

Lam Geotechnics Limited

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Quarterly EM&A Report (June 2016 – August 2016)

CONTRACT NO: HK/2015/01

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 3)

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

- JUNE 2016 TO AUGUST 2016 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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29 September 2016



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29 September 2016

By Post and Fax (2691 2649)

AECOM Asia Company Limited Engineer's Representative's Office 25 Hung Hing Road, Causeway Bay, Hong Kong

Attention: Mr. Peter Poon

Dear Sirs,

Re: Contract No. HK/2015/01 Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Quarterly EM&A Report (June to August 2016) 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 captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for June to August 2016 received by e-mail on 29 September 2016.

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

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EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – June 2016 to August 2016 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 27th May 2015 to 26th August 2016. The cut-off date of reporting is at 26th of each reporting period.

Construction Activities for the Reported Period

ii. Contract no HK/2009/01 was commenced on 23 July 2010. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized as below:

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

June 2016	July 2016	August 2016
• Nil	• Nil	• Nil

iii. Contract no. HK/2009/02 was commenced on 5 July 2010. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized as below:

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

June 2016	July 2016	August 2016
• Nil	• Nil	• Nil

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 IIIPrincipal Work Activities for Contract no. HY/2009/15

•		
June 2016	July 2016	August 2016
Reinstatement of vertical	Reinstatement of vertical	Reinstatement of vertical
seawall at TPCWAE	seawall at TPCWAE	seawall at TPCWAE
Removal of temporary	Removal of temporary	Removal of temporary
reclamation at TPCWAW	reclamation at TPCWAW	reclamation at TPCWAW
	Diaphragm wall cutting	Diaphragm wall cutting
	works at TPCWAW	works at TPCWAW

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

June 2016	July 2016	August 2016
• Nil	• Nil	• Nil

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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
 Principal Work Activities for Contract no. HK/2012/08

	June 2016		July 2016		August 2016
•	Precast unit construction	•	Precast unit construction	•	Precast unit construction
	for Box 1 inside Dry dock		for Box 1 inside Dry dock		for Box 1 inside Dry dock
•	Construction of culvert L	•	Construction of culvert L	•	Construction of culvert L
	Bay 8, Bay 12 and Bay		Bay 8, Bay 12 and Bay 13		Bay 8, Bay 12 and Bay 13
	13				

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:

	June 2016	July 2016	August 2016
•	Diversion pipe	Diversion pipe	Diversion pipe
	maintenance	maintenance	maintenance
	 Diaphragm Wall 	Diaphragm Wall Removal	Diaphragm Wall Removal
	Removal Works	Works	Works

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

Noise Monitoring

- viii. With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- ix. 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.
- x. Three limit level exceedances were recorded at noise monitoring station M1a Harbour Road Sports Centre on 7, 13 and 21 June 2016 in June reporting month. The exceedances were concluded as non-project related.
- xi. Three limit level exceedances were recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 7, 13 and 21 June 2016 in June reporting month. The exceedances were concluded as non-project related.
- xii. One limit level exceedance was recorded at noise monitoring station M1a Habour Road Sports Center on 28 June 2016 in July reporting month. The exceedance was concluded as non-project related.
- xiii. One limit level exceedance was recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 12 July 2016 in July reporting month. The exceedance was concluded as non-project related.
- xiv. No action or limit level exceedance was recorded in August reporting month.



Air Quality Monitoring

- xv. Due to interruption of electricity supply, the 24hr TSP were rescheduled as follows:
 CMA6a monitoring station was rescheduled from 7 June 2016 to 8 June 2016.
 CMA1b monitoring station was rescheduled from 5 July 2016 to 6 July 2016.
 CMA2a monitoring station was rescheduled from 16 July 2016 to 18 July 2016.
 CMA5b monitoring station was rescheduled from 11 July 2016 to 12 July 2016.
- xvi. No action or limit level exceedance for TSP monitoring was recorded in June reporting month.
- xvii. No action or limit level exceedance for TSP monitoring was recorded in July reporting month.
- Xviii. One 1hr TSP action level exceedance was recorded at CMA1b Oil Street Site Office on 27 August 2016 in August reporting month.
- xix. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 5 July 2016 and 20 July 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during July reporting month.
- xx. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 August 2016 and 17 August 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during August reporting month.
- The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xxii. 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.
- xxiii. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- xxiv. Due to the hoisting of Strong Wind Signal No. 3, the water quality monitoring event on 1 August 2016 during flood tide was cancelled in August reporting month.
- xxv. Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring event on6 July 2016 during flood tide was cancelled in July reporting month.
- xxvi. Due to the blockage of access at Enhance DO monitoring station Ex-WPCWA SW, the Enhance DO monitoring at monitoring station Ex-WPCWA SW was cancelled on 13 June 2016 during flood tide in June reporting month..
- xxvii. Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring event on6 June 2016 during ebb tide was cancelled in June reporting month.
- xxviii. Due to the hoisting of Strong Wind Signal No. 3, the water quality monitoring event on 27 May 2016 during ebb tide was cancelled in June reporting month.
- xxix. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- xxx. With respect to the marine works undertaken at WCR3 by Contract HK/2009/02, the respective water quality monitoring station C1 associated with Contract HK/2009/01 was updated as in association with Contract HK/2009/01 and Contract HK/2009/02.



- xxxi. With respect to the marine works undertaken at CBTS by Contract HY/2010/08, the respective water quality monitoring station C7 associated with Contract HY/2009/15 was updated as in association with Contract HY/2009/15 and Contract HY/2010/08.
- xxxii. With respect to the marine works undertaken at HKCEC2 by Contract HK/2012/08, the respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08.
- xxxiii. There were 1 limit level of turbidity exceedances and 2 action level of suspended solid exceedances recorded in June reporting month. Investigation found that the turbidity exceedances and suspended solid exceedances recorded in June reporting month were not related to Project works.
- xxxiv. There were 1 action and 1 limit level of turbidity exceedances recorded in July reporting month. Investigation found that the turbidity exceedances recorded in July reporting month were not related to Project works.
- xxxv. There were 2 action and 1 limit level of turbidity exceedances recorded in August reporting month. Investigation found that the turbidity exceedances recorded in August reporting month were not related to Project works.
- xxxvi. Enhanced DO monitoring at 2 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period.
- xxxvii. There was 1 action level and 4 limit level exceedances recorded for enhanced dissolved oxygen monitoring in June reporting month. Investigation found that the exceedance was not related to Project works.
- xxxviii. There was 1 action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in this July month. Investigation found that the exceedance was not related to Project works.
- xxxix. There was 1 action level and 12 limit level exceedances recorded for enhanced dissolved oxygen monitoring in August reporting month. Investigation found that the exceedance was not related to Project works.

Complaints, Notifications of Summons and Successful Prosecutions

- xl. No environmental complaint was received in June reporting month.
- xli. There was one environmental complaint received in July reporting month.
- xlii. A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref:. H05/RS/00016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.
- xliii. ET confirmed with the Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016.
- xliv. Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of



HY/2009/15 was reminded to conduct regular checking and maintenance for all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke emission affecting nearby surroundings.

- xlv. There was one environmental complaint received in August reporting month.
- xlvi. A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter.
- ET confirmed with the Resident Site Staff that no marine construction activities were xlvii. undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelther from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. vii) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site.
- xlviii. Based on the complainant photo information, the exposed soil slope at Temporary Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.
- xlix. Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.
 - I. Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license.

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Lam Geotechnics Limited

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-041/2001).
- 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 27th May 2016 to 26th August 2016.

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

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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 Designaleu Projects under this Project					
Item 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 Contract Title No.		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 – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010
	East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and	DP3	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- Central-Wan Chai Bypass over MTR	DP3	22 March 2011
	Tsuen Wan Line	DF3	(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	Y/2009/19 Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link		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



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 –	Contractor	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
CRGL Joint Venture	under Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction	Contractor under Contract	Project Director	Chris Leung	3557 6393	2566 2192
Engineering (HK) Ltd.	no. HY/2009/15	Site Manager	Y Huo	3557 6368	
		Contractor's Representative	Rex Lau	3557 6405	
		Contractor's Representative	Gene Cheung	3557 6395	
		Environmental Officer	Andy Mak	3557 6347	
Chun Wo -	Contractor	Project Manager	Rayland Lee	3758 6788	2570 8013

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
CRGL - MBEC_Joint	under Contract no. HY/2009/19	Site Agent	David Lau	3758 8879	
Venture		Environmental Manager / Environmental Officer	Eric Fong	6191 9337	
		Construction Manager (Marine)	M.H. Isa	9884 0810	
		Construction Manager (Land)	Andy Chan	9879 4325	
		Construction Manager (Land)	Bear Ding	6483 6198	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522
Leader JV	under Contract no. HK/2012/08	Project Manager	Eddie Chung	9189 8118	
		Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor	Project Director	Chris Leung	3467 4299	2566 8061
	under Contract no. HY/2010/08	Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
Ramboll 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

June 2016	July 2016	August 2016
• Nil	• Nil	• Nil

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

June 2016	July 2016	August 2016
• Nil	• Nil	• Nil

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:

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

	June 2016		July 2016		August 2016
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE
•	Removal of temporary	•	Removal of temporary	•	Removal of temporary
	reclamation at TPCWAW		reclamation at TPCWAW		reclamation at TPCWAW
		•	Diaphragm wall cutting	•	Diaphragm wall cutting
			works at TPCWAW		works at TPCWAW

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

June 2016	July 201	6 August 2016	
• Nil	• 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

	June 2016		July 2016		August 2016
•	Precast unit construction	•	Precast unit construction	•	Precast unit construction
	for Box 1 inside Dry dock		for Box 1 inside Dry dock		for Box 1 inside Dry dock
•	Construction of culvert L	•	Construction of culvert L	•	Construction of culvert L
	Bay 8, Bay 12 and Bay		Bay 8, Bay 12 and Bay 13		Bay 8, Bay 12 and Bay 13
	13				

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
I able 2.9	Frincipal Work Activities for Contract no. h 1/2010/06

	June 2016		July 2016		August 2016
•	Diversion pipe	•	Diversion pipe	•	Diversion pipe
	maintenance		maintenance		maintenance
•	Diaphragm Wall	•	Diaphragm Wall Removal	•	Diaphragm Wall Removal
	Removal Works		Works		Works

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (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.
- 3.1.3. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 3.1.4. 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.
- 3.1.5. 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

- 3.1.6. 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.
- 3.1.7. 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 3.2* 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
СМАЗа	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 3.2
 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 *Figure 3.1* 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. Water quality monitoring was undertaken at WSD salt water intakes and cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 3.3* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station Ref.	Location	Easting	Northing
WSD Salt Water In	take		·
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Inta	ike		
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

 Table 3.3
 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
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
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.			
 4-week post construction water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012 and the water quality monitoring at WSD 10 and WSD15 were temporary suspended since 8 Feb 2012, and WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 2012 onwards. C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012. C8 & C9 were temporary suspended since 30 March 2013. WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012. C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 			

- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
 - C5 and C5 wwater quality monitoring station was temporarily suspended since
- 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 quality monitoring station C1 shall be associated with Contract No.
- HK/2009/02 upon commencement of marine works under DP3 at WCR3 area

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 3.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Activities	Monitoring Frequency ¹	Parameters ²
During the 4-week baseline monitoring period		Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

 Table 3.4
 Marine Water Quality Monitoring Frequency and Parameters



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

Notes:

- 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 3.5* 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 3.5 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.
- 2. Enhanced DO monitoring at Monitoring station at Ex-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area, to be resumed upon completion of seawall reinstatement works
- 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 nos. HK/2009/01 and HK/2009/02
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Station	Description
M1a	Harbour Road Sports Centre

- 4.1.2. Three limit level exceedances were recorded at M1a- Harbour Road Sports Centre on 7, 13 and 21 June 2016 in June reporting month.
- 4.1.3. Operation of Hydromil Trench Cutter at Ex-Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor as major noise contribution during monitoring on 7 and 13 June 2016. As such, the exceedances were considered as non-Project related.
- 4.1.4. Breaking work at Ex-Wan Chai Swimming Pool (adjacent to Harbour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 21 June 2016. As such, the exceedance was considered as non-Project related.
- 4.1.5. One limit level exceedances was recorded at M1a- Harbour Road Sports Centre on 28 June 2016 in July reporting month.



- **4.1.6.** Operation of drill rig at opposite to the monitoring station under non WDII-CWB Contractor was observed as the major noise contribution during monitoring on 28 June 2016. As such, the exceedances were considered as non-Project related.
- 4.1.7. No action or limit level exceedance was recorded in August reporting month.

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

4.1.8. 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.

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

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

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

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

- 4.1.10. 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.
- 4.1.11. 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 Stations for Contract no. HY/2009/19

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

- 4.1.12. School examination was scheduled to be taken place at Henrietta Secondary School on 06 June 2016 to 22 June 2016, the limit level of noise monitoring at station M6 was adjusted to 65dB(A) during examination period accordingly.
- 4.1.13. Three limit level exceedances were recorded at M6 HK Baptist Church Henrietta Secondary School on 7, 13 and 21 June 2016 in June reporting month.



- 4.1.14. No construction work was conducted during the time of measurement on 7 and 13 June 2016, and it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance was not due to project but to traffic noise nearby.
- 4.1.15. Only rebar fixing and shifting of launching girder for segment placing were conducted around the monitoring location on 21 June 2016 and nearby traffic noise was observed as major noise source during monitoring. In addition, external wall renovation at City Garden was observed. In view of the above, the exceedance was considered as non-Project related.
- 4.1.16. One limit level exceedance was recorded at M6- HK Baptist Church Henrietta Secondary School on 12 July 2016 in July reporting month.
- 4.1.17. Traffic noise was observed during monitoring on 12 July 2016 and it was considered as the major noise contribution. As such, the limit level exceedance was concluded as non-project related.
- 4.1.18. No action or limit level exceedance was recorded in August reporting month.

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

4.1.19. 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

- 4.1.20. No action or limit level exceedance was recorded in the reporting quarter.
- 4.1.21. All 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> <u>4.1</u>.

4.2. 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.

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

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 4.5* below.



Table 4.5	Air Monitoring Stations for Contract no. HK/2009/01
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Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office *

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

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

4.3.4. 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 4.6* below.

 Table 4.6
 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

4.3.6. 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 4.7* below.

Table 4.7	Air Monitoring Station for Contract no. HY/2009/15
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Station	Description
СМАЗа	CWB PRE Site Office

- 4.3.7. No action or limit exceedance was recorded in this reporting quarter.
- **4.3.8.** The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 5 July 2016 and 20 July 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during July reporting month.
- **4.3.9.** The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 August 2016 and 17 August 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during August reporting month.



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

- 4.3.10. 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.
- 4.3.11. The proposed division of air monitoring stations is summarized in *Table 4.8* below.

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

Table 4.8 Air Monitoring Stations for Contract no. HY/2009/19

- 4.3.12. No action or limit level exceedance was recorded in June reporting month.
- 4.3.13. No action or limit level exceedance was recorded in July reporting month.
- 4.3.14. One 1hr TSP action level exceedance was recorded on 27 August 2016 in August reporting month.
- 4.3.15. No construction works was undertaken on the monitoring date at around Oil Street Site Office. Dust suppression measure including haul road maintained in dampened condition was implemented and no particular observation regarding air quality impact was observed during sampling. In view of the above, the action level exceedance was considered to be non-project related and contributed by local ambient condition.

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

4.3.16. The proposed division of air monitoring stations are summarized in *Table 4.9* below.

Station Description

Table 4.9Air Monitoring Stations for Contract no. HK/2012/08

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

Pedestrian Plaza

CMA5b

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

The proposed division of air monitoring stations are summarized in *Table 4.10* below.



Table 4.10 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

- 4.3.18. No action or limit level exceedance was recorded in this reporting quarter.
- **4.3.19.** The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 5 July 2016 and 20 July 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during July reporting month
- **4.3.20.** The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 August 2016 and 17 August 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during August reporting month.

4.4 Water Monitoring Results

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

- 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 4.11* 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 4.11 Water Monitoring Stations for Contract no. HK/2009/01

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

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

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

4.4.4. 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 4.12* below.

Table 4.12 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
Cooling Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/WSD Wanchai salt water intake / China Resources Building	836268.0	816020.0



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

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

4.4.6. 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 4.13* below.

Station Ref.	Location	Easting	Northing		
WSD Salt Water In	WSD Salt Water Intake				
WSD19	Sheung Wan	833415.0	816771.0		
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 4.13 Water Monitoring Stations for Contract no. HK/2012/08

- 4.4.7. No action or limit level exceedance was recorded in June reporting month.
- 4.4.8. No action or limit level exceedance was recorded in July reporting month.
- 4.4.9. There was 1 action level turbidity exceedance recorded at P5 on 19 August 2016 in August reporting month.
- 4.4.10. After checking with the Contractor, no marine activity was conducted on the monitoring date. Location of construction area was at downstream of monitoring station P5. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not project related.

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

4.4.11. 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 4.14* and *Table 4.15* below.

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

 Table 4.14
 Water Monitoring Stations for Contract no. HY/2009/15



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.

Table 4.15 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location
C6	Excelsior Hotel
Ex-WPCWA SW	South-western of the ex-Wan Chai Public Cargo Working Area

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.
- 2. Enhanced DO monitoring at Monitoring station at Ex-PCWAE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area, to be resumed upon completion of seawall reinstatement works
- 4.4.12. There were no action and 1 limit level turbidity exceedance recorded at C7 on 24 June 2016 and 2 action level and no limit level SS exceedances recorded at C7 on 18 and 24 June 2016 in June reporting month.
- 4.4.13. After checking with contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on 18 and 24 June 2016. In view of no marine construction activity, and no turbidity and SS exceedance recorded on the subsequent monitoring, it was considered that the exceedances were not project related.
- 4.4.14. There was no action and 1 limit level DO exceedance recorded at Ex-WPCWA SE on 1 June 2016 in June reporting month.
- 4.4.15. After checking with contractor, no marine activity was conducted at TPCWAW on 1 June 2016. Upstream discharge from nearby culvert was noted. In view of no marine activity and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 4.4.16. There were 1 action and 3 limit level DO exceedances recorded at Ex-WPCWA SW on 10, 16, 18 and 24 June 2016 in June reporting month.
- **4.4.17.** After checking with contractor, no marine activity was conducted at TPCWAW on 10, 16, 18 and 24 June 2016. Upstream discharge from nearby culvert was noted. In view of no marine activity, the exceedance was considered not related to Project works.
- 4.4.18. There were 1 action and 1 limit level turbidity exceedance recorded at C7 on 2 July 2016 and 25 July 2016 in this July month.
- 4.4.19. After checking with contractor, no marine activity was conducted at Causeway Bay Typhoon Shelter on 2 July 2016 and 25 July 2016. In view of no marine construction activity, and no exceedance recorded on the subsequent monitoring, it was considered that the exceedances were not project related.



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- 4.4.20. There were 2 limit level DO exceedances recorded at Ex-WPCWA SW on 2 July 2016 and 4 July 2016 in July reporting month.
- 4.4.21. After checking with contractor, transfer of mud from shaft B to barge was observed conducted at Ex-PCWA during sampling on 2 July 2016 and silt curtain was observed deployed at the outfall location of culvert O. The silt curtain was observed partially deployed (without extending to water column) at the outfall location of culvert O. In view of the environmental concern on potential accumulation of organic pollutant in relate to the embayment effect at the concerned location due to the silt curtain deployment, the contractor was advised to remove any silt curtain/ impermeable deployed at the outfall location of culvert O. All obstruction at the outfall location of culvert O was subsequently removed by contractor on 5 July 2016. No further dissolved oxygen exceedance was recorded during subsequent monitoring conducted on 4 July 2016. Considering the upstream organic discharge influence and the partial silt curtain deployment (without extending to water column) observed during monitoring, the implication of the partially deployed silt curtain on the water circulation could not concluded. Nevertheless, the contractor was advised that any silt curtain/ impermeable barrier shall not be deployed at the culvert O outfall location so that the water circulation would not be adversely affected. In addition, the contractor was reminded to maintain a tarpaulin sheet between the shaft and barge during soil material transfer to avoid potential drop off to nearby waters and to maintain a proper deployment of silt curtain extending throughout the water column around the derrick barge during excavated material transfer to avoid potential muddy dispersion.
- 4.4.22. Removal of steel brackets was observed conducted at Ex-PCWA during sampling on 4 July 2016 and impermeable barrier was observed deployed at the outfall location of culvert O. The impermeable barrier was observed partially deployed (without extending to water column) at the outfall location of culvert O. In view of the environmental concern on potential accumulation of organic pollutant in relate to the embayment effect at the concerned location due to the silt curtain deployment, the contractor was advised to remove any silt curtain/ impermeable deployed at the outfall location of culvert O. All obstruction at the outfall location of culvert O was subsequently removed by contractor on 05 July 2016. No further dissolved oxygen exceedance was recorded during subsequent monitoring conducted on 04 July 2016. Considering the upstream organic discharge influence and the partial impermeable barrier deployment (without extending to water column) observed during monitoring, the implication of the partially deployed impermeable barrier on the water circulation could not concluded. Nevertheless, the contractor was advised that any silt curtain/ impermeable barrier shall not be deployed at the culvert O outfall location so that the water circulation would not be adversely affected.
- 4.4.23. There were 1 action level DO exceedances recorded at Ex-WPCWA SE on 22 July 2016 in this July month.
- 4.4.24. Despite removal of diaphragm wall and excavation by derrick barge at northern side of TPCWAW were conducted on 22 July 2016, contractor mitigation measures including the use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the



above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.

- 4.4.25. There were 1 action level and 1 limit level turbidity exceedance recorded at C7 on 3 and 26 August 2016 in August reporting month.
- **4.4.26.** After checking with the contractor, despite mud transhipment was conducted on 3 August 2016, contractor mitigation measures including the use of tarpaulin sheet between two barges was generally in order. In view of the above, the exceedance was considered not related to construction works.
- 4.4.27. No marine activity was conducted at Causeway Bay Typhoon Shelter on 26 August 2016. In view of no marine construction activity, the exceedances were considered not related to construction works.
- 4.4.28. There was 11 limit level DO exceedance recorded at Ex-WPCWA SW on 29 July 2016, 1, 5, 8, 13, 15, 22, 24 and 26 August 2016 in August reporting month.
- 4.4.29. After checking with the Contractor, despite underwater excavation at northern side of TPCWAW was conducted on 29 July 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to the Project works.
- 4.4.30. Despite removal of diaphragm wall was conducted on 5 and 8 August 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedances were considered not related to the Project works.
- 4.4.31. No marine construction activity was conducted at TPCWAW on 1 and 13 August 2016. Upstream discharge from nearby culvert was noted. In view of no marine construction activity was conducted, the exceedance was considered not related to Project works.
- 4.4.32. Despite transport of soil from land to derrick barge near Shaft B at TPCWAW was conducted on 15 and 22 August 2016 on the monitoring date, contractor mitigation measures including the provision of tarpaulin sheet between land and barge and use of silt curtain was in place. Upstream discharge from nearby culvert was noted. In view of the above, the exceedance was considered not related to Project works.
- 4.4.33. Despite removal of seawall blocks near Shaft B and removal of diaphragm wall at Northern side of TPCWAW were conducted on 24 August 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier were in place. Upstream discharge from nearby culvert was noted. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works.
- 4.4.34. Despite filling levelling stone for seawall reinstatement at Western side of TPCWAW and underwater excavation works near Shaft B were conducted under Contract HY/2009/15 on 26



August 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier were implemented. Upstream discharge from nearby culvert was noted. In view of the above, and no exceedance was recorded on the subsequent monitoring, the exceedance was considered not related to Project works. Nevertheless, the Contractor of HY/2009/15 was reminded to review the positioning of the impermeable barrier such that the water circulation within the temporarily diverted culvert channel would not be affected to avoid potential odour concern within the temporarily diverted culvert channel.

- 4.4.35. There were 1 action and 1 limit level DO exceedances recorded at Ex-WPCWA SE on 5 and 8 August 2016 in August reporting month.
- 4.4.36. Despite removal of diaphragm wall was conducted on 5 and 8 August 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place. Upstream discharge from nearby culvert was noted. In view of the above and no exceedance was recorded on the subsequent monitoring, the exceedances were considered not related to the Project works.

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

4.4.37. The proposed division of water quality monitoring stations are summarized in *Table 4.16* and *Table 4.17* below:

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

Table 4.16 Water quality monitoring Stations for Contract no. HY/2010/08

Table 4.17 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08

Station Ref.	Location
C6	Excelsior Hotel

Remarks:

- 1. Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and to be resumed upon removal of the respective temporary reclamation zone.
- 1.4.1. There were no action and 1 limit level turbidity exceedance recorded at C7 on 24 June 2016 and 2 action level and no limit level SS exceedances recorded at C7 on 18 and 24 June 2016 in June reporting month.
- 1.4.2. After checking with contractor, no marine activity was conducted on 18 and 24 June 2016. Installed silt screen was in place. In view of no marine construction activity, and no turbidity and SS exceedance recorded on the subsequent monitoring, it was considered that the exceedances were not project related.
- 1.4.3. There were 1 action and 1 limit level turbidity exceedance recorded at C7 on 2 July 2016 and 25 July 2016 in July reporting month.



- 1.4.4. After checking with contractor, despite reinstate of seawall was conducted at TS3N3 corner on 2 July 2016, contractor mitigation measure including the deployment of silt curtain was generally in order and installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- 1.4.5. Despite placing of seawall blocks was conducted on the monitoring date, contractor mitigation measures including the use of silt curtain was in place and the installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- **1.4.6.** There were 1 action and 1 limit level turbidity exceedance recorded at C7 on 3 and 26 August 2016 in August reporting month.
- 1.4.7. After checking with contractor, despite reinstatement of seawall at TS3BE was conducted on 3 August 2016, contractor mitigation measures including the use of silt curtain and impermeable barrier was in place and the installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.
- **1.4.8.** No marine activity was conducted on 26 August 2016, and the installed silt screen was in place. In view of the above, and no exceedance was recorded on the subsequent monitoring, it was considered that the exceedance was not project related.

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 4.18*.

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
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

Table 4.18 Details of Waste Disposal for Contract no. HK/2009/01



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
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 this reporting quarter.

<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 4.19.*

Table 4.19	Details of Waste	Disposal for	Contract no.	HK/2009/02
			••••••	

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	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³ *	NIL	146445 (Bulk volume)	East of Sha Chau

4.5.4. There was 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 this reporting quarter.



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

4.5.5. There was Inert C&D waste disposed in this reporting period. No non-inert C&D waste was disposed in this reporting period. Details of the waste flow table are summarized in *Table 4.20*.

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials	NIL	141579.2	Tuen Mun Area 38	NIL
disposed, m ³	NIL	65216	TKO137 FB	NIL
	8127.21	8127.21	HY/2010/08	NIL
Inert C&D materials recycled, m ³	NIL	304	Ex-PCWA	NIL
	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	NIL	156909 (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	3000	325796 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type	NIL	9350	East of Sha Chau	Dredging from
2 – Confined Marine Disposal), m3	(Bulk Volume)	(Bulk Volume)		Eastern Breakwater of CBTS
Marine Sediment (Type	NIL	600	East Sha Chau /	Dredging from
1 – Open Sea Disposal) , m3	(Bulk Volume)	(Bulk Volume)	South of The Brothers	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

Table 4.20	Details of Was	te Disposal for	Contract no.	HY/2009/15
	Details of Hus	to Disposal ioi	001111001110.	111/2000/10



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
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 no Marine Sediment (Type 1 – Open Sea Disposal) disposed in this reporting quarter. Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal) was disposed in this reporting quarter.

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

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

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 4.21 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 this reporting quarter.

<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. No Inert and non-inert C&D waste was disposed of in this reporting quarter. Details of the waste flow table are summarized in *Table 4.22*.



Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	4131	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)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

Table 4.22 Details of Waste Disposal for Contract no. HK/2012/08

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

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

4.5.11. There was Inert C&D waste disposed in this reporting period. No non-inert C&D waste was disposed in this reporting period. Details of the waste flow table are summarized in *Table 4.23*

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds			
Inert C&D materials disposed, m ³	8320.5	26849.2	TM38			
	7560.2	19739.4	TKO137			
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			
Chemical waste disposed, L	NIL	NIL	N/A			
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	55290	South Cheung Chau			
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined	NIL	27760	Brothers Island			

 Table 4.23 Details of Waste Disposal for Contract no. HY/2010/08



Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Marine disposal)			
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Remarks: Contractor has clarified and updated the cumulative quantity of the Inert C&D materials disposed in this reporting quarter. Contractor has clarified and updated that no marine sediment disposal recorded in this reporting quarter.

4.5.12. There was no Marine Sediment (Type 1 – Open Sea Disposal), Marine Sediment (Type 3 – Special Treatment) and marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting quarter.



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 Three limit level exceedances were recorded at noise monitoring station M1a Harbour Road Sports Centre on 7, 13 and 21 June 2016 in June reporting month. The exceedances were concluded as non-project related.
- 5.1.2 Three limit level exceedances were recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 7, 13 and 21 June 2016 in June reporting month. The exceedances were concluded as non-project related.
- 5.1.3 One limit level exceedance was recorded at noise monitoring station M1a Habour Road Sports Center on 28 June 2016 in July reporting month. The exceedance was concluded as non-project related.
- 5.1.4 One limit level exceedance was recorded at noise monitoring station M6 HK Baptist Church Henrietta Secondary School on 12 July 2016 in July reporting month. The exceedance was concluded as non-project related.
- 5.1.5 No action or limit level exceedance was recorded in August reporting month.
- 5.1.6 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. Air Monitoring

- 5.2.1 No action or limit level exceedance for TSP monitoring was recorded in June reporting month.
- 5.2.2 No action or limit level exceedance for TSP monitoring was recorded in July reporting month.
- 5.2.3 One 1hr TSP action level exceedance was recorded at CMA1b Oil Street Site Office on 27 August 2016 in August reporting month.
- 5.2.4 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 5 July 2016 and 20 July 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during July reporting month.
- 5.2.5 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 August 2016 and 17 August 2016 at the concerned hours (afternoon for higher daily temperature). No action and limit level was recorded during August reporting month..



