	24-Nov-14	10-Dec-14	13-Feb-15	06-Mar-15	69			Br
Bridge F2A											
1013-1378.1	Bridge F2A Int. Double Noise Encl. Install Panel		15	11-Dec-14	29-Dec-14	06-Mar-15	24-Mar-15	69			
Bridge F5/F4											
1013-2172.25	Bridge F4 MJ at Pier F14		3	20-Nov-14	22-Nov-14	24-Nov-14	27-Nov-14	4		Brid	lge F4 M
All E/B Bridges	(Common)										
1013-1710	Permanent Noise Barrier Type C1 E/B Bridge Ch 10	59-1362 (304m)	36	12-Nov-14 A	02-Feb-15	17-Jan-15	04-Mar-15	23			
1013-1720	Permanent Noise Barrier Type B1 E/B Bridge Ch 96.		24	12-Jan-15	07-Feb-15	06-Feb-15	10-Mar-15	23			
1013-1730	Permanent Noise Barrier Type A1 E/B Bridge Ch 82		24	26-Jan-15	25-Feb-15	24-Feb-15		23			
1013-1735	Noise Barrier Mock-up	· · /	0	12-Nov-14 A	12-Nov-14 A	17-Jan-15	17-Jan-15	<u> </u>		I Noise Barr	rier Mock
1013-1750	E/B Bridge Sign Gantries and Misc. Mounting Structu	ure/Support	42	05-Jan-15	25-Feb-15	30-Jan-15	24-Mar-15	23			
A6150	Permanent Water Mains install E/B > Pier D1 - D3		7	29-Nov-14	06-Dec-14	07-Feb-15		59			Perr
A6160	Permanent Water Mains install E/B > Pier D3-D5		7	08-Dec-14	15-Dec-14		27-Feb-15	59			
A6170	Permanent Water Mains Install E/B > Pier D5-D5		7	16-Dec-14	23-Dec-14	27-Feb-15		59			
AUTO	r emianent water Mallis Install E/D > Mel D3-D7		I	10-Det-14	20-Det-14	21-FED-13	01-1010-10	- 59			
Remaining I	evel of Effort Milestone			Contract	HY/2009/19						
Actual Level				Sonnaci	111/2003/13						
Actual Work		Three Months	Ro	Iling Program	me (20 Nov 2	014 to 19) Feb 20)15)			
Remaining V								- /			



Acti	ivity ID	Activity Name		Rem Dur	Start	Finish	Late Start	Late Finish	Total Float		Novem		Decer
	A6180	Permanent Water Mains install E/B > Pier D7-D9		7	24-Dec-14	02-Jan-15	07-Mar-15	16-Mar-15	59	2 19 20	6 <mark>02091</mark>	<u>6 23 </u> :	30 07 1
	A6190	Permanent Water Mains install E/B > Pier D9-D12		7	03-Jan-15	10-Jan-15		24-Mar-15	59	_			
	A6200	Temporary Water Mains install W/B > Pier 20 - 41		0	01-Oct-14 A	01-Nov-14 A	13-Feb-15	13-Feb-15		_	Tempor	arv Wat	er Mains
	A6300	Temporary Water Mains install Bridge "TD" > Pier F5	-F15	10	20-Nov-14	01-Dec-14	13-Feb-15	28-Feb-15	72	_			Tempo
	A6310	Temporary Water Mains install W/B > Pier 45 - 50		10	02-Dec-14	12-Dec-14	28-Feb-15	12-Mar-15	72	_			
	A6320	Temporary Water Mains install E/B > Pier 16 - 20		10	13-Dec-14	24-Dec-14	12-Mar-15	24-Mar-15	72				
	10.1.4 - Bridge E	/ Hing Fat Slip Road											
ſ	Pier Construction												
	1014-1240.11	Bridge E (Pier 18) - CJ + Rebar Post-Drill		11	03-Sep-14 A	02-Dec-14	09-Dec-14	20-Dec-14	16				Bridge
	1014-1240.12	Bridge E (Pier E2 & 18)) - Pile Cap & Pier		19	29-Nov-14	20-Dec-14		20-Dec-14	0	_			- 0
	1014-1240.20	Bridge E (Pier 18) - Const. Crosshead		20	21-Dec-14	09-Jan-15	20-Dec-14	09-Jan-15	0				
	1014-1246	Bridge E (Pier 17) - CJ + Rebar Post-Drill		11	03-Sep-14 A	02-Dec-14	06-Dec-14	18-Dec-14	14	_			Bridge
	1014-1249	Bridge E (Pier 17) - Const. Crosshead		17	02-Dec-14	22-Dec-14	18-Dec-14	09-Jan-15	14	_			
	1014-1249.1	Bridge E (Pier E1b - 19) - Connect E1b Crosshead	o Pier 19	14	15-Dec-14	31-Dec-14	22-Dec-14	09-Jan-15	7	-			
	Bridge Constru												
	1014-1210.1	Bridge C1 (Pier 17) - Install Bearing		4	22-Dec-14	27-Dec-14	09-Jan-15	14-Jan-15	14				
	1014-1240.2	Bridge E (Pier 19) - Install Bearing		4	02-Jan-15	06-Jan-15	09-Jan-15	14-Jan-15	7	-			
	1014-1240.3	Bridge E (Pier 18) - Install Bearing		4	10-Jan-15	14-Jan-15	09-Jan-15	14-Jan-15	0	-			
	1014-1240.4	Bridge E (Pier 17 - D1) - Erect Pre-Cast Beam (10nd	ns)	11	15-Jan-15	27-Jan-15	14-Jan-15	27-Jan-15	0	-			
	1014-1240.5	Bridge E (Pier 17 - D1) - Bridge Deck + Longitudinal		32	24-Jan-15	05-Mar-15	23-Jan-15	05-Mar-15	0	-			
	1014-1240.6	Bridge E (Pier E2 - E1)- Parapet + Paving & Marking		32	09-Feb-15	20-Mar-15		20-Mar-15	0				
		es (Bridge C and F)				20 110 10		20 11101 10		_			
	10.2 - W/B Bhag 10.2.1 - Pier Con												
ſ	Pier 20 to 25												
	1021-1015	Pier 23 Pile G.I. Final Report / Founding Level		0	07-Oct-14 A	30-Oct-14 A	07-Jan-16	07-Jan-16			Pier 23 P	ile G L I	-inal Ren
	10.3 - Middle Bri												
	10.3 - Middle Bri 10.3.1 - Pier Con												
I	Abutment D12	Struction											
	1031-1057	Abut D12 (Approach Ramp Area) - Reb Fix + Concre	ate Part 2 of 3	14	20-Nov-14	05-Dec-14	20-Nov-14	05-Dec-14	0				Abut
	1031-1057	Abut D12 (Approach Ramp Area) - Reb Fix + Concre		14	06-Dec-14	22-Dec-14*		22-Dec-14	0	_			Abut
	10.4 - Bridge De				00-Dec-14	22-060-14	00-Dec-14	22-Dec-14	0				
	10.4 - Bridge De												
	1042-1010.4	Demolition (Pier 20 - Pier E3) -Remove Pre-Cast Be	am (Onos)	0	18-Oct-14 A	11-Nov-14 A	28 Nov 14	28-Nov-14				molition	n (Pier 20
	1042-1010.4	Demolition (Pier E3 - Pier 20) -Saw-Cut Crosshead		0	05-Nov-14 A	06-Nov-14 A		28-Nov-14		_			Pier E3 - I
		Demolition (Pier E3 - Pier 20) -Demolish Pile Cap + F	· · ·	6					0	_	Demo		
	1042-1010.93	Demolition (Pier E3 - Pier 20) - Demolish Pile Cap + F	nie miniming(Pier EziA4)	0	07-Nov-14 A	28-Nov-14	22-INOV-14	28-Nov-14	0				Demolitio
	Remaining L	evel of Effort Milestone			Contract	t HY/2009/19							
-	Actual Level												
	Actual Work		Three Mo	nths Ro	lling Progran	nme (20 Nov 2	014 to 1	9 Feb 20)15)				
	Remaining V												
		~											



Activity ID	Activity Name		Rem Dur	Start	Finish	Late Start	Late Finish	Total Float	ber Novem		
1042-1010.94	Demolition (Pier 15 - Pier 21) -TTA Implementation		0	28-Oct-14 A	31-Oct-14 A	27-Nov-14	27-Nov-14		19 26 02 09 1		
1042-1010.95	Demolition (Pier 15 - Pier 21) -L3 Railings Installation	 I	0	01-Nov-14 A	15-Nov-14 A	27-Nov-14	27-Nov-14			Demoli	tion (Pier
1042-1010.96	Demolition (Pier 15 - Pier 21) -Parapet Removal		25	24-Nov-14	22-Dec-14	27-Nov-14	27-Dec-14	4	-		
1042-1010.97	Demolition (Pier E3 - Pier 20) -Saw-Cut Portion of E	xis. Crosshead (Pier 19)	8	05-Dec-14	13-Dec-14	12-Dec-14	22-Dec-14	7			
10.5 - Temporar	y Bridge										
10.5.1 - Tempora	ry Bridge 'TA'										
1051-1018.1	Temporary Bridge TA2 - Pre-drilling		0	08-Oct-14 A	18-Nov-14 A	10-Dec-14	10-Dec-14			Temp	orary Brid
1051-1019	Temporary Bridge TA2 - Mini-Pile		30	28-Nov-14	03-Jan-15	10-Dec-14	16-Jan-15	11		Ē	
1051-1019.1	Temporary Bridge TA2 - Footing		30	05-Jan-15	07-Feb-15	16-Jan-15	24-Feb-15	11			
1051-1019.2	Temporary Bridge TA2 - Pier & Beam Along C15		34	09-Feb-15	23-Mar-15		08-Apr-15	11	-		
10.5.2 - Tempora	nry Bridge 'TB' & 'TC'						·				
A2460	(Pier 16-17) - Steel Tower Erection		23	23-Dec-14	20-Jan-15	27-Dec-14	24-Jan-15	4			
A2470	(Pier 16-17) - Beam + Deck Erection		30	21-Jan-15	27-Feb-15	24-Jan-15	04-Mar-15	4	-		
10.5.3 - Tempora			50	21-541-15	27-1 60-13	24-5411-15	04-10181 - 13	-			
				44 Core 44 A	24 Nov 44	05 Nov 44	07 Nov 44	5			D" - Pier F
1053-1065.1	"TD" - Pier F14 to F15 Concrete Parapet		2	11-Sep-14 A	21-Nov-14		27-Nov-14	5			
1053-1166	Bridge TD - MJ at Pier F14		3	20-Nov-14	22-Nov-14		27-Nov-14	4	-		idge TD -
1053-1167	Bridge TD Bitumin Paving Works Pier F11 - F15		3	15-Sep-14 A	22-Nov-14	24-Nov-14	27-Nov-14	4		Bri	idge TD E
10.6 - Tunnel Ap											
	h Ramp (Excluding Portion IIB)										
Bored Piles											
1061-1010	Pre-drilling Approach Ramp Piles Remaining (70 nos) (excl IIB & VD)	10	18-Oct-13 A	29-Jan-15	25-Apr-15	07-May-15	77		4	
1061-1980	Bored Pile Ramp - BN25		0	07-Aug-14 A	20-Nov-14	26-Nov-16	26-Nov-16	606		Bore	ed Pile Ra
1061-2030	Bored Pile Ramp - BM17		0	14-Oct-14 A	28-Oct-14 A	09-Nov-16	09-Nov-16		Bored Pile	Ramp	- BM17
1061-2060	Bored Pile Ramp - BN32		15	20-Nov-14	08-Dec-14	05-Oct-16	24-Oct-16	561			Bo
1061-2070	Bored Pile Ramp - BN34		14	19-Aug-14 A	24-Dec-14	24-Oct-16	09-Nov-16	561			
1061-2080	Bored Pile Ramp - BN33		15	24-Dec-14	13-Jan-15	09-Nov-16	26-Nov-16	561			 ! !
1061-2100	Bored Pile Ramp - BM08		15	20-Nov-14	06-Dec-14	09-Nov-16	26-Nov-16	591			Bore
1061-2110	Bored Pile Ramp - BM07		15	13-Jan-15	30-Jan-15	26-Nov-16	14-Dec-16	561			
A7840	Pre-Bored H-Pile - H - Beam + Grout > BS24b		0	30-Sep-14 A	30-Oct-14 A	30-Apr-15	30-Apr-15		Pre-Bore	d H-Pile	e - H - Be
A7850	Pre-Bored H-Pile - H - Beam + Grout > BS25a		0	16-Oct-14 A	28-Oct-14 A	16-Jul-20	16-Jul-20		Pre-Bored	H-Pile	- H - Bea
A7910	Pre-Bored H-Pile - H - Beam + Grout > BS28a		18	29-Nov-14	19-Dec-14	08-Apr-15	28-Apr-15	103			
A7920	Pre-Bored H-Pile - H - Beam + Grout > BS28b		20	02-Dec-14	24-Dec-14	08-Apr-15	30-Apr-15	101	-		
A7930	Pre-Bored H-Pile - H - Beam + Grout > BS29a		18	02-Dec-14	22-Dec-14	08-Apr-15	28-Apr-15	101	_		
A7940	Pre-Bored H-Pile - H - Beam + Grout > BS29b		18	26-Nov-14	16-Dec-14	08-Apr-15	28-Apr-15	106	-		
A7950	Pre-Bored H-Pile - H - Beam + Grout > BS30a		20	24-Nov-14	16-Dec-14	08-Apr-15	30-Apr-15	108	_		
											<u>I</u>
Remaining L	evel of Effort Milestone			Contract	t HY/2009/19						
Actual Level		T L				0444-44		\ <i>4</i> C \			
Actual Work		Inree Mor	iths Ro	lling Program	nme (20 Nov 2	19 19 19 19 19 19 19 19 19 19 19 19 19 1	9 Fed 2(JI5)			
Critical Rema											



rity ID	Activity Name	Rem	Start	Finish	Late Start	Late Finish	Total	
		Dur					Float	ber November December January February N [19] 26 02 09 16 23 30 07 14 21 28 04 11 18 25 01 08 15 22 01 08
A7960	Pre-Bored H-Pile - H - Beam + Grout > BS30b	8	10-Nov-14 A	28-Nov-14	26-Mar-15	07-Apr-15	103	
A7970	Pre-Bored H-Pile - H - Beam + Grout > BS31a	18	20-Nov-14	10-Dec-14	10-Apr-15	30-Apr-15	113	Pre-Bored H-Pile - H - Beam + Grout > BS31a
A7980	Pre-Bored H-Pile - H - Beam + Grout > BS31b	8	29-Oct-14 A	28-Nov-14	22-Apr-15	30-Apr-15	123	Pre-Bored H-Pile - H - Beam + Grout > BS31b
A7990	Pre-Bored H-Pile - H - Beam + Grout > BS32a	18	20-Nov-14	10-Dec-14	10-Apr-15	30-Apr-15	113	Pre-Bored H-Pile - H - Beam + Grout > BS32a
A8000	Pre-Bored H-Pile - H - Beam + Grout > BS32b	7	11-Nov-14 A	27-Nov-14	10-Apr-15	17-Apr-15	113	Pre-Bored H-Pile - H - Beam + Grout > BS32b
A8010	Pre-Bored H-Pile - H - Beam + Grout > BS33a	10	08-Nov-14 A	01-Dec-14	24-Mar-15	07-Apr-15	101	Pre-Bored H-Pre - H - Beam + Grout > BS33a
A8020	Pre-Bored H-Pile - H - Beam + Grout > BS33b	3	06-Nov-14 A	22-Nov-14	24-Mar-15	26-Mar-15	101	Pre-Bored H-Pile - H - Beam + Grout > BS33b
A8041	Pre-Bored H-Pile - H - Beam + Grout > BS34a	5	31-Oct-14 A	25-Nov-14	24-Mar-15	28-Mar-15	101	Pre-Bored H-Pile - H - Beam + Grout > BS34a
A8042	Pre-Bored H-Pile - H - Beam + Grout > BS34b	10	11-Nov-14 A	01-Dec-14	24-Mar-15	07-Apr-15	101	Pre-Bored H-Pile - H - Beam + Grout > BS34b
10.7 - Section	n X - Miscellaneous Works							
10.7.1 - TTM S	Stages							
1071-1025	TTM Stage 2B - TMLG / TD / Police Consultation and Endorsement	90	21-Dec-14	20-Mar-15	20-Dec-14	20-Mar-15	0	
1071-1045	TTM Stage 2C - TMLG / TD / Police Consultation and Endorsement	126	19-Jan-15	24-May-15	20-Jan-15	26-May-15	2	
11 - SECTIC	ON 11 OF THE WORKS			1		1		
11.2 - Roadwo	orks							
1110-2200	Junction Improvement Work at Portion XIIA (possession 02Sep14)	320	02-Jan-15*	26-Jan-16	31-Dec-14	26-Jan-16	0	

Remaining Level of Effort Milestone Actual Level of Effort	Contract HY/2009/19	
Actual Work	Three Months Rolling Programme (20 Nov 2014 to 19 Feb 2015)	
Remaining Work		
Critical Remaining Work		

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13-0						1		ut for DWP Rev M							nted 26-Sep-14
ty ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float				015			2016	
17/2009/4	5 - Works Pro	gramme Rev. M (DD:20-Sep-12	Y					Q4	Q1	Q2	Q3	.Q4	Q1	Q2	Q3
			·									-			
		Adit - Based on Alternative Meth	od												
Reinstatem	ent of Breakwater								1.00						
S3_54840	Reinstatement wo	orks -west side	7d/wk-1	60d	21-Feb-14 08 A	30-Sep-14 18	-85d	Reinstateme	ent works -west side					-	
S3_60085	Reinstatement wo	orks east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstateme	nt works east side					-	
S3_54845	Completion of Sec	ction 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	Od		30-Sep-14 18	-86d	Completion	of Section 3 (KD8) in	EVA Area (Alterna	tive Method)	1			1
Works in T	S1/TS2 - OHVI	D and Cable Trough/Maintenance	Walkway			1	-								1
TS2 - OHVD	and Cable Trough	/Maintenance Walkway	14.00			-			-		-	-	-		1
OHVD Slab	and Cable Trough C	Construction							-				-		-
	TS2 - OHVD/ Cal				los as a second		1								
S3_6210			7d/wk-1	40d	20-May-14 08 A		-85d	TS2 - OHVI		1		1	010 1		1
S3_6212	Completion of Sec	ction 3 - TS1/TS2 Area (below -6mpd) KD8)	7d/wk-2	0d	-	30-Sep-14 18	-86d	Completion	of Section 3 - TS1/T	S2 Area (below -6n	npd) KDB)				
Works in T	rS4/ME4 Area (Portion 14A, 14B, 15, 23)		-											
TS4/ME4 - R	emoval of Tempor	rary Reclamation							-			-			
Remaining	Works at TZ6												-		1
2 - A anet?	eawall and Reclama	alion st TZ6					_						-		1
									. San San	1					
A-2010		wall blocks (Qty: 245 nos.)	7d/wk-2		15-Sep-14 08 A	26-Sep-14 18	-332d		i seawall blocks (Qty	1		1			
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	Soil Backfillin	g up to -2.45mPD (0	2ty:3,000 cu.m.)					1
A-2030	Utilities installation	for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	I: Utilities instal	lation for Mined Tun	nel					
A-2040	Soil backfilling up	to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	I Soil backfillin	g up to ground level	(Qty:2,000 cu.m.)					
A-2050	Site clearance		7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site dearand	ce						
A-2060	Handover to MTF	2	7d/wk-2	0d		30-Sep-14 18	-305d	Handover to	MTR			1			
Removal of	Temporary Reclama	ation at TS4/ME4		1		1	-				1	+			1
Stage 5 /2 c	DOPS & D & F - TSJ.	-D33 to D-26, SCL2 & ME4-D19 to D13)		_							1		-		
A-3000		cutting (Qty: 62 pcs.)	7dbd 2	214	20 Aug 14 08 A	02 Cen 14 18	2404	D Well have		1					
V. 2717	2		7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14 18	-340d	D-vvali horizo	intal cutting (Qty: 62	pcs.)					
Stage 6 (Zo	one C - P4, ME4-D12	2 to ME4-D10 & P3)								1.0					
A-3011	Marine removal o (Zones C)	f temporarly reclamation and seawall blocks	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d	Marine rem	oval of temporarly r	clamation and sea	wall blocks (Zone	es C)			
A-3030		tting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall ver	tical cutting (Qty: 15	pcs.)		1			
A-3040	D-Wall horizontal	cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall ho	rizontal cutting (Qty:	20 pcs.)					1
		1 of 18	_	1						Prepared by William	Calura	1		1	3
Summa	ary Bar Level of Effort		and the						Date	Revision	Caluza Checked /	Approved			
Actual \	ers an en enters	China Sta	te Constru	ction Eng	gineering (Hong	Kong) Ltd			26-Sep 1st subn	nission				- 神(言語)	200
	ning Work	Contract No, HY/2009/15 - Central	Wan Chai E	By Pass -	Tunnel (Cause	way Bay Typ	hoon SI	elter Section)			-	cauto	中國建築: CHINA STATE CONSTR		
Critical	Remaining Work	and a second and a survey of the second		0.00								Reference of the local division of the local	CHINA SIALE CONSILE	OCTION ENGINEERING	a grong kulvg
Milestor	a		WORKS	ROGR	AMME REV.	M									

ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float			201				2016	
Stage 7 (Zor	nes C & E - ME4-D06 to D01, SCL1 & TS4-D25)		and stayli	-	-	Hoat	Q4	Q1	Q2	Q3	Q4.	Q1	Q2	Q3
and the second se			_											
A-4000	Marine removal of temporarly redamation and seawall blocks (Zones C & E)	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	I of temporarly rec	armation and seawa	I blocks (Zone	s C & E)			
A-3090	Hole coring (Qty: 44 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cutting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	D-Wall vertic	al cutting (Qty: 27p	ocs.)					
A-4020	D-Wall horizontal cutting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d	D-Wall horia	ontal cutting (Qty:	37 pcs.)		1			
Stage 9 (Zor	ne (- TS4-D01 to TS4-D08)				-	-					1	-		
A-3050	Remaining removal of temporary reclamation (Zone I)	7464.0	-					Sec. 1. Al			1			
		7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 1B	-342d	Remaining rem	oval of temporary i	reclamation (Zone I)					
A-3060	Hole coring (Qty: 25 nos)	7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	ty: 25 nos)	1.2					
A-3070	D-Wall vertical cutting (Qty: 14 pcs.)	7d/wk-2	3d	07-0d-14 08	09-Oct-14 18	-342d	D-Wall vertica	cutting (Qty: 14 p	ics.)		1			
A-3080	D-Wall horizontal cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hor	zontal cutting (Qty	24 pcs.)					
Stage 8 (Zor	nes G & K - TS4-D24 to TS4-D15)				-	-						-		
A-4040	Relocation of RHKYC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating ponte	000					
A-4050	Hole coring (Qty: 27 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Q1	1						
A-4060	Marine removal of temporary reclamation and seawall blocks		-			1.500								
	(Zone G & K)	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	loval of temporary	reclamation and sea	wall blocks (Zo	ne G & K)			
A-4070	D-Wall vertical cutting (Qty: 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d	D-Wall ve	tical cutting (Qty:	18pcs.)					
A-4080	D-Wall horizontal cutting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d	D-Wall ho	rizontal cutting (Q	ty: 25 pcs.)					
Stage 10 (Zo	one 4 - TS4-009 to TS4-014)		-	1		-					-			
A-4090	Land removal of temporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	al of temporary rec	lamation (Zone J)					
A-5000	Hole coring (Qty: 32 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	Hole coring							
A-5010	Marine removal of temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d								
			10		1	1.00		11.	ry reclamation (Zone	J)				
A-5020	D-Wall vertical cutting (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall v	ertical cutting (Qty	: 20 pcs.)					
A-5030	D-Wall horizontal cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	norizontal cutting (Qty: 26 pcs,)					
Stage 13 - Ph	nase 3 Mooring				-									
A-5050	Final trimming of sea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Final trin	ming of sea bed le	evel					
A-5060	Phase 3 Mooring	7d/wk-2	6d	06-Nov-14 08	11-Nov-14 18	-347d	Phase 3	Mooring						
A-5040	Reinstatement of exisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d			g seawall (Zones I &	0				
Stano 12 - Ro	e-provisioning of Jetty			11 1101 1 1,00	11.11011.11.10	ood	- realise	arement of existing	g souwall (201153 1 a	5)	-			
								1.						
S6_5258	Provision of Mobile Crane (until permanent re-provision of Jetty is completed)	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d	1	Provision of Mo	bile Crane (until per	manent re-prov	ision of Jetty is c	ompleted)		
A-6010	BA8 submission and consent for commencement of superstructure	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submiss	ion and consent fo	r commencement of	superstructure				
Actual W Remainin	verel of Effort /ork ng Work Remaining Work		y Pass -	gineering (Hong Tunnel (Cause AMME REV.		hoon Sh	26-	Pre Date Sep 1st submis	epared by William Ca Revision sion	Checked Ap	proved	中國連禁工 CHINA STATE CONSTRU		

y ID	Activity Name		Calendar	Original	Start	Finish	Total					2015				2016	
A-6012	Dubatiesian of an			Duration			Float	Q4		Q1	Q2	Q3		Q4	Q1	Q2	Q3
A-0012	Submission of pe	nformance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submis	ssion of p	erformance	report	1	-				
A-6020	floating portoon	ng platform for jetty beams and reinstate the	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	Ere	ction of v	vorking platfo	orm for jetty bean	is and reinstate	the floating	g portoon			
A-6040	BA10 submission	for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BAT	10 submi	ssion for aut	horized signatory	and subcontract	tor				
A-6030	Jetty beams cons	struction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d		Jetty bea	ms construct	ion						
A-6052	Construction of f	oating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Constr	uction of floa	ting pontoon	it to a	1				
A-6050	BA13 submission	+ 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	-	BA	3 submission	n + 14-day cube t	est results					-
A-6060	E&M and access	ories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d	1	E E8	M and acce	ssories installatio	n. :					-
A-6070	Handover to RHI	KYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d		На	andover to R	HKYC		1				
Stage 11 - C	Construction of TZ4					-			-		-				-	1	_
A-6080	South side - layin	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	South side	- laying r	ockfill and lev	velling stone (Qt	r. 1,550 cu.m)					
A-6090	South side - insta	II seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Oct-14 18	-339d	1.000	121		ks (Qty: 255 nos	-					
A-7000	South side - gene	eral fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Oct-14 08	13-Oct-14 18	-339d	South side	e - gener	ral fill (Qty: 2	,000 cu.m.)						
A-7010	North side - laying	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North	side - la	ying rockfill a	nd levelling stone	(Qty: 1,550 cu	.m)				
A-7020	North side - instal	Il seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	Nort	h side - i	nstall seawal	blocks (Qty: 255	nos.)					
A-7030	North side - gene	eral fill (Qty.2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 Nort	th side -	general fill (C	ty:2.000 cu.m.)						
A-7040	Handover to cont	trad TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Han	dover to	contract TS	3/SR8						i.
TS4/ME4, Re	emoval of Tempora	ry Reclamation					-	1	-								
S26875			-					1			1	1					
		ction 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mpletion	of Section 2	(With ME4 optio	n) (KD7)	÷.			3	
S26890	Completion of Se	ction 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mpletion	of Section 7	B (ME4) (KD13)					1	
rs4 - OHVD	/ Cable Trough						-	1	-				-	_	-		
S5_6185	TS4 (incl. TS4+) opening at TZ4)	- OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d			TS4 (in	d. TS4+) - OHVE	Slab - Area C	(access thr	ough temp	o. opening at TZ4)		
S5_6190	TS4 (incl. TS4+) - at TZ4)	- Cable Trough (access through temp. opening	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d			(C)	TS4 (ind. T	S4+) - Cable T	rough (acco	ess throug	h temp, opening at	TZ4)	1000
S5_59850	1.00- 1.0- 1.0	ction 5 - TS4/ME4 Area (KD10), below	7d/wk-2	0d		02-Nov-15 18*	b0						1		etion of Section 5 -	1	KD10), below -20n
orks in T		(Portion 20A, 20B)					-						-	_	-		
Removal of	Temporary Recla	mation						1	_	-		1		_	1		1
								1		_			-1-			1	
Removal of	Temporary Reclam	ation & Form TZ5						1								1	10000
S87670	Remove general	fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove g	eneral fill	/sea wall blo	ock						
S67675	Diaphragm wall s	aw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d	Diaphrag	ım wall sı	aw cutting (1	st D Wall cut on 2	3 Jun 2014)	1				
S67755	Form TZ5		7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d	Form TZ	5							1	-
Summa	ary Bar	3 of 18					1	1		Dr	epared by Willian	Caluza		-		1	
	Level of Effort								Date	- Ci	Revision		Approved	ī			
Actual V		China Stat	e Construc	tion Eng	ineering (Hong	Kong) Ltd			26-Sep.	., 1st submis	ssion			-		- 30/=	1200-
	ning Work	Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel (Cause	way Bay Typi	noon She	Iter Section)		-		-		SUED			。) 有限公司 NG (HONG KONG) LTD.
Critical I	Remaining Work					19 11 19 10 11 11		a seattle of	-					- Contract	CHINA SIAIL CORST	OCTION ENGINEER	NO HONG KONG LID.