5.3. Water Quality Monitoring

- 5.3.1 There were 1 limit level of turbidity exceedances and 2 action level of suspended solid exceedances recorded in June reporting month. Investigation found that the turbidity exceedances and suspended solid exceedances recorded in June reporting month were not related to Project works.
- 5.3.2 There were 1 action and 1 limit level of turbidity exceedances recorded in July reporting month. Investigation found that the turbidity exceedances recorded in July reporting month were not related to Project works.
- 5.3.3 There were 2 action and 1 limit level of turbidity exceedances recorded in August reporting month. Investigation found that the turbidity exceedances recorded in August reporting month were not related to Project works.
- 5.3.4 There was 1 action level and 4 limit level exceedances recorded for enhanced dissolved oxygen monitoring in June reporting month. Investigation found that the exceedance was not related to Project works.
- 5.3.5 There was 1 action level and 2 limit level exceedances recorded for enhanced dissolved oxygen monitoring in this July month. Investigation found that the exceedance was not related to Project works.
- 5.3.6 There was 1 action level and 12 limit level exceedances recorded for enhanced dissolved oxygen monitoring in August reporting month. Investigation found that the exceedance was not related to Project works.

5.4. 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.

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

5.5.1 There was no non-compliance from the site audits in the reporting quarter.

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

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



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint was received in June reporting month.
- 6.0.2. There was one environmental complaint received in July reporting month.
- 6.0.3. A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref:. H05/RS/00016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.
- 6.0.4. ET confirmed with the Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016.
- 6.0.5. Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of HY/2009/15 was reminded to conduct regular checking and maintenance for all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke emission affecting nearby surroundings.
- 6.0.6. There was one environmental complaint received in August reporting month.
- 6.0.7. A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter.
- ET confirmed with the Resident Site Staff that no marine construction activities were 6.0.8. undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelther from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. vii) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site.



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- Based on the complainant photo information, the exposed soil slope at Temporary 6.0.9. Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.
- 6.0.10. Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.
- 6.0.11. Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license..
- 6.0.12. The details of cumulative complaint log and summary of complaints are presented in Appendix 6.1.
- 6.0.13. Cumulative statistic on complaints and successful prosecutions are summarized in Table 6.1 and Table 6.2 respectively.

Table 6.1 Cumulative Statistics on Complaints	
Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting quarter	45
June 2016 – August 2016	2

Project-to-Date

Table 6.2 C	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 include structural works for tunnel construction, road works and drainage works, and seawall modification were performed in August 2016 reporting month. 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 tunnel works at Wan Chai East and back filling works, culvert reinstatement and road and drain works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were road works and ventilation building construction at Central Interchange, temporary reclamation removal works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, ELS works and tunnel works at TS3; bridge construction, piling and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects was observed undertaken at Wan Chai North and North Point area.
- 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.



Lam Geotechnics Limited

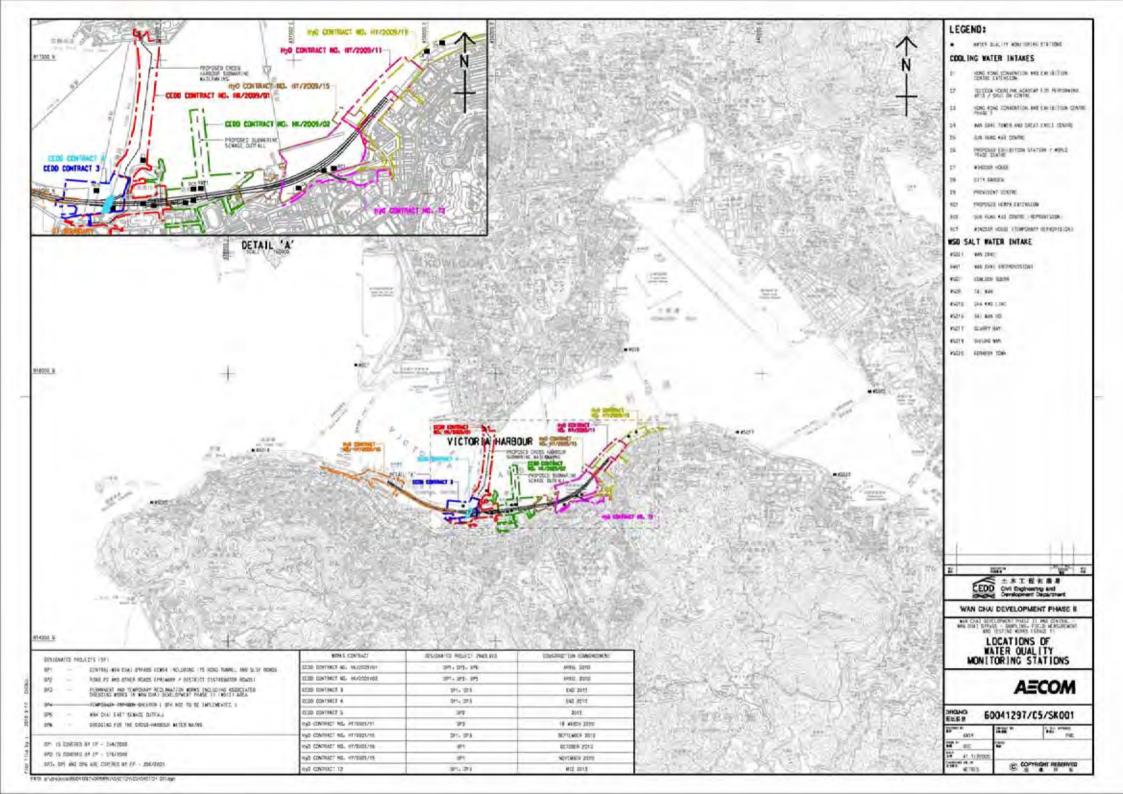
8. CONCLUSION

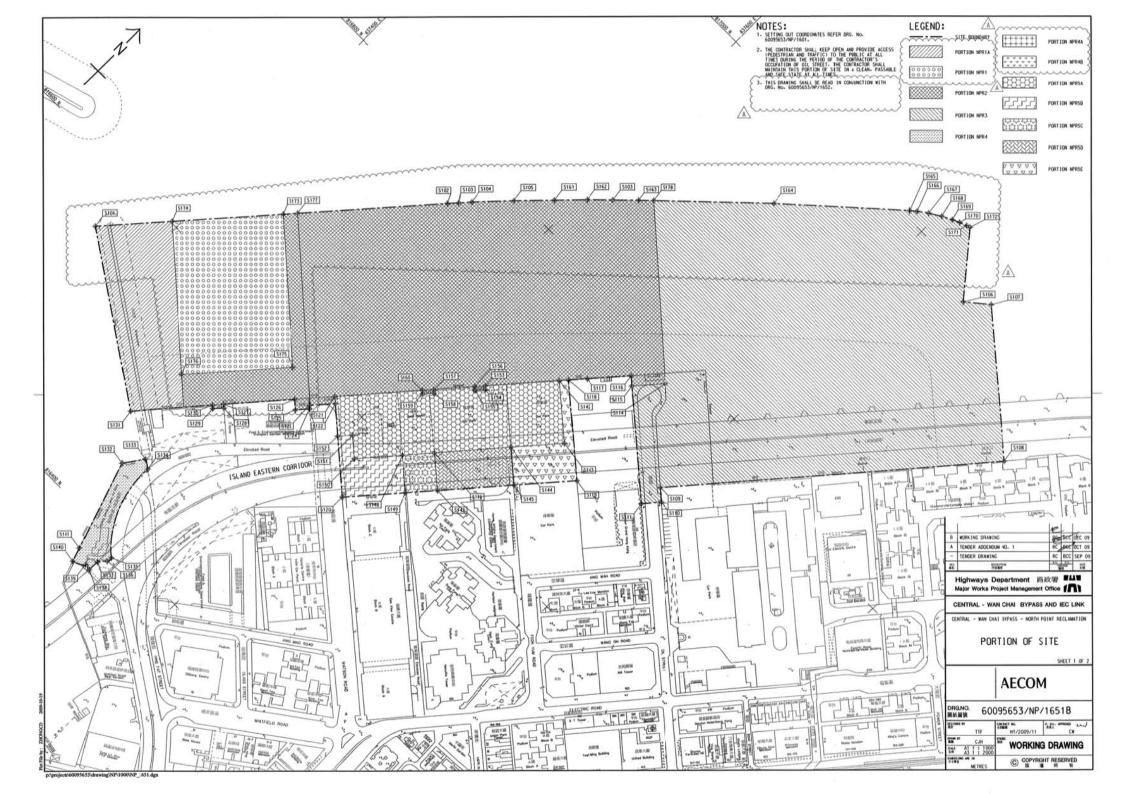
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliance was noted and no prosecution was received in this reporting quarter.
- 8.0.3. The construction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

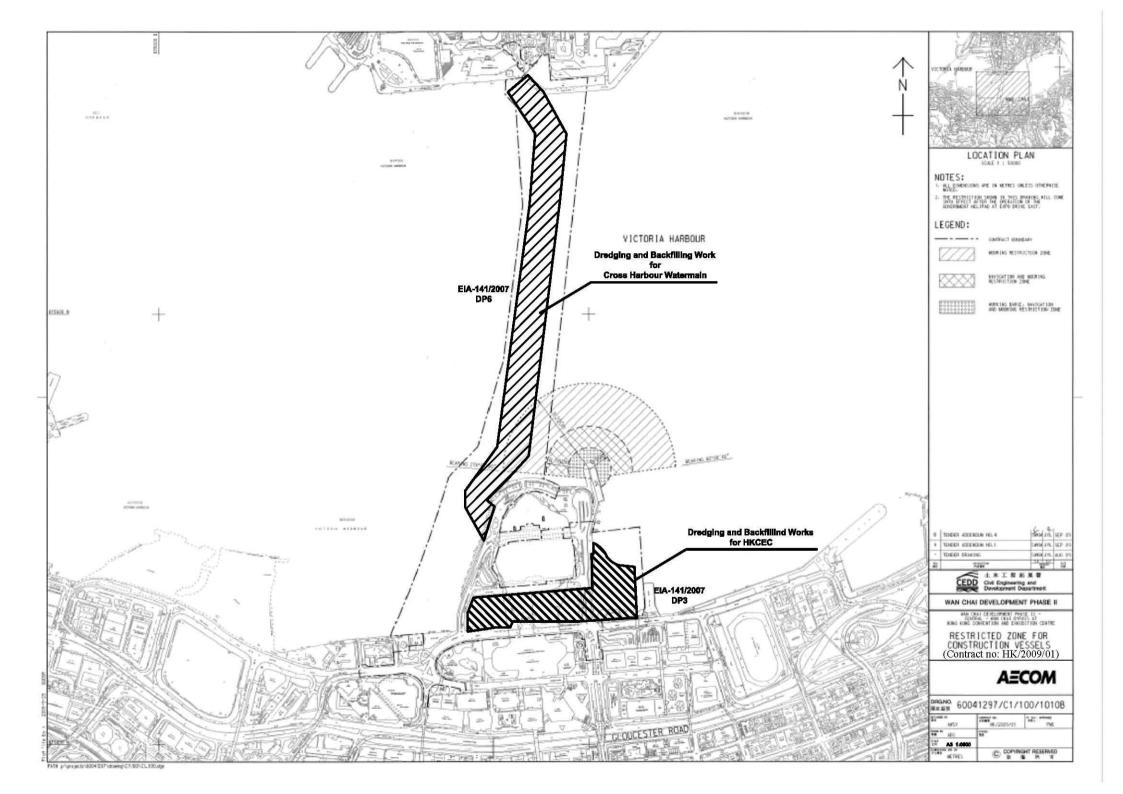


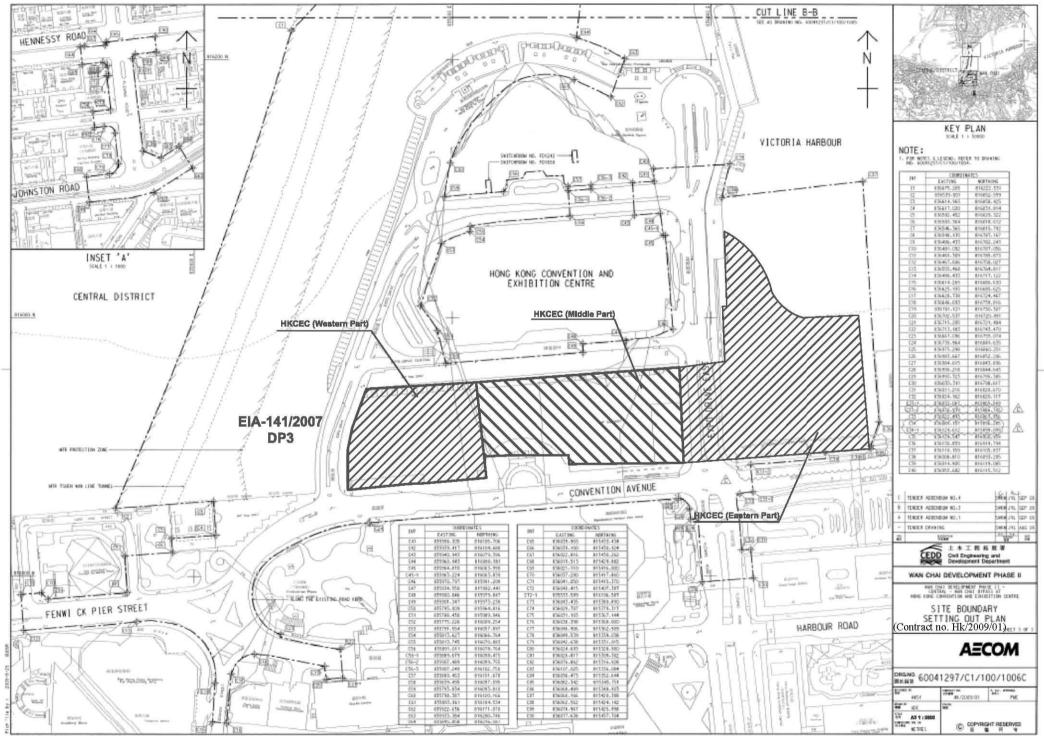
Figure 2.1

Project Layout

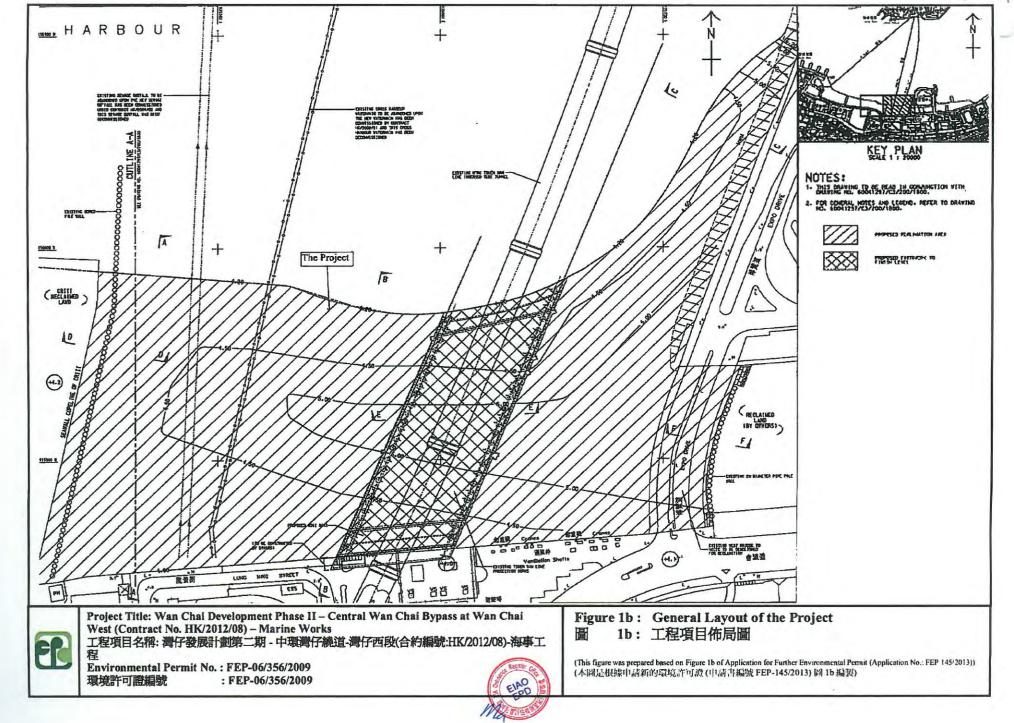


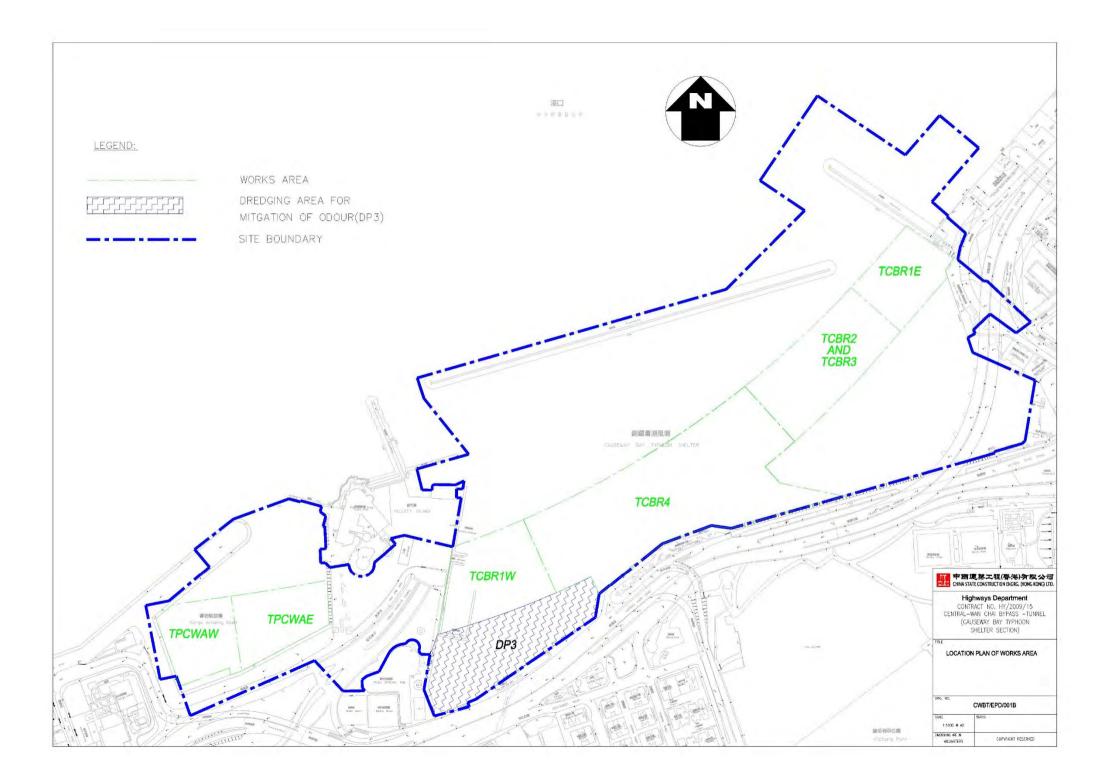


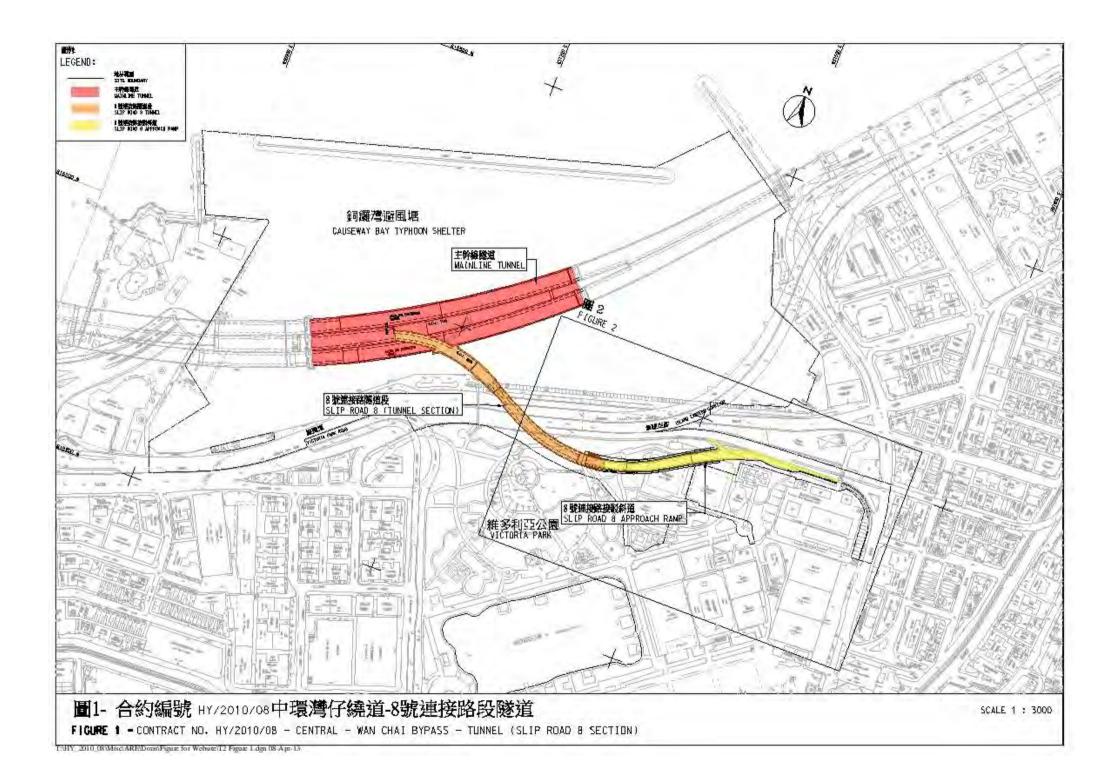


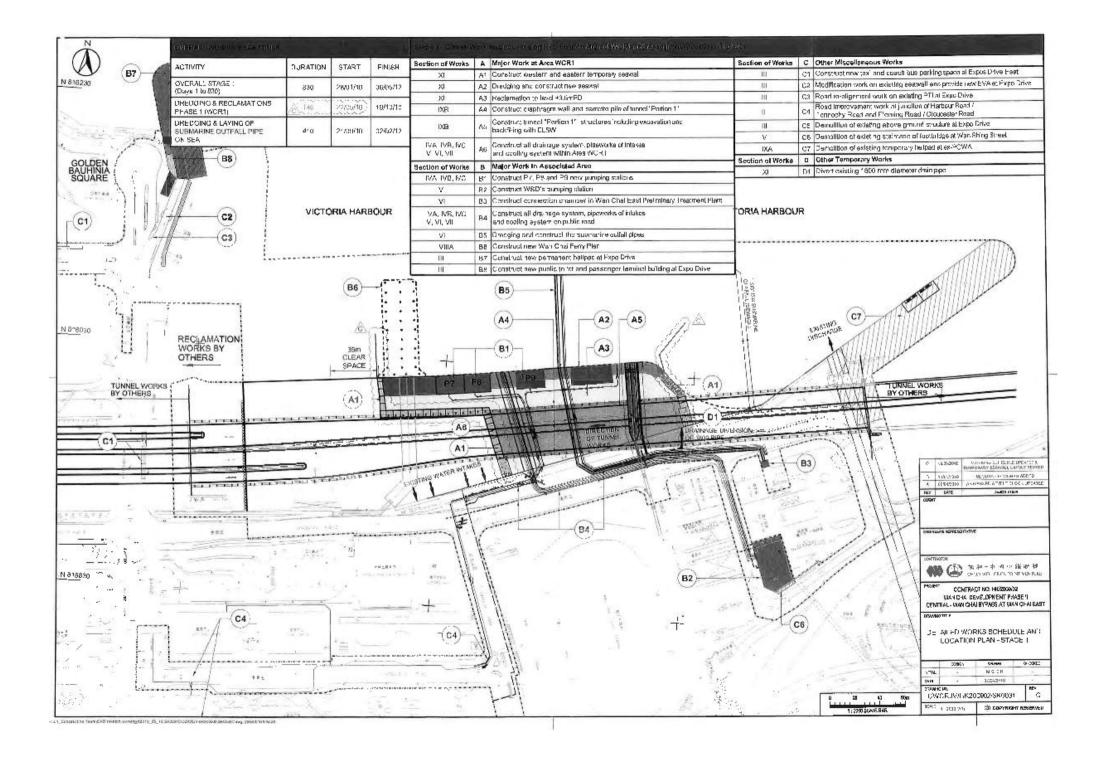


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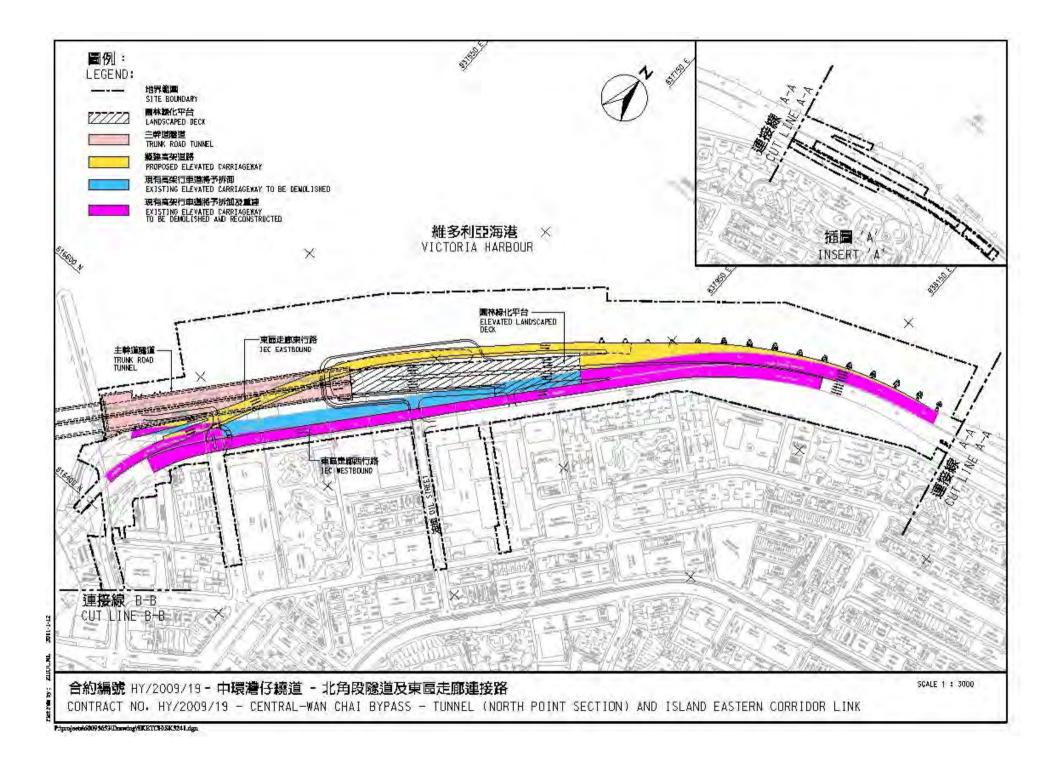




Figure 2.2

Project Organization Chart



Project Organization Chart

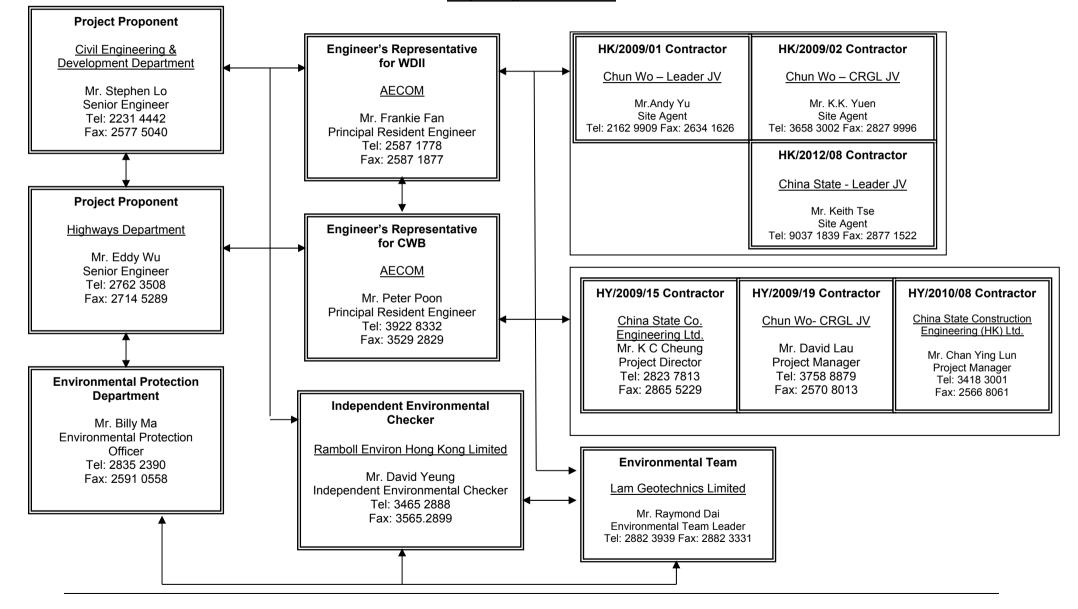
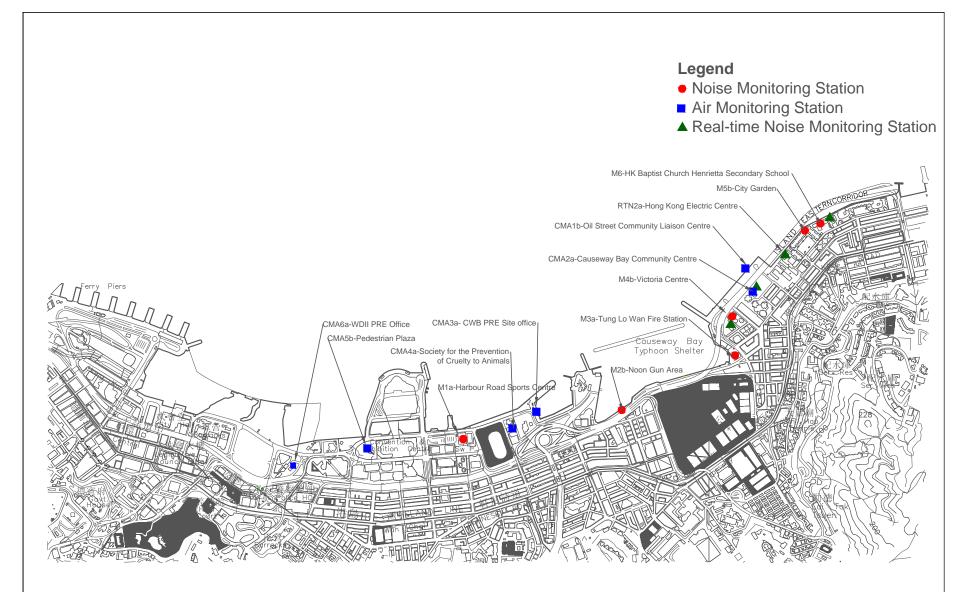




Figure 3.1

Locations of Monitoring Stations



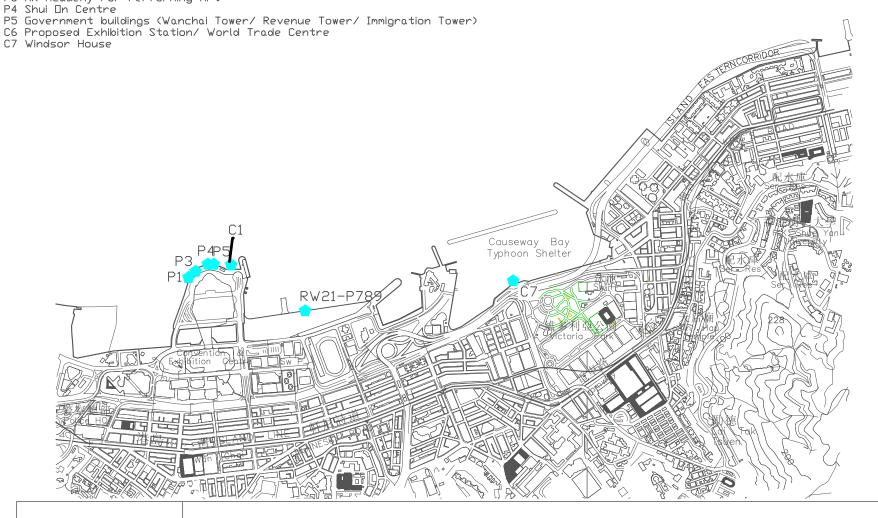
LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



- Vater Quality Monitoring Stations RW21-P789 (Wanchai WSD intake/ Great Eagle Centre/ China Resources Centre/ Sun Hung Kai Centre)
- C1 Hong Kong Convention and Exhibition Centre Extension P1 Hong Kong Convention and Exhibition Centre Phase 1
- P3 HK Academy For Performing Art
- P4 Shui 🛛 n Centre

- C7 Windsor House

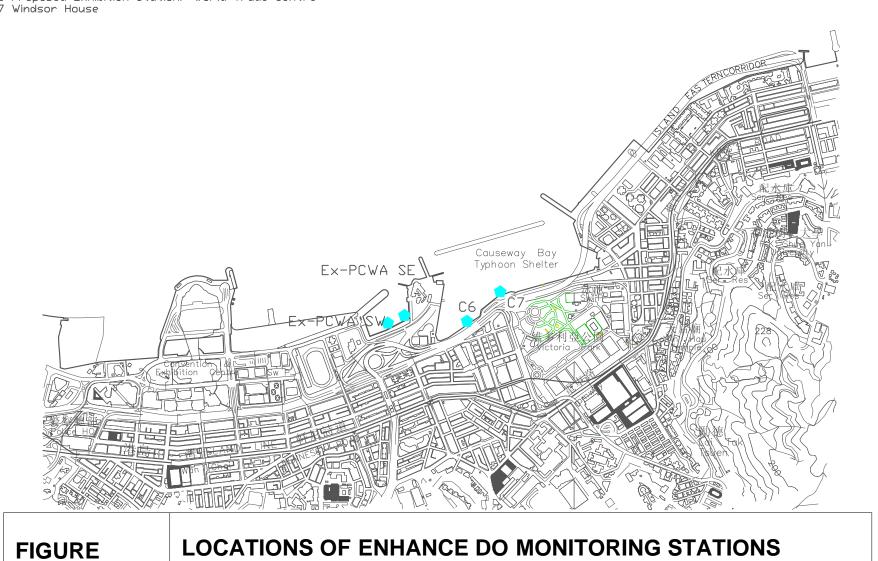
FIGURE

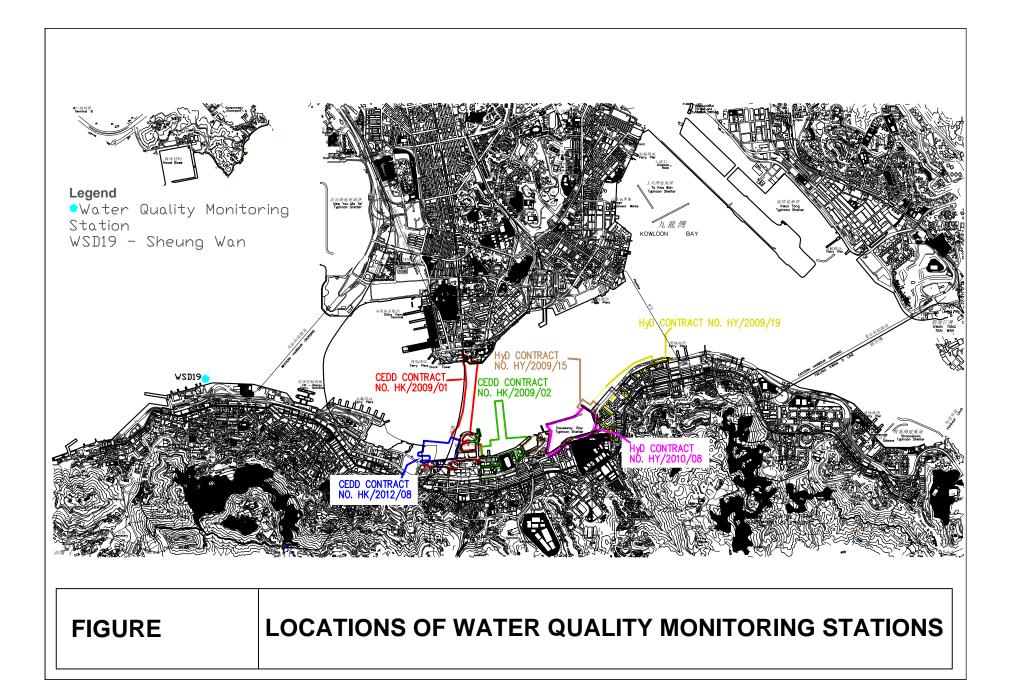


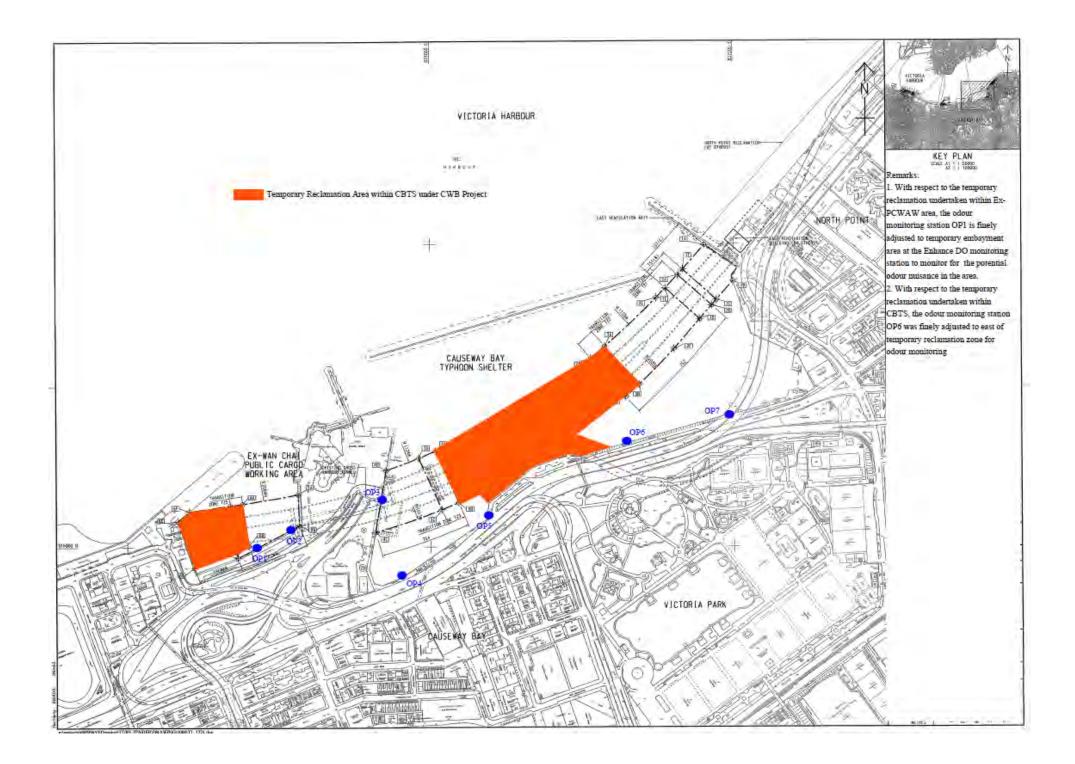
LOCATIONS OF WATER QUALITY MONITORING STATIONS

Legend

Enhance DD Monitoring Stations
 Ex-PCWA SE Ex-Public Cargo Wanchai Area SouthEast Station
 Ex-PCWA SW Ex-Public Cargo Wanchai Area Southwest Station
 C6 Proposed Exhibition Station/ World Trade Centre
 C7 Windsor House









Appendix 2.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation	
				Des	С	0	Dec	and Guidelines
Constructio	on Phase	•						
For the Wh								
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	 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/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				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>		~			EIAO-TM
\$3.8.8	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	I	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	nplem Sta	entati ges*	on	Relevant Legislation
		Liocation, Thining	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 -	CWB (Within the Project Boundary)							
S3.6.53 – S3.6.54	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/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages* Des C O				Relevant Legislation and Guidelines
Construction								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislatio				
	Environmental Protection measures / mitigation measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines				
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. 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO				
	 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 on- site construction activities. 											
or DP1 -	CWB (Within the Project Boundary)											

Appendix 2.1

Quarterly EM&A Report

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Implementation Implementation Relevant Legislation Stages* EIA Ref Location / Timing **Environmental Protection Measures / Mitigation Measures** and Guidelines Agent Des С 0 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

Appendix 2.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
\$4.8.3 - \$4.8.4	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		V			EIAO-TM, NCO

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		0	Agent	Des	С	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 - 0	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation	
		Liocation, Thining	Agent	Des	С	0	Dec	and Guidelines	
S4.8.14 – S4.8.18	 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 95m length of 3.5m high vertical 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 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 For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	Des √	C √		Dec	EIAO-TM	

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Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	e e e e e e e e e e e e e e e e e e e		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	Im	•	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to 1	sim Sha	a Tsu	i), DP	1 – CW	B (within the Project
\$5.8	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
\$5.8	 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

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EIA Ref	Environmental Protection Measures / Mitigation Measures				Location /	Implementation	In		entati ges*	on	Relevant Legislation	
		occubil freusures /	minguno	n wicubui es		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	typhoon shelter shall not be fully enclosed.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO	
\$5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in					Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging than the maximum	ried out and the new rates in each of the production rates sta thout considering th	marine wo ted in the	rks zones sh table below.	all not be more	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Maximum Dredging Rate Maximum Dredging Reclamation Area m³ per m³ per day m³ per hour (for 16 hrs)		F									
	Dredging along seawall or breakwater									1		
	North Point Shoreline 2	North Point Shoreline Zone (NPR) 6,000 375			42,000						1	
	Causeway Bay	TBW	1,500	94	10,500						1	
	Shoreline Zone	TCBR	6,000	375	42,000						1	
	PCWA Zone		5,000	313	35,000					1	1	

EIA Ref	Environmental Protection Measures / Mitigation Measures				Location /	Implementation	In		entati ges*	on	Relevant Legislation
		ingunon in	icusui es		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone (HKCEC) HKCEC Stage 1 & 3 (HKCEC) Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline	6,000 1,500 6,000 1,500 1,500	375 94 375 94 94	42,000 10,500 42,000 10,500 10,500							
S5.8, Figure 5.3	Note: 1,500 m ³ per day shall be applied seawall of WCR1. Dredging along the seawall at WCR1 1,500m ³ per day for construction of the proximity of the WSD intake), followed b western seawall (above high water mark much as possible from further dredging ac	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
S5.8, Figure 5.3	For dredging within the Causeway Bay partially constructed to protect the nea dredging activities. For example, at To seawalls shall be constructed first (abo seawater intakes at the inner water would the remaining dredging activities along the	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench filli TCBR and NP.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
\$5.8, Figure 5.3	Silt screens shall be applied to seawater ir as stated below: Interim Construction Location of Applied Stage Scenario 2A in early WSD saltwate Bay, Sheung W 2009 with concurrent Gooling water HKCEC, WCR, TPCWA, and Exhibitio	oplications er intakes at an, Wan Chai intakes for	t Sai Wa i, Kowloo Hong Ko	n Ho, Quarry n South ng Convention	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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EIA Ref	EIA Ref Environmental Protection Measures / Mitigation Measures		Location /	Implementation	In	plem Stag	entati ges*	on	Relevant Legislation
LETRE	Linvironmentur i rotection	in the user cost in the gation in cubit co	Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR. Scenario 2C in 2011 with	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 Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	concurrent dredging activities at HKCEC and TCBR.	Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	spillage and sealed ti	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between ed 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 t	noppers shall be controlled to prevent splashing of he surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted r transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Timing	Agent	Des	С	0	Dec	
	• 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 /	1			In	ıplem Staş	entatio ges*	on	Relevant Legislation
		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 for the intake. For area in close proximity of the cooling water intakes during 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	In		entati ges*	on	Relevant Legislation and Guidelines ProPECC PN 1/94; WPCO (TM-DSS)
LEI KU	Livitoimientai Frocedon Measares / Mitigation Measares	Timing	Agent	Des	С	0	Dec	
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		V			
	 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						wico (111-035)
	 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
		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)
\$5.8	<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		\checkmark			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	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	~	~			WPCO
Operation 1		I	L	1	1	1		
	3 (within the Project Boundary)		×× = === 3				1	
S5.8	 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 nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	 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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Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Implementation Timing Agent	-		Implementation Stages*			on	Relevant Legislation
	ů.	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	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Location / Thing	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
\$6.7.2	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	Implementation Stages*			Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
S6.7.5	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	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
2007 1001		Location, 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. 							
\$6.6.12	<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		\checkmark			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation
			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 transportation of waste by either covering trucks or by 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		~			Waste Disposal Ordinance (Cap.354)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Implementation Agent Des C Contractor V V		on	Relevant Legislation		
	Environmental Protection Measures / Mitagation Measures	Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
S6.7.8	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force; 							
	 any unused chemicals or those with remaining functional capacity shall be recycled; 							
	 use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. 							
	 prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill; 							
	• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and							
	 plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zarra omnenna i rotection riceasares / riceganon riceasares	Docution / 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)
\$6.7.11	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
\$6.7.12	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		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
	Environmental Protection Measures / Minigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
\$6.7.13	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	Implementation Stages*				Relevant Legislation
		Docution / 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*	on	Relevant Legislation
	e e e e e e e e e e e e e e e e e e e			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

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	ıplem Staş	entati ges*	on	Relevant Legislation and Guidelines
		Location, Thing	Agent	Des	С	0	Dec	
	 <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	nplem Sta	entati ges*	Relevant Legislation	
	Zin vin ommenden i Foreculon virensur es / virugan on virensur es	Location, Thinnig	Agent	Des	С	0	Dec	and Guidelines
	 Water Quality Mitigation Measures 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. 							
	 <u>Waste Mitigation Measures</u> 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. 							

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

Appendix 2.1

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Quarterly EM&A Report

Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
	g			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 – I	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.

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	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							

Appendix 2.1

Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
8.9.7.6	 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: 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. 	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
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		1			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				0	Des	С	0	Dec	
Construction	Phase			÷					
For the Whole	Project								
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		V			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 DP1 - CV	WB (With	in the Project Boundary)							
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			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		V			EIAO TM

Appendix 2.1

Contract No. HK/2015/01

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	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		V			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							L
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			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 DP5 - Wa	ı 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
For DP6 - Cros	s-Harbour Water Mains from Wan Chai to Tsim Sha Tsui		1			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							l
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, footbridge and noise barriers and enclosure.		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/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage3)

Quarterly EM&A Report

EIA Ref	Enviro	nmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	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/	\checkmark	\checkmark	\checkmark		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	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP1 - CW	B (Withi	n 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	\checkmark				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				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				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	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.6, 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 - Rec	amatior	ı Works	1	r					a
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



Lam Geotechnics Limited

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 Quality Monitoring

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

Action and Limit Level for Water Quality Monitoring

Parameters	Dry S	eason	Wet S	eason			
Parameters	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 Intal	(e						
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.

Action and Limit Level for Enhance DO Monitoring

Parameters	Depth	Dry S	Season	Wet Season	
Parameters		Action	Limit	Action	Limit
C6	Surface and Middle	3.13	2.00	2.60	2.00
0	Bottom	4.14	3.33	2.91	2.34
C7	Surface and Middle	3.87	3.09	3.31	2.57
07	Bottom	3.91	3.53	2.75	2.48
Ex-WPCWA SW	Surface and Middle	3.84	3.73	3.19	3.10
EX-WEGWA SW	Bottom	4.71	4.63	3.31	3.25
	Surface and Middle	4.26	3.61	3.55	3.00
Ex-WPCWA SE	Bottom	5.36	5.35	3.76	3.76

Action and Limit Levels for Odour Patrol

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.

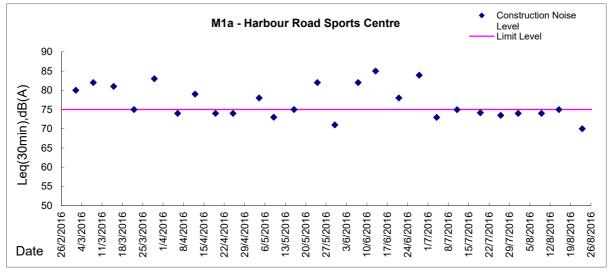


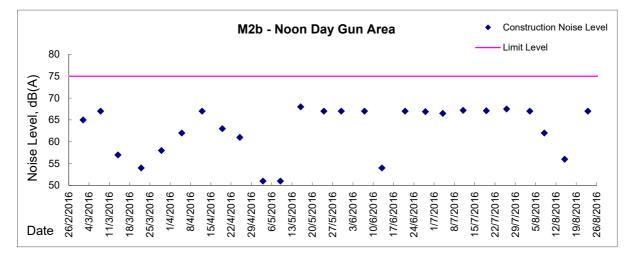
Appendix 4.1

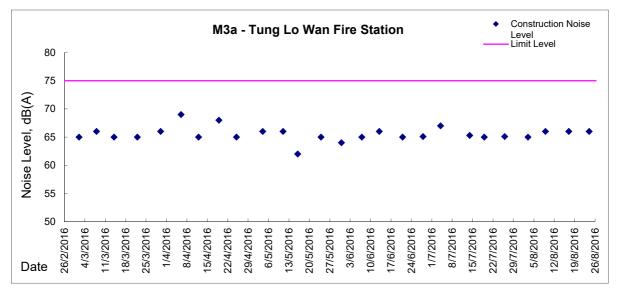
Noise Monitoring Graphical Presentations



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

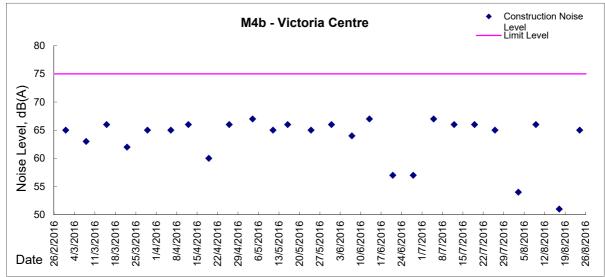


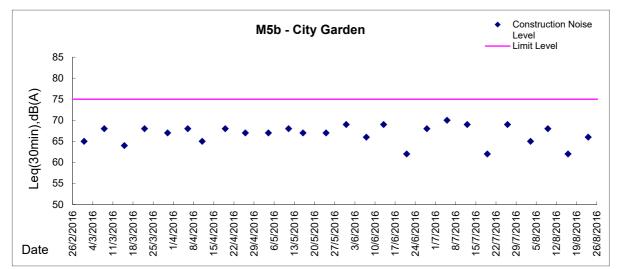


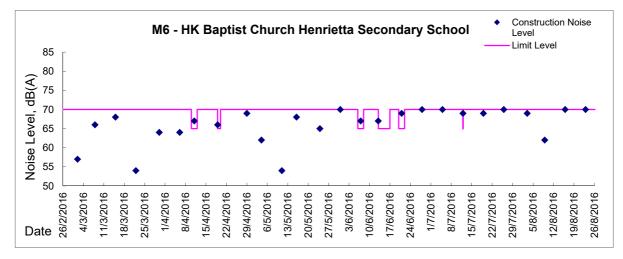




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





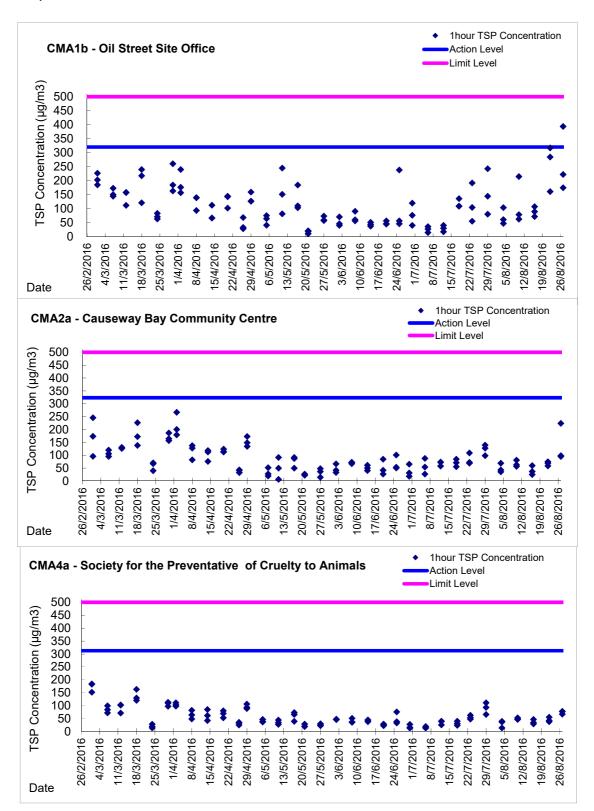




Appendix 4.2 Air Quality Monitoring Graphical Presentations

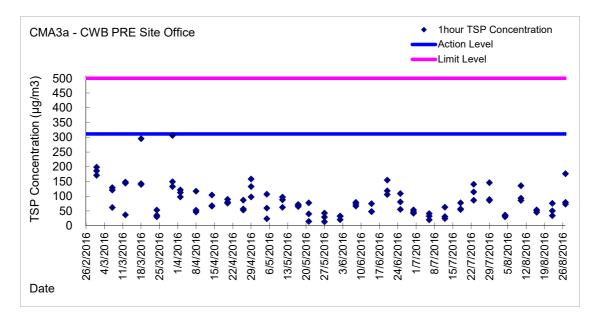


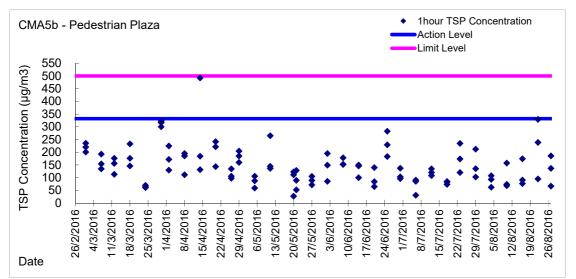
Graphic Presentation of 1 hour TSP Result

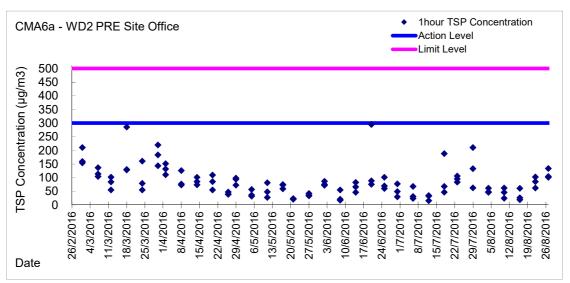




Graphic Presentation of 1 hour TSP Result

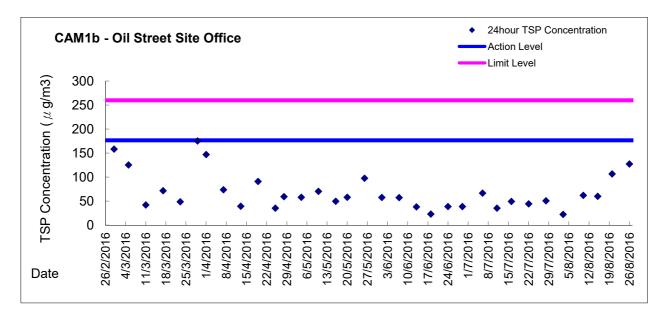


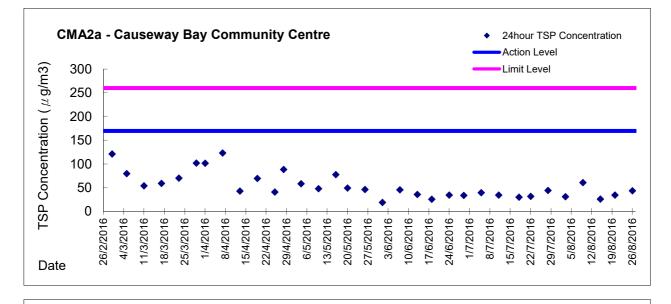


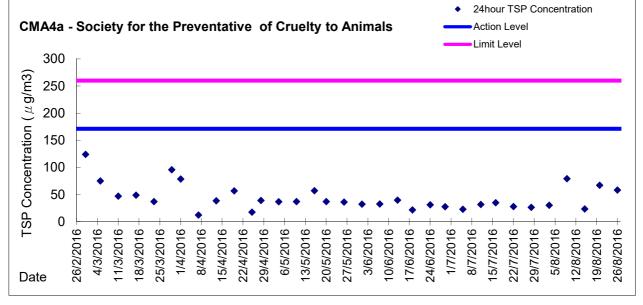




Graphic Presentation of 24 hour TSP Result

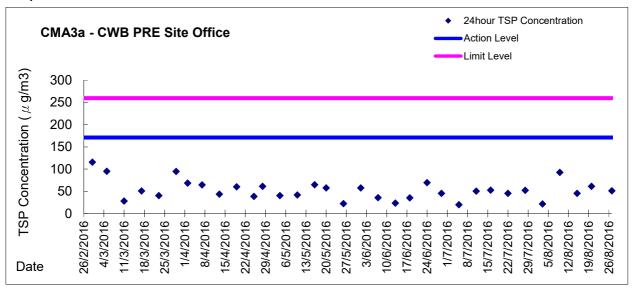


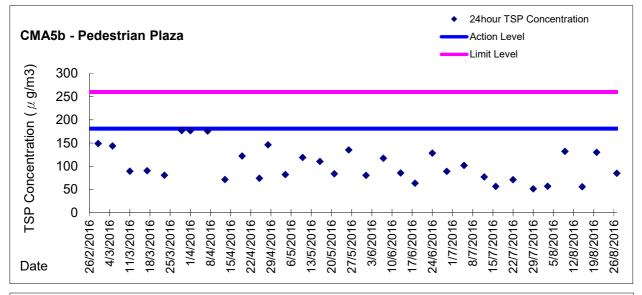


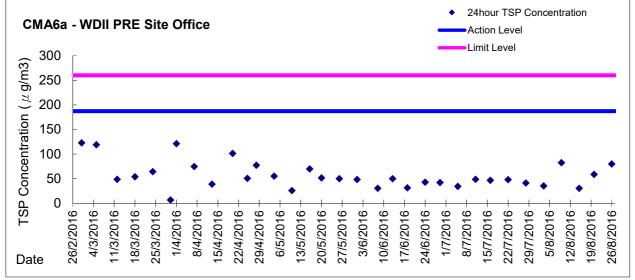




Graphic Presentation of 24 hour TSP Result









Field Data Record Sheet					
Monitoring	5 July 2016	Weather Condition:	Cloudy / Drizzle	Tidal	Ebb
Date:				Condition:	
Temperature:	<u>30.7ºC – 34.1ºC</u>	Relative Humidity:	<u>70.2% - 84.3%</u>		

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	14:09	34.1	72.9	0	/	/	/	0	/	
OP6	14:04	33.9	70.2	1	Seawater	Sea	Persistent	1.3	WSW	
OP5	13:56	33.9	74.3	0	/	/	1	0.7	S	
OP4	13:50	31.2	79.9	1	Mobile Exhaust	Generator & Vehicle	Persistent	0.9	NEN	
OP3	13:43	32.3	78.7	0	/	/	1	1.8	NE	
OP2	13:36	30.7	81.6	0-1	Seawater	Sea	Intermittent	2.2	E	
OP1	13:30	31.2	84.3	0	/	/	1	0.3	N	

Remarks for Odour Intensity:

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 characterised 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 level



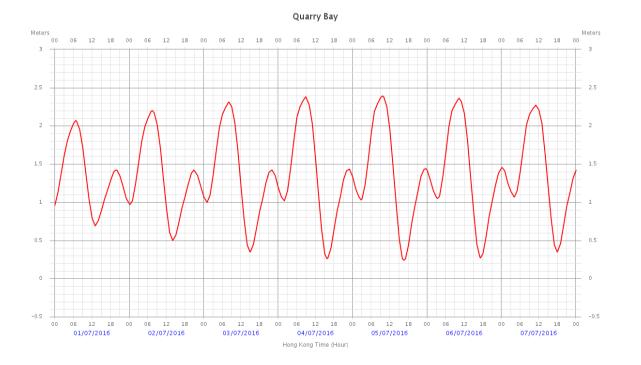
Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 5 July 2016

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 25.8 32.6 ℃
 Relative humidity: 70 96%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 26.2 – 32.0 ℃

The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
02:41	1.0
09:34	2.4
16:29	0.2
23:30	1.4





Field Data Record Sheet						
Monitoring	20 July 2016	Weather Condition:	Fine	Tidal	Ebb	
Date:				Condition:		
Temperature:	30.8ºC – 35.7ºC	Relative Humidity:	51.1% - 69.3%			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:30	34.9	51.1	0	/	/	/	2.0	E	
OP6	13:48	35.7	52.1	1	Seawater	Sea	Intermittent	0.5	NW	
OP5	13:42	35.1	58.4	0	/	/	/	0.6	W	
OP4	13:39	34.5	65.0	1	Seawater	Sea	Intermittent	0.5	SW	
OP3	13:29	34.8	65.7	0	/	/	1	0	1	
OP2	13:23	33.2	69.3	0	1	/	1	0	1	
OP1	13:21	30.8	65.6	1	Mobile Exhaust	Vehicle	Persistent	0.9	Ν	