		Calendar	Original Duration	Start	Finish	Float			2	015		1.000	2016	
S67685	Achievement of KD5	7d/wk-2	Od		10.0-1 (1.10		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Con the		TU/WK-2	ua		16-Oct-14 18	-323d	Achievemen	n of KD5	E.					
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	Od		27-Oct-14 18	-322d	Complete	Reinstatement of	Vertical Seawall (n	ear PRE Office)				
Reinstate M	lucking Out Access Shaft "C"		~		-	-			-		-		-	
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	Od	26-Mar-16 08	1	-102d								1
S67225	works) Cest slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d							 Start reinstaten 	
S67230	Removal of vertical shaft and backfilling		_	1.1.1.1.1.1.1		1.000			1				Cast slab o	pening at top of
		6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d							R	emoval of verti
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d			1				-	Reinstatement
TPCWAE - O	HVD / Cable Trough			line	1									
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od				-	TPCWA	- Cable Troug	access through te	mp. opening at
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od						1.000	T Area A (access t	
S5_59840	opening at TZ5 & Portion 19) Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od		02-Nov-15 18*	Dd						1.000	. P	
	-20mPD	· stor a			02-1404-10 10	Uu					Completi	dn of Section 5 -	TPCWAE Area (KI	010), below -20
Works in T	PCWAW A rea							1	1				1	1
TPCWAW - T	Temporary Reclamation		-				1						1	
Temporary F	Reclamation -						1						-	
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	TPCWAW.	niaca lovelline el	one and tamping, S	auth aide				
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569		100										1	
	nos. @ 50 nos/day)	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d	TPCWAV	V - place seawali	block to +4 at South	t side (Qty: 569 nos	s. @ 50 nos/day)			
S6_9465	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d	TPCWA	W - place levelli	ng stone and tampir	ng, North side				
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d	TPC	NAW - place sea	wall blocks to +4 No	orth side (Qty:672 n	os @ 50 nos/day	13		
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d	TP	CWAW - Genera	i fill to +2 within the	seawall				
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d		PCWAW - place :	seawali blocks to +4	at the temporary of	nenina			
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall.	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d								
			100	55 500 14 60	10-000-14-10	-1220	-	FGVVAVV - Ren	naining General fill to	o +4 within the seav	waii			
IPC WAW - D	Diaphragm Wall													1
Diaphragm V	Wall						1		1				1	1
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d		Site invest	igation					
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d		Install gu	ide wall					
S6_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d			1					
56_9382	Set up bentonite silo/plants and equipments								grout along propose					1
		7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d		Set up ber	itonite silo/plants an	d equipments				1
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d			Diaphragm w	vall construction (34	panels @ 3 pane	ls/ week)		
S6_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install shea	ar pins on diaphragi	m wall			
Summar	ry Bar 4 of 18				-	1	1.0	P	repared by William	Caluza	-		1	1
	evel of Effort	Construe	tion Eng	incentes (Lles	- Kanal I M			Date	Revision	Checked App	roved			
Actual W	vork			ineering (Hon				Sep 1st submi	ssion		0.00	古雨津 知	工程(春港)	2-10 -11=
	ing Work Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel (Caus	eway Bay Typh	hoon Shel	ter Section)			-			工程(音·志)·	
	Remaining Work	NORKER	BOOD										and a real for the second s	TOTO NOTO LI
 Mileston 	le V	WORAS P	RUGR	AMME REV										

/ity ID	Activity Name		Calendar		Start	Finish	Total			-		2015	-			2016	
S6_9355	Install king posts		7d/wk-1	Duration 40d	14-Mar-15 08	26-Apr-15 18	-133d	Q4	Q	21	Q2		Q3	Q4	Q1	Q2	Q3
S6_8970	Diaphragm Wall F	Ma And						1		_	Instal	king posts					1
			7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d			-	Diap	hragm Wal	Il Pile test				
S6_9375	Carry out contact/fissure grouting		7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d	1		-	Carry	out contact/	fissure groutin	g			
TPCWAW-E	LS Works							1									-
ELS Works								1		-		1		62.1		-	
S6_9360	Install dewatering	wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d			-	🔳 Install (dewatering	wells and piez	ometers			1
S6_9365	i Install indinometers inside D-wall		7d/wk-1	Wwk-1 20d 15-Apr-15 08 05-May-15 18 -141d			Install inclinometers inside D-wall										
S6_8975	Carry out pumping tests		7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d		Carry out pumping tests								
S6_8980			7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d			1							
S6 9260			7d/wk-1	1d		1.000		11	1st Layer - D Wall conclover break if any & Soft Excavation								
S6_8985					06-May-15 08	06-May-15 18	-137d	1 i i	I Submit pumping test report								
		1	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			1st Layer - install lateral support							
S6_8990	0 Install vibrating wire strain gauge		7.d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			Install vibrating wire strain gauge							
S6_8995	2nd Layer - D Wa	I conclover break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d					2nd Layer	- D Wall conc	over break i	f any & Soft Excava	ation	
S6_9000	2nd Layer - install	lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d	1		1		2nd Laye	er - install later	al support			
S6_9005	3rd Layer - D Wal	I conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d	1111				3rd Laye	er - D Wall cor	c over brea	k if any & Soft Exca	avation	
S6_9010	3rd Layer - install	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d	1				B 3rd La	yer - install lat	eral support				
S6_9015	4th Layer - D Wal	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d					a 4th La	iyer - D Wall d	onc over bre	eak if any & Soft Ex	xcavation		
S6_9020	0 4th Layer - install lateral support		7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d					📫 4th	Layer - install	lateral suppo	ort		
S6_9025	S6_9025 5th Layer - D Wall conc over break if any & Soft Excavation		7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d					5th	Layer - D W	all conc over	break if any & Sof	ft Excavation	
S6_9030 5th Layer - install lateral support		7d/wk-1	10d	27-Jun-15 08	07-Jul-15 18	-141d	1					Layer - instal		- C - C - C - C - C - C - C - C - C - C	1		
S6_9035	035 6th Layer - D Wall conc over break if any & Soft Excavation		7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			10.0		1	Sec. 1		ver break if any & S	Coll Composition	
S6_9040			7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			0.00			6th Layer - in			Solt Excavation	10.0
TPCWAW - R	OCK EXCAVATION	J			100000					-		1.7	our Layer - I	stall lateral t	ырроп		i.
S6_6180	Rock excavation to		dalate a l										1		1.1.1		
			7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d	1				-	-		k excavation to for		ł
S6_9370	Portion 11)	hor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d					-	Install tie	back anchor	to D- Walls (area (on west side, near F	ortion 11)
S6_9415	Install tie back and	hor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d						Install tie b	ack anchor t	o D- Walls (east ar	rea)	
S6_9055	Provide Access to Portion 11	WDII Contractor for demolition of bulkhead at	7d/wk-2	Dd		10-Nov-15 18	-133d			1				Prov	vide Access to WD	II Contractor for der	nolition of bul
TPCWAW- CO	CT RC Structure					-				1		-					
TPOWAW-C	CT / OHVD						-		-	-		_					
Summar	ry Bar	5 of 18						-1		Brops	rod below	iam Caluza		-			
	evel of Effort	China Chat	Constant	tion East	incode - //	Kanatitat			Date	R	evision		ecked Appro	ved			
Actual W		the state of the state of the			ineering (Hon				26-Sep 1s	t submission	1		_	Date	क्रांत्र क्रांत क	大理(家选	3-10-1
	ing Work	Contract No. HY/2009/15 - Central W	an Chai B	Pass -	Tunnel (Cause	eway Bay Typh	oon Shelt	er Section)		-		-		eSiles		與工程(喜港)	
 Mileston 	Remaining Work				AMME REV.	10.0											

N ID	Activity Name		Original		Finish	Total Float	and the second			2016				
S6_9070	TPCWAW Construct tunnel base slab	7d/wk-1	50d	23-Oct-15 08	11-Dec-15 18	-141d	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
												TPCWAW Constr	uct tunnel base slab	
S6_9075	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d		1				TPCW/	W Construct tunne	wall + OHVD +
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (ind. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d		1				TP	WAW - external w	aterproofing or
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d						TF	WAW King post la	ad transfer
TPCWAW - R	Removal of Temporary Reclamation			-						1	_			
Removal of	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d	1					_		
S6_9105	11 (concurrent activities) Remove general fill/ seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08				1					Backfilling/Remova	
				C. L. CONTRACTOR	30-Mar-16 18	-120d		1					Remove genera	fill/ seawall bloc
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d						1 1	Saw	cut diaphragm w
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	0d		23-May-16 18	-121d		1					Comp	etion of Section
TPCWAW -C	able Trough/ Maintenance Walkway													
S6_9085	TPCWAW - Cable Trough (access through temp. opening at	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d		1					TPCWAW - Cab	e Trough (accer
S6_9135	Portion 19) Completion of Section 5 - TPCWAW Area (KD10), below	7d/wk-2	b0		25-Mar-16 18	-144d		1					Completion of Se	
Worke in W	-20mPD Van Chai PCWA (Portion 11)		-	-		1		1					Completion of de	cion 3 - TPC W
	and succession of the same													
Initial Works	& Utilities Works												1	
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation of	Hoarding						
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock moun	ď					
S4_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry ou	Site Investigation for	r BW1/BW2					
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	0d		07-Nov-14 18	-61d	◆ BW1/B	V2 Engineers confirm	nation of provisio	nal Parrettes				
Allow Acces	s to WDII				Participant of Party									
S4_2785							1							
	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	0d		10-Nov-15 18	-132d	1				 Comp 	ete Section 4 - Pol	rtion 11 (KD9)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	b0		10-Nov-15 18	-129d					Return	Portion 11 to WD	0	
Norks for I	Mined Tunnel (Portion 16, 17, 18)											1	1	
SR8 (Tunnel	Excavation + Lining)						1					-		
From West (TPCWAE)												-	
Heading Ex	cavation (2d/m, 24h/day work shift, 7d/week, no work on statut	ory holiday)	_			_	1							
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m		404		00.0			in a south		and the second				
	@2d/m	7d/wk-1a	16d	03-Sep-14 08 A	20-Sep-14 18	164d	SR8 Heading E	cavation From West	, CH 4095- 410	7 = 8m @2d/m				
Bench Exca	avation (1.5d-2d/m, 20m separation with heading)													
A8700	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 Exca	vation From West, C	H 4055- 4065 =	10m			1	
Summar Actual L Actual V	evel of Effort China Sta			jineering (Hong			26		ared by William Revision on	Caluza Checked Appro	oved	中國還算	工程(香港)纬	计阻公司

SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	Duration			Float	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q
			05 0	10.000	1261	
the second se	/ d/w/e-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SR8 Bench Excavation From West, CH 4065- 4075 = 10m
SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-0d-14 08	04-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4075- 4085 = 10m
SR8 Bench Excavation From West, CH 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
SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d	SRB Bench Excavation From West, CH:4095- 4100 = 5m
S4)					1	
avation (2d/m, 24h/day work shift, 7d/week, no work on statut	ory holiday)	_				
		164	15-Sep-14 08 A	28-Sep.14.18	104	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m
@2d/m	10/00-14	100	10-06p-14 00 A	20-36p-14-10	100	Sto reading Extavation From East Chief 15- 4107 - on (220/n
vation (1.5d/m, 20m separation with heading)						
A8455 SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m		19d	20-Sep-14 08	09-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m
SR8 Bench Excavation From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4135- 4125 = 10m
SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	Od	SR8 Bench Excavation From East, CH 4125- 4115 = 10m
SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	Od	SR\$ Bench Excavation From East, CH 4115- 4100 = 15m
a Works				1	1	
	-1				_	
SR8, From West, CH 4015 - 4025 = 10m/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
SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab
SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d	SR8, From West, CH 4035 - 4045 = 10m/bay, base slab
SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d	SR8, From West, CH 4045 + 4055 = 10m/bay, base slab
SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a	8d	05-Nov-14 08	12-Nov-14 18	160d	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab
SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d	SR\$, From West, CH 4065 - 4075 = 10m/bay, base slab.
	70/44/- 10	80	05-Dec-14.08	12-Dec-14.18	1484	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab
SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18		SR8, From West, CH 4085 - 4095 = 10m/bay, base slab
SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab
SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab
- Lining (5m/bay, 10m separation with base slab)	-					
SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From West, CH 3995 - 4000 = 1bay, lining
	7d/wk-1a	9d	05-Oct-14 08	13-Oct-14 18	137d	SR8, From West, CH 4000 - 4005 = 1bay, Ining
						SR8, From /West, CH 4005 - 4010 = 1bay, Ining
SR8, From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d	SR8, From West, CH 4010 - 4015 = 1bay, Ining
y Bar 7 of 18						Prepared by William Caluza
evel of Effort China Sta	ate Constru	ction En	gineering (Hor	ig Kong) Ltd		Date Revision Checked Approved 26-Sep 1st submission
Vork Contract No. HY/2009/15 - Central	Wan Chai F	Ny Dane	Tunnel / Caur	oway Ray Tur	hoon Sh	中國運幕工程(春港)有限
A REAL PROPERTY OF A REAL PROPER	wan Ghai E	by Pass -	runnel (caus	eway day iyp	nuon an	helter Section)
	4) Avaion (20/m, 24h/day work shift, 70/week, no work on status SR8 Heading Excavation From East CH 4115- 4107 = 8m (@2d/m ation (1.5d/m, 20m separation with heading) SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m SR8 Bench Excavation From East, CH 4125- 4115 = 10m SR8 Bench Excavation From East, CH 4125- 4115 = 10m SR8 Bench Excavation From East, CH 4115- 4100 = 15m Works Base Slab (10m/bay, 10m separation with benching excavation SR8, From West, CH 4015 - 4025 = 10m/bay, base slab SR8, From West, CH 4025 - 4035 = 10m/bay, base slab SR8, From West, CH 4025 - 4035 = 10m/bay, base slab SR8, From West, CH 4055 - 4065 = 10m/bay, base slab SR8, From West, CH 4065 - 4075 = 10m/bay, base slab SR8, From West, CH 4065 - 4075 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4085 - 4095 = 10m/bay, base slab SR8, From West, CH 4095 - 4105 = 10m/bay, base slab SR8, From West, CH 4095 - 4105 = 10m/bay, base slab SR8, From West, CH 4095 - 4006 = 1bay, lining SR8, From West, CH 4000 - 4005 = 1bay, lining SR8, From West, CH 4000 - 4005 = 1bay, lining SR8, From West, CH 4000 - 4005 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4005 - 4010 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West, CH 4010 - 4015 = 1bay, lining SR8, From West	4) avation (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday) SR8 Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a @2d/m 7d/wk-1a ation (1.5d/m, 20m separation with hoading) 3 SR8 Bench Excavation From East, CH 4115- 4135 = 12.5m 7d/wk-1a SR8 Bench Excavation From East, CH 4135- 4125 = 10m 7d/wk-1a SR8 Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a SR8 Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a Works 3 3 Base Slab (10m/bay, 10m separation with benching excavation) 3 SR8, From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4025 - 4035 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 4055 - 4095 = 10m/bay, base slab 7d/wk-1a SR8, From West, CH 405 - 4115 = 10m/bay, base slab 7d/wk-1a	4) Protection (2d/m, 24h/day work shift, 7d/week, no work on statutory holiday) SR8 Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a 16d @2d/m ation (1.5d/m, 20m separation with heading) SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m 7d/wk-1a 19d SR8 Bench Excavation From East, CH 4135- 4125 = 10m 7d/wk-1a 15d SR8 Bench Excavation From East, CH 4135- 4125 = 10m 7d/wk-1a 15d SR8 Bench Excavation From East, CH 4125- 4115 = 10m 7d/wk-1a 23d Works Ease State (10m/bay, 10m separation with benching excavation) SR8, From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d SR8, From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4035 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4055 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4095 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4015 = 10m/bay, base slab 7d/wk-1a 8d SR8, From West, CH 405 - 4015 = 10m/bay, base slab 7d/wk-1a 9d SR8, From West, CH 405 - 4010 = 1bay, Ining 7d/wk-1a 9d SR8, From W	4) SR8 Heading Exavation From East CH 4115- 4107 = 8m 7d/wk-1a 16d 15-Sep-14 08 A g2dm ation (1.5d/m, 20m separation with heading) 19d 20-Sep-14 08 A SR8 Bench Excavation From East, CH 4135- 4135 = 12.5m 7d/wk-1a 19d 20-Sep-14 08 A SR8 Bench Excavation From East, CH 4135- 4125 = 10m 7d/wk-1a 15d 10-Oct-14 08 A SR8 Bench Excavation From East, CH 4135- 4125 = 10m 7d/wk-1a 15d 25-Oct-14 08 A SR8 Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a 15d 25-Oct-14 08 A SR8 Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a 10d 15-Sep-14 08 A Works SR8 From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d 05-Oct-14 08 A SR8, From West, CH 4055 - 4035 = 10m/bay, base slab 7d/wk-1a 8d 15-Oct-14 08 A SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 05-Nov-14 08 A SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 05-Nov-14 08 A SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 05-Nov-14 08 A SR8, From West, CH 4055 - 4055 = 10m/bay, base slab <t< td=""><td>Alg Available (20/m, 24h/day work shift, 72/week, no work on statutory holiday) SR8 Heading Excavation From East CH 4115-4107 = 8m 7d/wk-1a 15d 15-Sep-14.08 A 28-Sep-14.18 Stein (75/stm, 20m separation with heading) SR8 Bench Excavation From East, CH 4115-4107 = 8m 7d/wk-1a 19d 20-Sep-14.08 09-Oct-14.18 SR8 Bench Excavation From East, CH 4125-4135 = 12.5m 7d/wk-1a 15d 10-Oct-14.08 24-Oct-14.18 SR8 Bench Excavation From East, CH 4125-4115 = 10m 7d/wk-1a 15d 09-Nov-14.08 04-Oct-14.18 SR8 Bench Excavation From East, CH 4115-4100 = 15m 7d/wk-1a 2d 09-Nov-14.08 04-Oct-14.18 SR8 From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d 15-Sep-14.08.4 04-Oct-14.18 SR8, From West, CH 4025 - 4035 = 10m/bay, base slab 7d/wk-1a 8d 15-Oct-14.08 12-Oct-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 25-Nov-14.08 12-Nov-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 05-Nov-14.08 12-Nov-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab</td><td>And Notation (2d/m, 24hday work shift, 7d/wesk, no work on statutory holiday) Statutory holiday StRP Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a 16d 15-Sep-14.08.A 28-Sep-14.18 10d StRP Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a 19d 20-Sep-14.08.A 28-Sep-14.18 0d StR Bench Excavation From East CH 4125- 4115 = 10m 7d/wk-1a 15d 10-Oct-14.08 24-Oct-14.18 0d StR Bench Excavation From East, CH 4125- 4115 = 10m 7d/wk-1a 15d 25-Oct-14.08 08-Nov-14.18 0d StR Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a 15d 25-Oct-14.08 04-Oct-14.18 0d Works Ease Slab [10m/bay, 16m separation with benching excavation] StR.From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d 05-Oct-14.08 14-Oct-14.18 137d StR.From West, CH 4045 - 4055 = 10m/bay, base slab 7d/wk-1a 10d 05-Oct-14.08 24-Oct-14.18 165d StR.From West, CH 4045 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 15-Oct-14.08 24-Oct-14.18 165d StR.From West, CH 4055 - 405</td></t<>	Alg Available (20/m, 24h/day work shift, 72/week, no work on statutory holiday) SR8 Heading Excavation From East CH 4115-4107 = 8m 7d/wk-1a 15d 15-Sep-14.08 A 28-Sep-14.18 Stein (75/stm, 20m separation with heading) SR8 Bench Excavation From East, CH 4115-4107 = 8m 7d/wk-1a 19d 20-Sep-14.08 09-Oct-14.18 SR8 Bench Excavation From East, CH 4125-4135 = 12.5m 7d/wk-1a 15d 10-Oct-14.08 24-Oct-14.18 SR8 Bench Excavation From East, CH 4125-4115 = 10m 7d/wk-1a 15d 09-Nov-14.08 04-Oct-14.18 SR8 Bench Excavation From East, CH 4115-4100 = 15m 7d/wk-1a 2d 09-Nov-14.08 04-Oct-14.18 SR8 From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d 15-Sep-14.08.4 04-Oct-14.18 SR8, From West, CH 4025 - 4035 = 10m/bay, base slab 7d/wk-1a 8d 15-Oct-14.08 12-Oct-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 25-Nov-14.08 12-Nov-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 05-Nov-14.08 12-Nov-14.18 SR8, From West, CH 4055 - 4055 = 10m/bay, base slab	And Notation (2d/m, 24hday work shift, 7d/wesk, no work on statutory holiday) Statutory holiday StRP Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a 16d 15-Sep-14.08.A 28-Sep-14.18 10d StRP Heading Excavation From East CH 4115- 4107 = 8m 7d/wk-1a 19d 20-Sep-14.08.A 28-Sep-14.18 0d StR Bench Excavation From East CH 4125- 4115 = 10m 7d/wk-1a 15d 10-Oct-14.08 24-Oct-14.18 0d StR Bench Excavation From East, CH 4125- 4115 = 10m 7d/wk-1a 15d 25-Oct-14.08 08-Nov-14.18 0d StR Bench Excavation From East, CH 4115- 4100 = 15m 7d/wk-1a 15d 25-Oct-14.08 04-Oct-14.18 0d Works Ease Slab [10m/bay, 16m separation with benching excavation] StR.From West, CH 4015 - 4025 = 10m/bay, base slab 7d/wk-1a 10d 05-Oct-14.08 14-Oct-14.18 137d StR.From West, CH 4045 - 4055 = 10m/bay, base slab 7d/wk-1a 10d 05-Oct-14.08 24-Oct-14.18 165d StR.From West, CH 4045 - 4055 = 10m/bay, base slab 7d/wk-1a 8d 15-Oct-14.08 24-Oct-14.18 165d StR.From West, CH 4055 - 405

D	Activity Name		Calendar	Original	Start	Finish	Total		-	21	015		-		2016	_
A8595	SPR From Work C		746.4.4.	Duration			Float	Q4	Q1	Q2	Q3		Q4	Q1	Q2	Q3
1100 L	SR8, From West, C	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	SR8, Fr	om West, CH 4015	i - 4020 = 1bay, lin	ining					
A8600	SR8, From West, C	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	SR8, F	rom West, CH 402	20 - 4025 = 1bay,	lining			11.11		
A8605	SR8, From West, C	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d	SR8,	From West, CH 40	025 - 4030 = 1bay	y, lining					
A8610	SR8, From West, C	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	SR8	From West, CH 4	1030 - 4035 = 1br	ay, lining					
A8615	SR8, From West, C	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	I SR	B, From West, CH	4035 - 4040 = 1b	bay, lining					
A8620	SR8, From West, C	CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d	I SF	8, From West, CH	1 4040 - 4045 = 1	bay, lining					
A8625	SR8, From West, C	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d	1 S	R8, From West, Ci	H 4045 - 4050 =	1bay, lining					
A8630	SR8, From West, C	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d		SR8, From West, C	CH 4050 - 4055 =	= 1bay, lining					
A8635	SR8, From West, C	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d		SR8, From West,	CH 4055 - 4060	= 1bay, lining					
A8640	SR8, From West, C	CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From West,	I, CH 4060 - 4065	5 = 1bay, lining					
A8645	SR8, From West, C	CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From Wes	st, CH 4065 - 401	70 = 1bay, lining					
A8647	SR8, From West, C	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From We	est, CH 4070 - 40	075 = 1bay, linin					
A8648	SR8, From West, C	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From W	Vest, CH 4075 - 4	1080 = 1bay, linir	ng				
A8649	SR8, From West, C	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From V	West, CH 4080 - 4	4085 = 1bay, lin	ing		1		
A8651	SR8, From West, C	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, From	West, CH 4085 -	- 4090 = 1bay, li	gning				
A8652	SR8, From West, C	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d		SR8, From	n West, CH 4090	- 4095 = 1bay,	lining				
A8653	SR8, From West, C	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		SR8, Fro	m West, CH 4095	5 - 4100 = 1bay	lining				
A8654	SR8, From West, C	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		SR8, Fre	om West, CH 410	00 - 4105 = 1ba	, lining		1		
From East -	Base Slab (10m/bay	y, 10m separation with benching excavat	ion)	-									_			
A9775	SR8 From East, C	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	Od	s s	R8 From East, CH	4 4149,5- 4145 =	4.5m, base slat	,				
A9780	SR8 From East, C	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	Od		SR8 From East, C	CH 4145 - 4135 =	10m/bay, base	slab				
A9785	SR8 From East, C	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From East,							i.
A9786	SR8 From East, C	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d			a, CH 4125 - 411		E.				
From East -	Linung (Sm/bay, 10m	m separation willi base slab)									1					-
A9820		H 4149.5 - 4145 = 4.5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	Dd		From East, SR8 C	CH 4149 5 - 4145	= 4.5m 1 bay I	nind				
A9815		H 4145 - 4140 = 1bay, lining	7d/wk-1a	1	23-Dec-14 08	28-Dec-14 18	6d		From East, SR8							
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	1	29-Dec-14 08	03-Jan-15 18	6d	1	From East, SR					1		
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	1.1.1	04-Jan-15 08	08-Jan-15 18	6d		From East, SR							1
Conserved States	From Eday on o Cr	CLICE THE INSY MILLY	, univer la	50	01-040-10 00		WW I		- FIOIR Edou OR	0.51141554415	inelt minig	2.1	-	-	_	
-		8 of 18						-	Pro	epared by William	Caluza		_			
Actual L	ry Bar evel of Effort	and the second se			the second s				Date	Revision	Checked	Approved				
Actual V		China S	State Constru	ction Eng	gineering (Hor	ig Kong) Ltd		26-	Sep 1st submiss	sion			-		- 39 / 3E Set \s	
	ing Work	Contract No. HY/2009/15 - Centra	al Wan Chai B	v Pass -	Tunnel (Caus	eway Bay Typ	hoon Shelter Sec	tion)				-	salies	中國連票工 CHINA STATE CONSTINUE		
	Remaining Work										-		No. of Lot of Lo	CHINA SIAR CONSTRUC	THUN ENGINEERING	OUCH RONG) []
			WORKS	ROGR	AMME REV	M		-			-					
Mileston	0															

ity ID	Activity Name		Calendar	Original	Start	Finish	Total		1.	-	2015	-		2016	
40870	From Fact ODA OT	00 4405 46 F.		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A9870	From East, SR8 CH 41	30 - 4125 = 1bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	6d	1	From East, S	SR8 CH 4130 - 4	125 = 1bay, lining			1	
A9800	From East, SR8 CH 41	25 - 4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d	1.1.1	From East,	SR8 CH 4125 - 4	120 = 1bay, lining				
A9860	From East, SR8 CH 41	20 - 4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d		From East	SR8 CH 4120 -	4115 = 1bay, lining				
A9855	From East, SR8 CH 41	15 - 4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d		1 From Eas	st, SR8 CH 4115	4110 = 1bay, lining				
A9850	From East, SR8 CH 41	10 - 4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d	1	1.00007	1	- 4105 = 1bay, lining				
OHVD(10m	n/bay) / Utility Trough				1.000 0.0			1			in the second se		-		
A8570	SR8 Tunnel OHVD and	utility trough =, 167= 17 bays @	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d		-	-	SR8 Tunnel OHVD an	d utility troug	b - 167- 17 hour 6	0 10-the @ 7/the	
EB Outer Tu	10m/bay @ 7d/bay		1.54125.5			The sector of				-	and runner of the un	a adiny troag	IT - TOT - TY Days (g Torribay @ Torbay	
From West							_	1	_			_			
_		A8				_		0		1					
		n, 20m separation with heading)							1.1	1					
A9550	EB, Outer Bench From	West, CH 4035- 4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	EB, Outer I	Bench From West,	CH 4035- 4045	= 10m				
A9555	EB, Outer Bench From	West, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	EB, Ou	ter Bench From W	Vest, CH 4045- 40	955 = 10m (2d/m)				
A9560	EB, Outer Bench From	West, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d	EB.	Outer Bench From	m West, CH 4055	5- 4065 = 10m (2d/m)				
A9565	EB, Outer Bench From	West, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d	-	EB, Outer Bench	From West, CH	4065- 4075 = 10m (2d/i	n)			
A9520	EB, Outer Bench From	West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Outer Be	ench From West,	CH 4075- 4085 = 10m	(2d/m)			
A9545	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		EB, Outer	Bench From We	st, CH 4085- 4095 = 10	Im 1.5d/m)			
From East ((TS4)						-			1			-		
Outer Ben	ch Excavation (1.5d-2d/m	, 20m separation with heading)		-			-	-		1			_		
A9605		East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d			1					
									uter Bench From						
A9610		East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d	- E	B, Outer Bench Fr	rom East, CH 414	5+ 4135 = 10m (2d/m)				
A9615	EB, Outer Bench From	East, CH 4135- 4125 = 10m (2d/m)	7d/wk-ta	20d	09-Dec-14 08	29-Dec-14 18	120d		EB, Outer Bend	ch From East, CH	4135- 4125 = 10m (2d	/m)			
A9620	EB, Outer Bench From	East, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Outer B	Bench From East	CH 4125- 4115 = 10m	(2d/m)			
A9625	EB, Outer Bench From	East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d		EB, Ou	iter Bench From I	East, CH 4115- 4105 =	10m (2d/m)			
A9630	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		EB,	Outer Bench Fro	om East, CH 4105- 409	5 = 10m (1.5	id/m)		
EB (Inner Tu	unnel Excavation + Linin	ng)													
From West	(TPCWAE)							1		1					
Inner Head	ding Excavation (2d/m, 24	hiday work shift, 7d/week, no work on	statutory holi	day)		-	-	1		1			-		
A8805	EB,Inner Heading From	West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB.Inne	r Heading From V	Vest, CH 3992- 4	005 = 13m @3d/m				
	EB,Inner Heading From	West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od			1)5- 4015 = 10m @2d/m				
A8815									1	1	2	-		L	
	lo -	10							Date	epared by Willian Revision	Caluza Checked Approv	/ed			
Summa															
Summa	Level of Effort	China St	ate Construc	tion Eng	gineering (Hon	g Kong) Ltd		26	-Sep 1st submis			-			-
Summa Actual L	Level of Effort Work						hoon Shel	-	-Sep 1st submis			PDC		工程(吾港)家	
Summa Actual I Actual \ Remain	Level of Effort Work	China St ontract No, HY/2009/15 - Central					hoon Shel	-	-Sep 1st submis			CSDEc		工程(吾·苯)寻 RUCTION ENGINEERING @	

ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015 2016
A8820	EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	7d/wk-1a		28-Nov-14 08	17-Dec-14 18	0d	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Image: EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m Q3 Q4 Q1 Q2 Q3 Q3 Q4 Q4
A8780	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	18-Dec-14 08	08-Jan-15 18	Od	
A8810	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a					EBInner Heading From West, CH 4025- 4035 = 10m @2d/m
A8785	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	_	20d	09-Jan-15 08	28-Jan-15 18	Od	EB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m
A8790		7d/wk-1a		29-Jan-15 08	17-Feb-15 18	Od	EB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m
	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	18-Feb-15 08	12-Mar-15 18	0d	EB.Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m
A8795	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	13-Mar-15 08	01-Apr-15 18	0d	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	02-Apr-15 08	22-Apr-15 18	0d	EB.Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m
A8825	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d	23-Apr-15 08	13-May-15 18	0d	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m
Inner Bend	ch Excavation (1.5-2d/m, 20m separation with heading)				-		
A8765	EB, Inner Bench From West, CH 3992- 4005 = 13m (2d/m)	7d/wk-1a	26d	DB-Nov-14 08	03-Dec-14 18	23d	EB Inner Bench From West, CH 3992-4005 = 13m (2d/m)
A8770	EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d	EB, Inner Bench From West, CH 4005- 4015 = 10m;
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d	EB, Inner Bench From West, CH 4015- 4025 = 10m
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d	EB, Inner Bench From West,CH 4025- 4035 ≈ 10m
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d	18-Feb-15 08	07-Mar-15 18	11d	EB, Inner Bench From West,CH 4035- 4045 = 10m
A8745	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d	EB, Inner Bench From West, CH 40/45- 40/55 = 10m
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d	EB, Inner Bench From West,CH 4055- 4065 = 10m
A8755	EB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d	EB, Inner, Bench From West, CH 4065-4075 = 10m
A8760	EB. Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od	
A8761	EB, Inner Bench From West, CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od	EB, Inner Bench From West,CH 4075- 4085 = 10m
rom East (TS4)						EB: Inner Bench From West, CH 4085- 4095 = 10m
Inner Head	ing Excavation (3d/m, 24h/day work shift, 7d/week, no work on s	tatutoru heli	laul		_	_	
A8835	EB Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @			00 1 45 00			
	3d/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	Od	EB,Inner Heading From East, CH 4147,5 to 4145 = 2,5m, @ 3d/m
A8850	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	Od	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m
A8830	EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	Dd	EB,Inner Heading From East, CH 4135- 4125 = 10m @2c/m
A8840	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	Od	EB.Inner Heading From East, CH 4125- 4115 = 10m @2d/m
A9910	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	Dd	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	Dd	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m
nner Benc	h Excavation (1.5d-2d/m, 20m separation with heading)			-			
A8860	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
Summa	ry Bar 10 of 18				-P		Prepared by William Caluza
	evel of Effort China Stat	e Construc	tion Eng	ineering (Hon	a Kona) Ltd		Date Revision Checked Approved
Actual V	VORK						26-Seption 1st submission 中國建築工程(香港) 介限公司
Remain	ing Work Contract No. HY/2009/15 - Central W Remaining Work	an Chai By	Pass -	funnel (Cause	eway Bay Typh	oon Shelter	Section) CHINA STATE CONSTRUCTION BIGINEERING CHONG KONG UTD

and the second
A8865 A8870 A8855 A8875 A8915 Tunnel Lining From West E A8900 A8890	EB,Inner Bench From East, CH 4145- 4135 = 10m EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	Duration 15d 15d 15d	12-Mar-15 08 28-Mar-15 08	26-Mar-15 18	Float 11d	Q4	Q1	Q2 EB,Inner Ben	Q3	Q4	Q1	2016 Q2	Q3
A8870 A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a	15d	1	26-Mar-15 18	110		A DESCRIPTION OF A DESC	EB,Inner Ben	th From East CH 4	145 4135 - 100			
A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		28-Mar-15 08				1111		ant rom cast, arra	140-4100-100			
A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	- COM BY	15d	and the second sec	12-Apr-15 18	10d			EB,Inner E	ench From East, C	H 4135- 4125 = 1	IOm		
A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		18-Apr-15 08	03-May-15 18	5d			EB,Inr	er Bench From Ea	st, CH 4125- 411	5 = 10m		
Tunnel Lining From West E A8900			15d	09-May-15 08	23-May-15 18	Od			E	Inner Bench From	East, CH 4115-	4105 = 10m		
From West E		7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	Od			+	EB,Inner Bench Fr	1			
A8900	g Works	-							-	and the second se		1000 - 1011		
A8900	Base Slab (10m/bay, 10m separation with benching excavat	ion							-		1		1	-
		iony						1.0						
A8890	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d		EB From West,	Base Slab CH 399	0 - 3995 = 1 bay				
	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 C	H 3995 - 4005 = 10	m/bay			
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d		EB Fr	om West, Base Sla	ab CH 4005 - 4015	= 10m/bay			
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	14d			B From West, Bas	e Slab CH 4015 - 4	025 = 10m/bay			
A8915	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 402	5 - 4035 = 10m/b	av		
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d				est, Base Slab CH		2		
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d			1	n West, Base Slab		and a second		
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d								
A8880	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	104						-	rom West, Base Sl				
A8885				20-May-15 08	29-May-15 18	5d			B E	B From West, Base	Slab CH 4065 -	4075 = 10m/bay		
	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d				EB From West, B	ase Slab CH 407	5 - 4085 = 10m/bay		
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	Od			1	EB From West,	Base Slab CH 4	085 - 4095 = 10m/bay		
From East B	ase Slab (10m/bay, 10m separation with benching excavation	on)						1		1	1			
A9905	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 Cl	H 4149.5 - 4145	= 4.5m		
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d			EB F	rom East, Base Sla	b CH 4145 - 413	5 = 10m/bay		
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d				B From East, Base	Slab CH 4135 -	4125 = 10m/bay		
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	Od			1	EB From East, B	ase Slab CH 412	5 - 4115 = 10m/bay		
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Dd			1	1		115 - 4105 = 10m/bay		
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				1	1	4105 - 4095 = 10m/t	E	
Lining (5m/h	ay, 15m separation with base stab)				1				-	CO FIOM Ca		4105 - 4095 = 10000	ау	
									1	1	d			
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d		EB F	rom West, Lining	CH 3990 - 3995 = 1	Ibay			
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d		100 E	B From West, Lini	ng CH 3995 - 4000	= 1bay			
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d			EB From West, Li	ning CH 4000 - 400	05 = 1bay			
Summary	7Bar 11 of 18			-		3			Prepared by Willia	m Caluza	-			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	vel of Effort			and a state				Date	Revision	Checked A	oproved			
Actual We	China	State Construc	tion Eng	ineering (Hon	g Kong) Ltd		26-	-Sep 1st subr	mission				-	
Remainin		al Wan Chai B	Pass -	Tunnel (Cause	eway Bay Typh	oon Shelter	Section)				- CIL	中國運業2		
	emaining Work	a. man ondi Dy		anner (odusi	and bay type	oon oneiter	Jection				PAGED.	CHINA STATE CONSTRU	CTION ENGINEERING (IONG KONC
Milestone		WORKS P	ROGR	AMME REV.	M		-							
 Milestone 		WORKSP	RUGR	AMME REV.	IVI									

Activity Na	lame	Calendar	Original	Start	Finish	Total			201	15			2016	
			Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
50 EB From V	West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d			EB From West, Linir	ng CH 4005 - 4	1010 = 1bay			
55 EB From V	West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West, Lir	ning CH 4010	- 4015 = 1bay			
60 EB From V	West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d		1 3	EB From West	Lining CH 401	5 - 4020 = 1bay			
70 EB From V	1 West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			EB From West	t, Lining CH 40	020 - 4025 = 1bay			
75 EB From \	n West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			EB From We	est, Lining CH	4025 - 4030 = 1bay			
80 EB From \	1 West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			EB From W	Vest, Lining CH	4 4030 - 4035 = 1 bay	,		
85 EB From \	n West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			EB From	West, Lining C	CH 4035 - 4040 = 1ba	ay		
15 EB From V	n West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	5		EB Fron	m West, Lining	CH 4040 - 4045 = 1	bay		
20 EB From \	n West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			EB Fre	om West, Linin	g CH 4045 - 4050 =	1bay		
25 EB From \	n West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			EB F	From West, Lin	ing CH 4050 - 4055	= 1bay		
30 EB From \	n West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d			EB	From West, L	ining CH 4055 - 406	0 = 1bay		
35 EB From	n West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d			• E	B From West,	Lining CH 4060 - 40	065 = 1bay		
140 EB From	n West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West	t, Lining CH 4065 - 4	4070 = 1bay		
45 EB From	n West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od			1 -	EB From W	est, Lining CH 4070	- 4075 = 1bay		
55 EB From	n West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od			1	EB From W	Vest, Lining CH 4075	5 - 4080 = 1bay		
60 EB From	n West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od				EB From	West, Lining CH 408	30 - 4085 = 1bay		
70 EB From	n West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d				EB From	West, Lining CH 40	85 - 4090 = 1bay		
75 EB From	n West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od				EB From	n West, Lining CH 4	090 - 4095 = 1bay		
80 EB From	n West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Dd				EB Fro	m West, Lining CH 4	4095 - 4100 = 1bay		
85 EB From	n West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd				EB Fr	om:West, Lining CH	4100 - 4105 = 1bay		
990 EB From	n West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Dd				EB F	rom West, Lining Cl	H 4105 - 4110 = 1ba	x	
995 EB From	n West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	ł			E EB	From West, Lining C	CH 4110 - 4115 = 16	у	
000 EB From	n West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	Dd				EB	From West, Lining	CH 4115 - 4120 = 1	ay	
010 EB From	n West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od				8 E	B From West, Lining	CH 4120 - 4125 =	bay	
965 EB From	n West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Dd			1		EB From West, Lining	CH 4125 - 4130 =	1bay	
	m West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd					EB From West, Linin	ng CH 4130 - 4135	1bay	
	m West, Lining CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od					EB From West, Lin	ing CH 4135 - 4140	= 1bay	
	m West, Lining CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od					EB From West, Lir			
Con Con Con Con	m West, Lining CH 4145 - 4149.5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Dd					EB From West, L			
		1		11.000		1-244			Prepared by William C					
Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remaining W	Contract No. HY/2009/15 - Cer		y Pass	- Tunnel (Cau	seway Bay Typ	boon Shelter	Sec. Sec. 4	Date 26-Sep 1st subm	Revision	Checked	Approved	中國連禁工 CHINA STATE CONSTRU		
Actual Work Remaining Work	Contract No. HY/2009/15 - Cer	ntral Wan Chai B	y Pass		seway Bay Typ	hoon Shelter	Sec. Sec. 4	26-Sep 1st subm	nission		eSDEc			

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	-	a second second		2015			2016	
OHVD(10m/	(bay) / Utility Troug	ah				-	r Iwas	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
											1 1			1	
A9095	10m/bay @ 7d/ba	HVD and utility trough =, 167= 17 bays @ ay	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od				-	EB Fr	om West OHVD an	d utility trough =, 16	7= 17 bays @ 10
B Outer Iu	innel Excavation									2	1		-	1	
rom West (1	TPCWAE)									1	-		-		
Outer Headi	ing Excavation (2d	ilm, 24h/day work shift, 7d/week, no work or	statutory hol	iday)	-	-	-		-				-	1	-
A9651	WB, Outer Headi 2d/m	ing From West, CH 4085- 4092.5 = 7,5m @	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer He	ading From West,	CH 4085- 4092.5	= 7.5m @ 2d/m			ł	
Outer Bench	h Excavation (1.5d	-2d/m, 20m separation with heading)			1									-	-
A9680	WB, Outer Bench	h From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d	WB, Out	er Bench From We	est, CH 4025- 403	5 = 10m				
A9665	WB, Outer Bench	h From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d	wb, c	Outer Bench From	West, CH 4035- 4	1045 = 10m				
A9670	WB, Outer Bench	h From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	we	B, Outer Bench Fro	om West, CH 404	5- 4055 = 10m			1	
A9675	WB, Outer Bench	h From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d	-	WB, Outer Bench	From West, CH 4	055- 4065 = 10m			1	
A9700	WB, Outer Bench	n From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d		WB, Outer Ben	ch From West, Cl	H 4065- 4075 = 10m				
A9701	WB, Outer Bench	n From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d		WB, Outer B	Bench From West	CH 4075- 4082.5 = 7	.5m		1	
rom East (T	rs4)			••••••						1			-	-	
outer Headi	ing Excavation (2d	i/m, 24h/day work shift, 7d/week, no work or	statutory hol	iday)				1						-	
A9730	WB, Outer Headi @2d/m	ing From East, CH 4105- 4092.5 = 12.5m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer He	ading From East, C	CH 4105- 4092.5	= 12.5m @2d/m			1	
uter Bench	0	-2d/m, 20m separation with heading)	ang talan mananana da		dumun and a	- diama									
A9740	WB, Outer Bench	n From East, CH 4136- 4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	WB, Outer	Bench From East,	CH 4136- 4135 =	1m				
A9770	WB, Outer Bench	n From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	WB, Out	er Bench From Ea	st. CH 4135- 412	5 = 10m				
A9745	WB, Outer Bench	n From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d	we, c	Outer Bench From	East, CH 4125- 4	115 = 10m				
A9750	WB, Outer Bench	n From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d		3, Outer Bench Fro						
A9755	WB, Outer Bench	r From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d	1 5.5	WB, Outer Bench I						
A9760	WB, Outer Bench	From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d	1.1	1	B - 5 - 2 - 2	CH 4095- 4082.5 = 12.5	5m			0
3 (Inner Tu	nnel Excavation +	+ Lining)						1				200		3	
rom West (T								-	-	1				1	
		id/m, 24h/day work shift, 7d/week, no work o	a ctatuton/ha	lidaul				1		1					
A9130		g From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	04		and the state of the						
A9135		g From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a				b0	1			- 4005 = 12m @3d/m				
A9140	The second	g From West, CH 4005- 4015 = 10m @2d/m		20d	19-Nov-14 08	08-Dec-14 18	b0	1			005- 4015 = 10m @2d/			4 *	
	Arbinner Heading		7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d		VVB,Inner Head	ing From West, C	CH 4015- 4025 = 10m (@2d/m			
Summary Actual Le Actual W Remainin	evel of Effort /ork	13 of 18 China Sta Contract No. HY/2009/15 - Central			jineering (Hon Tunnel (Caus		noon She	20	Pr Date 6-Sep 1st submit	repared by William Revision ssion	Caluza Checked Approv	ved		工程(· 来); RUCTION ENGINEERING	
 Critical Ri Milestone 	temaining Work e				AMME REV			-				_	CHINA SIALE COASI	ACCINENT ENGINEERING	anonia konta LID.

	Activity Name	Calendar	Original	Start	Finish	Total			2	015				2016	
40100	WP Inser Linesting From West OU 1005, 1005 - 10 - 00 //-	7.10.1.2	Duration			Float	Q4	Q1	Q2	Q3	Q		Q1	Q2	Q3
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	Od		WB,Inn	r Heading From We	at, CH 4025- 403	5 = 10m @2	d/m	-		
A9105	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	Od		WB	Inner Heading From	West, CH 4035-	4045 = 10m	@2d/m			
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	Od		-	WB,Inner Heading F	rom West, CH 40	045-4055 =	10m @2d	/m		
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	Od			WB,Inner Headir	g From West, C	H 4055- 406	5 = 10m @	D 2d/m		
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	Dd			WB,Inner He	ading From Wes	H 4065-	4075 = 10	m @ 2d/m		
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	Od			1	r Heading From	1				
Inner Bann	ch Excavation (1.5d-2d/m, 20m separation with heading)				or may no no.		_		VVD, mile	r reading From	West, CH 40	075-4065	= 10m @ 20m		
								1.0	1		ŭ.				
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inne	r Bench From West,	CH 3993- 4005 =	= 12m				
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		WB,	nner Bench From We	st, CH 4005- 40	15 = 10m				
A9190	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 Fron	West, CH 4015	5- 4025 = 10r	m			
A9185	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 I	From West, CH 4	1025- 4035 =	= 10m			
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d			WB,Inner Ber	ch From West,	CH 4035- 40	45 = 10m			
A9160	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d				Bench From We		0.000	10m		
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od				nner Bench From					
A9170	WB.Inner Bench From West, CH 4065- 4075 = 10m									1					
		7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od			l w	B,Inner Bench Fr	rom West, C	H 4065-4	075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	b0		1.11.001		WB,Inner Bench	From West	, CH 4075	- 4085 = 10m		
From East ((TS4)									1	1				
Inner Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work on s	tatutory holi	day)		_			-		1					
A9210						64		WB	nner Heading From E	ast CH 4135-4	125 - 10m @				
	WB.Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 U8	02-Feb-15 18										
		7d/wk-1a	2.0	14-Jan-15 08	02-Feb-15 18	6d									
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		-	WB,Inner Heading Fr	om East, CH 412	25- 4115 = 10)m @2d/m			
A9215 A9230	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		-		om East, CH 412	25- 4115 = 10)m @2d/m			
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		-	WB,Inner Heading Fr	om East, CH 412 From East, CH	25- 4115 = 10 4115- 4105	0m @2d/m = 10m @2	?d/m		
A9215 A9230	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d 20d	03-Feb-15 08 26-Feb-15 08	25-Feb-15 18 17-Mar-15 18	6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH	25-4115 = 10 4115-4105 CH 4105-4	0m @2d/m = 10m @2 095 = 10m	?d/m n @2d/m		
A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH ading From East,	25-4115 = 10 4115-4105 CH 4105-4	0m @2d/m = 10m @2 095 = 10m	?d/m n @2d/m		
A9215 A9230 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18	6d 6d 6d		-	WB, Inner Heading Fr WB, Inner Heading WB, Inner Heading	om East, CH 412 From East, CH ading From East, Heading From E	25- 4115 = 10 4115- 4105 CH 4105- 4 East, CH 409	0m @2d/m = 10m @2 095 = 10m 5- 4085 =	?d/m n @2d/m		
A9215 A9230 A9232 A9232 A9225	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m ch Excavation (1.5d-2d/m, 20m scparation with heading)	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18	6d 6d 6d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bence	om East, CH 412 3, From East, CH ading From East, Heading From E 2h From East, CH	25- 4115 = 10 4115- 4105 CH 4105- 4 East, CH 409 1 4135- 4125	0m @2d/m = 10m @2 095 = 10m 5- 4085 = 5 = 10m	2d/m n @2d/m 10m @2d/m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18	6d 6d 6d 16d 11d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend	om East, CH 412 From East, CH ding From East, Heading From E h From East, CH Bench From East	25-4115 = 10 4115-4105 CH 4105-4 East, CH 409 14135-4125 4, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r	2d/m n @2d/m 10m @2d/m n		-
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4125- 4125 = 10m WB,Inner Bench From East, CH 4125- 4115 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18	6d 6d 6d 6d 16d 11d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Benc WB,Inner I WB,Inner I WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From	25-4115 = 10 4115-4105 CH 4105-41 East, CH 409 H 4135-4125 L, CH 4125-4 East, CH 411	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 =	2d/m n @2d/m 10m @2d/m m = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4125- 4125 = 10m WB,Inner Bench From East, CH 4125- 4115 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 6d 16d 11d 6d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Bench From East ner Bench From Jnner Bench Fro	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 = 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4125- 4125 = 10m WB,Inner Bench From East, CH 4125- 4115 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18	6d 6d 6d 6d 16d 11d 6d		-	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 = 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m eh Excavation (1.5d-2d/m, 20m separation with heading) WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4095 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 6d 16d 11d 6d 6d			WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,Inner I WB,Inner WB,Inner I	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From Jnner Bench Fro WB,Inner Bench	4115-4115 = 10 4115-4105 - CH 4105-4 East, CH 4105- H 4135-4125- L, CH 4125-4 East, CH 412 East, CH 4125-4	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 = 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bens A9235 A9240 A9245 A9247 A9250 Summa	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 20d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 28-Apr-15 08 28-Apr-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 6d 16d 11d 6d 6d		Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,	om East, CH 412 From East, CH ading From East, Heading From East h From East, CH Bench From East ner Bench From Jnner Bench Fro WB,Inner Bench	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	0m @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105 = 409	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9247 A9250 Summa Actual I	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4125- 4115 = 10m WB,Inner Bench From East, CH 4125- 4115 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 405- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 405- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 405- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m <td>7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a</td> <td>20d 20d 20d 15d 15d 15d 15d 15d</td> <td>03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08</td> <td>25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18</td> <td>6d 6d 6d</td> <td></td> <td>Date</td> <td>WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,INNE I</td> <td>om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza</td> <td>25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH</td> <td>Om @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105- 409 CH 4095-</td> <td>2d/m n @2d/m 10m @2d/m m = 10m 35 = 10m 4085 = 10m</td> <td>翟(尋瑛)3</td> <td></td>	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d 6d		Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,Inner I WB,INNE I	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	Om @2d/m = 10m @2 095 = 10m 15- 4085 = 5 = 10m 4115 = 10r 15- 4105 = 4105- 409 CH 4095-	2d/m n @2d/m 10m @2d/m m = 10m 35 = 10m 4085 = 10m	翟(尋瑛) 3	
A9215 A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9247 A9250 Summa Actual Remain	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m WB,Inner Heading From East, CH 4105- 4085 = 10m @2d/m WB,Inner Bench From East, CH 4135- 4125 = 10m WB,Inner Bench From East, CH 4115- 4115 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4115- 4105 = 10m WB,Inner Bench From East, CH 4105- 4095 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m WB,Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 20d 15d 15d 15d 15d 15d	03-Feb-15 08 26-Feb-15 08 18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	25-Feb-15 18 17-Mar-15 18 07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 13-May-15 18 12-Jun-15 18 12-Jun-15 18	6d 6d	Section)	Date	WB,Inner Heading Fn WB,Inner Heading WB,Inner Heading WB,Inner Heading WB,Inner Bend WB,Inner I WB,	om East, CH 412 From East, CH ading From East, Heading From E h From East, CH Sench From East ner Bench From Inner Bench Fro WB,Inner Bench Caluza	25-4115 = 10 4115-4105 - CH 4105-41 5ast, CH 409 1 4135-4125-4 4, CH 4125-4 East, CH 412 5m East, CH 41 From East, CH	Dm @2d/m = 10m @2 095 = 10m 15-4085 = 5 = 10m 4115 = 10r 15-4105 = 4105-409 CH 4095-	2d/m n @2d/m 10m @2d/m n = 10m 95 = 10m		