Remarks for Odour Intensity:

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 characterised 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 level



Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

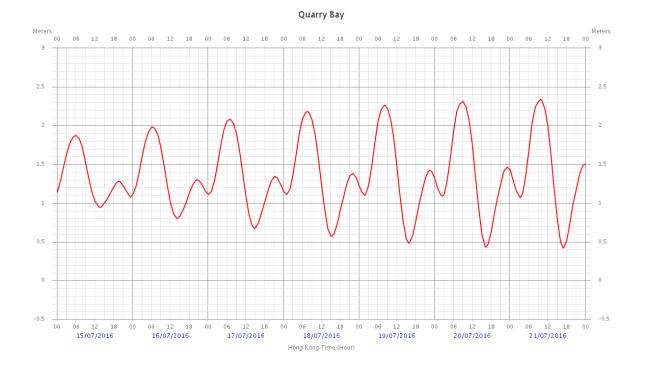
Meteorological Conditions on 20 July 2016

•	Hong Kong Observ	vatory Weather Sta	ation at Hong Kong Observatory	
	Air Temperature:	25.6 – 31.9 °C	Relative humidity:	68 – 97%

 Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 24.5 – 32.3 ℃

• The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
02:30	1.1
08:56	2.3
16:16	0.4
23:07	1.5





		Field Data Record	<u>d Sheet</u>			
Monitoring	1 August 2016	Weather Condition:	Cloudy	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>30.0°C – 32.2°C</u>	Relative Humidity:	<u>68.2% - 78.8%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	14:05	30.5	68.5	0	/	/	/	1.0	NW	
OP6	14:00	31.8	71.6	0-1	Seawater	Sea	Intermittent	0.9	SW	
OP5	13:54	30.8	68.6	0-1	Sewage	Sea	Persistent	1.0	W	
OP4	13:50	32.2	68.2	0	/	/	/	1.9	SW	
OP3	13:44	31.0	72.8	0	/	/	/	0.4	SW	
OP2	13:38	30.2	78.7	1	Seawater	Sea	Intermittent	1.5	NW	
OP1	13:37	30.0	78.8	0-1	Mobile Exhaust	Vehicle	Persistent	0.8	NW	

Remarks for Odour Intensity:

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 characterised 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 level



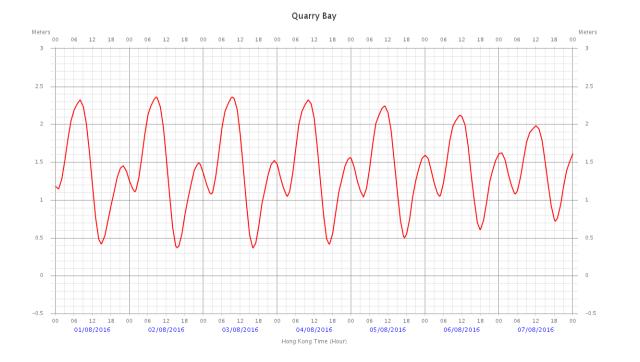
Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 1 August 2016

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 26.8 31.6 °C
 Relative humidity: 58 87%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 25.9 – 32.3 ℃

The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
00:45	1.1
07:53	2.3
14:47	0.4
21:52	1.5





	Field Data Record Sheet							
Monitoring	17 August 2016	Weather Condition:	Cloudy	Tidal	Ebb			
Date:				Condition:				
Temperature:	<u>28.9°C – 29.7°C</u>	Relative Humidity:	<u>76.7% - 85.5%</u>					

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	14:27	29.7	76.7	0	/	/	/	0.9	E	
OP6	14:23	28.9	77.9	0	/	/	/	1.2	NE	
OP5	14:18	29.0	83.5	0-1	Sewage	Sea	Intermittent	2.0	SW	
OP4	14:13	29.4	81.9	0-1	Sewage	Sea	Intermittent	0.0	/	
OP3	14:06	29.5	82.3	0-1	Seawater	Sea	Persistent	1.5	NE	
OP2	14:02	29.5	83.3	0	/	/	/	1.2	S	
OP1	13:59	29.5	85.5	0	/	/	/	0.6	Ш	

Remarks for Odour Intensity:

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 characterised 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 level



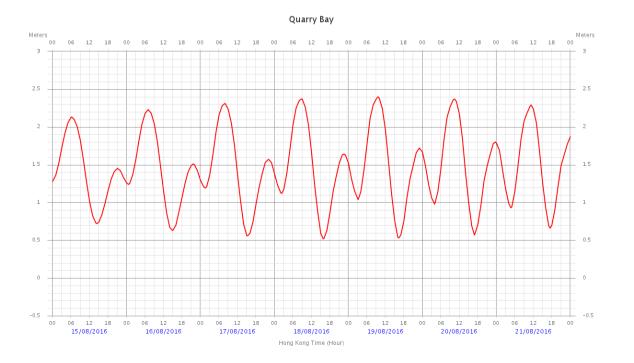
Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 17 August 2016

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 25.3 28.0 ℃
 Relative humidity: 91 98%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 24.8 – 27.3 ℃

The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
01:30	1.2
07:51	2.3
15:18	0.6
22:04	1.6

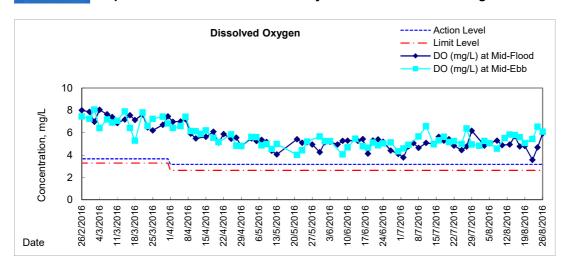


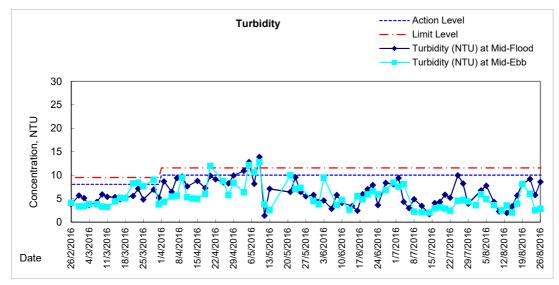


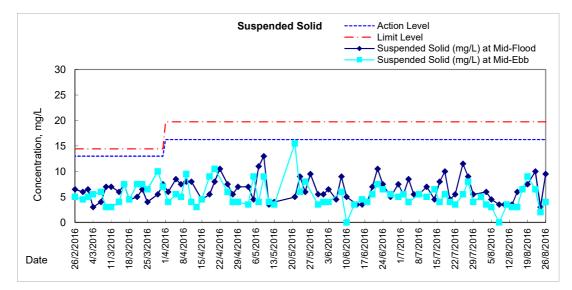
Appendix 4.3

Water Quality Monitoring Graphical Presentations

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

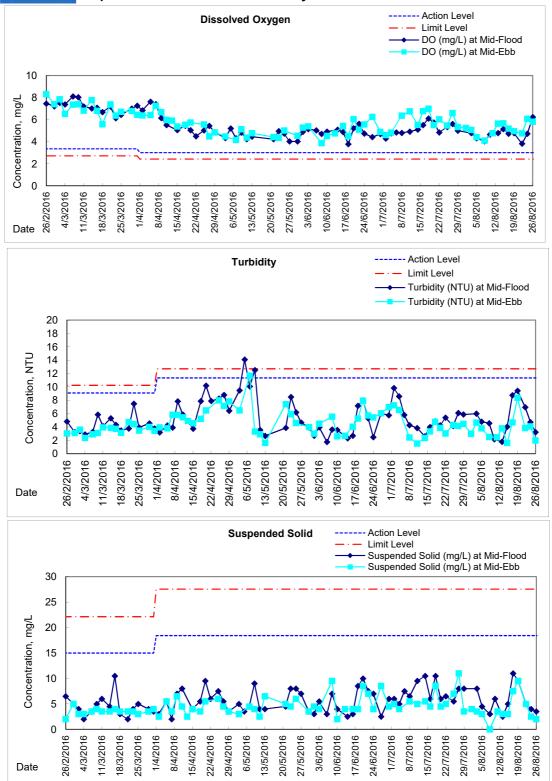




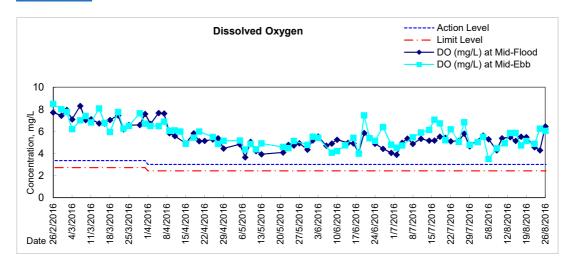


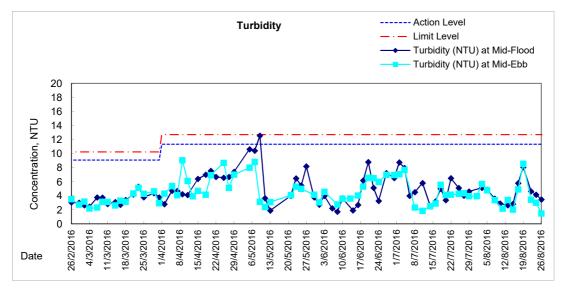


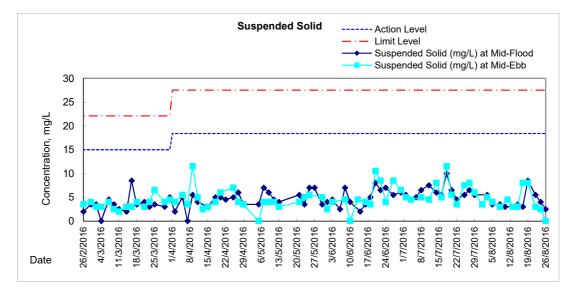
Graphic Presentation of Water Quality Result of C1 - HKCEC



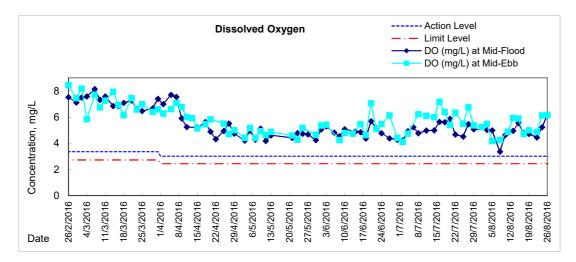
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

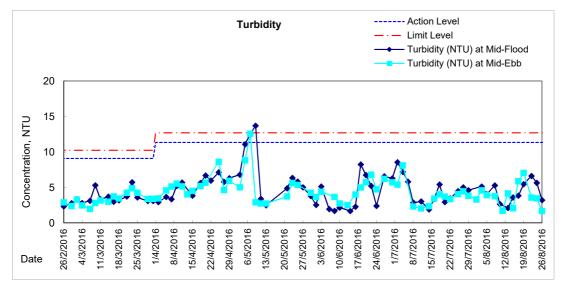


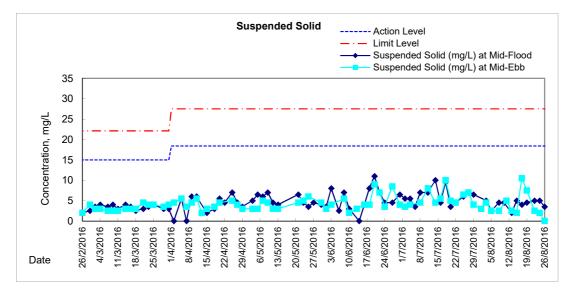




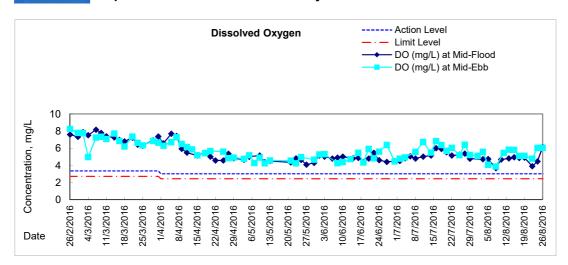
Graphic Presentation of Water Quality Result of P3 - APA

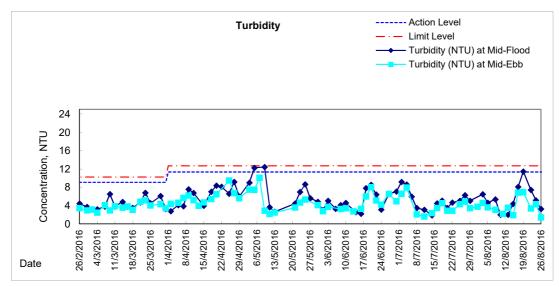


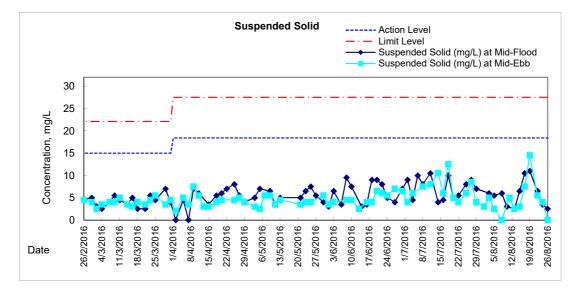




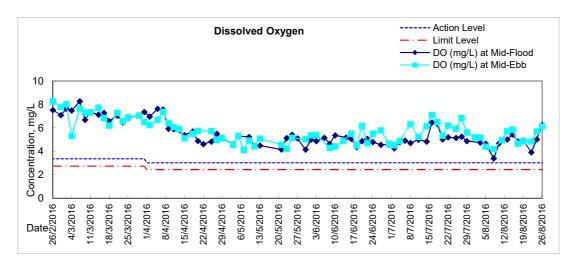
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

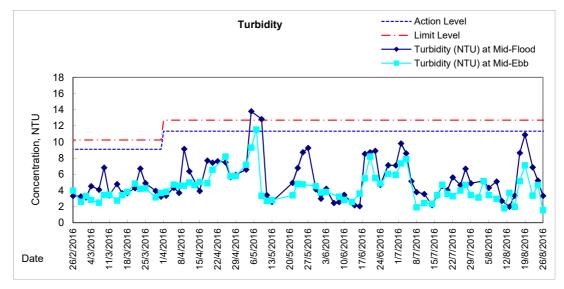


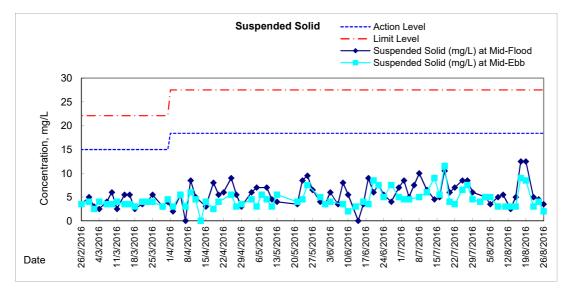




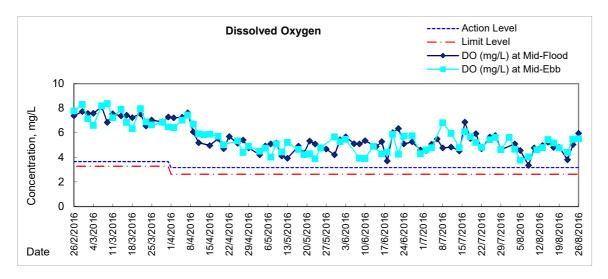
Graphic Presentation of Water Quality Result of P4 - SOC

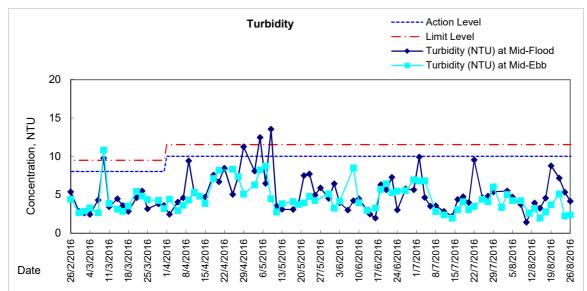


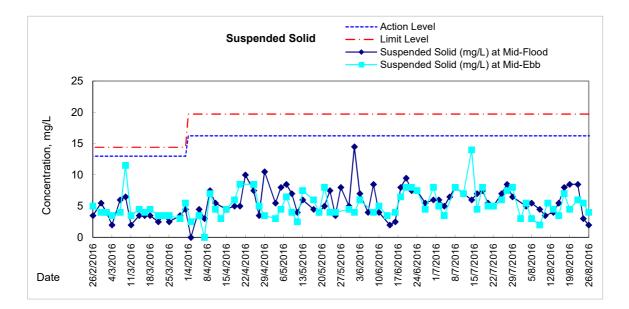




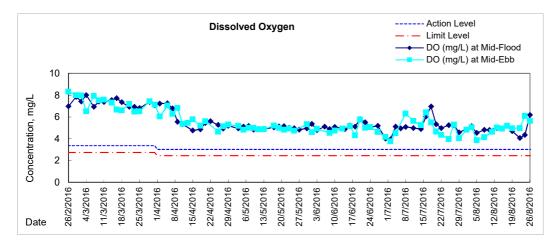


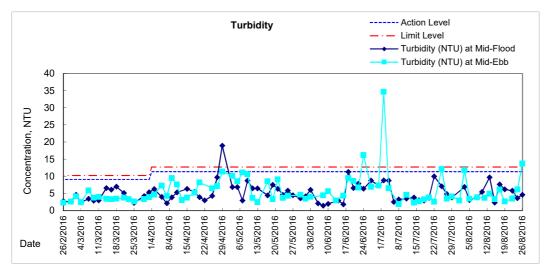


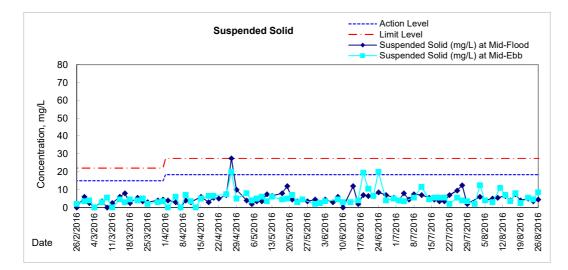




Graphic Presentation of Water Quality Result of C7 - Windsor House

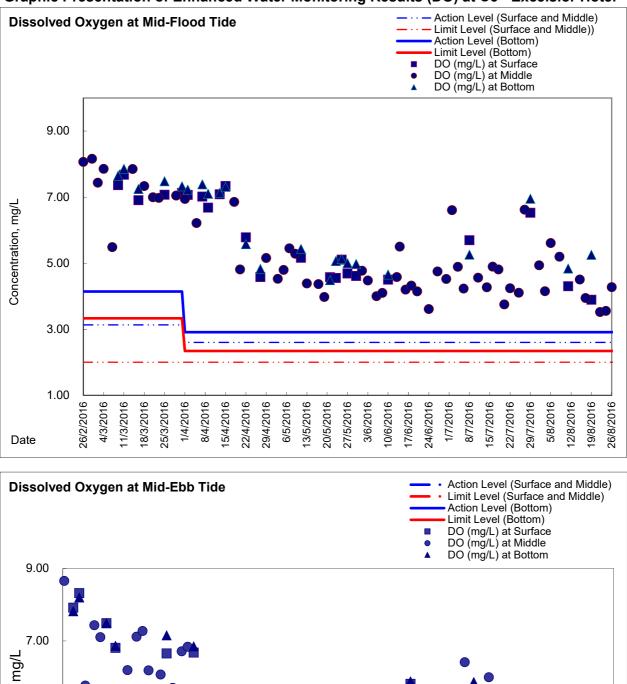


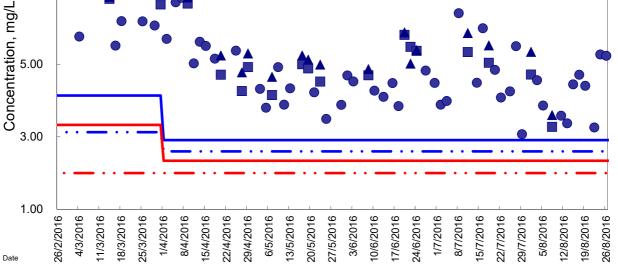






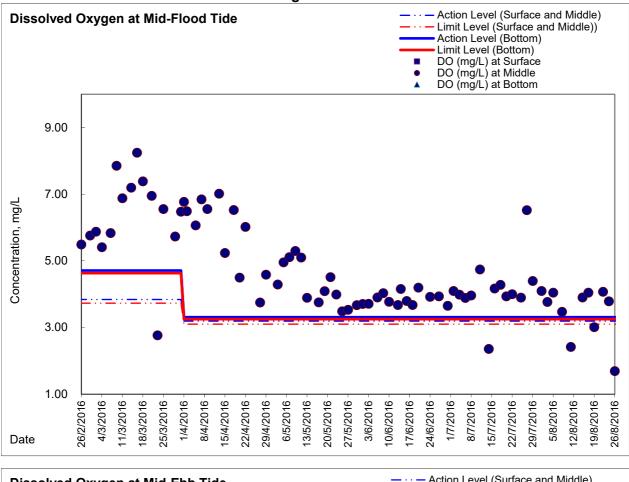
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel

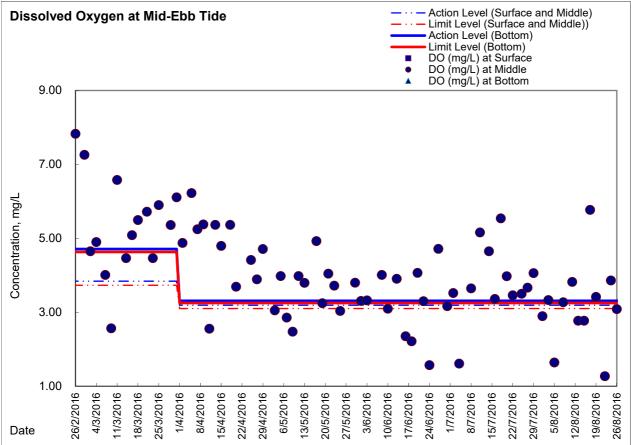






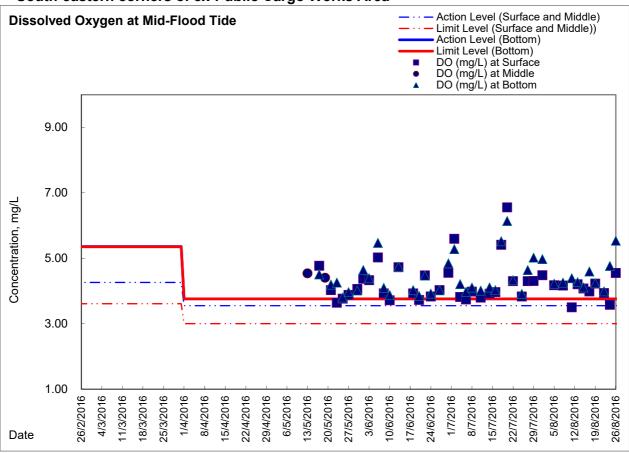
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

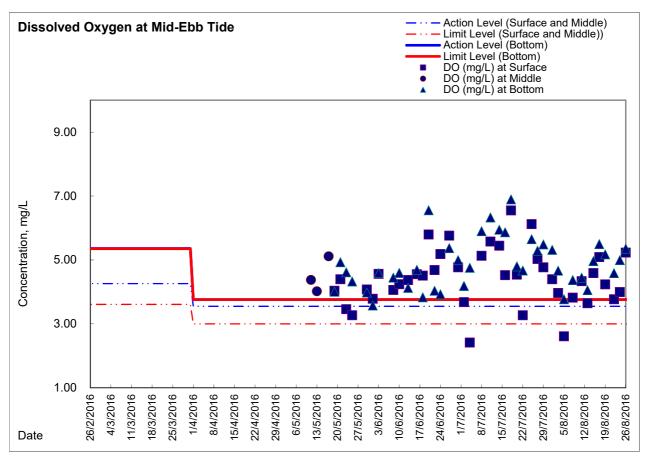






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 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	ACTION									
	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) 	actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	 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							
EVENI	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)



Event and Action Plan for Odour Patrol

Event		ACTION						
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD						
Action Level								
Exceedance of Action Level	 Identify source/reason of exceedance; Repeat odour patrol to confirm finding. 	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 						
Limit Level								
Exceedance of Limit Level	 Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; If exceedance stops, cease additional odour patrol. 	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 						



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	breakwater of the	from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		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.	



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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.	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. No further complaints were received in the reporting month. The complaint is considered closed.	Closed
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.	1) 2) 3) 4)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period. It is considered as invalid from the EP and CNP point of view.	Closed
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.	1) 2) 3)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed



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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)	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.	Closed
		station et no wob 15)	2)	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.			
					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	,	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	City Garden, North Point	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:	Closed
		Block 10, City		2010 in which the noise from		• It was referred to the filling operation at North Point	



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		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 rock surface during loading down the grab onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the complainant 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



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110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	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.	2)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 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.	Closed
					3)	It is considered as invalid complaint under this Project.	
110617	9/06/2011	Mr. Law from Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Boad in part of the site area was	('	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 wa	related to CWB	Onice	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.	



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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.	1)	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	



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						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Department published a notic in their Management Offic about construction works will b conducted from 0700 hours t 2300 hours during July t	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 3) 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	
		2, Victoria Centre by ICC no. 1- 304013959		conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	2)	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	
			early morning the vicinity started at	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	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011 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. No noise exceedance was recorded at construction noise	Closed



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				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.	
110727Ь	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	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. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be	
	08/08/2011				4)	started at 8am. 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) Re	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. marks: There will be counted as two complaints in this	
					1.0	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.	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	



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						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.	1) 2)	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 demined the period.	
					3)	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.	
					4)	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 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. 	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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						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



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-					 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.	 by the Contractor. 1) 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. 2) 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. 	Closed
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 	Closed



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					้ was also raised ot same day. Besides, Construction Noise	by the police officer. The Resident Site Staff that same issue at by RSS at about 7:00a.m on the it was confirmed that there is no valid Permit for the conducted construction between 2300 and 0700.	
					HK/2009/01 and the Sub-contractor had carrying out the insp bentonite pipes at al	ommunication between Contractor ir Korean Sub-contractor, Korean not notified to Contractor before bection of the BC cutter, hoists and bout 6:00a.m to ensure no damages is should be tightened and in good	
					between Contractor sufficient environme operators on restrict Construction Noise	sed to enhance the communication and sub-contractor and provide ental training to all foreman and ted hour operation. Futhermore, Permit should be checked and in uction works during restricted hour	
					conducted construct without valid Constru- construction works w period. The construct accordance with the	considered in relation to the tion works during restricted hours uction Noise Permit. No more were conducted during night time ction works will be conducted in time period stated in valid CNP. This pt in view of any follow-up action from ment 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.	 RSS notified ET on ET confirmed with works were perform After reviewing the M3a), no exceedand and the noise level HY/2009/15 was of condition of noise n found satisfactory. performed during th included drilling, excavations. HyD made a reply t 1823. HyD replied drilling, diaphragr 		Closed



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					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	Closed



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					3) It w su ir ir A b c fu T	ne dispersion was observed partly extended beyond the utermost layer silt curtain at 1000hrs. Immediate follow p action was requested. is considered that Contractor's mitigation measures yould require further review on the effectiveness to avoid eepage of muddy dispersion such as regular diver spection check and daily visual checking of silt curtains. dditional silt curtain at marine access zone was installed y Contractor on 12 June 2014 and the double layer silt urtain were generally in order. Follow-up inspection was urther conducted on 16 June 2014.	
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.	 C) E 2) E o w O U 	ase was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received y ET on 25 July 2014 To confirmed with RSS that horizontal cutting and removal f D-wall at Eastern, Southern and Northern side of TS2 vas undertaken by Contractor of HY/2009/15 within causeway Bay Typhoon Shelter before 23:00hrs on 20 uly 2014 that total 3 numbers of derrick lighter and 3 umbers of saw cut machine were in operation, and emoval of D-wall at Panel S30A-1 of TS2 was undertaken y Contractor of HY/2009/15 within Causeway Bay yphoon Shelter around 00:25hrs to 00:56hrs on 21 July 014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract IY/2009/15, before 23:00hrs on 20 July 2014, horizontal utting and removal of Diaphragm Wall at Eastern, southern and Northern side of TS2 was conducted under IY/2009/15 within Causeway Bay Typhoon Shelter. Total nos. of derrick lighter and 3 nos. of saw cut machine vere in operation at the above period. From around 0:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at 'anel S30A-1 of TS2 was undertaken by Contractor of IY/2009/15 within Causeway Bay Typhoon Shelter. Total no. of derrick lighter was found operating at the above eriod : was considered the condition of CNP GW-RS0592-14 /as not fulfilled by the Contractor of HY/2009/15. "From 0:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the IME (s) (1 no. of 0 25hrs to 00:57hrs on 21 July 2014, the IME (s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the IME (s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the IME(s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the IME(s) (1 no. of 0:25hrs to 00:57hrs on 21 July 2014, the IME(s) (1 no. of 0 25hrs to 00:57hrs on 21 July 2014, the IME(s) (1 no. of 0 25hrs to 00:57hrs on 21 July 2014, the IME(s) (1 no. of 0 25hrs to 00:57hrs on 21 July 2014,	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.



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					 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.	Interim investigation report submitted to EPD on 23 October 2014.
					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.	Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014 EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint	Outcome 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. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02. From 23:00 hrs to 06:00 hrs, panel replacement 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 06:00 hrs, 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.	Status advised no further comment on the updated interim report and case closed on 27 Nov 2014.
					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.	



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141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	H05/RS/000278 old Wan Chai Ferry 15-14 Pier site at old Wan Chai Ferry was scented that affecting	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
		received by ET		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.
					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.	2014.
					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.	



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					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, EPD advised no comment on 27 February 2016 on the interim report submitted and case closed.



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					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.	
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge	Interim report submitted to EPD on 29 June 2015 and EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint other construction plants under operation from the reclamation construction site	Outcomemoored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation.Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site.According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17	Status advised no comment on 20 July 2016 on the interim report submitted and case closed.
					June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated	
					material from Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively. Follow-up inspection was conducted during weekly	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Nature of Complaint Malodour from marine sediment	 environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public. A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. 	Status Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.
					According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	



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					Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed



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					barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge. The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	Interim report submitted to EPD on 14 September 2015. 2 nd interim report submitted to EPD on 17 Dec 2015 3 rd interim report submitted to EPD on 31 Dec 2015



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					 From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit 	
					 GW-RS0296-15 for the concerned operation was confirmed in place. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. 	



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					From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
					The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.	
					The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the	Interim investigation report submitted to EPD on 25



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		received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.	September 2015. EPD advised no comment on 14 October 2015 and case closed.
					In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.	
151015	11 Oct 2015	A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015	Seafront opposite to Watson Road adjacent to Eastern Breakwater	Pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.	Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.	HyD will consolidate all input from relevant parties to form a reply to ICC.
					Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed. Based on the above, no direct information indicating the pink	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					fluid was originated from the worksarea under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.	
151028	26 Oct 2015	A public complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref:H05/RS/00 027330-15 Dated 28 October 2015)	Construction Site next to ex-Wan Chai Ferry Pier	Operation of grab dredger at construction site near the ex- Wan Chai Ferry Pier from around 0100 to 0400 hours on 26 October 2015 caused noise nuisance.	According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place. The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.	The interim report would be submitted to EPD on 05 November 2015 and EPD advised no comment on 16 November 2016 and case closed.
151116	13 November 2015	A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/000291 26-15)	Construction Site at HKCEC and seafront outside Lung Wo Road	Muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level	Based on the site records, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generated around the localized silt curtain enclosed area, the Contractor was advised to promptly improve the condition of the silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement. Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to	The interim investigation report would be submitted to EPD on 1 December 2015 and record of diving inspection conducted on 27 November 2016 was forwarded to EPD on 4 Dec 2016. EPD advised no further comment on 14 Dec 2015 and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure. A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order.	
160413 (HK20120 8)	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016 (EPD Ref.:	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning. ET confirmed with the Resident Site Staff that internal	Interim investigation report was submitted to the EPD on 21 April 2016.
		H05/RS/00008 367-16 dated 13 April 2016)			transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation.	EPD advised no further comment on 6 June 2016 on the
					Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.	interim report submitted and case
					According to the relevant site records provided by RSS, internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13	closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.	
					Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.	
					Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.	
160706	30 June 2016	A public complaint referred by EPD was received by ET on 06 July	Construction area near Royal Hong Kong Yacht Club	Derrick barge moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref.: H05/RS/0016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	Interim report was submitted to EPD on 14 July 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2016 (Case Ref:. H05/RS/00016 226-16),			ET confirmed with Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF 206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from 15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016.	
					Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of HY/2009/15 was reminded to conduct regular checking and maintenance of all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke emission affect nearby surroundings.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160825	25 May 2016	A public complaint referred by EPD was received by ET on 25 August 2016 (Case Ref.: H08/RS/00012 592-16)	East of Temporary Reclamation Zone TS3, Causeway Bay Typhoon Shelter	Muddy water was observed at Causeway Bay Typhoon Shelter	A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter. ET confirmed with the Resident Site Staff that no marine construction activities were undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelther from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. vii) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site. Based on the complainant photo information, the exposed soil slope at Temporary Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.	
					Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.	
					Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license.	



Appendix 7.1

Construction Programme of Individual Contracts

CHUN WO -

D	Activity Name	OD	Start	Finish				2016 Qtr 2
						Apr		May
2009/01 - Revised \	Works Progress Rev. 6H (Data Date: 22 Apr 16)							
ection 3 of the Works	s - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8							
CWB Tunnelling Work	xs (Stage 3 : Ch3129 - Ch3245)							
Stage 3 - Tunnel St	ructure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)							
Tunnel Structure	e at Stage 3A & 3B (CH3129 - CH3245)							
S3C-TS-2030k	Backfilling to Road formation level from Bay 10 to Bay 14	30d	12/01/16 A	01/04/16 A		Backfilling to Road format	on level fror	n Bay 10 to Bay 14
S3C-TS-2090	D1 Bay 15,16 & 17 Slip Road 2 Road Barrier	14d	17/03/16 A	23/03/16 A	Bay 15,16	& 17 Slip Road 2 Road Bar	rier	
S3C-TS-2110F	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9d	15/02/16 A	23/03/16 A	Bay 18, 19	9 & 20 CWB, Slip Road 3 an	d Slip Road	2 Road Barrier
S3C-TS-2150	Backfilling up to Future Road Formation for Bay 19 - Bay20	32d	22/04/16	30/04/16				Backfilling up to Future Road Formation
tion 8 of the Works	- Works in Area 6 (Utilities other than Watermains in Fenwick Pie	r Street)						
Sewerage Works								
S8-3010	Planter Reinstatement	30d	29/07/15 A	16/05/16				Planter Reinstaten
S8-3020	Road Reinstatement	21d	25/09/15 A	16/05/16				Road Reinstateme
tion 9 of the Works	- Remaindar of the Works							
Reprovision of Expo	Drive East							
S9-2040	Completion of Area 9 Formation Works	0d		08/05/16				Completion of Area 9 Formati
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30d	22/04/16*	21/05/16	_,			Construction
riation Order No.153	3 - Design and Construct CWB Bypass Tunnel from CH3246 to CH	3278						
Works at Area 8 - CW	3 Tunnel, Slip Roads 2 & 3, Works in Area 8							
CWB Tunnelling W	orks (Stage 4: Ch3246 - Ch3278)							
Stage 4 - Tunnel	Structure Works (Bay 21 to Bay 22 : CH3246 - CH3278)							
S4-TS-0040	Bay 21a, 21b 22 and 23 Wall	15d	15/02/16 A	03/05/16				Bay 21a, 21b 22 and 23 Wall
S4-TS-0050	Bay 21a, 21b 22 and 23 Wall & OHVD Base Slab	15d	04/05/16	22/05/16				Bay 21a, 2

Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
Actual Work			15-Sep-15	Master Programme 6H
		Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	22/04/16	Progress Updated on 22 Ap
Summary Bar		Wan onal Development i hase ii - Gentral-Wan onal Dypass at intoleo (Gentral I)	(
Critical Remaining Work		WORKS RECORDANIAE Day 4 2 Month Programme starting from 20/04/46	()	
♦ Milestone		WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 22/04/16	[]	

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			1				
22 and 23	3 Wall & Ol	HVD Bas	se Slab				
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Activity ID	Activity Name	OD	Start	Finish		2016		
		/				Qtr 2		Qtr 3
		$\lfloor _ $			Apr	May	Jun	Jul
	Construction of Road Barrier and Backfilling to Formation Level from approx4.0mPD to +2.5mPD (approx. 23,975cu.m)	20d	30/05/16	19/06/16		-	Construction	of Road Barrier and Backfilli

Remaining Work Summa Actual Work Actual Work Summary Bar Critical Remaining Work Critical Remaining Work Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1) WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 22/04/16	Date 15-Sep-15 22/04/16	Revision Master Programme 6H Progress Updated on 22 A pr 2016	Checked		Page 2 of 2 執ASK filters: 3-Month (Works), 3-Month Rolling Prog. 蘯Print on: 24/04/16 16:38
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CHUN WO - LEADER JOINT VENTURE

HK/2009/01 Roadworks, Drainage and Sewerage Works at Junction of Expo Drive and Expo Drive Central

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Road side barrier along w02	#	#	#	#	#	#	II.		Ħ		I.										Ħ			11					11					11							Ш		
Public Lighting and hammer head island	++	+		H	H								+		++	+			+	H	+	+	H	Ħ	ŦF	H		-	+1	H	H	H	H	H	-	H	H	-		-	-	H	F
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Precast Kerb installation at west hammer head																+	H		+	H					Ŧ	F	H	H	H	H	Ŧ		H	H	F	F	H			H		H	F
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HKCEC's Event Move In/Out Date TTA at Expo Drive is required to deck over

Activity ID	Activity Name		Rem Dur	Start	Finish	Total Float	June 2
3MRP - May	/ 2016 to Aug 2016		111	01-Jun-15 A	30-Sep-16	353	22 29 05 12 19 26
	INSTRUCTION WORKS		106	20-Jun-15 A	23-Sep-16	358	
	Statement / Shop Drawings		91	20-Jun-15 A	06-Sep-16	373	
0230-1380	MS Landscape Deck Structure - Submission		11	20-Jun-15 A	31-May-16	371	MS Landscape Deck Structure - Submiss
0230-1390	MS Landscape Deck Structure - ER Review & Comme	ıt	28	31-May-16	28-Jun-16	371	MSL
0230-1400	MS Landscape Deck Structure - Resubmission		28	28-Jun-16	26-Jul-16	371	
0230-1410	MS Landscape Deck Structure - ER Approval		28	26-Jul-16	23-Aug-16	371	
0240-1210	HGHK Permanent Carpark Design - BD Approval		9	21-Mar-16 A	28-May-16	62	HGHK Permanent Carpark Design - BD App
0240-1220	HGHK Permanent Carpark Design- BD Approval Rece	ved	0		28-May-16	62	◆ HGHK Permanent Carpark Design- BD App
0240-1230	HGHK Carpark - Application for BD Consent (BA8)		28	29-May-16	25-Jun-16	62	НӨНКС
0240-1240	HGHK Carpark - BD Consent Received		0	20-May-10	25-Jun-16	62	◆ НGНК (
		A40\		26 km 16	02-Jul-16		
0240-1250	HGHK Carpark - Commencement Notification to BD (B	410)	7	26-Jun-16		62	
0240-1270	Landscaping Design - Submission		25	20-Apr-16 A	14-Jun-16	451	Landscaping Design -
0240-1280	Landscaping Design - ER Review/Resubmission		28	14-Jun-16	12-Jul-16	451	
0240-1290	Landscaping Design - ER Approval		28	12-Jul-16	09-Aug-16	451	
0240-1295	Landscaping Design - Fabrication & Delivery		28	09-Aug-16	06-Sep-16	451	
0240-1298	Green Roof Minimum 2 years Establishment - Start		0	17-Jun-16		65	♦ Green Roof Minim
0240-2460	MS for for trial erection of green roof - Resubmission		14	04-Apr-16 A	02-Jun-16	77	MS for for trial erection of green roof -
0240-2470	MS for for trial erection of green roof - No Adverse Co	nment	15	02-Jun-16	17-Jun-16	77	MS for for trial erec
02.5 - Bridge S	Segment/Beam Off-site Precasting		106	20-May-16	23-Sep-16	58	
0250-3860	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)		19	20-May-16	11-Jun-16	33	Bridge F1B2 - Abut D12 S
0250-3880	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)		40	20-May-16	07-Jul-16	58	
0250-3900	Bridge F1B2 - Pier F2B2 Segment - 11 nos. (S1)		28	15-Jul-16	16-Aug-16	58	
0250-3920	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)		19	20-Jun-16	12-Jul-16	33	
0250-3940	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)		16	20-Jul-16	06-Aug-16	33	
0250-3960	Bridge F2B - Pier F4B Segment - 13 nos. (S1)		32	17-Aug-16	23-Sep-16	58	
0250-3980	Bridge F2B - Pier F5B Segment - 6 nos. (S2)		19	15-Aug-16	05-Sep-16	33	
	° ° (, ,		46	20-May-16	14-Jul-16	20	
· · · · · · · · · · · · · · · · · · ·	N 2 & 2A OF THE WORKS		40	20-May-16	14-Jul-16	20	
	over Tunnel Ch 4855-4932 (APS Footprint) ub-structure & Tunnel		46		14-Jul-16	20	
	Outstanding Works		15	20-May-16	06-Jun-16	0	
0515-3091	EVB Works(Zone 2) - Construction Stair 01		7	20-May-16	27-May-16	8	EVB Works(Zone 2) - Construction Stair 01
0515-3093	EVB Works(Zone 2) -Installation of Sheetpile - G.L > 6-	7/А-В	2	20-May-16	21-May-16	0	EVB Works(Zone 2) -Installation of Sheetpile - G.L >
0515-3094	EVB Works(Zone 2) -Demolition of South D-Wall + Exc	avation - G.L > 6-7/A-B	2	23-May-16	24-May-16	0	EVB Works(Zone 2) -Demolition of South D-Wall
0515-3095	EVB Works(Zone 2) -Mass Concrete + Waterproofing		2	25-May-16	26-May-16	0	EVB Works(Zone 2) -Mass Concrete + Waterp
0515-3096	EVB Works(Zone 2) -Construction Wall and Stair 06 G	L > 6-7/A-B	9	27-May-16	06-Jun-16	0	EVB Works(Zone 2) -Construction
0515-3098					06-Jun-16	0	EVB Works(Zone 4-5 & Zone 2)
0515-3099	Complete EVB Outstanding Works		2	04-Jun-16	06-Jun-16	0	♦ Complete EVB Outstanding Wor
	ection to EVA		46	20-May-16		20	
	g Level of Effort ♦ ♦ Milestone		,			20	· · · · · · · · · · · · · · · · · · ·
	rel of Effort	(Contract H	Y/2009/1	9		
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Carpark	- Applicat	lion for E	3D Conser	и (ваз)		
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Segment	- 6 nos.	(S2)		1		
E	Bridge F1	B2 - Pie	r F1B2 Se	gment -	13 nos. (S1)
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tion Wall :	and Stair	06 G I	> 6-7/A-B			
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Act	vity ID	Activity Name	Rem Dur	Start	Finish	Total Float	2016 June July August		
	0515 2260	EVA WATERRADOCEINO REER. Brook, many apparents by band hald by drawing brook or the outer correct of D wall and EVA		20 May 16	25 May 16		22 29 05 12 19 26 03 10 17 24 31 07 14		
	0515-3360	EVA - WATERPROOFING PREP - Break mass concrete by hand held hydraulic breaker at the outer corner of D-wall and EVA		20-May-16	25-May-16	20	EVA - WATERPROOFING PREP - Break mass concrete by hand held hydraulic breaker at the outer corne		
	0515-3370	EVA - WATERPROOFING PREP - Break mass concrete by hand held hydraulic breaker to expose couplers	5	26-May-16	31-May-16	20	EVA - WATERPROOFING PREP - Break mass concrete by hand held hydraulic breaker to expose of		
	0515-3380	EVA - SLAB CONSTRUCTION - Falsework removal and cleaning	2	01-Jun-16	02-Jun-16	20	EVA - SLAB CONSTRUCTION - Falsework removal and cleaning		
	0515-3390	EVA - SLAB CONSTRUCTION - Install the water proofing system & Testing	2	03-Jun-16	04-Jun-16	20	EVA - SLAB CONSTRUCTION - Install the water proofing system & Testing		
	0515-3400	EVA - SLAB CONSTRUCTION - Core hole and install steel bar	2	06-Jun-16	07-Jun-16	20	EVA - SLAB CONSTRUCTION - Core hole and install steel bar		
	0515-3410	EVA - SLAB CONSTRUCTION - Re-bar fixing	3	08-Jun-16	11-Jun-16	20	EVA - SLAB CONSTRUCTION - Re-bar fixing		
	0515-3420	EVA - SLAB CONSTRUCTION - Erection of formwork	2	13-Jun-16	14-Jun-16	20	EVA - SLAB CONSTRUCTION - Erection of formwork		
	0515-3430	EVA - SLAB CONSTRUCTION - Concreting	1	15-Jun-16	15-Jun-16	20	EVA - SLAB CONSTRUCTION - Concreting		
	0515-3440	EVA - SLAB CONSTRUCTION - Removal of formwork	1	16-Jun-16	16-Jun-16	20	EVA - SLAB CONSTRUCTION - Removal of formwork		
	0515-3450	EVA - WALL & ROOF SLAB CONSTRUCTION - Erection of falsework	4	17-Jun-16	21-Jun-16	20	EVA - WALL & ROOF SLAB CONSTRUCTION - Erection of falsework		
	0515-3460	EVA - WALL & ROOF SLAB CONSTRUCTION - Install the water proofing system	3	22-Jun-16	24-Jun-16	20	EVA - WALL & ROOF SLAB CONSTRUCTION - Install the water pro		
	0515-3470	EVA - WALL & ROOF SLAB CONSTRUCTION - Rebar fixing	4	25-Jun-16	29-Jun-16	20	EVA - WALL & ROOF SLAB CONSTRUCTION - Rebar fixing		
	0515-3480	EVA - WALL & ROOF SLAB CONSTRUCTION - Erection of formwork	3	30-Jun-16	04-Jul-16	20	EVA - WALL & ROOF SLAB CONSTRUCTION - Erection		
	0515-3490	EVA - WALL & ROOF SLAB CONSTRUCTION - Concreting	1	05-Jul-16	05-Jul-16	20	EVA - WALL & ROOF SLAB CONSTRUCTION - Conc		
	0515-3510	EVA - WALL CONSTRUCTION (to 4.2mPD) - Erection of falsework	1	06-Jul-16	06-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2mPD) - Erectio		
	0515-3530	EVA - WALL CONSTRUCTION (to 4.2mPD) - Rebar fixing	1	07-Jul-16	07-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2mPD) - Reba		
	0515-3540	EVA - WALL CONSTRUCTION (to 4.2mPD) - Erection of formwork	1	08-Jul-16	08-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2mPD) - Erec		
	0515-3550	EVA - WALL CONSTRUCTION (to 4.2mPD) - Concreting	1	09-Jul-16	09-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2m		
	0515-3560	EVA - WALL CONSTRUCTION (to 4.2mPD) - Removal of formwork	1	11-Jul-16	11-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2m		
	0515-3570	EVA - WALL CONSTRUCTION (to 4.2mPD) - Install the water proofing system & Testing	2	12-Jul-16	13-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2mPD)		
	0515-3580	EVA - WALL CONSTRUCTION (to 4.2mPD) - Place concrete screeding	1	14-Jul-16	14-Jul-16	20	EVA - WALL CONSTRUCTION (to 4.2)		
	0515-3590	COMPLETE EVA WORKS	0		14-Jul-16*	20	◆ COMPLETE EVA WORKS		
	06 - SECTIO	N 3 OF THE WORKS	24	20-May-16	17-Jun-16	10			
	06.3 - Admin B		24	20-May-16	17-Jun-16	10			
		g - Outstanding Works After Hanover to CC	10	20-May-16					
	0630-2705	Construct Road Pavement Between P31-32 within Porion VB incl sub-base	7	20-May-16	27-May-16	3	Construct Road Pavement Between P31-32 within Porion VB incl sub-base		
	0630-2770	Admin Building - Complete Outstanding Works	0		31-May-16*	0	Admin Building - Complete Outstanding Works		
	Admin Buildin 0630-1880	g - Ground Beams to be Completed after CC Basement (Timing to be Confirmed) Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	24 4	20-May-16 20-May-16	17-Jun-16 24-May-16	10 10	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles		
	0630-1900	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting	5	25-May-16	30-May-16	10	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting		
	0630-1920	Grd. Beam - (GL > P-R) - Install Capping Plate	6	30-May-16	04-Jun-16	10	Grd. Beam - (GL > P-R) - Install Capping Plate		
	0630-1920	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam	7	,	10-Jun-16		Grd. Beam - (GL > P-R) - Rebar Fixing for Beam		
	0630-1940	Grd. Beam - (GL > P-R) - Rebait Fixing for Beam Grd. Beam - (GL > P-R) - Erect Formworks for Beam	4	02-Jun-16	15-Jun-16	10	Grd. Beam - (GL > P-R) - Recal Fixing for Beam		
			4	11-Jun-16		10			
	0630-1980	Grd. Beam - (GL > P-R) - Cast Concrete for Beam	1	16-Jun-16	16-Jun-16	10	Grd. Beam - (GL > P-R) - Cast Concrete for Beam		
	0630-2000	Grd. Beam - (GL > P-R) - Formworks Removal	1	17-Jun-16	17-Jun-16	10	Grd. Beam - (GL > P-R) - Formworks Removal		
	0630-2036	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1st Layer Excav Approx. +2.5mPD	3	20-May-16	23-May-16	11	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1st Layer Excav Approx. +2.5mPD		
	0630-2037	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Install Strut and Waling Support	4	24-May-16	27-May-16	11	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - Install Strut and Waling Support		
	0630-2038	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 2nd Layer Excav to Ground Beam Formation level + blinding	3	28-May-16	31-May-16	11	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 2nd Layer Excav to Ground Beam Formation		
Remaining Level of Effort Milestone Actual Level of Effort Actual Work Actual Work Remaining Work Critical Remaining Work							Page 2 of 9		

tivity ID	Activity Name	Rem		Start	Finish	Total			
			Dur			Float	22 29 05	June 26	
0630-2040	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - F	Prepare CJ + Install Capping Plate	3	01-Jun-16	03-Jun-16	11		er29-30) - West Basement	
0630-2080	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1	Rebar Fixing for Ground Beam	5	02-Jun-16	07-Jun-16	11	AD	B(Pier29-30) - West Başeı	
0630-2100	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1	Erect Formworks for Ground Beam	4	08-Jun-16	13-Jun-16	11		🔲 ADB(Pier29-30) - We	
0630-2120	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 0	Cast Concrete for Ground Beam	1	14-Jun-16	14-Jun-16	11		ADB(Pier29-30) - W	
0630-2140	ADB(Pier29-30) - West Basement (GL > 1-2.0/C-F) - 1		2	15-Jun-16	16-Jun-16	11	-	ADB(Pier29-30) -	
0630-2160	Complete ADB Ground Beam (Portion VD)		0		16-Jun-16	11	-	◆ Complete ADB Gr	
	N 4 & 4A OF THE WORKS		15	12-May-16 A		0			
07 - SECTIO 07.1 EBV Grou			15	12-May-16 A		0			
0710-0900	WaterProofing (N46-64/S48-67) for East Vent Bldg		7	12-May-16 A		0	WaterProofing (1	N46-64/S48-67) for East Ve	
0710-1000	Backfill (N46-64/S48-67) for East Vent Bldg		15	20-May-16	06-Jun-16	0	Bac	kfill (N46-64/S48-67) for Ea	
08 - SECTIO			7	21-Mar-16 A		27		(
	g Wall 'F' Substructure		7	21-Mar-16 A		27			
0820-1010	low wall bet C5-11/12		7	21-Mar-16 A		27	low wall bet C5-1	1/12	
	N 6 OF THE WORKS		48	02-Jul-16	27-Aug-16	53			
	s for Harbour Grand Hong Kong		48	02-Jul-16	27-Aug-16	53			
0910-1003	HGHK Carpark Layout Approved by BD		0	02-301-10	02-Jul-16	53		•	
0910-1007	Carpark Drainage Works (Design by Others)(Partial - F	Portion IVB)	18	04-Jul-16	23-Jul-16	53	-		
0910-1010	Carprk Base Slab Works (Partial - Portion IVB)		18	25-Jul-16	13-Aug-16	53	-		
	, , ,								
0910-1013	Carpark Finishing Works ie; Tiling, Markings & E&M (Pa	rtial - Portion IVB)	12	15-Aug-16	27-Aug-16	53			
	N X OF THE WORKS		111	01-Jun-15 A	30-Sep-16	353			
	ges (Bridge D, E and F)		60	20-May-16	30-Jul-16	404			
Pier F01 to F0	Pier Construction		42	20-May-16 20-May-16	09-Jul-16 09-Jul-16	301 301			
1011-8600	P36/F1B1 Pier/Column Construction		12	20-May-16	02-Jun-16	301	P36/F1B	1 Pier/Column Construction	
1011-8620	P36/F1B1 Crosshead Construction		18	03-Jun-16	24-Jun-16	301		P36/F1E	
1011-8640	Bearing installation pier P36/F1B1 & P37/F2B1		12	25-Jun-16	09-Jul-16	301	-		
1014 - Bridge	E / Hing Fat Slip Road		60	20-May-16	30-Jul-16	404			
Bridge Const			60	20-May-16	30-Jul-16	404			
1014-1480	Construct street furniture on bridge deck at Portion XIIC	;	60	20-May-16	30-Jul-16	404			
	dges (Bridge C and F)		91	07-Apr-16 A	05-Sep-16	21			
	am & Pile Caps Extension		48	,		64			
1021-2300	Pier 26 > Pile Cap Ext Excavation & ELS Works		6	15-Jun-16	21-Jun-16	64	_	Pier 26 > Pi	
1021-2320	Pier 26 > Pile Cap Ext Post Drilling & Rebar Fixing W	orks	11	22-Jun-16	05-Jul-16	64			
1021-2330	Pier 26 > Pile Cap Ext Formworks & Concreting Worl	KS	6	06-Jul-16	12-Jul-16	64			
1021-2340	Pier 26 > Pile Cap Ext Remove Fwk & Backfilling		4	13-Jul-16	16-Jul-16	64			
1021-2350	Pier 26 > Tie Beam - Excavation & ELS Works		6	18-May-16 A	26-May-16	64	Pier 26 > Tie Bear	n - Excavation & ELS Worl	
1021-2360	Pier 26 > Tie Beam Post Drilling & Rebar Fixing Work	S	7	27-May-16	03-Jun-16	64	Pier 26	> Tie Beam Post Drilling	
1021-2370	Pier 26 > Tie Beam Formworks & Concreting Works		4	04-Jun-16	08-Jun-16	64	- P	ier 26 > Tie Beam Formv	
1021-2380	Pier 26 > Tie Beam Remove Fwk & Backfilling		4	10-Jun-16	14-Jun-16	64		Pier 26 > Tie Beam.	
1021-2390	Pier 27 > Tie Beam - Excavation & ELS Works		6		26-May-16	64	Pier 27 > Tie Bear	n - Excavation & ELS Worl	
Remaining	Level of Effort Milestone				•		<u> </u>	<u></u>	
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Actual Wo	rk	Three Months Ro	olling Program	nme (20 l	May to 1	9 Aı	ug 2016)		
Remaining) Work								
Critical Re	maining Work								

2016	-
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(GL > 1-2.0/C-F) - Prepare CJ + Ins	
ment (GL > 1-2.0/C-F) - Rebar Fixin	g for Ground Beam
st Basement (GL > 1-2.0/C-F) - Ere	ct Formworks for Ground
est Basement (GL > 1-2.0/C-F) - Ca	st Concrete for Ground
West Basement (GL > 1-2.0/C-F) -	Formworks Removal
ound Beam (Portion VD)	
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ent Bldg	
ast Vent Bldg	
HGHK Carpark Layout Approved b	by BD
Carpark	Drainage Works (Desig
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31 Crosshead Construction	
Bearing installation pier P3	36/F1B1 & P37/F2B1
	Operational stread furnitur
	Construct street furnitur
le Cap Ext Excavation & ELS Work	; ;s
Pier 26 > Pile Cap Ext Post D	
Pier 26 > Pile Cap Ext	
	p Ext Remove Fwk & I
& Rebar Fixing Works	
vorks & Concreting Works	
- Remove Fwk & Backfilling	·
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Page 3 of 9	