A9295	Vorks se Slab (10m/bay, 10m separation with benching excavati		Duration			Float	Q4	-		2015	1	-	2016	
From West Ba					-		14	01	Q2	Q3	Q4	Q1	Q2	Q3
A9295	se also I runnbay, runn separation with benching excavation		_											
		3 01						1						
	WB From West, Base Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d	1	WB From	m West, Base Slab	CH 3990 - 3995 =	5m bay			
A9320	WB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d	1.000	WB F	rom West, Base S	Slab CH 3995 - 400	5 = 10m/bay			
A9255	WB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d	and a state		NB From West, Ba	ase Slab CH 4005 -	4015 = 10m/bay			
A9260	WB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d		- 1	WB From Wes	t, Base Slab CH 40	015 - 4025 = 10m/b	ay		
A9265	WB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d	1111		WB From	West, Base Slab C	H 4025 - 4035 = 10)m/bay		
A9300	WB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 0B	09-May-15 18	20d	11111		WB Fr	om West, Base Sla	b CH 4035 - 4045	= 10m/bay		
A9325	WB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d			E W	B,From West, Base	Slab CH 4045 - 4	055 = 10m/bay		
A9305	WB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d				WB From West, B	ase Slab CH 4055	- 4065 = 10m/bay		
A9310	WB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Od				WB From Wes	t Base Slab CH 40	65 - 4075 = 10m/bay		
A9315	WB From West, Base Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				WB From W	est, Base Slab CH	4075 - 4080 = 5m		
From East Bas	e Slab (10m/bay, 10m separation with benching excavatio	(חג			1	-	1	-		-	1		_	
	WB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d			WR Fro	m East, Base Slab	CU 4125 4125 -	Danthau		
	WB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d						1201		
	WB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d	at story		1	From East, Base S	R. States			
				1	1	1.654				WB From East, Bas				
	WB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	1		1 7			5 - 4095 = 10m/bay		
	WB From East, Base Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d			- R	WB From Eas	t; Base Slab CH 40	095 - 4085 = 10m/bay		
A9941	WB From East, Base Slab CH 4085 - 4080 = 5m	7d/wk-1a	10d	05-Jul-15 08	14-Jul-15 18	6d			200	WB From E	ast, Base Slab CH	4085 - 4080 = 5m		-
Lining (5m/bay	y. 10m separation with base slab)								1			1		
A9430	WB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d		I WE	3 From West, Linin	g CH 3990 - 3995	= 1bay			
A9470	WB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d		E W	B From West, Lini	ing CH 3995 - 4000) = 1bay			
A9435	WB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d			WB From West, Li	ning CH 4000 - 401	05 = 1bay			
A9360	WB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d			WB From West, I	Lining CH 4005 - 4	010 = 1bay			
A9365	WB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d		1.1	WB From West	Lining CH 4010 -	4015 = 1bay			
A9370	WB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d			WB From Wes	st, Lining CH 4015	4020 = 1bay			
A9375	WB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	1111		WB From W	est, Lining CH 402	0 - 4025 = 1bay			
A9380	WB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d			WB From V	Vest, Lining CH 40	25 - 4030 = 1bav			
	WB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d			1.200	West, Lining CH 4				
and the second sec	15 of 18				and the same		12		repared by William					_

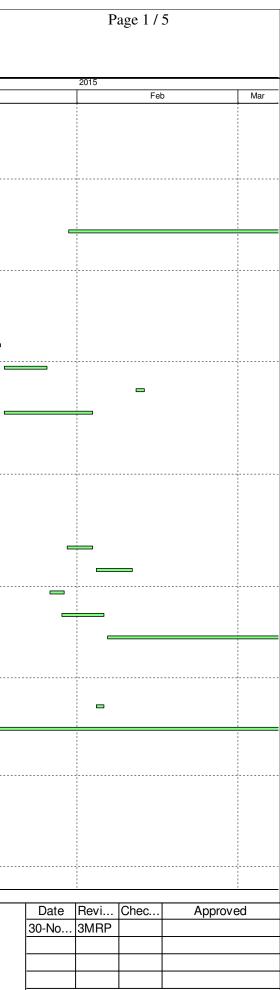
Acti	tivity Name		Calendar	Original	Start	Finish	Total			2	015		-		2016	
				Duration	11		Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
WB	B From West, Lini	ng CH 4035 - 4040 = 1bay	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	and an		WB From	West, Lining C	CH 4035 - 40	40 = 1bay	-		
WB	B From West, Lini	ng CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			WB Fro	m West, Lining	CH 4040 - 4	045 = 1ba	ay		1
WB	B From West, Lini	ng CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			WB F	rom West, Linin	g CH 4045 -	4050 = 1	ау		
WB	B From West, Lini	ing CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d			WB	From West, Lin	ing CH 4050	- 4055 =	bay		
WB	B From West, Lin	ng CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 08	27-May-15 18	30d			WE WE	From West, Li	ning CH 405	5 - 4060 =	1bay		
WB	B From West, Lini	ing CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			a w	B From West, I	Lining CH 40	60 - 4065	= 1bay		
WB	B From West, Lini	ing CH 4065 - 4070 = 1bay	7d/wk-1a	5d	04-Jun-15 08	08-Jun-15 18	30d				VB From West,	Lining CH 4	065 - 407	0 = 1bay		
WB	B From West, Lin	ing CH 4070 - 4075 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od			and an	WB From	n West, Linin	g CH 407	0 - 4075 = 1bay		
WB	B From West, Lin	ing CH 4075 - 4080 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	Od	1111		Ince for	WB Fro	m West, Lini	ng CH 40	75 - 4080 = 1bay		
WB	B From West, Lin	ing CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od	100		1	1.0			080 - 4085 = 1bay	e	
WB	B From West, Lin	ing CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od	1		1				1085 - 4090 = 1ba		
WB	B From West, Lin	ing CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Od							4090 - 4095 = 1b	1	
		ing CH 4095 - 4100 = 1bay	7d/wk-1a		05-Aug-15 08	09-Aug-15 18	DO							4095 - 4100 = 18	(III)	
1	and a start desired	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			1			H 4100 - 4105 = 1		
		ing CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	Od							CH 4105 - 4110 =		
		ing CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od								12	
		-		5d	1		100				1		100	CH 4110 - 4115 =	1.	
		ing CH 4115 - 4120 = 1bay	7d/wk-1a		25-Aug-15 08	29-Aug-15 18	Od				1	1		g CH 4115 - 4120		
		ing CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d	1		i i				19 CH 4120 - 4125		
		ing CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	đ.			1			ing CH 4125 - 413		
WE	B From West, Lin	ing CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	1				WB From	1 West, Li	ning CH 4130 - 41	35 = 1bay	
WE	B From West, Lin	ing CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od					WB From	m West, L	ining CH 4135 - 4	136.5 = 1bay	
bay) /	/ Utility Trough											1			1	
WE 10r	/B From West OH)m/bay @ 7d/bay	VD and utility trough =, 153= 16 bays @	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od					-	WB From	n West OHVD and	d utility trough =, 1	53= 16 bays @
-	D10-Section 5				-					1					1	
KD	D10- Section 2: Co arget KD10- 2 Nov	empletion of Mined Tunnel Works (orig.	7d/wk-2	b0		02-Nov-15 18*	b0					٠	KD10- S	ection 2: Completi	on of Mined Tunne	Works (orig. T
-	s with other	Charles and the second s					- 1				-					
Ha	andover TZ6 to M	TR	7d/wk-2	Od	-	30-Sep-14 18	-249d	Handover T	Z6 to MTR							
Ha	andover TZ4 to C	WB(T2)	7d/wk-2	Dd		10-Nov-14 18	-290d	Har	ndover TZ4 to CWI	B(T2)						
Pro	rovide access to C	WB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	• P	rovide access to C	WB (CC) Contractor	- TS1 & TS2				1	
Per Der		16 of 18				-				Prepared by William	n Caluza		-]		
						10.000			Date	Revision		Approved				
Vork		China	State Construc	ction En	gineering (Hor	ng Kong) Ltd			26-Sep 1st sub	mission			102	中國連 梦.	工程(重法)	オロ小日
ing We	Vork	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel (Caus	seway Bay Typ	hoon She	elter Section)								
Remai	aining Work												-			
Vork ing We	of Effort Vork	China		y Pass -		seway Bay Typ	hoon Shi	elter Section)	Date	Revision		Approved	allea			中國連幕工程(春港) CHINA STATE CONSTRUCTION ENGINEERING

ctivity ID	Activity Name	Calendar	Original Duration	Start Finish	Total Float				015	· · · · · · · · · · · · · · · · · · ·		2016	
S6 5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined	7d/wk-2	Od	31-Mar-16 18*	-124d	Q4	Q1	Q2	Q3	Q4	Q1	Q2 Provide access	Q3
	Tunnel							-					
Stage and	Section Completion					1.0		1.					
KD_5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	DO	30-Sep-14 18*	-86d	KD8 - Completic	n of Section 3, ((1326d)				1	1.000
KD_5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	b0	16-Oct-14 18*	-323d	 KD5 - Achiev 	ement of Stage	5, (1152d)					
KD_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d	17-Nov-14 18*	-353d	♦ KD13	Completion of	Section 7B, (1152d)				ā.	1
KD_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	b0	17-Nov-14 18*	-297d	♦ KD7 -	Completion of S	ection 2, (1152d)		i			
KD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d	10-Nov-15 18*	-132d					KD9 -	Completion of Se	ction 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	Od	25-Mar-16 18	-144d							KD10 - Comple	tion of Section 5, e
KD_5750	KD11 - Completion of Section 6, (1949d)	7d/wk-2	Dd	23-May-15 18*	-121d							♦ KD	1 - Completion of
Portion Ha	andover Date		-						1				
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portion	n IV(4), KD8 +28					
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portic	en V (5), KD8 +28			1		
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n VI (6), KD8 +28					
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n XIIIB (13B), KD8 -	+28				
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Hr	andover + Portio	n XXII (22), KD8 +2	8				
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n III (3), KD8 +28					
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	0d	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion XIIIA (13	3A), KD7 +28				
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Dd	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion VIII (8),	KD7 +28				
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	15-Dec-14 18	-79d	•	Portion Handove	er - Portion XIVA (14	4A), KD7 +28				1
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	bð	15-Dec-14 18	-79d		Portion Handov	er - Portion XV (15).	KD7 +28				1
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Dd	15-Dec-14 18	-79d	•	Portion Handov	er - Portion XXIII (23	3), KD7 +28				· · · ·
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	30-Nov-15 18	• Od					• P	ortion Handover -	Portion XVIII (18),	KD10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	27-Dec-15 18	Dd	1.110					Portion Hand	over - Portion XI (1), KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d					1		Portion H	andover - Portion
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2	Dd	22-Apr-16 18*	-52d	all and a second						Portion H	andover - Portion
CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2	0d	22-Apr-16 181	-52d							Portion H	andover - Portion
CD_5780	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2	Dd	22-Apr-16 18	-52d							 Portion H 	andover - Portion
Actual Actual Actual Rema	Work ining Work Contract No. HY/2009/15 - Central I Remaining Work	I Wan Chai E	By Pass -	gineering (Hong Kong) Ltd Tunnel (Causeway Bay Ty RAMME REV. M	phoon St	26	Date 8-Sep 1st subi	Prepared by Willian Revision mission	n Caluza Checked Ap	oproved		工程(哥港	

Activity ID	Activity Name	Calendar			Finish	Total			20	015			2016	1
			Duration		1. The second	Float	 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CD_5690	Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od								Portion Handov
CD_5725	Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d	1	20-Jun-16 18	b0								Portion Handov
CD_5715	Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Dd	1	20-Jun-16 18	Od								Portion Handov
CD_5785	Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	Dd		20-Jun-16 18	Od								Portion Handov
CD_5795	Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	b0	1	20-Jun-16 18	Od								Portion Hando

Summary Bar	18 of 18	1	Prepared by William	n Caluza			
and the second se		Date	Revision	Checked	Approved		
Actual Level of Effort	China State Construction Engineering (Hong Kong) Ltd	26-Sep	1st submission			-	
Actual Work						LINE.	中國連禁工程(香港)有限公司
Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)	-				1000040	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LT
Critical Remaining Work		-					
Milestone	WORKS PROGRAMME REV. M					1	

				Cer	Wan () Contract Nc Chai Develop n Chai Bypas	ment Pha	ase II	West	
ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Nov	20	14	Dec	
otal		11-Nov-13 A	20-Jul-15	183						
IK/2012/08 3N	I Rolling Programme (Dec 2014 to Feb 2015) Based on Rev3/1	11-Nov-13 A	20-Jul-15	183						
Dredging and F		24-Nov-14 A	21-Apr-15	110						
Marine Work C	Construction	24-Nov-14 A 01-Dec-14	21-Apr-15 21-Apr-15	110 110						
Dredging - Zon	ne A1	31-Dec-14	15-Jan-15	12						
MAR10220	Zone A1 - Install shear pins to existing bored piles	31-Dec-14	15-Jan-15	12	0%					
Dredging - Zon	ne D	01-Dec-14	21-Apr-15	110						
MAR12640	Zone D - Remove existing rock armour [S12-S14]	30-Jan-15	21-Apr-15	60	0%					
MAR12685	Zone D - Final Hydrographic Survey [R11-R12]	01-Dec-14	06-Dec-14	6	0%					
Seawall Constru	uction	24-Nov-14 A	13-Mar-15	81						
	ruction - Zone D	24-Nov-14 A	13-Mar-15	81	201					
MAR11839	Zone D - fill temp. rock bund at Seawall 1C - fill rock to +4.0mPD	21-Dec-14	22-Dec-14	2	0%					
MAR11844	Zone D - lay toe block and level stone for Seawall 2	12-Dec-14	22-Dec-14	9	0%					
MAR11845	Zone D - fill rock mound for Seawall 1A-L	09-Jan-15	18-Jan-15	10	0%					_
MAR11847	Zone D - lay toe block and level stone for Seawall 1A-L	19-Jan-15	26-Jan-15	7	0%					
		19-941-15	20-041-13	/						
MAR11854	Zone D - fill temp. rock bund at Seawall 2 - fill rock to +4.0mPD	11-Feb-15	12-Feb-15	2	0%					
MAR11858	Zone D - fill rock mound for Seawall 9	19-Jan-15	03-Feb-15	14	0%					
MAR11888	Zone D - Caisson Seawall 2F - fill type A rockfill (-10mPD to +1.3mPD)	24-Nov-14 A	03-Dec-14	3	80%					
MAR11890	Zone D - Caisson Seawall 2F - lay geotextile and filter (-10mPD to +1.3mPD)	07 Nov 14 A	08-Dec-14	6	10%					
MARITO90	Zone D - Caisson Seawaii 2r - lay geolexille and liller (-10mPD to +1.3mPD)	27-Nov-14 A	08-Dec-14	0	10%					
MAR11945	Zone D - Caisson Seawall 1C - fill type A rockfill (-10mPD to +1.3mPD)	29-Nov-14 A	13-Dec-14	12	7.69%		•			
MAR11947	Zone D - Caisson Seawall 1C - lay geotextile and filter (-10mPD to +1.3mPD)	15-Dec-14	20-Dec-14	6	0%					
MAR11980	Zone D - deliver and Install Caisson Seawall 2	23-Dec-14	25-Dec-14	3	0%					
MAD10000		20. Jap 15	02 Fab 15	4	09/					
MAR12000	Zone D - Caisson Seawall 1A & 2 - fill type A rock fill (-6.65mPD to +1.3mPd)	30-Jan-15	03-Feb-15	4	0%					
MAR12010	Zone D - Caisson Seawall 1A & 2 - lay geotxtile and fillter (-6.65 to +1.3mPD)	04-Feb-15	10-Feb-15	6	0%					
MAR12220	Zone D - deliver and Install Caisson Seawall 1A-L	27-Jan-15	29-Jan-15	3	0%					
MAR20575	Zone D - TTA for demolish existing seawall (for seawall 11)	29-Jan-15	05-Feb-15	7	0%					
14000570	Zere D. demoliek evision economi	00 5-5 45	10 Mar 15	00	00/					
MAR20578	Zone D - demolish existing seawall	06-Feb-15	13-Mar-15	26	0%					
Filling Filling - Zone D		17-Dec-14 17-Dec-14	18-Mar-15 18-Mar-15	71 71						
MAR12040	Zone D - Sorted Public Fill up to +4.0mPD (south area behind caisson 2F and 1C)	17-Dec-14	31-Dec-14	11	0%					
MAR12045	Zone D - Sorted Public Fill up to +4.0mPD (south area behind caisson 1A and 2)	04-Feb-15	05-Feb-15	2	0%					
MAR12050	Zone D - 1st stage - Remove/Trim Down Existing Seawall	02-Jan-15	18-Mar-15	60	0%					
	ion Completion	11-Nov-13 A	20-Jul-15	183						
Construction	Structure	11-Nov-13 A 12-May-14 A	20-Jul-15 31-Mar-15	183 96						
Section II - MVB MVB Substruct	· Structure ture - Diaphragm Wall and Bored Pile	12-May-14 A 12-May-14 A	31-Mar-15 28-Jan-15	96 48						
SII10480	Sec II - MVBA - construct Dwall [P1-P12, P34-P41] (1.5m thk on rock)	28-May-14 A	05-Dec-14	5	97.18%					
SII10540	Sec II - MVB B - construct Dwall [P13-P33] (1.5m thk on rock)	12-May-14 A	05-Dec-14	5	97.33%					
SII10560	Sec II - MVB A&B - precaution grout / fissure grout	14-Oct-14 A	23-Dec-14	20	60%					
SII10565	Sec II - MVB A&B - Interface Core / Sonic Test	18-Oct-14 A	31-Dec-14	25	50%					
	Work Project Star :22-Jan-13 Project End: 21-Jul-18 Remain Date Date: 30-Nov-14		3 Mo	onth Roll	ing Prog	Iramme (Non	-CRIII Ar	ea)		



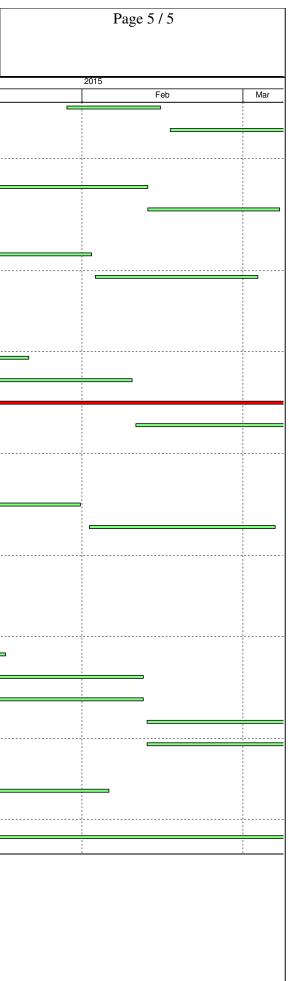
					Wan	D Contract No. Hl Chai Developmer	nt Phase I	I	
)	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	an Chai Bypass a			
SII10570	Sec II - MVB A&B - Install pumping well/observation well	01-Dec-14	05-Jan-15	28	0%	Nov		Dec	
SII10580	Sec II - MVB A&B - pumping test for Dwall	06-Jan-15	23-Jan-15	18	0%	_			
SII10600	Sec II - MVB A&B - pumping test for precaution grout curtain and fissure grout	06-Jan-15	23-Jan-15	18	0%	_			
SII10610	Sec II - MVB A&B - Install shear pin on Dwall panel P18-P33 & P33A	16-Oct-14 A	02-Jan-15	26	40%	_			
SII10615	Sec II - MVB A&B - Install king post	17-Dec-14	03-Jan-15	12	0%	_			
SII10620	Sec II - MVB C - Construct Guide Wall [P42-P43]	03-Dec-14	09-Dec-14	6	0%				
SII10622	Sec II - MVB C - construct Dwall [P42-P43] (1.5m thk on rock)	10-Dec-14	28-Jan-15	40	0%				
MVB Substruct	ure - Diaphragm Wall - Construction Sequences	14-Nov-14 A 28-Nov-14 A	13-Dec-14 13-Dec-14	12 12					
SII-10210	Sec II - MVB - Dwall P25	28-Nov-14 A	13-Dec-14	12	50%				
Group 2		17-Nov-14 A	09-Dec-14	8					
SII-10325	Sec II - MVB - Dwall P23	17-Nov-14 A	09-Dec-14	8	55%				
Group 3 SII-10480	Sec II - MVB - Dwall P39	14-Nov-14 A 14-Nov-14 A	08-Dec-14 08-Dec-14	<mark>6</mark> 6	70%			7	
					70%				
IVB Substructu SII10340	Ire - Bored Pile and Prebored H-Pile Sec II - MVB A&B - Construct bored piles	26-Jun-14 A 26-Jun-14 A	31-Mar-15 17-Dec-14	96 15	90%				
SII10360	Sec II - MVB A&B - bored pile sonic test, interface core & full core	04-Oct-14 A	10-Jan-15	33	63.33%	_			
SII10380	Sec II - MVB C - predrilling for prebored H-piles	07-Jan-15	03-Feb-15	24	0%	_			
						_			
SII10400	Sec II - MVB C - construct prebored H-piles	25-Feb-15	31-Mar-15	30	0%				
MVB Substruct Group 1	ure - Bored Pile - Construction Sequences	22-Nov-14 A 22-Nov-14 A	17-Dec-14 15-Dec-14	15 13					
SII-11200	Ssec II - MVB - Bored Pile BC7	01-Dec-14	15-Dec-14	13	0%				
SII-11210	Ssec II - MVB - Bored Pile BC9	01-Dec-14 A	13-Dec-14	11	25%	-			
SII-11240	Ssec II - MVB - Bored Pile BC18	22-Nov-14 A	08-Dec-14	7	55%	_		=	
Group 2		01-Dec-14	17-Dec-14	15					
SII-11160	Ssec II - MVB - Bored Pile BC15	01-Dec-14	17-Dec-14	15	0%				
IVB Substructu SII10820	Ire - Structural Works for Portion A Sec II - MVBA - Excavation down to +1.7mPD	12-Jan-15 12-Jan-15	27-Feb-15 19-Jan-15	36 7	0%				
SII10840	Sec II - MVB A - Install Strut L1 at +2.7mPD			9	0%	_			
		20-Jan-15	29-Jan-15						
SII10860	Sec II - MVB A - Excavation down to -1.5mPD	30-Jan-15	10-Feb-15	10	0%	_			
SII10880	Sec II - MVB A - Install Strut L2 at -1.0mPD	11-Feb-15	27-Feb-15	10	0%				
MVB Substructu SII11440	Ire - Structural Works for Portion B Sec II - MVB B: Excavation down to +1.7mPD	12-Jan-15 12-Jan-15	10-Mar-15 19-Jan-15	45 7	0%	-			
SII11440	Sec II - MVB B: Install Strut L1 at +2.7mPD			9	0%	_			
		20-Jan-15	29-Jan-15						
SII11480	Sec II - MVB B: Excavation down to -1.0mPD	30-Jan-15	07-Feb-15	8	0%	_			
SII11500	Sec II - MVB B: Install Strut L2 at 1.0mPD	09-Feb-15	24-Feb-15	9	0%				
SII11520	Sec II - MVB B: Excavation down to -5.5mPD	25-Feb-15	10-Mar-15	12	0%				
	B Tunnel & Slip Road Structures and Facilities	04-Aug-14 A	20-Jul-15	183					
Section II A - CW SIIA10500	/B Tunnel - Design, Submission and Approval CWB Tunnel - Temp work design for bulk exc & ELS - ICE check & issue check cert	08-Dec-14 08-Dec-14	03-Mar-15 02-Jan-15	86 26	0%				
SIIA10520	CWB Tunnel - Temp work design for bulk exc & ELS - Eng comment & approve	03-Jan-15	28-Jan-15	26	0%	-			
SIIA10540	CWB Tunnel - Temp work design for tunnel structural works - prepare & submit to ICE	08-Dec-14	05-Feb-15	60	0%	-			
SIIA10560	CWB Tunnel - Temp work design for tunnel structural works - ICE check & issue	06-Feb-15	03-Mar-15	26	0%	_			
	check cert				U%				
CWB CRIII & A1 CWB CRIII & A1	1 - Dwall and Pile Construction	22-Sep-14 A 22-Sep-14 A	15-Jun-15 28-Jan-15	155 47					
SIIA11120	Sec IIA - CWBA1 - construct temporary DWall and temp bulk head wall	22-Sep-14 A	31-Dec-14	24	68%				



				Cer	Wan (htral -Wa) Contract No. HK/2 Chai Development F n Chai Bypass at W	Phase II		Page 3 / 5				
ctivity ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Nov	2014 Dec	Jan	2015 Feb	Mar			
SIIA11140	Sec II A - CWBA1 - Construct pre-bored H-pile	31-Oct-14 A	10-Jan-15	33	43.1%	1107			100				
SIIA11165	SIIA - CWB A1 - install shear pins to existing bored piles	31-Dec-14	15-Jan-15	12	0%								
SIIA11220	Sec II A - CWB A1 - D-wall Sonic test	15-Dec-14	09-Jan-15	20	0%								
SIIA11240	Sec II A - CWB A1 - install dewater/ recharge / observation well	13-Dec-14	15-Jan-15	25	0%								
SIIA11255	Sec II A - CWB A1- pumping test (CRIII, A1)	15-Jan-15	28-Jan-15	11	0%								
CWB CRIII & A	A1 - Tunnel Structure	24-Jan-15	15-Jun-15	111									
SIIA11280	Sec II A - CWBA1: Shoring & Excavation	24-Jan-15	15-Jun-15	111	0%								
SIIA11300	Sec II A - CWBA1: Roof slab (1st bay)	17-Feb-15	03-Apr-15	35	0%								
CWB A2 & B	- Dwall Construction	10-Sep-14 A 10-Sep-14 A	01-Jun-15 01-Jun-15	143 143									
SIIA11480	Sec II A - CWB B: ground treatment	10-Sep-14 A	05-Dec-14	5	91.67%								
SIIA11500	Sec II A - CWB B: construct Guide Wall	25-Oct-14 A	03-Dec-14	3	90%								
SIIA11520	Sec IIA - CWB B: Construct Permanent DWall and barrette (1.2m thk on rock)	30-Oct-14 A	26-Feb-15	68	26.88%								
SIIA11525	Sec II A - CWB B: Construct temp Dwall (1.2m thk)	29-Jan-15	24-Apr-15	65	0%								
SIIA11540	Sec II A - CWB B: Construct pre-bored H-pile	29-Jan-15	24-Apr-15	65	0%								
SIIA11560	Sec II A - CWB B: Ground treatment to Stop End (MTR CWL)	27-Feb-15	02-Apr-15	30	0%								
SIIA11560 SIIA11580	Sec IIA - CWB B: Ground treatment to Stop End (MTR CWL) Sec IIA - CWB B: Dwall sonic test / interface core			100									
		30-Dec-14	07-May-15		0%								
SIIA11600	Sec II A - CWB B: Dwall precaution grout / fissure grout / grout curtain	30-Dec-14	07-May-15	100	0%								
SIIA11620	Sec II A - CWB B: Install dewatering/ recharging/ observation well	30-Dec-14	01-Jun-15	120	0%								
SIIA13340	Sec II A - CWB A2(1): Predrilling for Dwall & piles	01-Dec-14	04-Feb-15	54	0%								
SIIA13360	Sec II A - CWB A2(1): ground pretreatment	08-Dec-14	02-Feb-15	46	0%								
SIIA13380	Sec II A - CWB A2(1): Guide Wall	10-Dec-14	26-Feb-15	60	0%					—			
SIIA13400	Sec II A - CWB A2(1): construct temp DWall (1.2m thk) and temp bulk head wall	12-Jan-15	11-May-15	93	0%								
	all Construction	04-Aug-14 A 04-Aug-14 A	30-May-15	142 142									
SIIA11880	Sec II A - CWB CW: Predriling for Dwal & piles	04-Aug-14 A 04-Aug-14 A	30-May-15 13-Dec-14	142	82.86%								
SIIA11900	Sec II A - CWB CW: ground Pre-treatment	01-Nov-14 A	13-Jan-15	35	42%								
SIIA11920	Sec II A - CWB CW: Guide Wall	29-Oct-14 A	31-Dec-14	25	58.33%		_						
SIIA11940	Sec IIA - CWB CW: construct north DWall & barrette (1.5m thk) (on rock)	06-Dec-14	15-Apr-15	100	0%								
SIIA11945	Sec IIA - CWB CW: construct south DWall (1.5m thk) (on rock)	08-Jan-15	27-Apr-15	85	0%								
SIIA12960	Sec II A - CWB CE: Predrilling for Dwall	18-Sep-14 A	17-Dec-14	15	83.33%								
SIIA12980	Sec II A - CWB CE: ground pre-treatment	05-Jan-15	29-Apr-15	90	0%								
SIIA13000	Sec II A - CWB CE: construct Guide Wall	10-Jan-15	26-Mar-15	60	0%								
SIIA13010	Sec II A - CWB CE: construct barrette (1.2m thk)	16-Jan-15	30-May-15	105	0%								
					078								
CWB C - Exhau SIIA12820	Sec II A - Exhaust Duct at Slip Rd3: Predrilling for Piles	18-Dec-14 18-Dec-14	24-Jan-15 24-Jan-15	30 30	0%				-				
CWB D - Slip R	Road 1	11-Dec-14	20-Jul-15	174									
CWB D - Slip F SIIA12240	Road 1 - Dwall Construction Sec II A - CWB SR1: Predrilling for Dwall & piles	11-Dec-14 11-Dec-14	20-Jul-15 03-Apr-15	174 90	0%								
SIIA12260	Sec II A - CWB SR1: ground pre-treatment	19-Dec-14	22-May-15	120	0%								
SIIA12280	Sec II A - CWB SR1: Guide Wall	06-Jan-15	13-May-15	100	0%								
SIIA12300	Sec II A - CWB SR1: construct permanent DWall (1.2m thk)	14-Jan-15	12-Mar-15	45	0%								
SIIA12305	Sec II A - CWB SR1: construct temp DWall (1.2m thk)	23-Jan-15	20-Jul-15	140	0%								

				Cer	Wan C ntral -Wa) Contract No. H Chai Developme n Chai Bypass a	nt Phase I	I			Page 4 / 5	
tivity ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Nov	2014	Dec	Jan	2015	Feb	Ma
	Box Culvert La, L1 & FRP-L Construction	11-Nov-13 A	10-Mar-15	78				200				
Sec VI A - Box Box Culvert I	(Culvert La bay 1-3 and Roadwork La Bay 1-3	22-Oct-14 A 22-Oct-14 A	26-Jan-15 26-Jan-15	46 46								
CUL10570	Sec VI A - Area 1 - Culvert La bay 3 wall and roof slab - curing, backfill and remove upper layer of strut	22-Oct-14 A	10-Dec-14	9	1.99%							
CUL10703	Sec VI A - Area 1 - Culvert La bay 2 wall and roof slab - curing, backfill and remove upper layer of strut	29-Nov-14 A	03-Dec-14	3	50%		-					
CUL10705	Sec VI A - Area 1 - Culvert La bay 1-3 - construct manhole DO-01; IM-01	02-Dec-14	08-Dec-14	6	0%			•				
CUL10720	Sec VIA - Area 1 - Culvert La bay 1-3 - backfill to pavement formation	03-Dec-14	16-Dec-14	12	0%							
CUL10730	Sec VI A - Area 1 - Culvert La bay 1-3 - sub-base	10-Dec-14	16-Dec-14	6	0%							
CUL10740	Sec VI A - Area 1 - Culvert La bay 1-3 - road kerb	15-Dec-14	22-Dec-14	7	0%							
CUL10760	Sec VI A - Area 1 - Culvert La bay 1-3 - road paving	15-Dec-14	23-Dec-14	8	0%							
CUL10780	Sec VI A - Area 1 - Culvert La bay 1-3 - pedestrian way paving	24-Dec-14	05-Jan-15	8	0%							
CUL11680	Sec VIA - Area 1 - reinstatement of Kiosks	03-Jan-15	26-Jan-15*	20	0%							
CUL12380	Sec VIA - Area 1 - road marking and road sign	24-Dec-14	31-Dec-14	5	0%							
Section VI A -	Area 2 - Lung King Street Roadwork & Utilities	11-Nov-13 A	07-Jan-15	30								
SVIA10040	Sec VIA - Area 1 - Summary of Box Culvert La Construction	11-Nov-13 A	05-Jan-15	28	79.41%							
SVIA10080	Sec VIA - Area 2 - Reinstate the area	01-Dec-14	07-Jan-15	30	0%							
	c Culvert La bay 4 and Roadwork	08-Dec-14	10-Mar-15	72	00/							
CUL11570	Sec VI C - Culvert L - bay 4 - sheet pile & ELS	08-Dec-14	06-Jan-15	23	0%							
CUL11580	Sec VI C - Culvert L - bay 4 (south half) - construct base slab	07-Jan-15	13-Jan-15	6	0%							
CUL11600	Sec VI C - Culvert L - bay 4 (south half) - construct wall and roof	14-Jan-15	27-Jan-15	12	0%							
CUL11605	Sec VI C - Culvert L - bay 4 (south half) - curing and remove internal formwork	28-Jan-15	04-Feb-15	7	0%							
CUL11615	Sec VI C - Culvert L - bay 4 (south half) - contruct temp bulk head inside cells	05-Feb-15	24-Feb-15	12	0%					-		-
CUL11620	Sec VI C - Culvert L - bay 4 - construct top slab	25-Feb-15	10-Mar-15	12	0%							
CUL11645	Sec VI C - Culvert L - bay 4 (north half) - drive pipe pile	28-Jan-15	17-Feb-15	18	0%							
CUL11650	Sec VI C - Culvert L - bay 4 (north half) - demolish existing seawall	25-Feb-15	07-Mar-15	10	0%							
	& FRP-L Construction (Bay 5 - Bay 13)	15-Aug-14 A	09-Jun-15	150								
Box Culvert L CUL10015	1 & FRP-L - Bay 5 to 7 Culvert L - form temp opening at existing box culvert Bay 4 for temp flow diversion	15-Aug-14 A 01-Dec-14	18-Mar-15 13-Jan-15	85 35	0%							
CUL10275	Sec VI C - Culvert L - bay 5,6,7 - erect temp platform for predrilling	03-Oct-14 A	17-Jan-15	39	40%							
CUL10280	Sec VI C - Culvert L - bay 5,6,7 - predrilling	01-Dec-14	19-Jan-15	40	0%							
CUL10800	Sec VI C - Culvert L - bay 7 - construct pre-bored H-pile	12-Dec-14	30-Jan-15	40	0%							
CUL10820	Sec VI C - Culvert L - bay 6 - construct pre-bored H-pile	29-Dec-14	13-Feb-15	40	0%							
CUL10840	Sec VI C - Culvert L - bay 5 - construct pre-bored H-pile	26-Jan-15	18-Mar-15	40	0%							
CUL10868	Sec VI C - Culvert L - bay 5-7 - Form Dry Dock for precast culvert units	15-Aug-14 A	28-Jan-15	48	35.14%							
CUL10870	Sec VI C - Culvert L - bay 5-7 - Construct bottom slabs for precast culvert units	29-Jan-15	28-Feb-15	22	0%							
CUL10940	Sec VI C - Culvert L - bay 5 - pile head treatment and construct pile cap	06-Dec-14	17-Dec-14	10	0%							
CUL10960	Sec VI C - Culvert L - bay 5 - construct base slab	18-Dec-14	02-Jan-15	11	0%							
CUL10980	Sec VI C - Culvert L - bay 5 - construct wall	03-Jan-15	16-Jan-15	12	0%							
CUL11000	Sec VI C - Culvert L - bay 5 - construct top slab	17-Jan-15	03-Feb-15	15	0%				_			
CUL11020	Sec VI C - Culvert L - bay 6 - pile head treatment and construct pile cap	18-Dec-14	31-Dec-14	10	0%							
CUL11040	Sec VI C - Culvert L - bay 6 - construct base slab	02-Jan-15	14-Jan-15	11	0%							
CUL11060	Sec VI C - Culvert L - bay 6 - construct wall	15-Jan-15	28-Jan-15	12	0%							

				Cer	Wan (D Contract No. HK/20 Chai Development P .n Chai Bypass at Wa	hase II	e II			
CUL11080 Sec CUL11090 Sec CUL10120 Cub CUL10120 Cub CUL10120 Cub CUL10120 Cub CUL10120 Cub CUL10260 Cub CUL112350 Cub CUL12352 Cub Section VI C - Area 3, 6 Area 8A & 8C - Seawal Modification of Seaw A11705 Sec A11715 Sec A11725 Sec A11780 Sec PRS-1010 Sec PRS-1020 Sec PRS-1030 Sec PRS-1040 Sec SVIC10000 Sec SVIC1020 Sec Sor721040 Sec S0721040 Sec S0721070 Sec Sor721070 Sec Sor721070 Sec Sor721070 Sec Sor721070 Sec Sor721070 Sec <td< th=""><th>Activity Name</th><th>Start</th><th>Finish</th><th>Remaining Duration</th><th>Activity % Complete</th><th>Nov</th><th>2014</th><th></th></td<>	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Nov	2014				
CUL11080	Sec VI C - Culvert L - bay 6 - construct top slab	29-Jan-15	14-Feb-15	15	0%	NOV	Dec				
CUL11090	Sec VI C - Culvert L - bay 5, 6 - dismantle formwork and curing	16-Feb-15	11-Mar-15	16	0%						
		31-Dec-14	09-Jun-15	126	00/						
CUL10120	Culvert L - bay 8 - predrilling for pre-bored H-pile	31-Dec-14	15-Jan-15	12	0%						
CUL10180	Culvert L - bay 8 - construct pre-bored H-pile	08-Jan-15	12-Feb-15	30	0%						
CUL10260	Culvert L - Bay 8 - install sheetpile	12-Feb-15	07-Mar-15	15	0%						
CUL11690	CWBA1 - [Summary] Tunnel waterproofing and backfill for Culvert L construction	05-Feb-15	09-Jun-15	96	0%						
CUL12350	Culvert L - Bay 12 & 13 - Erect temp platform for predrill and pre-bored H-piles	13-Jan-15	02-Feb-15	18	0%						
CUL12352	Culvert L - Bay 12 & 13 - predrilling for pre-bored H-pile	03-Feb-15	03-Mar-15	20	0%						
		01-Dec-14	23-May-15	137							
	Seawall Modification (Reviewed)	01-Dec-14 01-Dec-14	24-Mar-15 24-Mar-15	90 90							
	Sec VI C - pile head treatment	01-Dec-14	07-Jan-15	30	0%			Ļ			
A11715	Sec VI C - southbound	16-Dec-14	22-Jan-15	30	0%						
A11725	Sec VI C - northbound	06-Jan-15	09-Feb-15	30	0%						
		01-Dec-14	24-Mar-15	90	0%						
	Sec VI C - drive pipe pile										
	Sec VI C - seawall modification - bay 1	10-Feb-15	21-Mar-15	30	0%						
	om Stabilization (Reviewed)	01-Dec-14	06-Mar-15	75	001						
PRS-1010	Sec VI C - Install props inside MTR pump house	15-Dec-14	19-Dec-14	5	0%						
PRS-1020	Sec VI C - Place counter weight on top of MTR pump house	01-Dec-14*	30-Dec-14	24	0%						
PRS-1030	Sec VI C - Trim existing rubble mound	31-Dec-14	31-Jan-15	27	0%		c c				
PRS-1040	Sec VI C - fill up voild under pump house	02-Feb-15	06-Mar-15	24	0%						
		00 1 45	00.14								
	Sec VI C - [Summary] Construct Box Culvert Bay 5-6	29-Jan-15 29-Jan-15	23-May-15 23-May-15	89 89	0%						
011010000		20 0411 10	20 may 10		0,0						
Area 3 - Box Cu	Ilvert bay 4 and Roadwork	08-Dec-14	30-Apr-15	112							
SVIC10220	Sec VI C - [Summary] Construct Box Culvert Bay 4 in Area 3	08-Dec-14	30-Apr-15	112	0%						
Section VI D - Ar	rea 8B & 10	15-Jan-15	04-Apr-15	80							
WDII Box 1 Con	struction (Reviewed)	15-Jan-15	04-Apr-15	80							
	bmission and Approval / Material Procurement	15-Jan-15	04-Apr-15	80							
PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	16-Jan-15	18-Jan-15	3	0%						
S0721040	Sec VI D - WD II Box 1 - temp work design - ICE check and issue check cert	15-Jan-15	11-Feb-15	28	0%						
S0721060	Sec VI D - WD II Box 1 - temp work design - Engineer comment and approve	15-Jan-15	11-Feb-15	28	0%						
S0721070	Sec VI D - WD II Box 1 - method statement and temp work design - MTR comment and approve	12-Feb-15	04-Apr-15	52	0%						
S0721080	Sec VI D - WD II Box 1 - Prepare and submit method statement	12-Feb-15	11-Mar-15	28	0%						
Section VII - Pon	nainder Works	16-Jan-15	05-Feb-15	18							
		16-Jan-15	05-Feb-15	18							
	Sec VII - Landing Steps - form temporary access from landing steps to Fleet Acade	16-Jan-15	05-Feb-15	18	0%						
Section VIII - Lar	ndscape Softworks	20-Nov-13 A	11-Mar-15	79							
Soft Landscapi	•	20-Nov-13 A	11-Mar-15	79							
	Sec VIII - Tree Felling/Transplanting at Portion 2 & 2A	20-Nov-13 A	11-Mar-15	79	12.22%		1.1	1			



EDD CO	ONTRACT HK/2009/02								CHUN WC
' ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar	Sep 57	2014 Oct 58
	ment Phase II - Central - Wan Chai Bypass at Wan Chai East (dd 20-Sep-14)	1909		24-Feb-10 A	27-Aug-16	631			
rogramme Milesto Contractual Comple	nes (Revised up to EOTO No.10 Issued on 29-Nov-13)	90	90	20-Sep-14 20-Sep-14	19-Dec-14 20-Sep-14	-312 -222	Calendar Day Calendar Day		
KDC0110	Section 7 Works (831 days) - Box Culvert N1 & Works at Aea 7 (7-May-12)	0	0	20-06p-14	20-Sep-14*	-866	Calendar Day	♦ Se	ection 7 Works (831 days) - Box Cul
	& Establishment Key Dates	0		20-Sep-14	20-Sep-14	-222	Calendar Day		
KDC0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14)	0	0	19-Dec-14	20-Sep-14* 19-Dec-14	-222 -312	Calendar Day Calendar Day	• e	ection 8C Works (1473 days) - Land
	& Establishment Key Dates	0		19-Dec-14	19-Dec-14	-312	Calendar Day	L	
KDF0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8	0	0		19-Dec-14 11-Oct-14	-312 1473	Calendar Day Calendar Day		
Critical Procurement	t & Site Delivery	60	21		11-Oct-14 11-Oct-14	1473	Calendar Day		
PRE-PRO-1100A	GRP Roof Panel for Temp Covered Walkway (Type 1)	60	21		11-Oct-14	1473	Calendar Day		GRP Roof Panel
PRE-PRO-1100B	GRP Roof Panel for Temp Covered Walkway (Type 2)	60 254	21	15-Jun-14 A 11-Aug-12 A	11-Oct-14 22-Oct-14	1473 1173	Calendar Day		GRP Roof Panel
Outstanding Works	rks - Reprovisioning of Government Helipad and Public Toilet	254		11-Aug-12 A	22-Oct-14 22-Oct-14	1173	HK Working Day		
S3-0070-1499	Reinstatement of armour rock, retaining walls & new covered walkway along Expo Drive East	254		11-Aug-12 A	22-Oct-14	1173	HK Working Day		Reinst
	orks - Cooling Water Pumping System for Sun Hung Kai Centre (P8)	365		16-Feb-14 A	15-Feb-15	1346	Calendar Day		
Cooling Mains Work S4A-0900	above Tunnel Portion & connecting to Pump Station Outstanding Works	365 365		16-Feb-14 A 16-Feb-14 A	15-Feb-15 15-Feb-15	1346 1346	Calendar Day Calendar Day		
	orks - Cooling Water Pumping System for China Resources Building (P9)	365		01-Oct-13 A	30-Sep-14	1484	Calendar Day		
· · · · · · · · · · · · · · · · · · ·	above Tunnel Portion & connecting to Pump Station	365		01-Oct-13 A	30-Sep-14	1484	Calendar Day		 I I
S4B-0900	Outstanding Works	365		01-Oct-13 A 21-Nov-13 A	30-Sep-14	1484 1433	Calendar Day		Outstanding Works
	orks - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7) above Tunnel Portion & connecting to Pump Station	365 365		21-Nov-13A 21-Nov-13A	20-Nov-14 20-Nov-14	1433	Calendar Day Calendar Day		
S4C-0900	Outstanding Works	365		21-Nov-13 A	20-Nov-14	1433	Calendar Day		
	rks - WSD Salt Water Pumping System	549	131	20-Apr-13 A	05-Mar-15	1067			
Salt Water In take Cu	Ivert Construction Pet Garden & Hung Hing Road	23 23	7	20-Apr-13 A 20-Apr-13 A	29-Sep-14 29-Sep-14	-707 -707	HK Working Day HK Working Day		
S5-100-3333	Backfilling to Bay 6 to Bay 11 (2,000m3; 150m3/d)	23		20-Apr-13 A	29-Sep-14 29-Sep-14	-707	HK Working Day		Backfilling to Bay 6 to Bay 11
	mmissioning of Reprovisioned Salt Water Intake System	365			05-Mar-15	1328	Calendar Dav		
S5-0900	Outstanding Works rks - Box Culvert N1 & Flood Relief System	365		06-Mar-14 A 05-Sep-14 A	05-Mar-15 22-Jan-15	1328 -436	Calendar Day		
	od Relief System Construction	4	4	22-Sep-14 A	22-Jan-15 26-Sep-14	-430	HK Working Day		
S7-191212-260	Backfilling for 1050mm FRP installation & Strut Removal	4	4		26-Sep-14	-339	HK Working Day		Backfilling for 1050mm FRP inst
Vorks in Area 7		27		05-Sep-14 A	06-Oct-14	-882	Calendar Day		
S7-1700 S7-1800	D-Wall Trimming, Drain Installation & Backfilling to Ground Level (13,500m3; 1,000m3/d) Completion of Tunnel Portion 1 Backfilling	21	16 0	05-Sep-14 A	06-Oct-14 06-Oct-14	-1132 -882	Calendar Day Calendar Day		D-Wall Trimming, Drai
	g for Dining Services at Ferry Pier (VO116)	90		07-Oct-14	22-Jan-15	-871	Caloridal Bay		
Civil Works		90			22-Jan-15	-907			
S7-TB-2000 S7-TB-2010	Lay 500mm thk. Rubble Mound Blinding Laver	2	2	07-Oct-14 09-Oct-14	08-Oct-14 09-Oct-14	-907 -907	HK Working Day HK Working Day		Lay 500mm thk. Rul
S7-TB-2020	Base Slab Construction (9.3m x 4.9m x 1m thick)	7	7		17-Oct-14	-907	HK Working Day		Base Slab
S7-TB-2030	Concrete Plinth, Side Wall, Beam & Corbel	14	14		05-Nov-14	-907	HK Working Day		
S7-TB-2040	Concrete In-Fill at Basement	3	3	10-Nov-14	12-Nov-14	-907	HK Working Day		
S7-TB-2050 S7-TB-2060	Outer Wall & Partition Wall Scaffolding Erection & Roof Construction	21	21 21	13-Nov-14 08-Dec-14	06-Dec-14 03-Jan-15	-907 -907	HK Working Day HK Working Day		
S7-TB-2070	Curing	14	14		17-Jan-15	-1131	Calendar Day		
S7-TB-2080	Formwork Removal & Scaffolding Dismantling	4	4		22-Jan-15	-907	HK Working Day		
E&M Works S7-TB-4100	22kV Cable across HHR to Transformer Building by HEC	45 45		07-Oct-14 07-Oct-14	20-Nov-14 20-Nov-14	-1016 -1016	Calendar Day Calendar Day		
	orks - Reprovisioning of Wan Chai Ferry Pier in Area 8	212		10-Sep-13 A	20-Oct-14	1464	Calendar Day		
BWF & E&M Install	ation	212		<u> </u>	20-Oct-14	1464	Calendar Day		
Roof S8A-BS-4010	E&M Installation	212 28		10-Sep-13 A 10-Sep-13 A	20-Oct-14 30-Sep-14	1464 1484	Calendar Day Calendar Day		E&M Installation
	ABWF Works at Observation Deck of Ferry Pier	120		28-Oct-13 A	20-Oct-14	1464	Calendar Day		
S8B-FP-01100	Roof Finishes & Misc. ABWF Installation	120		28-Oct-13 A	20-Oct-14	1464	Calendar Day	!	Roof Fin
S8B-FP-01300	Handrail & Glass Balustrade Installation	45 295		21-Dec-13 A 11-Feb-14 A	27-Sep-14 14-Feb-15	1487 20	Calendar Day		Handrail & Glass Balustrade Ir
unnel Portion 2 (Cl	orks - CWB Tunnel Structure (CH3400 - CH3796) 13425-CH3500)			11-Jun-14 A	27-Jan-15	36			
Foundation		77		11-Jun-14 A	21-Oct-14	117			
S9B-T2-1125	Installation of Pump Test Equipment	35		11-Jun-14 A	07-Oct-14	117	HK Working Day		Installation of Pump
S9B-T2-1130 CWB Structural Wo	Tunnel portion 2 Pump Test	14	14 105	08-Oct-14 06-Aug-14 A	21-Oct-14 27-Jan-15	-9	Calendar Day HK Working Day		Tunnel
S9B-T2-2000	Tunnel portion 2 ELSW excavation (62,500m3; 500m3/d)			06-Aug-14 A 06-Aug-14 A	27-Jan-15 27-Jan-15	-9	HK Working Day		
unnel Portion 3 & T	iunnel Portion 4 (CH3630-CH3790)	295	121	11-Feb-14 A	14-Feb-15	-297			
Foundation				11-Feb-14 A	14-Feb-15	-297			
Stage 2 - Southern S9B-T34-1230C	Wall after HHR Flyover Diversion (Stage 1) (C130A-P131; P144-C154) Pre-grouting & Guidewall for P147-P154	360 28		11-Feb-14 A 11-Feb-14 A	14-Feb-15 04-Oct-14	- <u>362</u> -271	Calendar Day Calendar Day		Pre-grouting & Guidewal
		20							