June June 22 29 05 12 19 26 Pier 27 > Tie Beam Post Drilling & Pier 27 > Tie Beam Formwo Pier 27 > Tie Beam Formwo
Pier 27 > Tie Beam Formwo
Pier 27 > Tie Beam F
Pier 42 (F7C) - Remove formwork and prepare cons
Pier 42 (F7C) - Remove formwork and scaffolding
Pier 42 (F7C) - Remove structural steel of false
Pier 42 (F7C) Install Bearing
Pier 43 (F8C) - Fixing Reinforcement for Crosshead B
Pier 43 (F8C) - Installation of case-in items
Pier 43 (F8C) - Fixing Reinforcement for Cross
Pier 43 (F8C) - Installation of tie-bolts
Pier 43 (F8C) - Pouring concrete for cross
Pier 43 (F8C) - Remove formwork and
Pier 43 (F8C) - Remove form
Pier 43 (F8C) - Remove s
Pier 43 (F8C) Install Be
Bridge C1 - Construction (Pier 17 - 21) > Rebar Fi
Bridge C1 - Construction (Pier 17 - 21) > Deck Co
Bridge C1 - Construction (Pier 17 - 21) - Deut Ci
Bridge C1 - Construct South Pa
Bridge C1 - Constru
Bridge C1
Bridge C
Bridge C1 - Construction (Pier 21 - 22
Bridge C1 - Co
Bridge C1 - Co
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2016						
02	July	47 1	04		August	4.4
03 Rebar F	ixing Works		24	31	07	14
	oncreting W			 		
- Remove	Fwk & Bac	kfilling		1 1 1 1		
nstruction	joint			 		
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ework						
Bottom La	ayer			 		
sshead U	pper Layer					
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nd prepare	e constructio	on joint		, , , ,		
mwork and	d scaffolding	-		1 1 1		
	steel of fals			, , , ,		
Bearing		, en en en				
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Fixing of D	eck + Diapł	nragm		1 1 1		
Concreting	9					
- 21) > Br	idge Deck \	Ving Ex	tension	1 1 1 1		
Parapet Pi	er 17-21 W	/B - Pre	cast Ski	n Wall I	nstallatior	
ruct South	n Parapet Pi	er 17-2	1 W/B -	Rebar	& Cast-in	Fixing
C1 - Const	ruct South I	Parapet	: Pier 17	-21 W/E	3 - Shutte	r Install
C1 - Con	struct South	Parape	et Pier 1	7-21 W	/B - Conc	reting
Bri	dge C1 - Co	onstruct	Int. Sin	gle Nois	e Encl. (S	South) F
	Bridge C	C1 - Co	nstruct I	nt. Singl	le Noise E	ncl. (So
		Bridge	C1 - Co	onstruct	Int. Single	e Noise
Bri	dge C1 - Co	onstruct	Int. Sin	gle Nois	e Encl. (N	orth &
	•			- -	le Noise E	
	Ū			÷	Int. Single	
22) > Wing	g Extension					
Constructio	on (Pier 21-	22) > C	Construc	t Parap	et (North	& Sout
Constructio	on (Pier 21-:	22) > In	stall Stre	et Furr	niture/Gul	lyEtc.
dge C1 - C	Construction	ı (Pier 2	21-22) >	Install N	/J at Pier	22
ridge C1 -	Construct I	nt. Sing	le Noise	End. (I	North & S	outh) P
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Activity ID	Activity Name		Rem Dur	Start	Finish	Total Float	2016 June July
1022-2763.1	Bridge C1 - Construct Int. Single Noise Encl. (North & S	South) Pier 21-22 - Main Frames	8	30-Jun-16	09-Jul-16	42	22 29 05 12 19 26 03 10 17 24
	2 Bridge C1 - Construct Int. Single Noise Encl. (North &		9	11-Jul-16	20-Jul-16	42	Bridge 0
Bridge C2			85			26	
1022-2822	Bridge C2 - Stitching at midspan between Pier 24 and 2	25	1	17-May-16 A		26	Bridge C2 - Stitching at midspan between Pier 24 and 25
1022-2824	Launch LG2 at Pier 23 to 22		2	21-May-16	23-May-16	26	Launch LG2 at Pier 23 to 22
1022-2826	Bridge C2 - Erect T-span at Pier 23 (12 nos) > By LG2		3	24-May-16	26-May-16	26	Bridge C2 - Erect T-span at Pier 23 (12 nos) > By LG2
1022-2828	Bridge C2 - Erect End-span at Pier 22 (4 nos) > By LG	2	7	24-May-16	31-May-16	26	Bridge C2 - Erect End-span at Pier 22 (4 nos) > By LG2
1022-2829	Dismantle LG2 at Bridge C2		15	01-Jun-16	18-Jun-16	26	Dismantle LG2 at Bridge C2
1022-2920	Bridge C2 - Stitching at midspan between Pier 23 and 2	24	3	27-May-16	30-May-16	35	Bridge C2 - Stitching at midspan between Pier 23 and 24
1022-2980	Bridge C2 - Stitching at midspan between Pier 22 and	23	3	01-Jun-16	03-Jun-16	31	Bridge C2 - Stitching at midspan between Pier 22 and 23
1022-3020	Bridge C2 - External Stressing		7	04-Jun-16	13-Jun-16	31	Bridge C2 - External Stressing
1022-3040	Bridge C2 - Construct North Parapet - Precast Skin W	all Installation	6	20-Jun-16	25-Jun-16	26	Bridge C2 - Construct North Parapet -
1022-3040.2	2 Bridge C2 - Construct North Parapet - Rebar & Cast-i	n Fixing	6	27-Jun-16	04-Jul-16	26	Bridge C2 - Construct North
1022-3040.4	Bridge C2 - Construct North Parapet - Shutter Installa	tion	5	05-Jul-16	09-Jul-16	26	Bridge C2 - Construct
1022-3040.6	Bridge C2 - Construct North Parapet - Concreting		6	05-Jul-16	11-Jul-16	26	Bridge C2 - Constru
1022-3180	Bridge C2 - Construct South Parapet - Precast Skin W	all Installation	6	20-Jun-16	25-Jun-16	26	Bridge C2 - Construct South Parapet - F
1022-3180.2	2 Bridge C2 - Construct South Parapet - Rebar & Cast-	n Fixing	6	27-Jun-16	04-Jul-16	26	Bridge C2 - Construct South
1022-3180.4	Bridge C2 - Construct South Parapet - Shutter Installa	tion	5	05-Jul-16	09-Jul-16	26	Bridge C2 - Construct
1022-3180.6	6 Bridge C2 - Construct South Parapet - Concreting		6	05-Jul-16	11-Jul-16	26	Bridge C2 - Constru
1022-4120	Bridge C2 - Construct Int. Single Noise Encl. Bridge C2	- Excl. Pier 21-22 - Base Plate & Main Post	8	12-Jul-16	20-Jul-16	26	Bridge C
1022-4120.1	1 Bridge C2 - Construct Int. Single Noise Encl. Bridge C2	- Excl. Pier 21-22 - Main Frames	8	21-Jul-16	29-Jul-16	26	
1022-4120.2	2 Bridge C2 - Construct Int. Single Noise Encl. Bridge C2	- Excl. Pier 21-22 - Secondary Farmes & Panels	8	30-Jul-16	08-Aug-16	26	
1022-4140	Bridge C2 + C1 Deck Road Waterproofing, Surfacing &	s Marking	18	09-Aug-16	29-Aug-16	26	
Bridge C3			64	0		47	
1022-2760	Bridge C3 - Construct North Parapet - Precast Skin Wa	all Installation	9		30-May-16		Bridge C3 - Construct North Parapet - Precast Skin Wall Installation
1022-2760.2	2 Bridge C3 - Construct North Parapet - Rebar & Cast-ir	n Fixing	6	31-May-16	06-Jun-16	29	Bridge C3 - Construct North Parapet - Rebar & Cast-in Fixing
1022-2760.4	Bridge C3 - Construct North Parapet - Shutter Installat	ion	6	07-Jun-16	14-Jun-16	29	Bridge C3 - Construct North Parapet - Shutter Installa
1022-2760.6	Bridge C3 - Construct North Parapet - Concreting		7	07-Jun-16	15-Jun-16	29	Bridge C3 - Construct North Parapet - Concreting
1022-2780	Bridge C3 - Construct South Parapet - Precast Skin W	all Installation	9	20-May-16	30-May-16	47	Bridge C3 - Construct South Parapet - Precast Skin Wall Installation
1022-2780.2	2 Bridge C3 - Construct South Parapet - Rebar & Cast-in	n Fixing	6	31-May-16	06-Jun-16	47	Bridge C3 - Construct South Parapet - Rebar & Cast-in Fixing
1022-2780.4	Bridge C3 - Construct South Parapet - Shutter Installat	ion	6	07-Jun-16	14-Jun-16	47	Bridge C3 - Construct South Parapet - Shutter Installa
1022-2780.6	Bridge C3 - Construct South Parapet - Concreting		7	07-Jun-16	15-Jun-16	47	Bridge C3 - Construct South Parapet - Concreting
1022-4110	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3	- Base Plate & Main Post	8	16-Jun-16	24-Jun-16	47	Bridge C3 - Construct Int. Single Noise E
1022-4110.1	Bridge C3 - Construct Int. Single Noise Encl. Bridge C3	- Main Frames	8	25-Jun-16	05-Jul-16	47	Bridge C3 - Construct Int. S
1022-4110.2	 Bridge C3 - Construct Int. Single Noise Encl. Bridge C3 	- Secondary Farmes & Panels	8	06-Jul-16	14-Jul-16	47	Bridge C3 - Co
1022-4111	Bridge C3 - Deck Road Waterproofing, Surfacing & Ma	arking	18	15-Jul-16	04-Aug-16	47	
Bridge C4			31	07-May-16 A	25-Jun-16	80	
1022-1552.2	2 Bridge C4 - Construct South Parapet - Shutter Installat	ion	1	07-May-16 A	20-May-16	80	Bridge C4 - Construct South Parapet - Shutter Installation
Remainin	ng Level of Effort Milestone	<u> </u>	ontract H	V/2000/4	0		
	evel of Effort				-	م .	Page 5 of 9
Actual Wo		Three Months Rolling	j Program	ine (20 l	way to 1	9 Al	iy 2010)
	lemaining Work						
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		2016				_		
10	26	02	Ju 10	ly I 17	24	21	August	14
19	26	03			24	31 Single	Noise End	
			_ Druge					-
				B	ridge C1 -	Constr	ruct Int. Sir	ngle Noi
tween Pi	er 24 þ	and 25						
Dia 00 (10							
: Pier 23 (12 nos	s) > By LG	2					
d-span at	Pier 2	2 (4 nos)	> By LG2					
Disman	tle LG	2 at Bridge	e C2					
t midspar	n betwe	een Pier 2	3 and 24			1		
ning at mid	dspan	between F	² ier 22 an	d 23		- - - -		
ae C2 - E	xternal	l Stressing	1					
		•		orth Dora	not Pro		in Wall Ins	stallation
	Driug							
		Bric	lge C2 - C	Construct	North Pa	rapet -	Rebar &	Cast-in
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			Bride	ge C2 - (Construct I	North P	Parapet - (Concret
	Bridg	e C2 - Co	onstruct So	outh Para	apet - Pre	cast Ski	in Wall Ins	tallation
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North Pa	rapet -	Precast S	Skin Wall I	Installatio	n	-		
onstruct	North I	Parapet -	Rebar & (Cast-in Fi	ixing	 		
		uct North			•	1		
-	i.	truct North				- - -		
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		- Precast S						
	!	Parapet -				¦		
dge C3 -	Constr	uct South	Parapet -	Shutter	Installation	Ϋ́		
idge C3 -	- Const	truct Soutl	n Parapet	- Concre	eting			
	Bridge	: C3 - Con	struct Int.	Single N	oise Encl.	Bridge	C3 - Base	Plate 8
	1 1	Br	idge C3 -	Construe	ct Int. Sing	le Nois	e Encl. Bri	dge C3
			H	Bridge C	3 - Constr	uct Int.	Single Noi	ise End
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Activity ID	Activity Name	Rem		Start	Finish	Total			
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1022-1552.3	Bridge C4 - Construct South Parapet - Concreting		2	13-May-16 A	23-May-16	80	Bridge C4 - Construct South Parapet - Concreting		
1022-1558	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4	- Base Plate & Main Post	8	24-May-16	01-Jun-16	80	Bridge C4 - Construct Int. Single Noise		
1022-1558.1	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4	- Main Frames	8	31-May-16	08-Jun-16	80	Bridge C4 - Construct Int. Sing		
1022-1558.2	Bridge C4 - Construct Int. Single Noise Encl. Bridge C4	- Secondary Farmes & Panels	8	08-Jun-16	17-Jun-16	80	Bridge C4 - Constr		
1022-1564	Bridge C4 - Deck Road Waterproofing, Surfacing & Ma	irking	7	18-Jun-16	25-Jun-16	80	Bridge C		
Bridge C5 1022-3942.1	Bridge C5 - Construct South Parapet - Precast Skin Wa	all Installation	49 6	12-May-16 A 12-May-16 A	18-Jul-16 26-May-16	62 5	Bridge C5 - Construct South Parapet - Precast		
1022-3942.2	Bridge C5 - Construct South Parapet - Rebar & Cast-ir		7	27-May-16	03-Jun-16	5	Bridge C5 - Construct South Parapet		
	Bridge C5 - Construct South Parapet - Shutter Installat	-	7	04-Jun-16	13-Jun-16	5	Bridge C5 - Construct S		
	Bridge C5 - Construct South Parapet - Concreting		8	04-Jun-16	14-Jun-16	5	Bridge C5 - Construct		
	Bridge C5 - Construct North Parapet - Precast Skin Wa	all Installation	6	12-May-16 A	26-May-16	5	Bridge C5 - Construct North Parapet - Precast		
	Bridge C5 - Construct North Parapet - Rebar & Cast-in		7	27-May-16	03-Jun-16	5	Bridge C5 - Construct North Parapet		
1022-3942.7		-	7	04-Jun-16	13-Jun-16	5	Bridge C5 - Construct N		
	Bridge C5 - Construct North Parapet - Concreting		0	04-Jun-16	14-Jun-16	5	Bridge C5 - Construct		
1022-3953	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5		8	15-Jun-16	23-Jun-16	5	Bridge C5 -		
1022-3953.1			8	22-Jun-16	30-Jun-16	62	Br		
1022-3953.2	Bridge C5 - Construct Int. Single Noise Encl. Bridge C5	- Secondary Farmes & Panels	8	30-Jun-16	09-Jul-16	62			
1022-3954	Bridge C5 - Deck Road Waterproofing, Surfacing & Ma	rking	7	11-Jul-16	18-Jul-16	62			
Bridge F1C 1022.1-4245	Bridge F1C - Construct South Parapet - Precast Skin V	Vall Installation	59 14	27-May-16 27-May-16	05-Aug-16 13-Jun-16	46 32	Bridge F1C - Construct		
1022.1-4245	1Bridge F1C - Construct South Parapet - Rebar & Cast-	in Fixing	12	11-Jun-16	24-Jun-16	46	Bridge F1		
1022.1-4245.	2 Bridge F1C - Construct South Parapet - Shutter Installa	ation	7	24-Jun-16	02-Jul-16	46			
1022.1-4245.	S Bridge F1C - Construct South Parapet - Concreting		8	24-Jun-16	04-Jul-16	46			
1022.1-4247	Bridge F1C - Construct Int. Double Noise Encl. Bridge	F1C - Base Plate & Main Post	8	05-Jul-16	13-Jul-16	46			
1022.1-4248	Bridge F1C - Construct Int. Double Noise Encl. Bridge	F1C - Main Frames	8	12-Jul-16	20-Jul-16	46			
1022.1-4249	Bridge F1C - Construct Int. Double Noise Encl. Bridge	F1C - Secondary Farmes & Panels	8	20-Jul-16	28-Jul-16	46			
	Bridge F1C - Bridge F1C Deck Road Waterproofing, S		7	29-Jul-16	05-Aug-16	46			
Bridge F2C			81	20-May-16	24-Aug-16	30			
	Pier 38(MJ Right) - End Span Erection - Hanging Segr	nents	2	20-May-16	21-May-16	0	Pier 38(MJ Right) - End Span Erection - Hanging Se		
1022.1-4321	Pier 38(MJ Right) - End Span Erection		1	23-May-16	23-May-16	0	Pier 38(MJ Right) - End Span Erection		
1022.1-4324	Pier 38(MJ Right) - End Span Erection - Stitching		3	24-May-16	26-May-16	0	Pier 38(MJ Right) - End Span Erection - Stitch		
1022.1-4327	Pier 38(MJ Right) - End Span Erection - Formwork Fix	ing for and Grouting for Bearing	3	24-May-16	26-May-16	32	Pier 38(MJ Right) - End Span Erection - Form		
1022.1-4330	Pier 38(MJ Right) - End Span Erection - Prestress Spa	an Tendons	1	27-May-16	27-May-16	32	Pier 38(MJ Right) - End Span Erection - Pres		
1022.1-4333	Pier 38(MJ Right) - End Span Erection - Remove Han	ger Bar & Hanger Beam & Stitching Formwork	1	28-May-16	28-May-16	32	Pier 38(MJ Right) - End Span Erection - Re		
	Pier 40(MJ Left) - End Span Erection - Hanging Segm		2	24-May-16	25-May-16	4	Pier 40(MJ Left) - End Span Erection - Hanging		
	Pier 40(MJ Left) - End Span Erection - Erect Segment		1	26-May-16	26-May-16	4	Pier 40(MJ Left) - End Span Erection - Erect S		
	Pier 40(MJ Left) - End Span Erection - Stitching	-	3	27-May-16	30-May-16	4	Pier 40(MJ Left) - End Span Erection - St		
	Pier 40(MJ Left) - End Span Erection - Formwork Fixir	ng for and Grouting for Bearing	3	27-May-16	30-May-16	4	Pier 40(MJ Left) - End Span Erection - Fo		
Remaining	g Level of Effort Milestone				•				
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e Encl. Br	idge C4 - E	Base Pla	ite & Mai	n Post		
ngle Noise	e Encl. Bride	ge C4 -	Main Fra	ames		
struct Int.	Single Nois	e End. I	Bridge C	4 - Sec	ondary Fa	irmes 8
C4 - Decl	k Road Wa	terproof	fing, Suri	facing 8	Marking	
st Skin W	all Installatio	on 				
et - Reba	r & Cast-in	Fixing		, , ,		
South Pa	rapet - Shu	utter Inst	tallation			
ct South P	arapet - Co	oncreting	g			
st Skin Wa	all Installatio	on		 		
et - Reba	r & Cast-in	Fixing		 		
North Pa	rapet - Shu	itter Inst	allation			
t North P	arapet - Co	oncreting	g			
5 - Constr	uct Int. Sing	gle Nois	e Encl. B	ridge C	5 - Base I	Plate &
Bridge C5	- Construc	t Int. Sir	ngle Nois	e Encl.	Bridge C5	5 - Mair
	Bridge C5	i - Cons	truct Int.	Single	Noise Enc	l. Bridg
		Bridge	e C5 - De	ck Roa	d Waterp	roofing
ct South P	arapet - Pr	recast S	kin Wall	Installat	ion	
1C - Con	struct Sout	h Parap	et - Reb	ar & Ca	ist-in Fixin	g
Bridge F	=1C - Cons	struct Sc	outh Para	pet - S	hutter Inst	allation
Bridg	e F1C - Co	onstruct	South Pa	arapet -	Concreti	ng
	Bridg	je F1C	- Constru	ict Int. I	Double No	oise Eno
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Segments				1 1 1		
ching						
mwork Fi	king for and	l Groutir	ng for Be	aring		
estress Sp	oan Tendor	IS		 		
Remove H	anger Bar	& Hang	er Beam	& Stitch	ning Form	work
ng Segme	nts			1 1 1		
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Stitching				1		
Formwork	Fixing for	and Gro	outing for	Bearir	ıg	
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Activ	ty ID Activity Name Finish Total		2016					
				Dur			Float	June July August 22 29 05 12 19 26 03 10 17 24 31 07 14
	1022.1-4348	Pier 40(MJ Left) - End Span Erection - Prestress Span	Tendons	1	31-May-16	31-May-16	4	Pier 40(MJ Left) - End Span Erection - Prestress Span Tendons
	1022.1-4351	Pier 40(MJ Left) - End Span Erection - Remove Hange	er Bar & Hanger Beam & Stitching Formwork	1	01-Jun-16	01-Jun-16	4	Pier 40(MJ Left) - End Span Erection - Remove Hanger Bar & Hanger Beam & Stitching Formwor
	1022.1-4354	LG-A Launching - Deactivate the MS at F3C/Pier37 ar	d Engage FL at F6C/Pier41	1	27-May-16	27-May-16	0	LG-ALaunching - Deactivate the MS at F3C/Pier37 and Engage FL at F6C/Pier41
	1022.1-4355	Prestress Extenral Tendon of Bridge F2C/Pier36		12	01-Jun-16	15-Jun-16	30	Prestress Extenral Tendon of Bridge F2C/Pier36
	1022.1-4356	Bridge F2C - Construct South Parapet - Precast Skin V	/all Installation	14	16-Jun-16	02-Jul-16	30	Bridge F2C - Construct South Parapet - Precast Skin Wall
	1022.1-4357	Bridge F2C - Construct South Parapet - Rebar & Cast-	in Fixing	12	30-Jun-16	14-Jul-16	30	Bridge F2C - Construct South Parapet - Re
	1022.1-4358	Bridge F2C - Construct South Parapet - Shutter Installa	tion	7	14-Jul-16	21-Jul-16	30	Bridge F2C - Construct South Para
	1022.1-4359	Bridge F2C - Construct South Parapet - Concreting		8	14-Jul-16	22-Jul-16	30	Bridge F2C - Construct South Par
	1022.1-4363.	Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Base Plate & Main Post	8	23-Jul-16	01-Aug-16	30	Bridge F2C - Constru
	1022.1-4363.	2 Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Main Frames	8	30-Jul-16	08-Aug-16	30	Bridge F2C
	1022.1-4363.	3 Bridge F2C - Construct Int. Double Noise Encl. (54m) -	Secondary Farmes & Panels	8	08-Aug-16	16-Aug-16	30	Br
	1022.1-4369	Bridge F2C - Deck Road Waterproofing, Surfacing & M	arking	7	17-Aug-16	24-Aug-16	30	
	Bridge F3C			84	28-May-16	05-Sep-16	14	
	1022.1-4370	Pier 41 - Install Pier Segment - Place Pier Segment		1	28-May-16	28-May-16	0	Pier 41 - Install Pier Segment - Place Pier Segment
	1022.1-4375	Pier 41 - Install Pier Segment - Adjust Segment Level a	Ind Location	2	30-May-16	31-May-16	0	Pier 41 - Install Pier Segment - Adjust Segment Level and Location
	1022.1-4380	Pier 41 - Install Pier Segment - Grouting the Bearing L	pper Plinth	3	01-Jun-16	03-Jun-16	0	Pier 41 - Install Pier Segment - Grouting the Bearing Upper Plinth
	1022.1-4385 Pier 41 - Install Pier Segment - Stressing Nailing		1	04-Jun-16	04-Jun-16	0	Pier 41 - Install Pier Segment - Stressing Nailing	
	1022.1-4390 Pier 41 - Install Pier Segment - Install MS at F6C/Pier41		1	06-Jun-16	06-Jun-16	0	Pier 41 - Install Pier Segment - Install MS at F6C/Pier41	
	1022.1-4395	1022.1-4395 LG-A Launching - Shift the MS from F5C/Pier40 Left to Right		1	07-Jun-16	07-Jun-16	0	LG-ALaunching - Shift the MS from F5C/Pier40 Left to Right
	1022.1-4400	1022.1-4400 LG-A Launching - Deactivate the MS at F4C/Pier39 and Engage FL at F7C/Pier42		3	08-Jun-16	11-Jun-16	0	LG-A Launching - Deactivate the MS at F4C/Pier39 and Engage FL at F7C/Pier42
	1022.1-4405	1022.1-4405 Pier 42 - Install Pier Segment - Place Pier Segment		1	13-Jun-16	13-Jun-16	0	Pier 42 - Install Pier Segment - Place Pier Segment
	1022.1-4410	Pier 42 - Install Pier Segment - Adjust Segment Level a	Ind Location	2	14-Jun-16	15-Jun-16	3	Pier 42 - Install Pier Segment - Adjust Segment Level and Location
	1022.1-4415	Pier 42 - Install Pier Segment - Grouting the Bearing L	pper Plinth	4	16-Jun-16	20-Jun-16	3	Pier 42 - Install Pier Segment - Grouting the Bearing Upper Plinth
	1022.1-4420	Pier 42 - Install Pier Segment - Stressing Nailing		1	21-Jun-16	21-Jun-16	3	Pier 42 - Install Pier Segment - Stressing Nailing
	1022.1-4425	Pier 42 - Install Pier Segment - Install MS at F7C/Pier4	2	1	22-Jun-16	22-Jun-16	3	Pier 42 - Install Pier Segment - Install MS at F7C/Pier42
	1022.1-4430	Pier 41 - T Span Erection (6 pairs)		3	14-Jun-16	16-Jun-16	0	Pier 41 - T Span Erection (6 pairs)
	1022.1-4435	Pier 40(MJ Right) - End Span Erection - Hanging Segr	nents	2	17-Jun-16	18-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Hanging Segments
	1022.1-4440	Pier 40(MJ Right) - End Span Erection - Erect Segmer	its	1	20-Jun-16	20-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Erect Segments
	1022.1-4445	Pier 40(MJ Right) - End Span Erection - Stitching		3	21-Jun-16	23-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Stitching
	1022.1-4450	Pier 40(MJ Right) - End Span Erection - Formwork Fix	ing for and Grouting for Bearing	3	21-Jun-16	23-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Formwork Fixing for and Gro
	1022.1-4455	Pier 40(MJ Right) - End Span Erection - Prestress Spa	n Tendons	1	24-Jun-16	24-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Prestress Span Tendons
	1022.1-4460	Pier 40(MJ Right) - End Span Erection - Remove Han	ger Bar & Hanger Beam & Stitching Formwork	1	25-Jun-16	25-Jun-16	0	Pier 40(MJ Right) - End Span Erection - Remove Hanger Bar & Ha
	1022.1-4465	LG-A Launching - Deactivate the MS at F5C/Pier40 ar	d Engage FL at F8C/Pier43 Right	2	27-Jun-16	28-Jun-16	0	LG-ALaunching - Deactivate the MS at F5C/Pier40 and Engage
	1022.1-4466	022.1-4466 Pier 43 - Install Pier Segment - Place Pier Segment		1	29-Jun-16	29-Jun-16	0	Pier 43 - Install Pier Segment - Place Pier Segment
	1022.1-4467 Pier 43 - Install Pier Segment - Adjust Segment Level and Location		2	30-Jun-16	02-Jul-16	0	Pier 43 - Install Pier Segment - Adjust Segment Level and	
	1022.1-4468 Pier 43 - Install Pier Segment - Grouting the Bearing Upper Plinth		4	04-Jul-16	07-Jul-16	0	Pier 43 - Install Pier Segment - Grouting the Bearing	
	1022.1-4469	Pier 43 - Install Pier Segment - Stressing Nailing		1	08-Jul-16	08-Jul-16	0	Pier 43 - Install Pier Segment - Stressing Nailing
	-	g Level of Effort Milestone	Contra	ct H'	Y/2009/1	9		
	Actual Lev	vel of Effort ork	Three Months Rolling Prog	Iram	me (20 l	May to 1	9 A u	Page 7 of 9
Remaining Work								
	Critical Re	emaining Work						

A	ivity ID	Activity Name		Rem	Start	Finish	Total		2016
				Dur			Float	June 22 29 05 12 19 2	July August 6 03 10 17 24 31 07 14
	1022.1-4470	Pier 43 - Install Pier Segment - Install MS at F8C/Pier4	3	1	09-Jul-16	09-Jul-16	0		Pier 43 - Install Pier Segment - Install MS at F8C/
	1022.1-4481	Pier 42 - T Span Erection (5 pairs)		3	29-Jun-16	02-Jul-16	5		Pier 42 - T Span Erection (5 pairs)
	1022.1-4482	Bridge F6-F7 T Span Stitching - Install Clamping Beam	and Adjust T span (F6-F7)	1	04-Jul-16	04-Jul-16	5		I Bridge F6-F7 T Span Stitching - Install Clamping Beam a
	1022.1-4483	Bridge F6-F7 T Span Stitching - Stitching (F6-F7)		2	05-Jul-16	06-Jul-16	5		Bridge F6-F7 T Span Stitching - Stitching (F6-F7)
	1022.1-4484	Bridge F6-F7 T Span Stitching - Prestress Span Tendo	ns (F6-F7)	1	07-Jul-16	07-Jul-16	5		Bridge F6-F7 T Span Stitching - Prestress Span Ten
	1022.1-4485	Pier 43(MJ Left) - End Span Erection - Hanging Segm	ents	2	11-Jul-16	12-Jul-16	0		Pier 43(MJ Left) - End Span Erection - Hangir
	1022.1-4486	Pier 43(MJ Left) - End Span Erection - Erect Segment	S	1	13-Jul-16	13-Jul-16	0		Pier 43(MJ Left) - End Span Erection - Erect
	1022.1-4487	Pier 43(MJ Left) - End Span Erection - Stitching		3	14-Jul-16	16-Jul-16	0		Pier 43(MJ Left) - End Span Erection - S
	1022.1-4488	Pier 43(MJ Left) - End Span Erection - Formwork Fixir	g for and Grouting for Bearing	3	14-Jul-16	16-Jul-16	5		Pier 43(MJ Left) - End Span Erection - F
	1022.1-4489	Pier 43(MJ Left) - End Span Erection - Prestress Spar	Tendons	1	18-Jul-16	18-Jul-16	5		Pier 43(MJ Left) - End Span Erection -
	1022.1-4490	Pier 43(MJ Left) - End Span Erection - Remove Hang	er Bar & Hanger Beam & Stitching Formwork	1	19-Jul-16	19-Jul-16	5		Pier 43(MJ Left) - End Span Erection
	1022.1-4520	Prestress Extenral Tendon Bridge F3C		10	14-Jul-16	25-Jul-16	0		Prestress Extenral Tendon Bri
	1022.1-4525	Bridge F3C - Construct South Parapet (83m)		15	26-Jul-16	11-Aug-16	14		Bridge F
	1022.1-4530	Bridge F3C - Construct Int. Double Noise Encl. Bridge	-3C (83m)	21	12-Aug-16	05-Sep-16	14		
	Bridge F5			35	20-Jul-16	29-Aug-16	0		
		LG-A Launching - Deactivate the MS at F6C		1	20-Jul-16	20-Jul-16	8		I LG-ALaunching - Deactivate the M
	1022.1-4545	LG-A Launching - Install the LGA-MS-Modified at F9		1	21-Jul-16	21-Jul-16	8		LG-A Launching - Install the LGA-I
	1022.1-4550	LG-A Launching - Replace the MS at F8 to LGA-M MS	;	1	22-Jul-16	22-Jul-16	8		LG-A Launching - Replace the M
	1022.1-4555	LG-A Launching - Deactivate the MS at F7C		1	23-Jul-16	23-Jul-16	8		LG-A Launching - Deactivate the second se
	1022.1-5000	Bridge F5 - Upstand Wall & Bearing Installation at Pier	43 after Tendon Stressing of F3C	7	26-Jul-16	02-Aug-16	0		Bridge F5 - Upstanc
	1022.1-5005	Bridge F5 - W/B precast beams at Pier 43 to 44 (6 nos)	6	03-Aug-16	09-Aug-16	0		Bridge F5 -
	1022.1-5010	Dismantle LG1		15	10-Aug-16	26-Aug-16	0		
	1022.1-5015	Bridge F5 - W/B Construct R.C. Deck		15	12-Aug-16	29-Aug-16	0		
	10.6 - Tunnel A	Approach Ramp			01-Jun-15 A	-	177		
		ach Ramp (Excluding Portion IIB)			01-Jun-15 A				
	Bored Piles 1061-1120	Bored Piles Testing Approach Ramp (112 nos)			01-Jun-15 A 01-Jun-15 A		203 203		Bored Piles Testing Approach Ra
	Excavation &			80	21-Mar-16 A		30		
		Sheet Piling Works (WF1>S1:50m@1.5m/d)			11-Apr-16 A		30	Sheet Pili	ng Works (WF1>S1:50m@1.5m/d)
	1061-4900.2	Sheet Piling Works (WF1->S2:37m@1.5m/d)		25	20-Jun-16	20-Jul-16	30		Sheet Piling Works (WF1->S2:37m@
	1061-4900.3	Sheet Piling Works (WF2->S3:25m@1.5m/d)		17	11-Apr-16 A	08-Jun-16	36	Sheet Piling Works (WF	2->S3:25m@1.5m/d)
	1061-4900.4	Sheet Piling Works (WF2->S4:23m@1.5m/d)		5	25-Apr-16 A	26-May-16	36	Sheet Piling Works (WF2->S4:23m@1.5	m/d)
	1061-4900.5	Sheet Piling Works (WF2->S5:51m@1.5m/d)		34	26-May-16	07-Jul-16	40		Sheet Piling Works (WF2->\$5:51m@1.5m/d)
	1061-4900.6	Predrilling Works (WF3>B2:25m@1.22m/d)		20	26-May-16	20-Jun-16	36	Predrilling	g Works (WF3>B2:25m@1.22m/d)
	1061-4900.7	Predrilling Works (WF3>B3:19m@1.22m/d)		16	20-Jun-16	09-Jul-16	56		Predrilling Works (WF3>B3:19m@1.22m/d)
	1061-4900.8	Predrilling Works (WF4>B1:46m@1.22m/d)		38	26-May-16	12-Jul-16	36		Predrilling Works (WF4>B1:46m@1.22m/d)
	1061-4900.9	Sheet Piling Works (WF1>B2:25m@1.5m/d)		17	20-Jul-16	09-Aug-16	30		Sheet Piling
	1061-4901.1	Sheet Piling Works (WF2>B1:46m@1.5m/d)		31	12-Jul-16	17-Aug-16	36		s
	Remaining	g Level of Effort Milestone	C ==1==		V/2000/4	0			
	Actual Lev	el of Effort			Y/2009/1		• •	2242)	Page 8 of 9
	Actual Wo		Three Months Rolling Prog	gram	nme (20	way to 1	9 Au	ig 2016)	
	Remaining	-							
	Critical Re	emaining Work							