(W) (Chun wo - Crgl Joint Venture

Actual Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) <u>3-MONTH ROLLING PROGRAMME (dd 20-Sep-14)</u>

		CHUN W	'O - C	RGL J		/ENTURE
Sep		2014 Oct	4	Nov	Dec	2015 Jan
57		58		59	60	61
•		n 7 Works (831 days) - Box n 8C Works (1473 days) - L			0-Feb-14)	
				overed Walkway (overed Walkway (Type 1)	■Section 8¢ Works (1473 da
		Re	instatement of	armour rock, reta	ining walls & new co	vered walkway along Expo Dr
		Outstanding Works				
		Backfilling to Bay 6 to Bay	v 11 (2,000m3;		nding Works	
	—	Backfilling for 1050mm FRP				
		Completion of Tunr	nel Portion 1 Ba	ackfilling	Sround Level (13,50	uins; 1,000m3/a)
		Binding Layer Base Sl		n (9.3m x 4.9m x 1 crete Plinth, Side Concrete In-Fil	Wall, Beam & Corbe at Basement	& Partition Wall
		-		22kV C	able across HHR to	Scaffolding Er
		E&M Installation				
		Handrail & Glass Balustrad		sc. ABWF Installat	iòn	
		Installation of Pun	np Test Equipm nel portion 2 P			
		Pre-grouting & Guide	ewall for P147-	P154		
Date 20-Sep- 20-Feb-		Revision RP eline Prog	Checked	Approved		ge 1 of 2 B-Month Rolling, Temp ep-14 10:22

CEDD CONTRACT HK/2009/02

ctivity ID Act	tivity Name	OD	RD	Start	Finish	Total	Calendar			2014	
						Float		Sep 57		Oct 58	┝
S9B-T34-1260B Bo	red Pile Construction (PS30-PS32; 14d/pile; 1 Rig)	42	14	07-Aug-14 A	04-Oct-14	-229	Calendar Day		E	Bored Pile Construction	(PS
S9B-T34-1250C D-v	wall Construction along HHR slow lane (P147-C152, C154; 6d/Panel)	42	42	04-Jan-15	14-Feb-15	-362	Calendar Day				Ì
Stage 3 - Northern Wall	after TWCR4 Reclamation (C88-C105)	105	105	21-Sep-14	03-Jan-15	-362	Calendar Day				1
S9B-T34-1435C D-\	Wall Plant Mobilization after HHR Stage 2	21	21	21-Sep-14	11-Oct-14	-362	Calendar Day			D-Wall Plant Mot	olizat
S9B-T34-1430C D-\	wall Construction at TWCR4 (C88-P94; P101-C105; 6d/Panel)	84	84	12-Oct-14	03-Jan-15	-362	Calendar Day			⊊ <mark></mark>	÷–
Stage 4 - Southern Wall	after HHR Flyover Diversion (Stage 2) (P132-P143)	96	96	22-Oct-14	25-Jan-15	-438	Calendar Day				1
S9B-T34-1600 Co	mplete Removal of Approach Ramp of Existing HHR Flyover	0	0	22-Oct-14		-438	Calendar Day			📑 Compl	ete F
S9B-T34-1610 Pre	e-drilling at HHR Flyover	26	26	22-Oct-14	16-Nov-14	-438	Calendar Day			-	_
S9B-T34-1620 Pre	e-grouting at HHR Flyover	21	21	17-Nov-14	07-Dec-14	-389	Calendar Day				
S9B-T34-1630 Gu	uide Wall construction at HHR Flyover	21	21	17-Nov-14	07-Dec-14	-389	Calendar Day				1
S9B-T34-1650 Boi	red Pile Construction (PS34-PS38; 14d/pile; 1 Rig)	70	70	17-Nov-14	25-Jan-15	-438	Calendar Day				
Temp Works for HHR Fly	yover Diversion (Stage 2)	28	28	22-Sep-14	26-Oct-14	-295					
At-Grade Roadworks		28	28	22-Sep-14	26-Oct-14	-295				L	
S9B-TTA-4500 De	molish of Approach Ramp of Existing HHR Flyover for D-Wall Construction	24	24	22-Sep-14	21-Oct-14	-352	HK Working Day			Demoli	
S9B-TTA-4600 Util	lity Diversion for D-Wall near Existing HHR Flyover Approach Ramp	35	35	22-Sep-14	26-Oct-14	-368	Calendar Day			Ut	tility D
Section 11 of the Works -	- Remainder of Works	135	124	30-Aug-14 A	25-Feb-15	-330					
Marine Works at WCR3		135	124	30-Aug-14 A	25-Feb-15	-330					
S11-R3-1000 De	emolition of Existing Ferry Pier	60	59	30-Aug-14 A	01-Dec-14	-314	HK Working Day	Ļ			<u> </u>
S11-R3-1100 Mo	bilisation of Dredger of 1st Stage Dredging	2	2	21-Sep-14	22-Sep-14	-413	Calendar Day		Mobilisation d	of Dredger of 1st Stage	Dre
S11-R3-0500A Fal	brication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 2 Nos.)	60	60	21-Sep-14	19-Nov-14	-407	Calendar Day				÷,
S11-R3-1200 1st	t Stage Dredging at Permanent Seawall Area by Night Work (60,000m3 @ 2,000m3/d)	30	30	23-Sep-14	29-Oct-14	-333	Working Day				1st s
S11-R3-1300 1st	t Stage Rockfilling for Seawall by Night Work (24,000m3 @ 1000m3/d)	24	24	29-Oct-14	22-Nov-14	-415	Calendar Day			F	<u> </u>
S11-R3-0500B Fal	brication of Caisson Seawalls for WCR3 Reclamation (2nd Stage - 3 Nos.)	90	90	20-Nov-14	17-Feb-15	-407	Calendar Day	1			1
S11-R3-1400 Pla	acing leveling stones to -6.0mPD (1500m2 @ 40m2/d)	38	38	22-Nov-14	30-Dec-14	-415	Calendar Day				
S11-R3-1600 2nd	d Stage Dredging except the Existing Wan Chai Ferry Pier (20,000m3 @ 1,000m3/d)	20	20	02-Dec-14	21-Dec-14	-390	Calendar Day				
S11-R3-1500 Ins	stallation of Permanent Seawall (3 nos.) & Rockfilling behind seawall	16	16	30-Dec-14	15-Jan-15	-415	Calendar Day				
S11-R3-1700 Re	clamation from -14 mPD to -2.0mPD by Hopper (121,000m3 @ 3,000m3/d)	41	41	15-Jan-15	25-Feb-15	-415	Calendar Day]
Soft Landscaping & Esta	blishment Works	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				
Section 8C of the Works -	Landscape Softworks in Area 8	90	90	21-Sep-14	19-Dec-14	-312	Calendar Day				
S8C-0010 Ca	arry out landscape soft work on new ferry pier	90	90	21-Sep-14	19-Dec-14	-312	Calendar Day				i
Section 8D of the Works -	Establishment Works in Area 8	365	365	20-Dec-14	19-Dec-15	-312	Calendar Day				1
S8D-0010 Ca	rry out establishment work on new ferry pier	365	365	20-Dec-14	19-Dec-15	-312	Calendar Day				1
Section 12 of the Works -	Protection and Preservation of Existing Trees	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				1
S12-0010 Pro	otection and preservation of existing trees	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				È.



Remaining Work Actual Work Summary Bar Critical Remaining Work Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Sep-14)

Dete Revision Cincked Approved		CHUN	I WO - C	RGL	JOINT VE	NTURE
St St<	Sen	Oct	2014	Nov	Dec	
Devide Plant Mobipation after HHR Stage 2 Devide Construction Comprise Removal of Approach Remo of Existing HHR Flower Pre-driling at HHR Flower Pre-driling at HHR Flower Comprise Removal of Approach Removal of Remova	57	58	opstruction (PS30 PS3	59	60	
Data Revision Checked Approved Page 2 of 2 Sep-14 Strept-14					/	-
David Cons Devide Devide <thdevide< th=""> <thdevide< th=""> <thdevide< td=""><td></td><td>D-Wa</td><td>Il Plant Mobilization afte</td><td>er HHR Stage 2</td><td></td><td></td></thdevide<></thdevide<></thdevide<>		D-Wa	Il Plant Mobilization afte	er HHR Stage 2		
Dete Revision Checked Approved Prove Page 2 of 2 TASK filters: 3:Month Rolling, Temp		5				D-wall Const
Demolsih of Approach Remy of Existing HHR Piyore for D-Wall Construction Utily Diversion for D-Wall new Existing HHR Piyore for D-Wall Construction Demolsih of Approach Mobilisation of Dredger of 1st Stage Dredging Demolsih of Caisson Seawalls for WCR3 Reclamation 1st Stage Dredging Demolsih of Caisson Seawalls for WCR3 Reclamation 1st Stage Dredging Carry out-andscape soft w 1st Stage Dredging Carry out-andscape soft w 1st Stage Dredging Carry out-andscape soft w 2st Stage Dredging Carry out-andscape soft w 3st Stage Dredging Carry out-andscape soft w 2st Sta			Complete Remova	al of Approach Ra	amp of Existing HHR Flyove	er
Date Revision Onecked Approved Page 2 of 2 388-14 3MRP			>	Pre-drilling		
Date Revision Checked Approved Proge 2 of 2 Sep-14 3MRP				÷		
Date Revision Checked Approved Page 2 of 2 Table Revision Checked Approved Page 2 of 2 Table Table Table Table Table Table				► 		
Date Revision Checked Approved Page 2 of 2 Table Revision Checked Approved Page 2 of 2 Table Table Table Table Table Table						
Dele Revision Checked Approved Page 2 of 2 Sep-14 3MRP	_ <mark>⊂</mark>					
Dele Revision Checked Approved Page 2 of 2 Sep-14 3MRP						
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP					Demolition of Existing	Ferry Pier
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP		Mobilisation of Dredger of	of 1st Stage Dredging	Fabrica	tion of Caisson Seawallo f	or WCR3 Reclamation
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP	-			Dredg <mark>i</mark> ng at Perm	anent Seawall Area by Nigh	nt Work (60,000m3 @ 3
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP				1st s	tage Rockfilling for Seawa	ll by Night Work (24,00
Date Revision Checked Approved Page 2 of 2						Placing leveling s
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.					21	
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.						
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.						
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.	-				Carr	y out landscape soft w
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.					L-	
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.						
D-Sep-14 3MRP Page 2 of 2 D-Feb-14 Baseline Prog TASK filters: 3-Month Rolling, Temp 2_3.						
2_3.)-Sep-14	3MRP	Checked	Approved	-	
	-Feb-14	Baseline Prog				nun koning, Temp
						4 10:22

EDD CO	ONTRACT HK/2009/02								CHUN WC
' ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar	Sep 57	2014 Oct 58
	ment Phase II - Central - Wan Chai Bypass at Wan Chai East (dd 20-Sep-14)	1909		24-Feb-10 A	27-Aug-16	631			
rogramme Milesto Contractual Comple	nes (Revised up to EOTO No.10 Issued on 29-Nov-13)	90	90	20-Sep-14 20-Sep-14	19-Dec-14 20-Sep-14	-312 -222	Calendar Day Calendar Day		
KDC0110	Section 7 Works (831 days) - Box Culvert N1 & Works at Aea 7 (7-May-12)	0	0	20-06p-14	20-Sep-14*	-866	Calendar Day	♦ Se	ection 7 Works (831 days) - Box Cul
	& Establishment Key Dates	0		20-Sep-14	20-Sep-14	-222	Calendar Day		
KDC0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14)	0	0	19-Dec-14	20-Sep-14* 19-Dec-14	-222 -312	Calendar Day Calendar Day	• e	ection 8C Works (1473 days) - Land
	& Establishment Key Dates	0		19-Dec-14	19-Dec-14	-312	Calendar Day	L	
KDF0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8	0	0 21		19-Dec-14 11-Oct-14	-312 1473	Calendar Day Calendar Day		
Critical Procurement	t & Site Delivery	60	21		11-Oct-14 11-Oct-14	1473	Calendar Day		
PRE-PRO-1100A	GRP Roof Panel for Temp Covered Walkway (Type 1)	60	21		11-Oct-14	1473	Calendar Day		GRP Roof Panel
PRE-PRO-1100B	GRP Roof Panel for Temp Covered Walkway (Type 2)	60 254	21	15-Jun-14 A 11-Aug-12 A	11-Oct-14 22-Oct-14	1473 1173	Calendar Day		GRP Roof Panel
Outstanding Works	rks - Reprovisioning of Government Helipad and Public Toilet	254		11-Aug-12 A	22-Oct-14 22-Oct-14	1173	HK Working Day		
S3-0070-1499	Reinstatement of armour rock, retaining walls & new covered walkway along Expo Drive East	254		11-Aug-12 A	22-Oct-14	1173	HK Working Day		Reinst
	orks - Cooling Water Pumping System for Sun Hung Kai Centre (P8)	365		16-Feb-14 A	15-Feb-15	1346	Calendar Day		
Cooling Mains Work S4A-0900	above Tunnel Portion & connecting to Pump Station Outstanding Works	365 365		16-Feb-14 A 16-Feb-14 A	15-Feb-15 15-Feb-15	1346 1346	Calendar Day Calendar Day		
	orks - Cooling Water Pumping System for China Resources Building (P9)	365		01-Oct-13 A	30-Sep-14	1484	Calendar Day		
· · · · · · · · · · · · · · · · · · ·	above Tunnel Portion & connecting to Pump Station	365		01-Oct-13 A	30-Sep-14	1484	Calendar Day		 I I
S4B-0900	Outstanding Works	365		01-Oct-13 A 21-Nov-13 A	30-Sep-14	1484 1433	Calendar Day		Outstanding Works
	orks - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7) above Tunnel Portion & connecting to Pump Station	365 365		21-Nov-13A 21-Nov-13A	20-Nov-14 20-Nov-14	1433	Calendar Day Calendar Day		
S4C-0900	Outstanding Works	365		21-Nov-13 A	20-Nov-14	1433	Calendar Day		
	rks - WSD Salt Water Pumping System	549	131	20-Apr-13 A	05-Mar-15	1067			
Salt Water In take Cu	Ivert Construction Pet Garden & Hung Hing Road	23 23	7	20-Apr-13 A 20-Apr-13 A	29-Sep-14 29-Sep-14	-707 -707	HK Working Day HK Working Day		
S5-100-3333	Backfilling to Bay 6 to Bay 11 (2,000m3; 150m3/d)	23		20-Apr-13 A	29-Sep-14 29-Sep-14	-707	HK Working Day		Backfilling to Bay 6 to Bay 11
	mmissioning of Reprovisioned Salt Water Intake System	365			05-Mar-15	1328	Calendar Dav		
S5-0900	Outstanding Works rks - Box Culvert N1 & Flood Relief System	365		06-Mar-14 A 05-Sep-14 A	05-Mar-15 22-Jan-15	1328 -436	Calendar Day		
	od Relief System Construction	4	4	22-Sep-14 A	22-Jan-15 26-Sep-14	-430	HK Working Day		
S7-191212-260	Backfilling for 1050mm FRP installation & Strut Removal	4	4		26-Sep-14	-339	HK Working Day		Backfilling for 1050mm FRP inst
Vorks in Area 7		27		05-Sep-14 A	06-Oct-14	-882	Calendar Day		
S7-1700 S7-1800	D-Wall Trimming, Drain Installation & Backfilling to Ground Level (13,500m3; 1,000m3/d) Completion of Tunnel Portion 1 Backfilling	21	16 0	05-Sep-14 A	06-Oct-14 06-Oct-14	-1132 -882	Calendar Day Calendar Day		D-Wall Trimming, Drai
	g for Dining Services at Ferry Pier (VO116)	90		07-Oct-14	22-Jan-15	-871	Caloridal Bay		
Civil Works		90			22-Jan-15	-907			
S7-TB-2000 S7-TB-2010	Lay 500mm thk. Rubble Mound Blinding Laver	2	2	07-Oct-14 09-Oct-14	08-Oct-14 09-Oct-14	-907 -907	HK Working Day HK Working Day		Lay 500mm thk. Rul
S7-TB-2020	Base Slab Construction (9.3m x 4.9m x 1m thick)	7	7		17-Oct-14	-907	HK Working Day		Base Slab
S7-TB-2030	Concrete Plinth, Side Wall, Beam & Corbel	14	14		05-Nov-14	-907	HK Working Day		
S7-TB-2040	Concrete In-Fill at Basement	3	3	10-Nov-14	12-Nov-14	-907	HK Working Day		
S7-TB-2050 S7-TB-2060	Outer Wall & Partition Wall Scaffolding Erection & Roof Construction	21	21 21	13-Nov-14 08-Dec-14	06-Dec-14 03-Jan-15	-907 -907	HK Working Day HK Working Day		
S7-TB-2070	Curing	14	14		17-Jan-15	-1131	Calendar Day		
S7-TB-2080	Formwork Removal & Scaffolding Dismantling	4	4		22-Jan-15	-907	HK Working Day		
E&M Works S7-TB-4100	22kV Cable across HHR to Transformer Building by HEC	45 45		07-Oct-14 07-Oct-14	20-Nov-14 20-Nov-14	-1016 -1016	Calendar Day Calendar Day		
	orks - Reprovisioning of Wan Chai Ferry Pier in Area 8	212		10-Sep-13 A	20-Oct-14	1464	Calendar Day		
BWF & E&M Install	ation	212		<u> </u>	20-Oct-14	1464	Calendar Day		
Roof S8A-BS-4010	E&M Installation	212 28		10-Sep-13 A 10-Sep-13 A	20-Oct-14 30-Sep-14	1464 1484	Calendar Day Calendar Day		E&M Installation
	ABWF Works at Observation Deck of Ferry Pier	120		28-Oct-13 A	20-Oct-14	1464	Calendar Day		
S8B-FP-01100	Roof Finishes & Misc. ABWF Installation	120		28-Oct-13 A	20-Oct-14	1464	Calendar Day	!	Roof Fin
S8B-FP-01300	Handrail & Glass Balustrade Installation	45 295		21-Dec-13 A 11-Feb-14 A	27-Sep-14 14-Feb-15	1487 20	Calendar Day		Handrail & Glass Balustrade Ir
unnel Portion 2 (Cl	orks - CWB Tunnel Structure (CH3400 - CH3796) 13425-CH3500)			11-Jun-14 A	27-Jan-15	36			
Foundation		77		11-Jun-14 A	21-Oct-14	117			
S9B-T2-1125	Installation of Pump Test Equipment	35		11-Jun-14 A	07-Oct-14	117	HK Working Day		Installation of Pump
S9B-T2-1130 CWB Structural Wo	Tunnel portion 2 Pump Test	14	14 105	08-Oct-14 06-Aug-14 A	21-Oct-14 27-Jan-15	-9	Calendar Day HK Working Day		Tunnel
S9B-T2-2000	Tunnel portion 2 ELSW excavation (62,500m3; 500m3/d)			06-Aug-14 A 06-Aug-14 A	27-Jan-15 27-Jan-15	-9	HK Working Day		
unnel Portion 3 & T	iunnel Portion 4 (CH3630-CH3790)	295	121	11-Feb-14 A	14-Feb-15	-297			
Foundation				11-Feb-14 A	14-Feb-15	-297			
Stage 2 - Southern S9B-T34-1230C	Wall after HHR Flyover Diversion (Stage 1) (C130A-P131; P144-C154) Pre-grouting & Guidewall for P147-P154	360 28		11-Feb-14 A 11-Feb-14 A	14-Feb-15 04-Oct-14	- <u>362</u> -271	Calendar Day Calendar Day		Pre-grouting & Guidewal
		20							

(W) (Chun wo - Crgl Joint Venture

Actual Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) <u>3-MONTH ROLLING PROGRAMME (dd 20-Sep-14)</u>

		CHUN W	'O - C	RGL J		/ENTURE
Sep		2014 Oct	4	Nov	Dec	2015 Jan
57		58		59	60	61
•		n 7 Works (831 days) - Box n 8C Works (1473 days) - L			0-Feb-14)	
				overed Walkway (overed Walkway (Type 1)	■Section 8¢ Works (1473 da
		Re	instatement of	armour rock, reta	ining walls & new co	vered walkway along Expo Dr
		Outstanding Works				
		Backfilling to Bay 6 to Bay	v 11 (2,000m3;		nding Works	
	—	Backfilling for 1050mm FRP				
		Completion of Tunr	nel Portion 1 Ba	ackfilling	Sround Level (13,50	unns; 1,000m3/a)
		Binding Layer Base Sl		n (9.3m x 4.9m x 1 crete Plinth, Side Concrete In-Fil	Wall, Beam & Corbe at Basement	& Partition Wall
		-		22kV C	able across HHR to	Scaffolding Er
		E&M Installation				
		Handrail & Glass Balustrad		sc. ABWF Installat	iòn	
		Installation of Pun	np Test Equipm nel portion 2 P			
		Pre-grouting & Guide	ewall for P147-	P154		
Date 20-Sep- 20-Feb-		Revision RP eline Prog	Checked	Approved		ge 1 of 2 B-Month Rolling, Temp ep-14 10:22

CEDD CONTRACT HK/2009/02

ctivity ID Act	tivity Name	OD	RD	Start	Finish	Total	Calendar			2014	
						Float		Sep 57		Oct 58	┝
S9B-T34-1260B Bo	red Pile Construction (PS30-PS32; 14d/pile; 1 Rig)	42	14	07-Aug-14 A	04-Oct-14	-229	Calendar Day		E	Bored Pile Construction	(PS
S9B-T34-1250C D-v	wall Construction along HHR slow lane (P147-C152, C154; 6d/Panel)	42	42	04-Jan-15	14-Feb-15	-362	Calendar Day				Ì
Stage 3 - Northern Wall	after TWCR4 Reclamation (C88-C105)	105	105	21-Sep-14	03-Jan-15	-362	Calendar Day				1
S9B-T34-1435C D-\	Wall Plant Mobilization after HHR Stage 2	21	21	21-Sep-14	11-Oct-14	-362	Calendar Day			D-Wall Plant Mot	olizat
S9B-T34-1430C D-\	wall Construction at TWCR4 (C88-P94; P101-C105; 6d/Panel)	84	84	12-Oct-14	03-Jan-15	-362	Calendar Day			⊊ <mark></mark>	÷–
Stage 4 - Southern Wall	after HHR Flyover Diversion (Stage 2) (P132-P143)	96	96	22-Oct-14	25-Jan-15	-438	Calendar Day				1
S9B-T34-1600 Co	mplete Removal of Approach Ramp of Existing HHR Flyover	0	0	22-Oct-14		-438	Calendar Day			📑 Compl	ete F
S9B-T34-1610 Pre	e-drilling at HHR Flyover	26	26	22-Oct-14	16-Nov-14	-438	Calendar Day			-	_
S9B-T34-1620 Pre	e-grouting at HHR Flyover	21	21	17-Nov-14	07-Dec-14	-389	Calendar Day				
S9B-T34-1630 Gu	uide Wall construction at HHR Flyover	21	21	17-Nov-14	07-Dec-14	-389	Calendar Day				1
S9B-T34-1650 Boi	red Pile Construction (PS34-PS38; 14d/pile; 1 Rig)	70	70	17-Nov-14	25-Jan-15	-438	Calendar Day				
Temp Works for HHR Fly	yover Diversion (Stage 2)	28	28	22-Sep-14	26-Oct-14	-295					
At-Grade Roadworks		28	28	22-Sep-14	26-Oct-14	-295				L	
S9B-TTA-4500 De	molish of Approach Ramp of Existing HHR Flyover for D-Wall Construction	24	24	22-Sep-14	21-Oct-14	-352	HK Working Day			Demoli	
S9B-TTA-4600 Util	lity Diversion for D-Wall near Existing HHR Flyover Approach Ramp	35	35	22-Sep-14	26-Oct-14	-368	Calendar Day			Ut	tility D
Section 11 of the Works -	- Remainder of Works	135	124	30-Aug-14 A	25-Feb-15	-330					
Marine Works at WCR3		135	124	30-Aug-14 A	25-Feb-15	-330					
S11-R3-1000 De	emolition of Existing Ferry Pier	60	59	30-Aug-14 A	01-Dec-14	-314	HK Working Day	Ļ			<u> </u>
S11-R3-1100 Mo	bilisation of Dredger of 1st Stage Dredging	2	2	21-Sep-14	22-Sep-14	-413	Calendar Day		Mobilisation of	of Dredger of 1st Stage	Dre
S11-R3-0500A Fal	brication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 2 Nos.)	60	60	21-Sep-14	19-Nov-14	-407	Calendar Day				÷,
S11-R3-1200 1st	t Stage Dredging at Permanent Seawall Area by Night Work (60,000m3 @ 2,000m3/d)	30	30	23-Sep-14	29-Oct-14	-333	Working Day				1st s
S11-R3-1300 1st	t Stage Rockfilling for Seawall by Night Work (24,000m3 @ 1000m3/d)	24	24	29-Oct-14	22-Nov-14	-415	Calendar Day			F	<u> </u>
S11-R3-0500B Fal	brication of Caisson Seawalls for WCR3 Reclamation (2nd Stage - 3 Nos.)	90	90	20-Nov-14	17-Feb-15	-407	Calendar Day	1			1
S11-R3-1400 Pla	acing leveling stones to -6.0mPD (1500m2 @ 40m2/d)	38	38	22-Nov-14	30-Dec-14	-415	Calendar Day				
S11-R3-1600 2nd	d Stage Dredging except the Existing Wan Chai Ferry Pier (20,000m3 @ 1,000m3/d)	20	20	02-Dec-14	21-Dec-14	-390	Calendar Day				
S11-R3-1500 Ins	stallation of Permanent Seawall (3 nos.) & Rockfilling behind seawall	16	16	30-Dec-14	15-Jan-15	-415	Calendar Day				
S11-R3-1700 Re	clamation from -14 mPD to -2.0mPD by Hopper (121,000m3 @ 3,000m3/d)	41	41	15-Jan-15	25-Feb-15	-415	Calendar Day]
Soft Landscaping & Esta	blishment Works	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				
Section 8C of the Works -	Landscape Softworks in Area 8	90	90	21-Sep-14	19-Dec-14	-312	Calendar Day				
S8C-0010 Ca	arry out landscape soft work on new ferry pier	90	90	21-Sep-14	19-Dec-14	-312	Calendar Day				i
Section 8D of the Works -	Establishment Works in Area 8	365	365	20-Dec-14	19-Dec-15	-312	Calendar Day				1
S8D-0010 Ca	rry out establishment work on new ferry pier	365	365	20-Dec-14	19-Dec-15	-312	Calendar Day				1
Section 12 of the Works -	Protection and Preservation of Existing Trees	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				1
S12-0010 Pro	otection and preservation of existing trees	2375	707	24-Feb-10 A	27-Aug-16	0	Calendar Day				È.



Remaining Work Actual Work Summary Bar Critical Remaining Work Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Sep-14)

Dete Revision Cincked Approved		CHUN	I WO - C	RGL	JOINT VE	NTURE
St St<	Sen	Oct	2014	Nov	Dec	
Devide Plant Mobipation after HHR Stage 2 Devide Construction Comprise Removal of Approach Remo of Existing HHR Flower Pre-driling at HHR Flower Pre-driling at HHR Flower Comprise Removal of Approach Removal of Remova	57	58	opstruction (PS30 PS3	59	60	
Data Revision Checked Approved Page 2 of 2 Sep-14 Strept-14					/	-
David Cons Devide Devide <thdevide< th=""> <thdevide< th=""> <thdevide< td=""><td></td><td>D-Wa</td><td>Il Plant Mobilization afte</td><td>er HHR Stage 2</td><td></td><td></td></thdevide<></thdevide<></thdevide<>		D-Wa	Il Plant Mobilization afte	er HHR Stage 2		
Dete Revision Checked Approved Prove Page 2 of 2 TASK filters: 3:Month Rolling, Temp		5				D-wall Const
Demolsih of Approach Remy of Existing HHR Piyore for D-Wall Construction Utily Diversion for D-Wall new Existing HHR Piyore for D-Wall Construction Demolsih of Approach Mobilisation of Dredger of 1st Stage Dredging Demolsih of Caisson Seawalls for WCR3 Reclamation 1st Stage Dredging Demolsih of Caisson Seawalls for WCR3 Reclamation 1st Stage Dredging Carry out-andscape soft w 1st Stage Dredging Carry out-andscape soft w 1st Stage Dredging Carry out-andscape soft w 2st Stage Dredging Carry out-andscape soft w 3st Stage Dredging Carry out-andscape soft w 2st Sta			Complete Remova	al of Approach Ra	amp of Existing HHR Flyove	er
Date Revision Onecked Approved Page 2 of 2 388-14 3MRP			>	Pre-drilling		
Date Revision Checked Approved Proge 2 of 2 Sep-14 3MRP				÷		
Date Revision Checked Approved Page 2 of 2 Table Revision Checked Approved Page 2 of 2 Table Table Table Table Table Table				►		
Date Revision Checked Approved Page 2 of 2 Table Revision Checked Approved Page 2 of 2 Table Table Table Table Table Table						
Dele Revision Checked Approved Page 2 of 2 Sep-14 3MRP	_ <mark>⊂</mark>					
Dele Revision Checked Approved Page 2 of 2 Sep-14 3MRP						
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP					Demolition of Existing	Ferry Pier
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP		Mobilisation of Dredger of	of 1st Stage Dredging	Fabrica	tion of Caisson Seawallo f	or WCR3 Reclamation
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP	-			Dredg <mark>i</mark> ng at Perm	anent Seawall Area by Nigh	nt Work (60,000m3 @ 3
Date Revision Checked Approved Page 2 of 2 Sep-14 3MRP				1st s	tage Rockfilling for Seawa	ll by Night Work (24,00
Date Revision Checked Approved Page 2 of 2						Placing leveling s
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.					21	
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.						
Date Revision Checked Approved -Sep-14 3MRP Image: Sep-14 3MRP -Feb-14 Baseline Prog Image: Sep-14 TASK filters: 3-Month Rolling, Temp 2_3.						
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.	-				Carr	y out landscape soft w
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.						
Page 2 of 2 Page 2 of 2 Page 2 of 2 TASK filters: 3-Month Rolling, Temp 2_3.						
D-Sep-14 3MRP Page 2 of 2 D-Feb-14 Baseline Prog TASK filters: 3-Month Rolling, Temp 2_3.						
2_3.)-Sep-14	3MRP	Checked	Approved	-	
	-Feb-14	Baseline Prog				nun koning, Temp
						4 10:22

	DNTRACT HK/2009/02									CH	Uľ	N	VV	J
y ID	Activity Name	OD	RD	Start	Finish	Total	Calendar	2014					201	5
						Float			Jan 61	Feb 62		<u> </u>		-
an Chai Develop n	nent Phase II - Central - Wan Chai Bypass at Wan Chai East (dd 20-Jan-14)	1909	469	24-Feb-10 18:00 A	29-Aug-16 18:00	640								
	nes (Revised up to EOTO No.10 Issued on 29-Nov-13)	106	106		07-May-15 08:00	-28	Calendar Day							
Contractual Complet KDC0110		21	21 0	20-Jan-15 18:00	10-Feb-15 18:00	0	Calendar Day			an 7 Works (831 days) - Bay Cu	ub cort b	NI4 0 1	Marka	~+
	Section 7 Works (831 days) - Box Culvert N1 & Works at Area 7 (7-May-12) Establishment Key Dates	0 21		20-Jan-15 18:00	20-Jan-15 18:00*	-988 0	Calendar Day Calendar Day		- secu	on 7 Works (831 days) - Box Cul	wert i	NIGN	VOIKS a	at.
KDC0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14)	0	0		20-Jan-15 18:00*	-344	Calendar Day		♦ €ecti	on 8C Works (1473 days) - Land	dscap	be Sof	tworks	r
KDC0150	Section 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15)	0	0		10-Feb-15 18:00*	0	Calendar Day			 Section 8D W 	/orks /	(1838	√days)	•
Forecast Completior KDF0110	Dates Section 7 Works (831 days) - Box Culvert N1 & Works at Area 7	4 0	4	07-Apr-15 18:00	11-Apr-15 18:00 11-Apr-15 18:00	-425 -1069	Calendar Day Calendar Day					<u> </u>		
	Establishment Key Dates	0		07-Apr-15 18:00	· · ·	-421	Calendar Day							
KDF0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8	0	0		07-Apr-15 18:00	-421	Calendar Day							Ī
Possession of Site		0		07-May-15 08:00	07-May-15 08:00	-28	Calendar Day							
PS0090 Preliminaries	Possession of Portion 9 - Western Bulkhead (By HK/2009/01)	0 700		07-May-15 08:00* 08-Jun-13 08:00 A	20-May-15 18:00	-28 1264	Calendar Day Calendar Day				1			
Interface with Others		0		31-Mar-15 18:00	31-Mar-15 18:00	-308	Calendar Day							
PRE0950	Permanent Diversion of Box Culvert M by HK/2009/01	0	0		31-Mar-15 18:00*	-308	Calendar Day							-
Critical Submission a		700		08-Jun-13 08:00 A		1264	Calendar Day					_	_	
PRE-SUB-1000B PRE-SUB-1010B	Temp Covered Walkway Capping Beam - Design Approval Temp Covered Walkway Cover System (PS30.5) - Design Approval	30 30		 19-Jun-13 08:00 A 12-Jun-14 08:00 A 		1377 1377	Calendar Day			Temp Covered Walkway Capp		1	-	
CSD for CWB Tunne		30 700		08-Jun-13 08:00 A		1377	Calendar Day Calendar Day			Temp Covered Walkway Cove				ĺ
PRE-CSD-2030B	Tunnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AECOM	60	-	16-Nov-13 08:00 A		-63	Calendar Day			Tur	n nel P	Portior	1 2 - Re	d
PRE-CSD-3000B	Tunnel Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30		08-Jun-13 08:00 A		1374	Calendar Day			Tunnel Portion 3&4 - Rede	signe	ed Terr	np D-W	а
PRE-CSD-3010B	Tunnel Portion 3&4 - ELS Submission Approval by AECOM & GEO	60		17-Jan-14 08:00 A		-352	Calendar Day						n 3&4 - I	-
PRE-CSD-5000B PRE-CSD-5010A	Tunnel Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO Tunnel Portion 5 - ELS ICE Submission	60 120		15-Aug-13 08:00 A 21-Jan-15 08:00	19-Feb-15 18:00 20-May-15 18:00	-252 -346	Calendar Day Calendar Day			Iu	inel H	ortion	n 5 - Ter	U
PRE-CSD-6010A	Tunnel Portion 6 - ELS ICE Submission	120		21-Jan-15 08:00		-340	Calendar Day							ĉ
Critical Procurement		60		15-Jun-14 08:00 A	-	1363	Calendar Day							
PRE-PRO-1100B	GRP Roof Panel for Temp Covered Walkway (Type 2)	60	_	15-Jun-14 08:00 A		1363	Calendar Day			GRP Roof Pa	nel fo	r Tem	ip Cove	ſ
	ks - Reprovisioning of Government Helipad and Public Toilet	254		11-Aug-12 08:00 A		1084	HK Working Day							
Outstanding Works S3-0070-1499	Reinstatement of armour rock, retaining walls & new covered walkway along Expo Drive East	254 254		 11-Aug-12 08:00 A 11-Aug-12 08:00 A 		1084 1084	HK Working Day HK Working Day	·		Reir	state	meni	of armo	
	orks - Cooling Water Pumping System for Sun Hung Kai Centre (P8)	365	_	16-Feb-14 08:00 A		1311	Calendar Day				State	nen		ľ
	above Tunnel Portion & connecting to Pump Station	365	73	16-Feb-14 08:00 A	03-Apr-15 18:00	1311	Calendar Day							
S4A-0900	Outstanding Works	365	73	6 16-Feb-14 08:00 A	03-Apr-15 18:00	1311	Calendar Day					Ħ	-	
	orks - Cooling Water Pumping System for China Resources Building (P9)	365		01-Oct-13 08:00 A		1377	Calendar Day							
Cooling Mains Work S4B-0900	above Tunnel Portion & connecting to Pump Station Outstanding Works	365 365		01-Oct-13 08:00 A 01-Oct-13 08:00 A		1377 1377	Calendar Day Calendar Day			Outstanding Works				
	orks - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7)	365	_	21-Nov-13 08:00 A		1377	Calendar Day							
	above Tunnel Portion & connecting to Pump Station	365		21-Nov-13 08:00 A		1377	Calendar Day							
S4C-0900	Outstanding Works	365	7	21-Nov-13 08:00 A	27-Jan-15 18:00	1377	Calendar Day			Outstanding Works				
ection 5 of the Wor	ks - WSD Salt Water Pumping System	365	73	06-Mar-14 08:00 A	03-Apr-15 18:00	1311	Calendar Day							
Overall Testing & Co S5-0900	mmissioning of Reprovisioned Salt Water Intake System	365	73	06-Mar-14 08:00 A	03-Apr-15 18:00	1311	Calendar Day					\square		_
	Outstanding Works ks - Box Culvert N1 & Flood Relief System	365 116		06-Mar-14 08:00 A 29-Oct-14 08:00 A	· · ·	1311 1049	Calendar Day							1
	for Dining Services at Ferry Pier (VO116)	116		29-Oct-14 08:00 A		1049								
Civil Works		34		21-Jan-15 08:00	·	-833								j
S7-TB-2065	Waterproof application and testing for Roof Top Slab	6		21-Jan-15 08:00		-1022	Calendar Day			Waterproof applicaion and test	ing fo	r Roo		
S7-TB-2080 ABWF Works	Formwork Removal & Scaffolding Dismantling	4 72		04-Mar-15 08:00	·	-833 -695	HK Working Day Calendar Day						Fo	T
S7-TB-3000	ABWF Works	60		05-Jan-15 08:00 A	· · · · · · · · · · · · · · · · · · ·	-1035	Calendar Day Calendar Day						ABWF \	v
S7-TB-3100	Landscaping Works	30		04-Mar-15 08:00	02-Apr-15 18:00	-695	Calendar Day					F		Í
E&M Works		151		29-Oct-14 08:00 A		1317	Calendar Day							
S7-TB-4000	E&M Installation (with individual testing)	30		18-Dec-14 08:00 A		-1069	Calendar Day			E8 22kV Cable ac			on (w <mark>i</mark> th	
S7-TB-4100 S7-TB-4200	22kV Cable across HHR to Transformer Building by HEC LV Cable Laving to Ferry Pier	45 30		29-Oct-14 08:00 A 02-Jan-15 08:00 A		1364 -1068	Calendar Day Calendar Day						to Trans g to Feri	
S7-TB-4300	Trans former Installation by HEC	30		20-Feb-15 08:00	21-Mar-15 18:00	-1069	Calendar Day			-				í
S7-TB-4400	Engerization of Transformer	7	7	22-Mar-15 08:00	28-Mar-15 18:00	-1069	Calendar Day							
Overall Testing & Co		51		20-Feb-15 08:00		-1069	Calendar Day							
S7-TB-9000 S7-TB-9100	WSD Inspection & Water Cert Approval FSD Inspection & Fire Cert Approval	14 14		20-Feb-15 08:00 29-Mar-15 08:00		-1046 -1069	Calendar Day Calendar Day					–	WSD	•
	rsb inspection & File Cert Approval	212		10-Sep-13 08:00 A		1348	Calendar Day					<u> </u>		
ABWF & E&M Installa		212		10-Sep-13 08:00 A		1348	Calendar Day							
Roof		212		10-Sep-13 08:00 A		1348	Calendar Day							
S8A-BS-4010	E&M Installation	28		10-Sep-13 08:00 A		1374	Calendar Day			E&M Installation				
Works in Area 8 - A S8B-FP-01100	BWF Works at Observation Deck of Ferry Pier Roof Finishes & Misc. ABWF Installation	120 120	_	28-Oct-13 08:00 A		1348 1348	Calendar Day Calendar Day			i			inishes	8
S8B-FP-01300	Handrail & Glass Balustrade Installation	45		21-Dec-13 08:00 A		1348	Calendar Day	1					ail & Gla	
30D-FF-01300			00	21-DCC-10 00.00 A	20-1 00-10 10.00	1340								S٤

(W) (CHUN WO - CRGL JOINT VENTURE

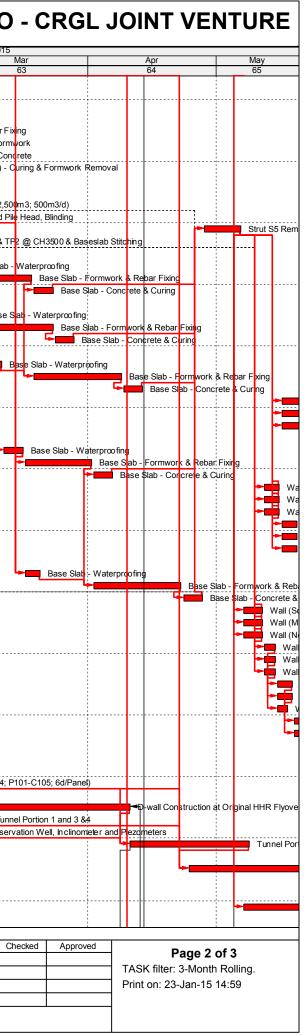
Actual Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) <u>3-MONTH ROLLING PROGRAMME (dd 20-Jan-15)</u>

	CHUI	N WO - C	RGL J		NTURE
		2015			
	Feb	Mar		Apr	May
	62	63		64	65
n 7 ۱	Vorks (831 days) - Box Culvert I	11.8. Works at Area 7 (7	May 12)		
, , , ,	VOIRS (031 days) - Box Cuivert I	and works at Area 7 (7-	iviay-12)		
on 8C	Works (1473 days) - Landscap	e Softworks in Area 8 (10)-Feb-14)		
	 Section 8D Works 	(1838 days) - Establishm	ent Works in Area 8	(10-Feb-15)	
				_	
				Section 7 Works (8	31 days) - Box Culvert
				Section 8C Works (1473	
					uays) - Lanuscape Si
					Possession
					Г
			Perman	ent Diversion of Box Culv	ert M by HK/2009/01
1 та	mn Covered Wellowey Conning F	nom Decian Approval			
	mp Covered Walkway Capping E mp Covered Walkway Cover Sys		oproval		
	······································	()g			
				Design Submission Appr	oval by AECOM
	Tunnel Portion 3&4 - Redesigne				
		ortion 3&4 - ELS Submis			
		ortion 5 - Temp D-Wall S	ubmission Approval	VAECOM & GEO	
	GRP Roof Panel fo	r Ternp Covered Walkwa	y (Type 2)		
	Deinetete	none of or nour cook, rot		warad walkway alang Ev	a Driva Foot
		ment of armour rock, reta	aining wails & new co	wered walkway along Ex	o Drive East
			Outs	standing Works	
				, and the second s	
Οι	utstanding Works				
1 0	utstanding Works				
			Outs	standing Works	
W _o	terproof applicaion and testing fo				
vva	terproor application and testing to		noval & Scaffolding D	Dismantling	
				, and the g	
	· · · · · · · · · · · · · · · · · · ·	ABWF Works			
			Lands	scaping Works	
	E8M Inc	tallation (with individual te	octing)		
		HHR to Transformer Buil	•		
		aying to Ferry Fier	u		
	-		Trans former Installa		
			Engerization	n of Transformer	
		WCD Increation	8 Mator Cort Approx		
		w sp inspection	& Water Cert Approv	vai ■■■FSD Inspection & Fi	re Cert Approval
	E&M Installation				
		oof Vinishaa 8 Miss ADV			
		oof Finishes & Nisc. ABV andrail & Glass Balustra			
	· · · · · · · · · · · · · · · · · · ·				
	Date Revision	Checked	Approved	Page 1	of 3
	J-Jan-15 3MRP		⊢────┤ -	TASK filter: 3-Month	
20	-Sep-1 Revised WP			Print on: 23-Jan-15	0
				1 mil on. 23-Jan-15	17.03
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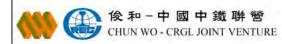
EDD CC	ONTRACT HK/2009/02									CHL	JN W
D	Activity Name	OD	RD Star	t	Finish	Total Float	Calendar 2014	Jan 61		Feb 62	20
Innel Portion 1 (CH3	1 (500-CH3630)	10	10 06-Feb-15	08:00	17-Feb-15 18:00	205		01		02	
WB Structural Work		10			17-Feb-15 18:00	205					
Bay 6 (For OHVD Ba	ise Slab & Side Wall, Combined to Bay 5)	10 10	10 06-Feb-15 10 06-Feb-15		17-Feb-15 18:00 17-Feb-15 18:00	205 205					
S9B-T1-B6-1120	Wall (Middle Late Cast) - Rebar Fixing	4	4 06-Feb-15		10-Feb-15 18:00	205	HK Working Day		_ ►	Wall (Middle Late	e Cast) - Reba
S9B-T1-B6-1130A	Wall (Middle Late Cast) - Formwork	3	3 11-Feb-15		13-Feb-15 18:00	205	HK Working Day			Wall (Middle	Late Cast) - F
S9B-T1-B6-1130B	Wall (Middle Late Cast) - Concrete	1	1 14-Feb-15	08:00	14-Feb-15 18:00	205	HK Working Day			Wall (Middle	e late (Cast)
S9B-T1-B6-1140	Wall (Middle Late Cast) - Curing & Formwork Removal	3	3 15-Feb-15		17-Feb-15 18:00	259	Calendar Day			vali (Mi	ddle Late Cast
Innel Portion 2 (CH3		225			21-May-15 18:00	-37					
WB Structural Work		225			21-May-15 18:00	-37					
S9B-T2-2000 S9B-T2-3000	Tunnel portion 2 ELSW excavation (62,500m3; 500m3/d) Tunnel Portion 2 - Trim Bored Pile Head, Blinding	125 21			04-Feb-15 13:30 12-Feb-15 17:33	-31	HK Working Day HK Working Day		[ur	nnel portion 2 ELSW	
S9B-T2-4000	Strut S5 Removal	7	7 28-Apr-15		06-May-15 18:00	-50	HK Working Day				
S9B-T2-4200	Bulk Head Demolition between TP1 & TP2 @ CH3500 & Baseslab Stitching	. 14	· ·		05-Feb-15 18:00	19	HK Working Day	>	в	ulk Head Demolition	be ween TP1
Bay 1		22			23-Mar-15 18:00	-24			L		
S9B-T2-B1-1010	Base Slab - Waterproofing	4	4 26-Feb-15	08:00	02-Mar-15 18:00	-50	HK Working Day			┕╾┎	Base S
S9B-T2-B1-1020	Base Slab - Formwork & Rebar Fixing	14	14 03-Mar-15		18-Mar-15 18:00	-38	HK Working Day				-
S9B-T2-B1-1030	Base Slab - Concrete & Curing	5	5 19-Mar-15		23-Mar-15 18:00	-35	Calendar Day				
Bay 2 S9B-T2-B2-1010	Base Slab - Waterproofing	23 4	23 03-Mar-15 4 03-Mar-15		28-Mar-15 18:00 06-Mar-15 18:00	-29 -50	HK Working Day				
S9B-T2-B2-1010 S9B-T2-B2-1020	Base Slab - Waterproofing Base Slab - Formwork & Rebar Fixing	4	4 03-Mar-15 14 07-Mar-15		23-Mar-15 18:00	-50	HK Working Day HK Working Day				B
S9B-T2-B2-1020 S9B-T2-B2-1030	Base Slab - Concrete & Curing	5			28-Mar-15 18:00	-20	Calendar Day				
Bay 3		59			20-May-15 18:00	-47					
S9B-T2-B3-1010	Base Slab - Waterproofing	4	4 07-Mar-15	08:00	11-Mar-15 18:00	-50	HK Working Day				
S9B-T2-B3-1020	Base Slab - Formwork & Rebar Fixing	14	14 19-Mar-15		08-Apr-15 18:00	-38	HK Working Day				
S9B-T2-B3-1030	Base Slab - Concrete & Curing	5	5 09-Apr-15		13-Apr-15 18:00	-56	Calendar Day				
S9B-T2-B3-3000	Wall (South) - Waterproofing	4	4 16-May-15		20-May-15 18:00	-50	HK Working Day				
S9B-T2-B3-3010	Wall (Middle) - Rebar Fixing	4			20-May-15 18:00	-47	HK Working Day				
S9B-T2-B3-3020	Wall (North) - Waterproofing	4 54			20-May-15 18:00	-50 -35	HK Working Day				
ay 4 S9B-T2-B4-1010	Base Slab - Waterproofing	- 54 - 4	4 12-Mar-15		19-May-15 18:00 16-Mar-15 18:00	-50	HK Working Day				
S9B-T2-B4-1010	Base Slab - Formwork & Rebar Fixing	14	14 17-Mar-15		01-Apr-15 18:00	-50	HK Working Day				
S9B-T2-B4-1030	Base Slab - Concrete & Curing	5	5 02-Apr-15		06-Apr-15 18:00	-49	Calendar Day				
S9B-T2-B4-3000	Wall (South) - Waterproofing	4	4 12-May-15		15-May-15 18:00	-50	HK Working Day				
S9B-T2-B4-3010	Wall (Middle) - Rebar Fixing	4	4 12-May-15		15-May-15 18:00	-47	HK Working Day				
S9B-T2-B4-3020	Wall (North) - Waterproofing	4	4 12-May-15	6 08:00	15-May-15 18:00	-50	HK Working Day				
S9B-T2-B4-3030	Wall (South) - Rebar Fixing	3	3 16-May-15	08:00	19-May-15 18:00	-38	HK Working Day				
S9B-T2-B4-3040	Wall (North) - Rebar Fixing	3			19-May-15 18:00	-38	HK Working Day				
S9B-T2-B4-3050	Wall (Middle) - Formwork & Concrete	3			19-May-15 18:00	-35	HK Working Day				
3ay 5 S9B-T2-B5-1010	Base Slab - Waterproofing	52 4			21-May-15 18:00 20-Mar-15 18:00	-37 -40	HK Working Day				
S9B-T2-B5-1010	Base Slab - Formwork & Rebar Fixing	14	14 02-Apr-15		22-Apr-15 18:00	-40	HK Working Day				
S9B-T2-B5-1030	Base Slab - Concrete & Curing	5	5 23-Apr-15		27-Apr-15 18:00	-70	Calendar Day				
S9B-T2-B5-3000	Wall (South) - Waterproofing	4	· ·		11-May-15 18:00	-50	HK Working Day				
S9B-T2-B5-3010	Wall (Middle) - Rebar Fixing	4			11-May-15 18:00	-47	HK Working Day				
S9B-T2-B5-3020	Wall (North) - Waterproofing	4			11-May-15 18:00	-50	HK Working Day				
S9B-T2-B5-3030	Wall (South) - Rebar Fixing	3	3 12-May-15		14-May-15 18:00	-34	HK Working Day				
S9B-T2-B5-3040	Wall (North) - Rebar Fixing	3			14-May-15 18:00	-34	HK Working Day				
S9B-T2-B5-3050	Wall (Middle) - Formwork & Concrete	3			14-May-15 18:00	-31	HK Working Day				
S9B-T2-B5-3060	Wall (South) - Formwork & Concrete	3			18-May-15 18:00	-34	HK Working Day				
S9B-T2-B5-3070 S9B-T2-B5-3080	Wall (North) - Formwork & Concrete Wall (Middle) - Curing & Formwork Removal	3			18-May-15 18:00 17-May-15 18:00	-34 -40	HK Working Day Calendar Day				
S9B-T2-B5-3090	Wall (Nildule) - Curing & Fornwork Removal	3			21-May-15 18:00	-40	Calendar Day				
S9B-T2-B5-3100	Wall (North) - Curing & Formwork Removal	3			21-May-15 18:00	-44	Calendar Day				
	nnel Portion 4 (CH3630-CH3790)	350	301 31-Oct-14		,	-333					
oundation		169	108 31-Oct-14	08:00 A	08-May-15 17:43	-416	Calendar Day				
	Val after TWCR4 Reclamation (C88-C105)	84			02-Feb-15 14:24	-349	Calendar Day				
S9B-T34-1430C	D-wall Construction at TWCR4 (C88-P94; P101-C105; 6d/Panel)	84			02-Feb-15 14:24	-349	Calendar Day		 ₽-wa	Ill Construction at TW	VCR4 (C88-P9
Siage 4 - Southern v S9B-T34-1640	Wall after HHR Flyover Diversion (Stage 2) (P132-P143) D-wall Construction at Original HHR Flyover Approach Ramp (P132-P143; 8d/Panel)	98 96			08-May-15 17:43 10-Apr-15 17:43	-416 -416	Calendar Day Calendar Day				
S9B-T34-1660	Capping Beam Construction Between Tunnel Portion 1 and 3 &4	14			03-Feb-15 10:42	-335	Calendar Day		Cap	ping Beam Construc	tion Between
S9B-T34-1670	Installation of Pump Well, Observation Well, Inclinometer and Piezometers	28			12-Feb-15 11:36	-358	Calendar Day			Installation of F	
S9B-T34-1700	Tun nel Portion 3 & 4 Pumping test	28			08-May-15 17:43	-416	Calendar Day				
WB Structural Work		230			-	-333	HK Working Day				
S9B-T34-2000	Tunnel Portion 3 & 4 Excavation (198,000m3 soil @1500m3/d; 2000m3 rock @100m3/d) & ELS	230	230 24-Apr-15			-333	HK Working Day				
	WB Tunnel Struucture (CH3246 - CH3400)	52			09-Jul-15 18:00	-23	HK Working Day				
Innel Portion 6 (CH3		52			09-Jul-15 18:00	-23	HK Working Day				
	Tun nel Portion 6 Bored Pile - 13nr. (3 sets @ 12d/pile)	52	52 07-May-15	08:00	09-Jul-15 18:00	-23	HK Working Day				- E
310-T6-1020	ks - Remainder of Works				23-May-15 18:00	-486	Calendar Day		i I I		11