Activity ID	Activity Name	Rem	Start	Finish	Total						2016	5		
		Dur			Float				June			July		August
						22	29	05	12	19 26	0	3 10 17 24	31	07 14
1061-4901.2	Sheet Piling Works (WF1>B2:19m@1.5m/d)	13	09-Aug-16	24-Aug-16	30				-	•				
1061-4940	Instrumentation > Inclinometer (2Nos)	7	07-Jun-16	15-Jun-16	53				Instru	imentation >	> Inclino	ometer (2Nos)		
1061-4960	Instrumentation > Settlement Marker (14Nos)	3	16-Jun-16	18-Jun-16	60				💻 Ir	istrumentati	tion > Se	ettlement Marker (14Nos)		
1061-4980	Instrumentation > Tiltmeter (14Nos)	3	20-Jun-16	22-Jun-16	60					Instrume	entation	n > Tiltmeter (14Nos)		
1061-5000	Instrumentation > Movement Marker (14Nos)	3	23-Jun-16	25-Jun-16	60					🔲 Instr	rumenta	ation > Movement Marker (1	4Nos)	
1061-5020	Instrumentation > Pizometer/Standpipe (4Nos)	8	27-Jun-16	06-Jul-16	60						; ;	Instrumentation > Pizome	ter/Standpipe	e (4Nos)
1061-5040	Dewatering System > Recharge Well (8Nos)	10	16-Jun-16	27-Jun-16	53					D	ewateri	ing System > Recharge Wel	(8Nos)	
1061-5060	Dewatering System > Dewatering Well (14Nos)	14	28-Jun-16	14-Jul-16	53						:	Dewatering Sys	tem > Dewat	ering Well (14
1061-5080	Dewatering System > Observation Well (10Nos)	11	15-Jul-16	27-Jul-16	53								Dewatering	System > Obse
1061-5130	Ch 5234 - 5331 > Advance Excav to Lower down Level to make enough HR (Ch 5285 - 5331 w/ open cut)	22	21-Mar-16 A	15-Jun-16	33		<u>+</u> !		Ch 5	234 - 5331 >	≯Advan	nce Excav to Lower down Le	vel to make o	enough HR (Cl
10.7 - Section	X - Miscellaneous Works	120	02-Jun-16	30-Sep-16	1									
10.7.1 - TTM S	itages	120	02-Jun-16	30-Sep-16	1						1		1	
1071-1300	TTM Stage 6 - TMLG Consultation and Endorsement	120	02-Jun-16	30-Sep-16	1									
					-		·				·		·	

 Remaining Level of Effort Actual Level of Effort Actual Work Remaining Work Critical Remaining Work 	Contract HY/2009/19 Three Months Rolling Programme (20 May to 19 Aug 2016)	
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Page 9 of 9

				CMR-	MU67 Programme	Layout											28-	Apr-16 1
ity ID	Activity Name	Physical %	Original	Start	Finish	T	otal						2016	_	_			
IV/2000/45	- Works Programme Update 20 April 2016	Complete	Duration			F	loat	Jan Fei	o Mar	Ap	r May		Jul	Aug	Sep	Oct	Nov	D
											-		1					
	Section Completion	Charles .																
KD_5745	KD10 - Completion of Section 5, (1863d)	100%	Od		25-Mar-16	4			4	KD10	Completion	of Section	5, (1863d)					
KD_5740	KD9 - Completion of Section 4, (1739d)	0%	Od	1	22-Jul-16*	-3	85d						٠	KD9 - Com	pletion of S	Section 4,	(1739d)	
KD_5750	KD11 - Completion of Section 6, (1949d)	0%	0d		30-Aug-16	-2	14d								KD11-0	Completio	on of Section	n 6, (19
TPCWAW	Contraction of the second second		3		-	the second		1		1		-	1			-		
TPCWAW ELS	Works - East Section									1			1			-		-
S6_6180	East excavation to formation	100%	85d	18-Sep-15 A	24-Dec-15/	4		East excavation to	formation									
S5_61070	Demolition of builkhead wall TPCWAE/TPCWAW	100%	34d	06-Dec-15 A	09-Jan-16/		-	Demolition o	f bulkhead w	aliTPC	AE/TPCWA	AW.						
TPCWAW-CC	T RC Structure, Base Slab						-					_	-			-		
S5_60600	Waterproofing + Base slab Bay 1 (incl. removal of 7th layer struts after casting of base slab)	100%	15d	03-Dec-15 A	23-Dec-15/	4 T-	-	Vaterproofing + B	ase slab Bay	1: (incl. i	emoval of 71	th layer stru	s after cast	ing of base :	slab)			
S5_60620	Waterproofing + Base slab Bay 5	100%	11d	05-Dec-15 A	29-Dec-15/			Waterproofing +	Base slab B	ay 5								
S5_60625	Waterproofing + Base slab Bay 6	100%	11d	16-Dec-15 A	19-Jan-16 A		-	Waterpr	oofing + Base	e slab Ba	y 6							
S5_60630	Waterproofing + Base slab Bay 7	100%	7d	07-Jan-16 A	05-Feb-167		-	wa	aterproofing -	+ Base s	lab Bay 7							
S5_60635	Waterproofing + Base slab Bay 8	100%	6d	12-Jan-16 A	05-Feb-16		-	W.	aterproofing -	+ Base s	ab Bay 8							
S5_61065	Waterproofing + Base slab Bay 9 (stitching with TPCWAE)	100%	6d	15-Jan-16 A	05-Feb-16	4	-	wa	aterproofing -	+ Base s	ab Bay 9 (st	itching with	PCWAE)					
TPCWAW- CC	T RC Structure, Wall		-							1			1			-	_	_
S5_60675	Wall Bay 2 (+ repropping and removal of 5th & 6th struts)	100%	10d	10-Dec-15 A	05-Jan-16 A	v		Wall Bay 2 (+	repropping a	and remo	val of 5th &	6th struts)						
S5_60680	Wall Bay 3 (+ repropping and removal of 5th & 6th struts)	100%	21d	10-Dec-15 A	07-Jan-16 A			Wall Bay 3 (4	repropping	and rem	oval of 5th &	6th struts)						
S5_60670	Wall Bay 1 (+ repropping and removal of 5th & 6th struts)	100%	21d	15-Dec-15 A	10-Jan-16 A	8		Wall Bay 1 (+ repropping	and ren	oval of 5th 8	& 6th struts)						
S5_60685	Wall Bay 4 (+ repropping and removal of 5th & 6th struts)	100%	22d	20-Dec-15 A	11-Jan-16 A			Wall Bay 4	+ repropping	and rer	hoval of 5th	& 6th struts						
S5_60690	Wall Bay 5 (+ removal of 5th strut)	100%	10d	02-Jan-16 A	29-Jan-16 A			Wall	Bay 5 (+ rem	oval of 5	th strut)							
S5_60695	Wall Bay 6 (+ removal of 5th strut)	100%	7d	21-Jan-16 A	25-Feb-16 A		-	-	Wall Bay	6 (+ rer	noval of 5th	strut)						
S5_60700	Wall Bay 7 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16.4	vi j			Wall Bay	7 (+ rer	noval of 5th	strut)						
S5_60705	Wall Bay 8 (+ removal of 5th strut)	100%	9d	16-Feb-16 A	25-Feb-16 A	1			Wall Bay	8 (+ rer	noval of 5th	strut)						
S5_61075	Wall Bay 9 (+ removal of 5th strut)	100%	8d	16-Feb-16 A	25-Feb-16 A	et - 1-	-		Wall Bay	9 (+ rer	noval of 5th	strut)						
TPCWAW -Mai	intenance Walkway									1	-		-					
S6_9085	TPCWAW - Maintenance walkway / profile barrier	100%	23d	20-Dec-15 A	23-Mar-16 A					TPCW	W - Mainter	nance walky	ray / profile	barrier				
Remaining	a Work 1 of 3						_	Prena	ed by Quartz	Jequint	0			_		-	_	
Actual Wo	under	on Engine	ring (Ur-	www.		Date		Re	vision	- andmill	Checke		oved					
Remaining	g Work China State Construct	on Enginee	ring (Hon	g Kong) Ltd.		20-Apr-16		ogress Update	_		WC	WSL						
Critical De	maining Work Contract No. HY/2009/15 - Central Wan Cha	By Pass -	Tunnel (Causeway Bay Tyr	nhoon Shelter		(ba	sed on WP Rev.	N-3rd Submi	ission)	1							

WORKS PROGRAMME UPDATE

Summary

Actual Work

TPCWAW- CCT F S5_60755 S5_60740 S5_60745 S5_60750	RC Structure, OHVD	Complete	Duration			Flo	at		eb Ma	ar	Apr	May	Jun	Jul	Aug	Sep	Od	Nov	Dec
S5_60755 S5_60740 S5_60745							-	Jan Fe		-	-	-		-			-	-	1
S5_60740 S5_60745	OHVD Bay 4																		
S5_60745	2002 24	100%	12d	24-Dec-15 A	25-Jan-16 A			OHV											
	OHVD Bay 1	100%	12d	29-Dec-15 A	21-Jan-16 A			OHVD	Bay 1										
S5_60750	OHVD Bay 2	100%	12d	31-Dec-15 A	18-Jan-16 A	1		OHVD	Bay 2										
	OHVD Bay 3	100%	12d	02-Jan-16 A	18-Jan-16 A			OHVD	Bay 3										
S5_60760	OHVD Bay 5	100%	12d	06-Jan-16 A	25-Jan-16 A		1	OHV	D Bay 5								ł		
S5_61080	OHVD Bay 6	100%	9d	20-Jan-16 A	16-Feb-16 A			-	OHVDB	Bay 6									
S5_61085	OHVD Bay 7	100%	9d	12-Feb-16 A	28-Feb-16 A			1	OH	VD Bay	7								
S5_61095	OHVD Bay 9	100%	9d	12-Feb-16 A	28-Feb-16 A			1	OH/	VD Bay	9								
S5_61090	OHVD Bay 8	100%	9d	16-Feb-16 A	28-Feb-16 A				OH/	VD Bay	8								
S5_61100	OHVD Bay 10	100%	7d	16-Feb-16 A	26-Feb-16 A				OHV	D Bay	10								
S5_61110	Shaft B Reinstatement - OHVD	40%	20d	20-Feb-16 A	29-Apr-16	12	2d			-		Shaft B F	Reinstaten	ment - Ol	HVD				
TPCWAW- CCT	RC Structure, Top Slab + Waterproofing									- E				1 -					
S5_60815	Top slab Bay 2	100%	10d	08-Jan-16 A	02-Feb-16 A			T T	op slab Bay	2									
S5_60820	Top slab Bay 3	100%	10d	11-Jan-16 A	16-Feb-16 A			-	Top slab	Bay 3									
S5_60810	Top slab Bay 1	100%	11d	19-Jan-16 A	23-Feb-16 A				Top s	lab Bay	1								
S5_60825	Top slab Bay 4	100%	11d	19-Jan-16 A	24-Feb-16 A	1		-	Top s	lab Bay	4								
S5_61105	Shaft B Reinstatement - Top Slab	100%	15d	14-Feb-16 A	29-Feb-16 A				Sha	aft B Re	instate	ment - Top S	Slab						
S5_60830	Top slab Bay 5	100%	10d	19-Feb-16 A	29-Feb-16 A				Top	slab B	ay 5								
S5_60835	Top slab Bay 6	100%	12d	20-Feb-16 A	02-Mar-16 A				To	p slab E	Bay 6								
S5_60840	Top slab Bay 7	100%	7d	20-Feb-16 A	05-Mar-16 A				T	op slab	Bay								
S5_60845	Top slab Bay 8	100%	16d	20-Feb-16 A	05-Mar-16 A		-		τ.	op slab	Bay a								
S5_60865	Top slab Bay 9	100%	15d	20-Feb-16 A	07-Mar-16 A	5 1 1 1				Top slat	Bay 9								
S5_60875	Top slab Bay 10	100%	5d	20-Feb-16 A	09-Mar-16 A	-	-		E 2	Top sla	b Bay	10							
S5_61120	Provide access to CWB (CC) Contractor - TPCWAW Area	100%	Od		29-Feb-16 A	E.			Pro	ovide ad	xess to	CWB (CC)	Contract	or - TPC	WAW Area	6			
S6_9055	Provide Access to WDII Contractor for bulkhead wall removal	100%	0d		29-Feb-16 A				• Pro	ovide Ad	cess to	WDII Cont	ractor for	bulkhead	d wall rem	oval			
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	100%	Od		09-Mar-16 A	10 C - 12 -			٠	Comple	tion of	Section 5 -	TPCWAW	/ Area (K	(D10), belo	w -20mPD			
TPCWAW - King	g Post Load Transfer / Waterproofing on Top Slab													5			1		
S6_9076	TPCWAW King post load transfer + waterproofing (except Bay 10)	100%	26d	04-Mar-16 A	29-Mar-16 A				-		TPCW	AW King po	st load tra	insfer + v	waterproofi	ng (except B	ay 10)		
S5_61115	TPCWAW waterproofing - Bay 10	100%	2d	09-Mar-16 A	10-Mar-16 A	-	-			TPCW	AW	aterproofing	- Bay 10	5					
	2.42		1					Pre	pared by Q	uartz Je	quinto	-			-				
Remaining				C. Sector Contraction		Date			Revision			Checke		roved					
Actual Wor	offina State Constitu	iction Engin	eering (Ho	ong Kong) Ltd.		20-Apr-16		gress Update				WC	WSL	_	1	in a star	Sec. 1	and a	S. ale
Remaining		hai Du Daa	Tunnel	Causeway Bay Tunk	noon Shelter		(ba	ised on WP R	ev. N-3rd S	Submissi	ion)	-	-			中國運算			
	maining Work Contract No. HY/2009/15 - Central Wan C	Section		Conservat pay type	a shi shener		-	_		_	-	-	-		France.	CHINA STATE CON	STRUCTION EN	GINEERING (HO	ING BONGI LI
Milestone Summary		occuon	'				-			-	_	-	-						

ID	Activity Name	Physical % Complete	Original Duration	Start	Finish	Total Float	-			1	1	-	2016					March	-
		Complete	Duration			/ Wdl	Jan	Feb	Mar	Apr	May	Jun	1	Jul	Aug S	iep	Oct	Nov	D
PCWAW Ren	noval of Temporary Reclamation									1									
S6_9140	Backfilling/Removal of ELS + Re charge water	0%	25d	30-Mar-16 A	07-May-16	-379d	-			-		1	200		e charge wa				
S6_9105	Remove general fill/ seawall block (concurrent activities)	0%	25d	08-May-16	01-Jun-16	-379d					C.	Remov	ve ger	neral fill/ se	awall block				
6_9120	Saw cut diaphragm wall	0%	102d	21-May-16	30-Aug-16*	-379d				1				-	Sa	w cut d	liaphragm	wall	
6_7550	Completion of Section 6- (KD11), above - 20mPD	0%	Od		30-Aug-16	-214d				1					♦ Co	mpletio	on of Section	on 6- (KD1	1), 4
orks in Port	ion 11 under KD9 (incl. Reinstatement of Vertical Seawall)		-							1					1				
6_9144	Reinstate vertical seawall (by marine plant)	0%	24d	18-Jun-16	15-Jul-16	-325d				1			÷	Reinsta	ate vertical s	eawall	(by marine	e plant)	
6_9147	Reinstate ground level at Portion 11	0%	6d	16-Jul-16	22-Jul-16	-325d								E Rein	istate groun	d level a	at Portion	11	
6_9148	Completion of KD9- Works in Portion 11	0%	Od		22-Jul-16	-385d				1				. Con	pletion of K	D9- Wo	orks in Por	tion 11	

	3 of 3		Prepared by Quartz Jequinte	0		
Remaining Work		Date	Revision	Checked	Approved	
Adual Work	China State Construction Engineering (Hong Kong) Ltd.	20-Apr-16	Progress Update	WC	WSL	
 Remaining Work 			(based on WP Rev. N-3rd Submission)			中國連禁工程(基港) 亦限公司
Critical Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter					CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.
Milestone	Section)					
Summary	WORKS PROGRAMME UPDATE	-			-	
 Actual Work 	Works Proordamile of DATE	1				

	Activity Name		On	Rem	Scheduled/	Scheduled/	Total	Calendar		2016
		and the second	Dur	Dur	Actual Start	Actual Finish	Float		19 26 03 10	August 17 24 31 07 14 21 28
hree Months Rol	Iling Programme 2016	-07-20 (dd 20-Jul-16)								
Programme Mileste	tones (Revised up to EO	TO No.16 issued on 01-Dec-15)								
Contractual Complet	etion Dates									
KDC0170 S	Section 9B Works (2107 days) - C	WB Structure (CH3400 Eastward) (5-Nov-15 Noon)	0	0		20-Jul-16*	-257	Calendar Day		Section 9B Works (2107 days) - CWB Structure (CH3400 Eastward
		WB Structure (CH3400 Westward) (3-Feb-16 Noon)	0	0		20-Jul-16*	-167	Calendar Day		Section 10 Works (2197 days) - CWB Structure (CH3400 Westware)
KDC0190 S	Section 11 Works (2407 days) - Re	emainder of Works/ Works Completion Date (31-Aug-16 Noon)	0	0		31-Aug-16*	0	Calendar Day		♦ Sei
Soft Landscaping & E	Establishment Key Dates			-	and the second					4
KDC0150 S	Section 8D Works (2139 days) - E	stablishment Works in Area 8 (06-Dec-15 Noon)	0	0		20-Jul-16*	-226	Calendar Day		Section 8D Works (2139 days) - Establishment Works in Area 8 (06)
KDC0200 S	Section 11A Works (2437 days) - F	Remaining Landscape Softworks (30-Sep-16 Noon)	0	0		30-Sep-16*	0	Calendar Day		
KDC0220 S	Section 12 Works (2407 days) - Pr	rotection and Preservation of Existing Trees (31-Aug-16 Noon)	0	0		31-Aug-16*	0	Calendar Day		♦ Se
Forecast Completion	n Dates									
Soft Landscaping & E	Establishment Key Dates		-							
KDF0150 S	Section 8D Works (1838 days) - E	stablishment Works in Area 8	0	0	1	27-Aug-16*	-264	Calendar Day		Section 8
Possession of Site										
PS0070a P	Possession of Portion 7 - Remaining	ng Part of Area 9 (14-Sep-15)	0	0	20-Jul-16*		-310	Calendar Day		Possession of Portion 7 - Remaining Part of Area 9 (14-Sep-15)
Preliminaries		Man and Astronomy and a state of the state o							and the second	
Critical Submission	& Approval									
		stem (PS30.5) - Design Approval by AECOM	30	22	29-Jan-15 A	10-Aug-16*	-713	Calendar Dav		Temp Covered Walkway Cover Sy
and the second	which a state of the		50	22	25-541-15 A	10-Aug-10	-/13	Calendar Day		Temp Covered Walkway Cover Sy
Contraction of the second second		of Wan Chai Ferry Pier in Area 8								
Outstanding Works				1						
Contract whereas a second second second		manent EVA to Ferry Pier and P7-P9 Pump Stations	90	12	29-Feb-16 A	31-Jul-16	-134	Calendar Day		Clarify the alignment/details of permanent EVA to
		elocating utilities from the steel decking	14	14	01-Aug-16	14-Aug-16	-134	Calendar Day		Liaison with utility companies
Same Sectors and	Divert temporary EVA to backfilled		10	10	15-Aug-16	24-Aug-16	-123	HK Working Day		Divert tempor
	Dismantle existing temporary EVA		15	15	24-Aug-16	09-Sep-16	-123	HK Working Day		
	Demolish the bulkhead wall underr		25	25	09-Sep-16	07-Oct-16	-123	HK Working Day		and and and and and a set of the
Section 9B of the V	Works - CWB Tunnel St	ructure (CH3400 - CH3796)								
Tunnel Portion 1 (CH	H3500-CH3630)									
CWB Structural Work	ks									
Outstanding Works	and the second second									
	TB1 - Installation of precast concre	ete covers for troughs	15	0	20-Jun-16 A	15-Jul-16 A	1	Calendar Day	TB1	 Installation of precast concrete covers for troughs
Tunnel Portion 2 (CH										
CWB Structural Work	ks									
Outstanding Works						and the second second		and the second of		
	TB2 - Installation of precast concre	•	15	0	20-Jun-16 A	15-Jul-16 A		Calendar Day	TB2	Installation of precast concrete covers for troughs
	Tunnel Portion 4 (CH3630-C	CH3790)								
CWB Structural Work	10									and the second
					Section Section	in the second	(1 - P
	Carry out drilling works and saw cu	ut on the bulkhead wall at eastern tunnel end	71	0	15-Mar-16 A	17-Jul-16 A		Calendar Day		arry out drilling works and saw cut on the bulkhead wall at eastern tunn
S9B-T34-3105 F	Carry out drilling works and saw cu Remove formwork and falsework fi	rom Bay 16 prior to constructing top slab of Bay 16	15	3	07-Jun-16 A	17-Jul-16 A 22-Jul-16	-482	Calendar Day HK Working Day		arry out drilling works and saw cut on the bulkhead wall at eastern tunn Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F	Carry out drilling works and saw cu Remove formwork and falsework f Remaining works at HY/2009/15 In	rom Bay 16 prior to constructing top slab of Bay 16 Iterface for Section 9B Completion - Structural Stitching Works	15 20		-1		-482 -246			
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K	Carry out drilling works and saw cu Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4	15 20 9	3	07-Jun-16 A 18-Jul-16 A 27-Jul-16	22-Jul-16		HK Working Day		Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8	15 20	3 18	07-Jun-16 A 18-Jul-16 A	22-Jul-16 06-Aug-16	-246	HK Working Day HK Working Day		Remove formwork and falsework from Bay 16 prior to construct
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13	15 20 9	3 18 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16	22-Jul-16 06-Aug-16 04-Aug-16	-246	HK Working Day HK Working Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, to post Load Transfer in Bay 5 to Bay 8
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17	15 20 9 9 9 9 9	3 18 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A	-246 -535	HK Working Day HK Working Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, to post Load Transfer in Bay 5 to Bay 8
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4	15 20 9 9 9 9 9 9 7	3 18 9 0 4	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16	-246 -535 -532	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, t Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8	15 20 9 9 9 9 9 9 7 7 7	3 18 9 0 4 9	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 07-Jul-16 A 15-Jul-16 A 30-Aug-16	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16	-246 -535 -532 -534	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day		Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F	Carry out drilling works and saw ou Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 5 to Bay	rom Bay 16 prior to constructing top slab of Bay 16 iterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13	15 20 9 9 9 9 9 9 7	3 18 9 0 4 9 7	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16	-246 -535 -532 -534	HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, t Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5000 F S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7100 E S9B-T34-7000 E	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 14 to Ba ELS (S2-S4) Removal - Bay 1 to E ELS (S2-S4) Removal - Bay 5 to E	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 45 45	3 18 9 0 4 9 7 0 0 0 41 45 25	07-Jun-16 A 18-Jul-16 A 27-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16	-246 -535 -532 -534 -535 -534 -535 -534 -535 -499	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, k Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Tr Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing e - Bay 9 to Bay 13 Roof V
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S9B-T34-3105 F S9B-T34-3200 F S9B-T34-3600 K S9B-T34-5700 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7200 E S9B-T34-7300 E Bay 1 S9B-T34-B1-1185 S9B-T34-B1-11270 F	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to B S2-S4) Re	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 1 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) R
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-7100 E S9B-T34-7300 E Bay 1 S9B-T34-B1-1185	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 5 to Bay Roof Waterproofing - Bay 9 to Bay Roof Waterproofing - Bay 1 to Ba ELS (S2-S4) Removal - Bay 1 to Ba ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to B S2-S4) Re	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 Date
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-5000 F S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6300 F S9B-T34-6300 F S9B-T34-7000 E S9B-T34-700 E S9B-T34-B1-1185 C S9B-T34-B1-1270 F	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to B ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 9 to B ELS (S2-S4) Removal - Bay 1 to Construct Roadside Barriers Roof - Waterproofing	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 bay 13	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 06-Jul-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 1 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) R
S9B-T34-3105 F S9B-T34-3200 F S9B-T34-5600 K S9B-T34-5700 K S9B-T34-5700 K S9B-T34-5800 K S9B-T34-5900 K S9B-T34-6000 F S9B-T34-6100 F S9B-T34-6100 F S9B-T34-6200 F S9B-T34-6200 F S9B-T34-6200 F S9B-T34-6200 F S9B-T34-6200 F S9B-T34-7000 E S9B-T34-7000 E S9B-T34-7200 E S9B-T34-7300 E Bay 1 S S9B-T34-B1-1185 C S9B-T34-B1-1270 F Milestone Critical Milles	Carry out drilling works and saw or Remove formwork and falsework f Remaining works at HY/2009/15 In King Post Load Transfer in Bay 1 t King Post Load Transfer in Bay 5 t King Post Load Transfer in Bay 9 t King Post Load Transfer in Bay 14 Roof Waterproofing - Bay 1 to Bay Roof Waterproofing - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to Bay ELS (S2-S4) Removal - Bay 1 to Bay ELS (S2-S4) Removal - Bay 5 to B ELS (S2-S4) Removal - Bay 1 to Construct Roadside Barriers Roof - Waterproofing	rom Bay 16 prior to constructing top slab of Bay 16 tterface for Section 9B Completion - Structural Stitching Works o Bay 4 o Bay 8 o Bay 13 to Bay 17 4 8 13 y 17 Bay 4 Bay 8 Bay 13 Bay 13 Bay 13 Bay 17	15 20 9 9 9 7 7 7 7 7 7 7 7 45 45 45 45	3 18 9 0 4 9 7 7 0 0 0 41 45 25 40 45	07-Jun-16 A 18-Jul-16 A 27-Jul-16 07-Jul-16 A 15-Jul-16 A 30-Aug-16 07-Jul-16 A 15-Jun-16 A 24-Jun-16 A 28-Jun-16 A 04-Aug-16 28-Jun-16 A 14-Jul-16 A 14-Jul-16 A	22-Jul-16 06-Aug-16 04-Aug-16 14-Jul-16 A 23-Jul-16 07-Sep-16 26-Jul-16 23-Jun-16 A 29-Aug-16 18-Sep-16 13-Aug-16 28-Aug-16 02-Sep-16 25-Jul-16 21-Jun-16 A	-246 -535 -532 -534 -535 -534 -535 -499 -514 -495 -263	HK Working Day HK Working Day Calendar Day	Roof Waterproofing - Bay 5 to Bay 8 Roof Waterproofing	Remove formwork and falsework from Bay 16 prior to construct Remaining works at HY/2009/15 Interface King Post Load Transfer in Bay 1 to Bay 4, K Post Load Transfer in Bay 5 to Bay 8 King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 13, King Post Load Transfer in Bay 9 to Bay 4, Roof Waterproofing a - Bay 9 to Bay 13 Roof Waterproofing - Bay 1 to Bay 4, Roof Waterproofing bay 9 to Bay 13 Roof V ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 ELS (S2-S4) Removal - Bay 5 Date
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	1		Dur	Dur	Actual Start	Actual Finish	Float		19 26 03 10	17 24 31		gust 14 21	28
S9B-T34-B1-1280	Roof - Rebar Fixing & Formwork		12	0	17-Jun-16 A	21-Jun-16 A	1	Calendar Day	Roof - Rebar Fixing & Formwork				
S9B-T34-B1-1290	Roof - Concrete		1	0	22-Jun-16 A	22-Jun-16 A		Calendar Day	Roof - Concrete		1		
S9B-T34-B1-1300	Roof - Curing		14	0	23-Jun-16 A	06-Jul-16 A		Calendar Day	Roof - Curing				
S9B-134-B1-1310 Bay 2	Roof - Scaffolding Dismantling		11	4	07-Jul-16 A	23-Jul-16	-261	Calendar Day		Roof - Scaffolding	Dismantling, R	oof - Scaffolding Dis	mantling
	Construct Roadside Barriers		7	20	09-May-16 A	08-Aug-16	-277	Calendar Day		1 1			
S9B-T34-B2-1300	Roof - Curing		14	0	13-Jun-16 A	26-Jun-16 A	-211	Calendar Day	Roof - Curing		Construc	t Roadside Barriers,	Construc
S9B-T34-B2-1310	Roof - Scaffolding Dismantling		7	0	02-Jul-16 A	14-Jul-16 A		Calendar Day		Scaffolding Dismantling			
Bay 3			-										
	Roof - Scaffolding Dismantling		7	0	30-Jun-16 A	03-Jul-16 A		Calendar Day	Roof - Scaffolding Disr	man tling			
Bay 4 S9B-T34-B4-1185	Construct Roadside Barriers		8	11	03-May-16 A	30-Jul-16	-240	HK Working Day	the second s				marrie
S9B-T34-B4-1300	Roof - Curing		14	0	10-Jun-16 A	24-Jun-16 A	-240	Calendar Day	Roof - Curing	Constr	ict Roadside Ba	arriers, Construct Ro	adside B
S9B-T34-B4-1310	Roof - Scaffolding Disman ting		7	0	27-Jun-16 A	03-Jul-16 A	-	Calendar Day	Roof - Scaffolding Disr	men tling			
Bay 5					27 dui 1071	oo our rom		Galeridal Day	The scale of the s	narrung			
ALC: NO DECISION OF THE OWNER OF	Roof - Scaffolding Dismantling		7	0	23-Jun-16 A	29-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tlir				
Bay 6	Boof Coeffeiding Discourse									1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 2			
Bay 7	Roof - Scaffolding Dismantling		7	0	10-Jun-16 A	29-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tlin	יפ			
	Construct Roadside Barriers		8	0	25-Mar-16 A	13-Jul-16 A	-	HK Working Day	Constra	et Roadside Barriers			
Bay 8					20 Mar 1074	10-00FTO A		The working Day	Constr	Tet Roadside Darners			
S9B-T34-B8-1185	Construct Roadside Barriers		8	0	25-Mar-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
Bay 9	Contract in the second		-			1000							
	Construct Roadside Barriers Roof - Scaffolding Dismantling		8	0	27-Mar-16 A	15-Jul-16 A		HK Working Day		struct Roadside Barriers			
Bay 10	Roor - Scanolding Dismantling		7	0	16-Jun-16 A	21-Jun-16 A		Calendar Day	Roof - Scaffolding Disman tling				
	Construct Roadside Barriers		8	0	29-Mar-16 A	15-Jul-16 A	1	HK Working Day	Con	struct Roadside Barriers			
S9B-T34-B10-1310	Roof - Scaffolding Dismantling		7	0	16-Jun-16 A	21-Jun-16 A		Calendar Day	Roof - Scaffolding Disman ling	Since Roadside Barners			
Bay 11	a state and the												
	Construct Roadside Barriers		8	0	20-Apr-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
	Roof - Scaffolding Dismantling		7	0	19-Jun-16 A	03-Jul-16 A		Calendar Day	Roof - Scaffolding Disr	man tling			
Bay 12 S9B-T34-B12-1185	Construct Roadside Barriers		0	0	00.4	15 1 1 10 1	-						
	Roof - Scaffolding Disman tling		8	0	22-Apr-16 A 19-Jun-16 A	15-Jul-16 A		HK Working Day		struct Roadside Barriers			
Bay 13	riter standarding Plantantung		-	U	19-JUN-10 A	03-Jul-16 A	-	Calendar Day	Roof - Scaffolding Disr	nanting			
S9B-T34-B13-1185	Construct Roadside Barriers		8	0	18-Apr-16 A	15-Jul-16 A	-	HK Working Day	Con	sruct Roadside Barriers			
Bay 14							1			and the second second second			
	Construct Roadside Barriers		8	0	22-Apr-16 A	13-Jul-16 A		HK Working Day	Constru	et Roadside Barriers			
Bay 15 S9B-T34-B15-1175	Construct Roadside Barriers		8	0	21-Apr-16 A	10 11 10 1		1					
	OHVD Base Slab (South) - Conc	crete & Curring	14	0	19-May-16 A	18-Jul-16 A 04-Jul-16 A	-	HK Working Day		Construct Roadside Barrie	rs		
	Roof - Scaffolding Disman tling	and a baring	7	0	25-Jun-16 A	30-Jun-16 A		Calendar Day Calendar Day	Roof - Scaffolding Dismant	outh) - Concrete & Curing		1000 (m	
Bay 16	a trintrang	Annual and the second		U	23-341-10 A	30-301-10 A	-	Galendar Day	Rooi - Scanolding Dismant	ing			
	Construct Roadside Barriers (No		6	6	21-Jul-16	27-Jul-16	-485	HK Working Day		Construct R	oadside Barriers	s (North and South),	. Constru
	Wall (Middle) - Rebar Fixing & W	/orking Platform	3	2	17-Apr-16 A	21-Jul-16	-543	Calendar Day		Wall (Middle) - Reba			
	Wall (Middle) - Formwork		2	0	20-Apr-16 A	23-Jul-16	-543	Calendar Day		Wall (Middle) - Fo			
	Wall (Middle) - Concrete		1	0	22-Apr-16 A	24-Jul-16	-543	Calendar Day		Wall (Middle) - 0	Concrete, Wall (Middle) - Concrete	
The Print of the State of the S	Wall (Middle) - Curing & Formwo		3	0	23-Apr-16 A	27-Jul-16	-543	Calendar Day		Wall (Middl	e) - Curing & Fo	mwork Dismantling,	, Wall (M
	Construct Roadside Barriers (Mid		4	4	27-Jul-16	01-Aug-16	-240	HK Working Day		Cons	truct Roadside	Barriers (Middle), Ce	onstruct
	OHVD Base Slab (North) - Scaffe		3	3	27-Jul-16	29-Jul-16	-543	Calendar Day) - Scaffolding Erect	
STRUCTURE AND AND AND AND AND AND	OHVD Base Slab (North) - Form OHVD Base Slab (North) - Conci		4	4	27-Jul-16	30-Jul-16	-543	Calendar Day		OHVD	about the second s	th) - Form work & Re	**********
A CONTRACTOR OF A CONTRACTOR O	OHVD Base Slab (North) - Hang		13	13	31-Jul-16	13-Aug-16	-543	Calendar Day				HVD Base Slab (No	
	OHVD Base Slab (South) - Scaff				01-Aug-16	05-Aug-16	-543	Calendar Day		19 - Anna Carlos		Slab (North) - Hange	
			5	5	26-Jul-16	31-Jul-16	-544	Calendar Day				uth) - Scaffolding Er	
to Market and the second	OHVD Base Slab (South) - Form OHVD Base Slab (South) - Conc		6 13	6	28-Jul-16	03-Aug-16	-544	Calendar Day				(South) - Formwork	
	OHVD Base Slab (South) - Hang	2 PS NE CONTROL & P	4	13	03-Aug-16 03-Aug-16	17-Aug-16	-544	Calendar Day	······································		deservation and the state	OHVD Base Sla	
100 miles - 100 miles			**	4	03-Aug-10	07-Aug-16	-544	Calendar Day		á	UHVD Bas	e Slab (South) - Har	nger Wall
 Milestone 												Date	
Critical Mil	estones											20-Jul-16	
Current W		CHUN WO - CRGL				CEDD	000		NO HIV/2000/00				
Gunentw	UING	CHOIL NO - CKGL				CEDD		NIKACI	NO. HK/2009/02				