CEDD CONTRACT HK/2009/02

tivity ID	Activity Name	OD	RD	Start	Finish	Total	Calendar	2014				2015
						Float			Jan 61		Feb 62	M
Marine Works at V	WCR3	184	123	05-Dec-14 08:00 A	23-May-15 18:00	-486	Calendar Dav		01		62	
S11-R3-0500	Fabrication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 5 Nos.)	60		05-Dec-14 08:00 A		-466	Calendar Day				Fabrica	tion of Caisson Sea
S11-R3-1300	1st Stage Rockfilling for Seawall (24,000m3 @ 1000m3/d)	24		22-Dec-14 08:00 A		-486	Calendar Dav			15	t Stage Rockfilling for Sea	
S11-R3-1400	Placing leveling stones to -6.0mPD (1500m2 @ 40m2/d)	38		02-Feb-15 08:00	11-Mar-15 18:00	-486	Calendar Dav				g a ga a	Place
S11-R3-1500	Installation of Permanent Seawall (5 nos.) & Rockfilling behind seawall	16		12-Mar-15 08:00	27-Mar-15 18:00	-486	Calendar Dav					
S11-R3-1600	2nd Stage Dredging incl. Existing Wan Chai Ferry Pier (20,000m3 @ 1,000m3/d)	20	17	/ 15-Jan-15 08:00 A	06-Feb-15 18:00	-437	Calendar Day				2nd Stage Dredging in	cl. Existing Wan Ch
S11-R3-1700	Reclamation from -14 mPD to -2.0mPD by Hopper (121,000m3 @ 3,000m3/d)	41	41	28-Mar-15 08:00	07-May-15 18:00	-486	Calendar Day					
S11-R3-1800	Installation of Permanent Seawall & Rockfilling behind seawall	16		08-May-15 08:00		-486	Calendar Day					
Soft Landscaping	g & Establishment Works	2375	587	24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day					
Section 8C of the	e Works - Landscape Softworks in Area 8	90	77	07-Oct-14 08:00 A	07-Apr-15 18:00	-421	Calendar Day					
S8C-0010	Carry out landscape soft work on new ferry pier	90	77	07-Oct-14 08:00 A	07-Apr-15 18:00	-421	Calendar Day	1		·		1
Section 8D of the	Works - Establishment Works in Area 8	365	365	08-Apr-15 08:00	06-Apr-16 18:00	-421	Calendar Day					
S8D-0010	Carry out establishment work on new ferry pier	365	365	08-Apr-15 08:00	06-Apr-16 18:00	-421	Calendar Day					
Section 12 of the	Works - Protection and Preservation of Existing Trees	2375	587	24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day					<u> </u>
S12-0010	Protection and preservation of existing trees	2375	587	24-Feb-10 18:00 A	29-Aug-16 18:00	0	Calendar Day	1				-
SUMMARY PROC	GRAMME	992	381	07-May-13 08:00 A	05-Feb-16 17:43	1003	Calendar Day					
CWB Tunnel Con	struction & Remaining Works (Section 9A, 9B, 10 & 11)	795	381	11-Nov-13 08:00 A	05-Feb-16 17:43	-158	Calendar Day					
CWB Tunnel Wo		396	285	5 17-Oct-14 08:00 A	01-Nov-15 18:00	-62	Calendar Day					
SUM-CWB-2200	00 Pump Test & Excavation for Tunnel Portion 2	134	15	5 17-Oct-14 08:00 A	04-Feb-15 13:30	13	Calendar Day	+			Pump Test & Excavation	
SUM-CWB-2300	00 CWB Tunnel Portion 2 Construction	261	285	5 19-Jan-15 08:00 A	01-Nov-15 18:00	-62	Calendar Day		· • • • • • • • • • • • • • • • • • • •			i i i i i i i i i i i i i i i i i i i
CWB Tunnel Wo	rks in WCR3	314	170	0 30-Aug-14 08:00 A	09-Jul-15 18:00	-29	Calendar Day					
SUM-CWB-3000	00 Reclamation at WCR3 & Ferry Pier Demolition (Except Water Channel Maintained for HK/2009/	209	158	30-Aug-14 08:00 A	27-Jun-15 18:00	-486	Calendar Day					ļ.
SUM-CWB-3500	00B Foundation for Tunnel Portion 6 - Bored Pile	64	64	07-May-15 08:00	09-Jul-15 18:00	-29	Calendar Day					
CWB Tunnel Wo	rks in WCR4/TWCR4	795	381	11-Nov-13 08:00 A	05-Feb-16 17:43	-368	Calendar Day					
SUM-CWB-4100	00B Foundation for Tunnel Portion 3&4 (except Eastern Bulkhead Wall)	457	80	11-Nov-13 08:00 A	10-Apr-15 17:43	-67	Calendar Day					
SUM-CWB-4200	00 Pump Test & Excavation for Tunnel Portion 3&4	301	301	10-Apr-15 17:43	05-Feb-16 17:43	-422	Calendar Day					
Reprovisioning o	f Existing Facilities (Section 3, 4A, 4B, 4C, 5, 6, 7, 8A & 8B)	754	81	07-May-13 08:00 A	11-Apr-15 18:00	1303	Calendar Day					
Reprovisioning	of Box Culvert N (Section 7)	249	81	08-Oct-14 00:00 A	11-Apr-15 18:00	-1069	Calendar Day					
SUM-FAC-52000	VO116 - New Transformer Building to Ferry Pier	249	81	08-Oct-14 00:00 A	11-Apr-15 18:00	-1069	Calendar Day					
Reprovisioning	of Wan Chai Ferry Pier & Covered Walkway (Section 8A & 8B)	150	36	07-May-13 08:00 A	25-Feb-15 18:00	1348	Calendar Day					
SUM-FAC-65000	ABWF Works on Observation Deck under Section 8B	150	36	07-May-13 08:00 A	25-Feb-15 18:00	1348	Calendar Day					ABWF Works on O



Remaining Work Actual Work Summary Bar Critical Remaining Work

Milestone

CEDD CONTRACT NO. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Jan-15)

	CHU	N WO - C	RGL .	loi	NT VE	NTURE
	Feb	2015 Mar			pr	May
	62	63			64	65
1st Sta		tion of Caisson Seawalls vall (24,000m3 @ 1000m		ation (1st	Stage - 5 Nos.)	
			veling stones to -6			d) nos.) & Rockfilling beh
2	2nd Stage Dredging inc	. Existing Wan Chai Ferr				
· ·				Carry	out landscape so	oft work on new ferry pi
			Ļ			
Pur	mp Test & Excavation	or Tunnel Portion 2				
				Foi	undation for Tunr	nel Portion 3&4 (except
				-		
					0116 - New Trar	stormer Building to Fer
		BWF Works on Observa	ation Deck under S	Section 8B		_
Date 0-Jan-15 0-Sep-1	Revision 3MRP Revised WP	Checked	Approved		Page 3 filter: 3-Moni on: 23-Jan-15	th Rolling.

DWP_06 - MU 20				SR8 - Layo	ut for 3MRP_Oct	2104		
ty ID	Activity Name		Original		Finish	20	14	
			Duration			20	Dec	
WP-06 - Updat	e Progress As of 20 Nov 14							
Vorks in TS3								
S3 East & West R	eclamation Works							
TS3E - Reclamatio	n (Advance Works)							
TS3E - East								
TS3E.MW.1090A	TS3E South - Levelling of Rock Fill		2	21-Sep-14 A	22-Nov-14 A	TS3E South	- Levelling of Rock Fill	
TS3E.MW.1100	TS3E South & North - Seawall Block Installation		25	22-Sep-14 A	29-Oct-14 A	South & North - Seawall Block Insta	llation	
TS3E - West (Rema	ining)							
TS3E.MW.N.1000	Rockfill & Levelling - Phase 1		10	13-Oct-14 A	04-Nov-14 A	Rockfill & Levelling - Phase 1		
TS3E.MW.N.1010	Rockfill & Levelling - Phase 2		8	27-Oct-14 A	07-Dec-14		Rockfill & Levelling	g - Phase 2
TS3E.MW.N.1020	Levelling (TS3E North)		4	03-Nov-14 A	22-Nov-14	Levelling (T	S3E North)	
TS3E.MW.N.1040	TS3E North to Bay 14 - Seawall Block Installation	1	18	05-Nov-14 A	07-Dec-14			ay 14 - Seawall Bloc
TS3E - General								
TS3E.MW.1160	TS3 East - General Fill (Stage 1)		25	15-Oct-14 A	11-Nov-14 A	TS3 East - General Fill (S	tage 1)	
TS3E.MW.1170	TS3 East - General Fill (Stage 2)		26	12-Nov-14 A	15-Dec-14			st - General Fill (St
TS3E.MW.1180	TS3 East - Handover to D-wall		0		12-Nov-14 A	◆ TS3 East - Handover to		
	on Works (new scheme)							
TS3W.MW.1160	C15 - Complete TZ4		0		07-Nov-14 A	◆ C15 - Complete TZ4		
TS3W.MW.1170	C15 - Move TS3(W) Yachts - Phase II		12	08-Nov-14 A	13-Nov-14 A	C15 - Move TS3(W) Ya	achta Dhasa II	
			12	00-INOV-14 A	13-INOV-14 A			
TS3W - North	1		1	1				
TS3W.MW.2010	TS3W North - Phase 1 Dredging		14	20-Nov-14 A	03-Dec-14		TS3W North - Phase 1	
TS3W.MW.2010A			28	26-Nov-14	24-Dec-14			TS3W North - I
TS3W.MW.2010B	TS3W North - HIS of Dredging		2	24-Dec-14	26-Dec-14			TS3W North
TS3W.MW.2010C	Inspection of Founding		4	26-Dec-14	30-Dec-14			
TS3W.MW.2040	TS3W North - Rockfill		21	30-Dec-14	20-Jan-15			
TS3W.MW.2040A	TS3W North - Levelling		4	20-Jan-15	24-Jan-15			
TS3W.MW.2050	TS3W North - Phase 1 Seawall Block Installation		28	24-Jan-15	21-Feb-15			
TS3W - (Mid-Point)	1							
TS3W.MW.2160	TS3W - Dredging (Type 1 & 2)		30	12-Sep-14 A	16-Nov-14 A	TS3W - Dredging (Type 1 & 2)	
TS3W.MW.2170	TS3W - Dredging (Type 1 & 2) - HIS		2	17-Nov-14 A	17-Nov-14 A	TS3W - Dredging	(Type 1 & 2) - HIS	
TS3W.MW.2180	Inspection of Founding		3	17-Nov-14 A	20-Nov-14 A	Inspection of F	ounding	
TS3W - South								
TS3W.MW.2070	TS3W South - Dredging (Type 3)		30	30-Nov-14	29-Dec-14	-		—— TS3W So
TS3W.MW.2070A	TS3W South - Dredging (Type 1 & 2)		20	20-Dec-14	08-Jan-15		-	
		Actual Work	Page	1 of 4				Date
		Remaining Work	Faye					20-Nov-14 L
		Critical Remaining Work	Co	ntract No. I	HY/2010/08:	Central - Wanchai Bypass	s Tunnel +(Slip	

Milestone

Road 8 Section) - 3 Months Rolling Progamme

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/ity ID	Activity Name	Original	Start	Finish			2014	
		Duration			Nov		2014 Dec	
TS3W.MW.2070B	TS3W South - HIS of Dredging	1	09-Jan-15	09-Jan-15				
TS3W.MW.2070C	TS3W South - Inspection of Founding	1	10-Jan-15	10-Jan-15				I
TS3W.MW.2080	TS3W South - Rockfill	14	11-Jan-15	24-Jan-15				
TS3W.MW.2080A	TS3W South - Levelling	3	25-Jan-15	27-Jan-15				
TS3W.MW.2090	TS3W South - Seawall Block Installation	16	28-Jan-15	12-Feb-15				
Works for Box Cul	vert Q & Water Intake							
Water Intake								
Stage 1 - Water Int	ake Works							
TS3_1170.20	Install Silt Screen & Sump Pump	2	17-Nov-14 A	18-Nov-14 A		nstal Silt Scr	een & Sump Pump	
TS3_1180.20	Test and Commission	4	20-Nov-14	24-Nov-14		Test	and Commission	
TS3_1170.40	Concen for Shut Down of Sea Water Supply for relocation of Pumping Point	14	25-Nov-14	10-Dec-14			Concen for Shut Down of	Sea Water
TS3_1180.10	Shut Down and Connect Water Intake to Interim System	1	10-Dec-14	11-Dec-14			Shut Down and Connect	Water Inta
Box Culvert Q								1 1 1 1
Box Culvert Q Out	Ifall Diversion							
TS3_1145.20	Install Temporary Sheet Pile Wall Stage 1	30	13-Aug-14 A	20-Oct-14 A	Sheet Pile Wall St	ige 1		
TS3_1145.20A	Install Temporary Sheet Pile Wall Stage 2	15	25-Nov-14 A	29-Nov-14			Install Temporary Sheet Pile Wall Stage	2
TS3_1145.30	Commence dredging behind sheet pile wall	0		11-Dec-14			Commence dredging bet	nind sheet r
TS3_1145.40	Install Strut / Lateral Support Between Sheet Pile Wall and Existing Seawall	12	11-Dec-14	27-Dec-14			Insta	ll Strut / Lat
TS3_1145.50	Construct Temporary Vertical Seawall (Stone Block) behind Sheet Pile Wall and continue with	12	07-Jan-15	21-Jan-15				
Works in SR8 (0	reclamation works Dpen Cut Method)							
<u> </u>	Cut & Cover Tunnel Works							
SR8 East Bound -	(Seaside to Victoria Road / IEC Central Divider)							
TTA Stage 1 - East	Bound							
Stage 2 - East Bo	und (Ref. DRG. No.CDD/SR8/083)							
SR8.EB.1325	Protect and Shift HV 22kv Cable on carraige way (as required)	18	18-Oct-14 A	29-Oct-14 A	and Shift HV 22k	Cable on ca	arraige way (as required)	
SR8.EB.1320	Divert Gas Main to pre-laid Gas Main Pipe at Planter Area Gas Main Trough	18	27-Oct-14 A	29-Oct-14 A	Gas Main to pre-la	id Gas Main	Pipe at Planter Area Gas Main Trough	
SR8.EB.1340	Stage 2 - Sheet Pile Work	18	01-Nov-14 A	11-Dec-14			Stage 2 - Sheet Pile Wor	rk
SR8.EB.1350	Stage 2 - Pipe Piling Work	52	17-Nov-14 A	04-Feb-15				
SR8.EB.1330	Carry out pre-boring work for stage 2 sheet pile	14	20-Nov-14	05-Dec-14			Carry out pre-boring work for sta	age 2 sheet
SR8.EB.1327	Cut and By pass Drainage to the next (existing) collection point (MH)	18	20-Nov-14	10-Dec-14			Cut and By pass Drainage	e to the nex
		14	19-Jan-15	04-Feb-15				
SR8.EB.1380	Demolish part of the Wing Wall of Abutment M							
SR8.EB.1380	Demolish part of the Wing Wall of Abutment M - Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)							1
SR8.EB.1380	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)							
SR8.EB.1380 SR8 West Bound TTA Stage 1 - Wes	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)							
SR8.EB.1380 SR8 West Bound TTA Stage 1 - Wes	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider) t Bound	42	21-Aug-14 A	24-Nov-14		Carr	y out Stage 2A Pipe Piling Work	
SR8.EB.1380 SR8 West Bound - TTA Stage 1 - Wes Stage 2A - West E	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider) t Bound Bound (Ref. DRG. No.CDD/SR8/086)	42	21-Aug-14 A	24-Nov-14		Carr	y out Stage 2A Pipe Piling Work	
SR8.EB.1380 SR8 West Bound - TTA Stage 1 - Wes Stage 2A - West E	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider) t Bound Bound (Ref. DRG. No.CDD/SR8/086)	42 Page 2		24-Nov-14		Carr	Date	
SR8.EB.1380 SR8 West Bound - TTA Stage 1 - Wes Stage 2A - West E	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider) t Bound Bound (Ref. DRG. No.CDD/SR8/086) Carry out Stage 2A Pipe Piling Work	Page	2 of 4		Control Was			

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ivity ID		Activity Name	Original Duration	Start	Finish	Nov		2014 Dec			lon	20)15	Feb	
SR8.	.WB.2040	Carry out Stage 2A TAM Grout	14	29-Oct-14 A	01-Dec-14	NOV		Carry out Stage 2A TA	M Grout		Jan			Feb	
SR8.	.WB.2050	Trim Down Sheet Pile / Pipe Pile and construct Gas Main Trough	8	29-Oct-14 A	05-Nov-14 A	Trim Down She	et Pile / Pipe I	ile and construct Gas Mai	n Trough						
SR8.	.WB.2060	Divert Gas Main to Gas Main Trough	6	12-Nov-14 A	16-Dec-14 A			Dive	t Gas Main I	o Gas Main 1	Trough				
SR8.	.WB.2140	Testing of Gas Pipe	6	21-Nov-14 A	21-Nov-14 A	_	I Testing of	Gas Pipe							
Stage	e 2B - West B	ound (Ref. DRG. No.CDD/SR8/086)													
SR8.	.WB.2070	Carry out Stage 2B Sheet Pile	7	22-Nov-14 A	29-Nov-14			Carry out Stage 2B Shee	t Pile						
SR8.	.WB.2080	Carry out Stage 2B Pipe Piling	12	01-Dec-14 A	13-Dec-14			Carry o	ut Stage 2B I	Pipe Piling					
SR8.	.WB.2100	Demolish Part (WB) Wing Wall of Abutment M	2	14-Dec-14	21-Dec-14	-			Demolish I	art (WB) Wi	ing Wall o	f Abutment N			
SR8.	.WB.2090	Carry out Stage 2B TAM Grout	14	15-Dec-14	02-Jan-15	- /			· ·	🗖 Carry ou	it Stage 2	B TAM Grout			
SR8.	.WB.2120	Construct Temporary IEC West Bound Down Ramp	57	22-Dec-14	04-Mar-15	-									
SR8.	.WB.2085	Install King Post for Traffic Deck	16	03-Jan-15	21-Jan-15	- /						Install K	ing Post for T	raffic Deck	ĸ
SR8.	.WB.2110	Construct Temporary Traffic Deck	26	22-Jan-15	24-Feb-15	_									
SR8 C	h.385.000 to	Ch.317.500 - (Inside Victoria Park to Tunnel Portal)													
		85.000 to Ch317.500 (Tunnel Portal) (Ref. DRG. No.CDD/SR8/087)													
	VP.4010	Carry Out Stage 4 Sheet Pile Works	90	13-Mar-14 A	03-Nov-14 A	Carry Out Stage 4	Sheet Pile W	orks							
	VP.4020	Carry Out Stage 4 Pipe Piling Works	145	24-Jul-14 A	17-Nov-14 A			e 4 Pipe Piling Works							
	VP.4030	Carry Out Stage 4 TAM Grout	36	04-Nov-14 A	24-Dec-14	_			Carry	Dut Stage 4	TAM Gro	ut			
	VP.4040	Install Dewatering Wells and Observation Wells & Carry out Pump Test	24	27-Dec-14	24-Jan-15	_						-	II Dewaterin	u Wells an	d Observa
		o Ch 210.000 - U-Structure & Slab (Victoria Park)													
	ation and Lat														
SR8_2		ELS - Excavation to formation level + Lateral Support	96	13-Jun-14 A	13-Dec-14	_		FLS-F	xcavation to	formation lev	el + I ater	al Support			
	-	& Subway Extension & Toe Wall at Hing Fat St													
		way Extension (Portion V)													
		C at Tsing Fung Street (Portion V)									1 1 1	1			
VP_12		TFS New Ret. Wall - excavation	42	26-Sep-14 A	12-Dec-14	_		TES New	v Ret. Wall -	excavation					
VP_12		TFS New Ret. Wall - base slab	42	07-Oct-14 A	13-Dec-14				w Ret. Wall	1					
VP_12 VP_12		TFS New Ret. Wall - wall stem + Railing	60	04-Nov-14 A	24-Feb-15										
			00	04-110V-14 A	24-1 60-13										
		e Wall at Hing Fat Street at Portion VIII (Tree Zone 20) (6 trees)													
		Preparation and Site Hoarding	26	10 Con 14 A	19-Dec-14	_			Droporation	and Site Hoar	adia a				
VP_17			36	19-Sep-14 A		_					Ū			0	
VP_11		<300mm dia trees (3months, 4nos) - Stage 4 root pruning & removal/Transplanting	12	03-Nov-14 A	23-Dec-14				<u> </u>	dia trees (3i	montns, 4	nos) - Stage	4 root prunir	y & remov	ai/ i ranspla
	orks - Toe Wa			04 D 44		_									
VP_61		Construct and divert Temporary Footpath	36	24-Dec-14	06-Feb-15									onstruct a	and divert To
	in Victoria														
Re-Prov	visioning Wo	rks													
			Page	R of 4					Dat	e	R	evision	Ch	ecked	Approved
		Actual Work	rage.	0014					20-Nov-			th November			
		Critical Remaining Work	Со					ass Tunnel +(Slip							
		♦ Milestone		Road	d 8 Section)	- 3 Months R	olling Pro	gamme							

Activity ID	Activity Name	Original Duration	Start	Finish		2014
		Duration			Nov	Dec
Bowling Green) Office					
BGO - Constru	iction Works					
VP_1190	BGO - ABWF	50	21-Sep-14 A	15-Dec-14		BGO - ABWF
VP_1180.04	BGO - Roof Slab Waterproofing + Screeding	12	30-Oct-14 A	03-Dec-14		BGO - Roof Slab Waterproofing + Screeding
VP_1220	BGO - E&M Works	36	14-Nov-14 A	10-Dec-14	╶┧┊╺╧┥┿━	BGO - E&M Works
VP_1250	BGO - T&C	4	11-Dec-14	15-Dec-14		BGO - T&C
VP_1260.10	Submit Form 501 to FSD (Application for Inspection)	1	16-Dec-14	16-Dec-14		Submit Form 501 to FSD (Ap
VP_1250.40	Statutory Inspections by Other Authorities (EMSD, WSD, ASD)	30	16-Dec-14	14-Jan-15		
VP_1260.20	FSD Inspection & Certification	29	17-Dec-14	14-Jan-15		
VP_1270	BGO - Completion of KD4 - Works in Section1B	0		14-Jan-15		
Tree Transplant	ting at Portion XIV (Victoria Park Open Space)					
VP_1040	Tree Transplanting & Upkeep at Portion XIV	348	16-Oct-13 A	15-Dec-14		Tree Transplanting & Upkeep a
VP_1280	Completion of KD 3 - Section 1A, Works in Portion XIV & XV	0		15-Dec-14		 Completion of KD 3 - Section 1
Mooring Com	ponents Upkeep (CBTS and ATS)					
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17		
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	09-Dec-15		
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	17-Jan-17		
Works for Pu	blic Works Regional Laboratory (North Lantau)		·	, 		
Maintenance ar	nd Upkeep of New PWRL (Portion XVII)					
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17		

Actual Work	Page 4 of 4	Date	
Remaining Work		20-Nov-14	Upda
	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
Critical Remaining Work			
Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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	FS	D Inspec	tion & C	¢rt	ficatio	'n					
	🔶 BG	O - Corr	pletion	of k	(D4 - ۱	Works in	Section1	в			
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