Critical Milestones	and the second second second second		20-Jul-16
Current Works	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02	
Critical Works			
Remaining Level of Effort	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)	
		3-MONTH ROLLING PROGRAMME (dd 20-Jul-16)	

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	uring & Forr Barriers (N		nantling			
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	1	a hand a state and	ab (North) -			
			e Slab (Nor		ger Wall &	Scaff
			olding Erect th) - Formw		ebar Fixing	
	ete & Curing	, OHVD B	ase Slab (S	outh) - C	oncrete &	Curing
	Iding to Ro	of, OHVD E	Base Slab (S	South) -	Hanger Wa	all & S
	and to the second	C	hecked		Approve	ed
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CEDD CONTRACT HK/2009/02

ity ID	Activity Name	On Dur	Rem Dur	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float	Calendar	-	1	1		luly	-		1	2016 August
		Dui	Dui	Reidar Start	Actual rithsh	Float		19	26	03	10	1	17	24	31	07 14 21
	Roof - Waterproofing	2	2	05-Aug-16	07-Aug-16	-544	Calendar Day		8		3		-		1	Roof - Waterproofing, Roof -
	Roof - Rebar Fixing & Formwork	5	5	03-Aug-16	09-Aug-16	-544	Calendar Day									Roof - Rebar Fixing & Form
S9B-T34-B16-1280		1	1	09-Aug-16	09-Aug-16	-544	Calendar Day									Roof - Concrete, Roof - Co
S9B-T34-B16-1290	Roof - Curing	4	4	09-Aug-16	13-Aug-16	-544	Calendar Day									Roof - Curing, Roof -
S9B-T34-B16-1300	Roof - Scaffolding Disman tling	8	8	13-Aug-16	21-Aug-16	-289	Calendar Day		1000							Roof - Se
Bay 17							and the second second									
	Construct Roadside Barriers	4	4	23-Jul-16	26-Jul-16	-543	Calendar Day						Ę	Cor	nstruct Ro	adside Barriers, Construct Roadsi
	OHVD Base Slab (North) - Scaffolding Erection	3	3	27-Jul-16	29-Jul-16	-543	Calendar Day								OHVD B	ase Slab (North) - Scaffolding Ere
	OHVD Base Slab (North) - Formwork & Rebar Fixing	3	3	29-Jul-16	31-Jul-16	-275	Calendar Day		Į							Base Slab (North) - Formwork &
S9B-T34-B17-1210	OHVD Base Slab (North) - Concrete & Curing	12	12	01-Aug-16	13-Aug-16	-275	Calendar Day									OHVD Base Slab (N
S9B-T34-B17-1220	OHVD Base Slab (North) - Hanger Wall	3	3	03-Aug-16	06-Aug-16	-275	Calendar Day						1.1			OHVD Base Slab (North) - Har
S9B-T34-B17-1230	OHVD Base Slab (South) - Scaffolding Erection	3	3	27-Jul-16	29-Jul-16	-278	Calendar Day							1000	OHVD B	ase Slab (South) - Scaffolding Ere
S9B-T34-B17-1240	OHVD Base Slab (South) - Formwork & Rebar Fixing	3	3	29-Jul-16	31-Jul-16	-278	Calendar Day							E	OHVI	Base Slab (South) - Formwork &
	OHVD Base Slab (South) - Concrete & Curing	12	12	01-Aug-16	13-Aug-16	-278	Calendar Day									OHVD Base Slab (S
S9B-T34-B17-1260	OHVD Base Slab (South) - Hanger Wall	3	3	03-Aug-16	06-Aug-16	-278	Calendar Day									OHVD Base Slab (South) - Har
S9B-T34-B17-1280	OHVD - Scaffolding Dismantling	4	4	06-Aug-16	10-Aug-16	-278	Calendar Day									OHVD - Scaffolding Dism
S9B-T34-B17-1294	Roof - Scaffolding Dismantling	3	0	18-Jun-16 A	20-Jun-16 A		Calendar Day	Roof -	Scaffoldi	ng Dismant	ding					
S9B-T34-B17-1311	Construct Remaining Base Slab and Walls (after bulkhead breakthrough at eastern tunnel)	4	2	18-Jul-16 A	21-Jul-16	-543	Calendar Day						- C	onstruct F	Remaining	Base Slab and Walls (after bulkhi
S9B-T34-B17-1312	OHVD Base Slab (Remaining after bulkhead breakthrough) - Scaffolding Erection	3	3	22-Jul-16	24-Jul-16	-538	Calendar Day					1		OHVD	Base Sla	(Remaining after bulkhead break
S9B-T34-B17-1313	OHVD Base Slab (Remaining after bulkhead breakthrough) - Formwork & Rebar Fixing	4	4	24-Jul-16	28-Jul-16	-276	Calendar Day									e Slab (Remaining after bulkhead
The state of the state	OHVD Base Slab (Remaining after bulkhead breakthrough) - Concrete	1	1	01-Aug-16	01-Aug-16	-280	Calendar Day									
	OHVD Base Slab (Remaining after bulkhead breakthrough) - Curing	7	7	02-Aug-16		-280		-								D Base Slab (Remaining after bul
	OHVD Base Slab (Remaining after bulkhead breakthrough) - Hanger Walls	-			08-Aug-16	100.00	Calendar Day									OHVD Base Slab (Remainin
AVE OF MERICAL COLUMN		3	3	02-Aug-16	04-Aug-16	-276	Calendar Day									OHVD Base Slab (Remaining afte
	Construct Remaining Top Slab (after bulkhead breakthrough at eastern tunnel) OHVD - Remaining Scaffolding Dismantling	3	3	02-Aug-16	04-Aug-16	-276	Calendar Day									Construct Remaining Top Slab (al
		3	3	09-Aug-16	11-Aug-16	-280	Calendar Day									OHVD - Remaining Sca
	s - CWB Tunnel Structure (CH3246 - CH3400)															
Funnel Portion 5 (0	CH3276-CH3400)												1			
S10-T5-1060	Pump Test / Instrumentation - Tunnel Portion 5	27	5	27-Mar-16 A	24-Jul-16	-496	Calendar Day	-		-	-		-	Pump	Test / Ins	rumentation - Tunnel Portion 5, Pi
S10-T5-2010	Tunnel Portion 5 - Excavate to Level S1A and Install Strut S1A (3,500m3@ 900m3/d)	18	0	20-May-16 A	23-Jun-16 A		Calendar Day	Т	unnel Por	tion 5 - Exc	avate to L	evel S	1A and	Install S	trut S1A (3,500m3@ 900m3/d)
S10-T5-2020	Tunnel Portion 5 - Excavate to Level S1 and Install Strut S1 (35,000m3@ 1100m3/d)	39	7	07-Jun-16 A	26-Jul-16	-597	Calendar Day	-					*******	Tur	nnel Portic	n 5 - Excavate to Level S1 and Ins
S10-T5-2030	Tunnel Portion 5 - Excavate to Level S2 and Install Strut S2 (36,800m3@ 1100m3/d)	42	42	27-Jul-16	06-Sep-16	-597	Calendar Day					1	1		-	
S10-T5-2040	Tunnel Portion 5 - Excavate to Level S3 and Install Strut S3 (54,700m3@ 1100m3/d)	57	57	07-Sep-16	02-Nov-16	-597	Calendar Day						1			
ection 11 of the	Works - Remainder of Works															
Demolition Works																
S11-DEM 0-1100	Demolition of existing WSD salt water pumping station	53	103	13-Jun-16 A	30-Oct-16	-246	Calendar Day			12-111-0-0	àn an an an				Erron	
S11-DEMO-1300	Demoliton of abandoned seawall down to +1.5mPD - at the north of Ex-Salt Water Pump Station	12	12	12-Oct-16	25-Oct-16	-48	HK Working Day	1			1	10			-	1 1 1 1
	d Landscaping Works	12	14	12-04-10	23-000-10	-40	The working Day									
S11-FM-3000A	Tunnel Portion 3 & 4 Backfilling to -6mPD (90,000m3; 1,000m3/d)	102	102	20 141 16	OF New 10	502								_	ř.	
S11-FM-3000B1	Permament Seawall Construction (within temp D-Walls) for WCR4 Reclamation [Summary]	475	102	20-Jul-16	05-Nov-16	-503	HK Working Day						-			
Misc. Works	remainen Seawar Construction (within temp D-wails) for WCR4 Reclamation [Summary]	475	475	24-Aug-16	12-Dec-17	-523	Calendar Day									
Removal of Tempor		-											1			
	Works within Temp D-Wall - Public Fill above roof to formation level of rock mound	34	34	20-Jul-16	23-Aug-16	-491	HK Working Day									Work
S11-RTC-3020	Works within Temp D-Wall - Place rock mound to -6.0mPD (Grade 400: 6,000m3)	12	12	24-Aug-16	05-Sep-16	-491	HK Working Day						1			land and a second
S11-RTC-3022	Works within Temp D-Wall - Place Type A Rock fill, Geotextile and Filter to -6.0mPD	6	6	05-Sep-16	10-Sep-16	-491	HK Working Day	-								
S11-RTC-3023	Works within Temp D-Wall - Place Sorted Public Fill to -6.0mPD	12	12	12-Sep-16	24-Sep-16	-491	HK Working Day									
S11-RTC-3024	Works within Temp D-Wall - Place Type A Rockfill and Filter from -6.0mPD to -2.0mPD	6	6	24-Sep-16	30-Sep-16	-491	HK Working Day	9								
S11-RTC-3025	Works within Temp D-Wall - Place Sorted Public Fill from -6.0mPD to -2.0mPD	12	12	03-Oct-16	15-Oct-16	-491	HK Working Day						3			
S11-RTC-3028	Works within Temp D-Wall - Place Mass Concrete Footing for HHR Flyover from -2.0mPD to +2.75	12	12	15-Oct-16	28-Oct-16	-491	HK Working Day									
oft Landscaping	g & Establishment Works															
Section 8D of the V	Norks - Establishment Works in Area 8									10101-110-		100				
S8D-0010	Carry out establishment work on new ferry pier	288	39	28-Aug-15 A	27-Aug-16	-264	Calendar Day	-	-	-	-	-	-			
Section 12 of the V	Vorks - Protection and Preservation of Existing Trees				3				1	1	1	1			1	1 1 1
S12-0010	Protection and preservation of existing trees	2111	613	24-Feb-10 A	24-Mar-18	-570	Calendar Day	-	1	_	1	E			1	d
and the second sec	No. of the second s		0.0	LA TOD-IVA	L-F INGLE TO	-570	Calendar Day	-				1	r			
1			_	_								_	_			
 Milestone 																Date
Critical Mil	estones															20-Jul-16
Current W					CEDE	00	NTRACT			1200	0/05	2				
							and 0 000 / 3.0	1.1.1	a gant h		- S.H / B B -					

Critical Milestones	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02	20-Jul-16
Critical Works Remaining Level of Effort	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)	
		3-MONTH ROLLING PROGRAMME (dd 20-Jul-16)	

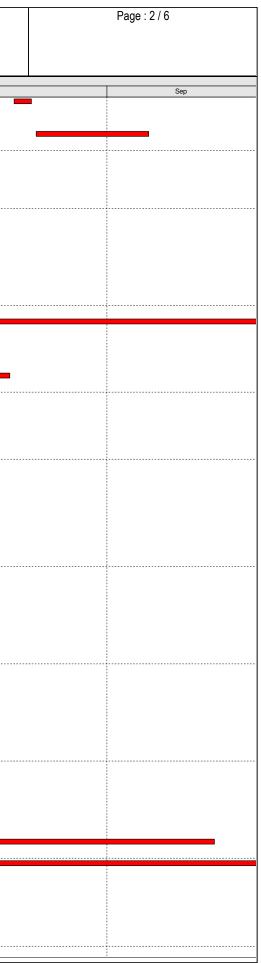
	Septem	ber			4		Oct	ober	
04 fing	11	18		25		02		09	16
	ar Fixing & F	omwor	ĸ						
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Dismant	ling, Roof - S	Scaffold	ing D	ismar	tling				
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	Slab (North								
	/D Base Sla	STATES.	1.444.4				264.0		
	Curing, OH					Joner	ete ö	Curing	
	Base Slab (N Slab (South								
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OHVD B	Base Slab (S	South) -	Hang	er W	all				1
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	00m3@ 110 Innel Portion								
emp D-V	nnel Portion	5 - Exc	avate	e to Le	evel S	tion le	l Inst	f rock m	S2 (3
Tu	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall -	e to Le	orma rock	tion le	l Inst vel o	f rock m	S2 (3 nound,
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emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D) (Gra D) (Gra Place
Tu	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mPl Rock fi	S2 (3 D (Gra II, Gec Place D-Wa
emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D) (Gra D) (Gra Place
emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D (Gra II, Gec Place D-Wa
emp D-V	nnel Portion Vall - Public ks within Te	5 - Exc Fill abo mp D-V	ve ro Vall - mp D	e to Le of to f Place	orma rock s with	tion le mour ace Ty	vel o npe A	f rock m -6.0mP Rock fi -Wall - I	S2 (3 D (Gra II, Gec Place D-Wa
emp D-V	vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra li, Gec D-Wa Wo
emp D-V	nnel Portion Vall - Public ks within Te	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra li, Gec D-Wa Wo
emp D-V	vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra li, Gec D-Wa Wo
emp D-V	vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with	tion le mour ace Ty in Ter 'orks t	vel o id to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 D (Gra li, Gec D-Wa Wo
emp D-V	Vall - Public ks within Te Works w	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	e to Le of to f Place -Wal Work	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m -6.0mPl Rock fil Wall - I Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo
emp D-V	Vall - Public ks within Te Works w hment work	Fill abo mp D-₩	ve ro Vall - mp D	of to f Place -Wal Pier,	orma rock - Pla s with W	tion le mour ace Ty in Ter 'orks t	vel o nd to pe A np D within	f rock m 6.0mP Rock fi Temp	S2 (3 nound, D (Gra II, Gec D-Wa II Wo L Wo

CSUEC	N CHINA STATE - LEADER JO	達聯 INT VENT	營 URE			CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Jun Jul Aug
	Revised Works Programme Rev.7_Updated as of 31-M	ay-16				
	Reclamation					
Aarine Work	Construction					
	truction - Zone A1					
MAR10310	Zone A1 - seawall - Type 3 - dredging from -2.5mPD to -7.2mPD)	2	27-Jun-16	28-Jun-16	-14	
MAR10311	Zone A1 - seawall - Trimming of G400 and grab sampling	1	29-Jun-16	29-Jun-16	-14	
MAR10312	Zone A1 - seawall - Type 3 - lay toe block and leveling stone	5	30-Jun-16	06-Jul-16	-14	
MAR10320	Zone A1 - seawall - install block seawall type 3	9	07-Jul-16	16-Jul-16	-14	
MAR10340	Zone A1 - seawall - place type A behind seawall Type 3	3	18-Jul-16	20-Jul-16	-14	
MAR10345	Zone A1 - seawall - lay geotextile and filter behind seawall Type 3	5	21-Jul-16	26-Jul-16	-14	
				20 541 20		
Others - Landi MAR21400	ng Steps Zone D - [summary] landing steps at seawall 9	70	01-Aug-16	24-Oct-16	62	
Works for Se	ction Completion					
Construction						
Section II - M						
	ture - ELS & Structural Works for Portion A					
MVB Substruc SII11200	ture - Structural Works for Portion A Sec II - MVB A - Construct 2/F top slab, colum and wall	4	19-Mar-16 A	03-Jun-16	-120	
SII11200	Sec II - MVB A - Remove Strut SL3 and SL2 & Concrete Packing	10	04-Jun-16	13-Jun-16	-120	
	-					
SII11240	Sec II - MVB A: Construct 2M/F Inclined Strut	6	14-Jun-16	19-Jun-16	-120	
SII11260	Sec II - MVB A: Construct B2M/F wall and OHVD	55	20-Jun-16	13-Aug-16	-120	
SII11300	Sec II - MVB A: Construct B1/F roof slab	41	14-Aug-16	23-Sep-16	-120	
MVB Substruc	ture - ELS & Structural Works for Portion B					
MVB Substruc SII11880	ture - Structural Works for Portion B Sec II - MVB B: Construct B2/F wall, colum & top slab	26	03-May-16 A	25-Jun-16	-46	
			-			
SII11900	Sec II - MVB B: Remove Strut SL2 & SL3 & Concrete Packing	8	28-Jun-16	05-Jul-16	-46	
SII11920	Sec II - MVB B: Construct B2M/F wall, colum & top slab	35	06-Jul-16	09-Aug-16	-46	
SII11940	Sec II - MVB B: Remove Strut SL1 & Concrete Packing	7	13-Aug-16	19-Aug-16	-46	
SII12360	Sec II - MVB B: Construct B1/F Wall, Column & Slab	32	20-Aug-16	20-Sep-16	-46	
MVB Substruc	ture - Diaphragm Wall for Portion C					
	ing Test Preparation/ Pumping Test	10	01 3-1 10	10 1-1 10	46	
SII10670	Sec II - MVB C - sheetpile wall installation	18	01-Jul-16	18-Jul-16	-46	
SII10680	Sec II - MVB C - Precaution grout / fissure grout	8	19-Jul-16	26-Jul-16	-46	
	ture - ELS & Structural Works for Portion C					
MVB Substruc SII12020	ture - ELS for Portion C Sec II - MVB C: Excavation down to +1.7mPD	3	27-Jul-16	29-Jul-16	-46	
SII12020	Sec II - MVB C : Install Strut S1 at +2.7mPD	4	30-Jul-16	02-Aug-16	-46	
SII12010		4			-46	
	Sec II - MVB C : Excavation down to +0.0mPD		03-Aug-16	06-Aug-16		
SII12080	Sec II - MVB C : Install Strut S2 at +1.0mPD	4	07-Aug-16	10-Aug-16	-46	
SII12100	Sec II - MVB C : Excavation down to -2.0mPD	4	11-Aug-16	14-Aug-16	-46	
SII12120	Sec II - MVB C : Install Strut S3 at -1.0mPD	4	15-Aug-16	18-Aug-16	-46	

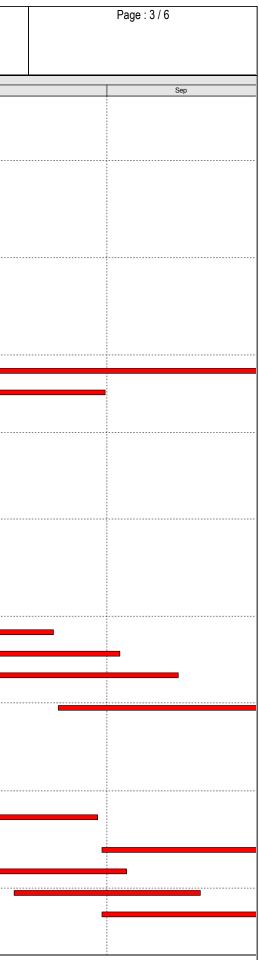
		Current Milestone		Date	Revisio
Data Date:	— —	Actual Work	3-Months Rolling Programme for Works at Non-CRIII Area	01-Jun-16	Rev. 1
31-May-16	Critical Remaining Work	5-months nothing Programme for works at Non-Chin Area			
		Remaining Work	(Jun 2016 to Aug 2016)		
	Remaining		(Juli 2010 to Aug 2010)		

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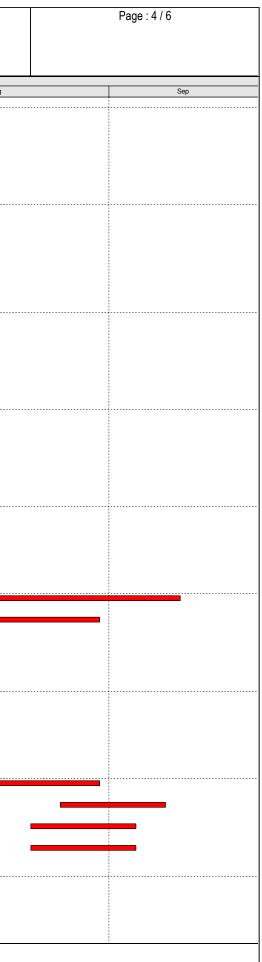
日建	CHINA STATE - LEADER JC					CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Jun Jul	
SII12180	Sec II - MVB C : Excavation down to -3mPD	3	19-Aug-16	21-Aug-16	-46		
	re - Structural Works for Portion C						
SII12200	Sec II - MVB C : Construct Slab B1/F	16	22-Aug-16	06-Sep-16	-46		
ction II A - CV VB A2(2)	WB Tunnel & Slip Road Structures and Facilities						
WB A2 (2) - EL	S & Tunnel Structure						
CWB A2 - ELS CWB A2 - West	t .						
SIIA13445	Sec II A - CWB A2(2): demolition of temp bulk head wall at west end	21	03-May-16 A	20-Jun-16	-79		
CWB A2 - Tunne		54	24.3.46	10.4.16	70		
SIIA11700	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 1 -Adjancent to A1)	51	21-Jun-16	10-Aug-16	-79		
SIIA11750	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay 2)	54	12-May-16 A	23-Jul-16	-61		
SIIA12492	Sec II A - CWB A2(2): base, wall, OHVD & roof (bay3)	51	28-Apr-16 A	20-Jul-16	-49		
CWB A2 - Other				04.0.1.15			
SIIA12530	Sec II A - CWB A2(2) : waterproofing and backfill to +4.0mPD	45	11-Aug-16	04-Oct-16	-66		_
WB A2 (2) - Ass SIIA14320	sociated Facilities Sec II A - CWB A2(2): Civil Provisions - lay screeding	7	04-Aug-16	10-Aug-16	-63		
	Sec II A - CWB A2(2): Civil Provisions - cast cable trough		-	-			_
SIIA14430		8	11-Aug-16	18-Aug-16	-63		
VB B & A2(1) WB B - ELS & Tu	unnel Structure						
CWB B - ELS							
SIIA13562	Sec II A - CWB B Inside Concrete Plug: Jet Grouting at Both Corners	3	23-May-16 A	02-Jun-16	-119		
SIIA13582	Sec II A - CWB B Inside Concrete Plug: Stage 1 Pumping Test	1	03-Jun-16	03-Jun-16	-119		
SIIA13602	Sec II A - CWB B Inside Concrete Plug: Jet Grouting along C4	17	04-Jun-16	20-Jun-16	-119		
SIIA13622	Sec II A - CWB B Inside Concrete Plug: Stage 2 Pumping Test	1	21-Jun-16	21-Jun-16	-119		
SIIA13642	Sec II A - CWB B Inside Concrete Plug: Excavation to formation	3	22-Jun-16	24-Jun-16	-102		
SIIA13662	Sec II A - CWB B Inside Concrete Plug: Cast top layer of concrete plug and blinding layer	2	25-Jun-16	26-Jun-16	-102		
SIIA13682	Sec II A - CWB B: Demolish cocnrete plug (near C4 unit)	18	14-Jul-16	31-Jul-16	-119		
	de Concrete Plug						
SIIA 15120	Sec II A - CWB B Outside Concrete Plug: Install struts for Layer S2 at -1.0 mPD	2	30-May-16 A	01-Jun-16	-99		
SIIA 15160	Sec II A - CWB B Outside Concrete Plug: Removal of diagonal struts for sheetpile at -2.0mPD	5	22-Jun-16	26-Jun-16	-119		
SIIA 15170	Sec II A - CWB B Outside Concrete Plug:Excavate down to -6.7mPD	4	27-Jun-16	30-Jun-16	-119		
SIIA 15180	Sec II A - CWB B Outside Concrete Plug: Install Struts S3 at level	5	01-Jul-16	05-Jul-16	-119		
SIIA 15200	-5.70mPD Sec II A - CWB B Outside Concrete Plug: Formation Excavation	4	06-Jul-16	09-Jul-16	-119		
SIIA 15220	Sec II A - CWB B Outside Concrete Plug:Blinding layer and removal	4	10-Jul-16	13-Jul-16	-119		
CWB B - Exhau	of sheetpile						
SIIA 16100	Sec II A - CWB B Exhaust Air Duct: Formation Excavation	16	22-May-16 A	15-Jun-16	-104		
SIIA 16120	Sec II A - CWB B Exhaust Air Duct: Blinding Layer	6	16-Jun-16	21-Jun-16	-104		
CWB A2(1) & B.	- Tunnel Structure						
SIIA13558	Sec II A - CWB A2(1): base, wall, OHVD & roof (bay 4 - Adjance to	59	20-May-16 A	28-Jul-16	-60		
SIIA13560	Zone A2(2)) Sec II A - CWB B: Air Duct Trough - base & wall (bay 5 - Adajcent to	25	22-Jun-16	16-Jul-16	-104		
SIIA13600	Zone A2(1)) Sec II A - CWB B: base, wall, OHVD & roof (bay 6)	61	17-Jul-16	15-Sep-16	-104		
SIIA13660	Sec II A - CWB B: base, wall, OHVD & roof (bay 7 - Adjacent to C4)	66	02-Aug-16	06-Oct-16	-119		
		00	52 Aug-10	00 OCI-10	119		
WB A2(1) & B - SIIA14460	Associated Facilities Sec II A - CWB A2(1): Civil Provisions - lay screeding	7	29-Jul-16	05-Aug-16	-50		
SIIA14480	Sec II A - CWB A2(1): Civil Provisions - cast cable trough	8	06-Aug-16	15-Aug-16	-50		
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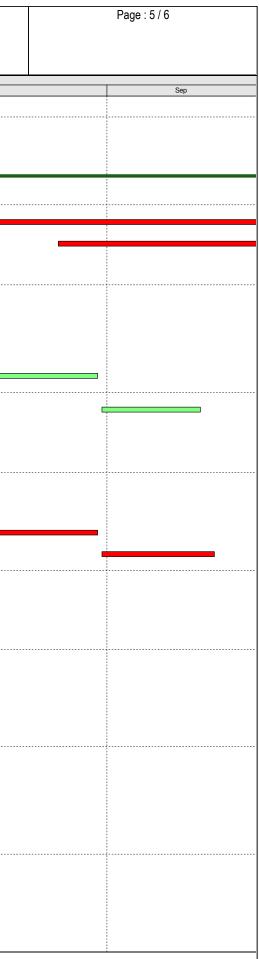
】遗	LEADER 中國建築-利弦 CHINA STATE - LEADER JOI					Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West		
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float	2016 Jun Jui		
C(W) - ELS		ŀ		•	_			
A12121	S bay 1 & 2 Sec II A - CWB CW Bay 1&2: Formation Excavation	7	30-May-16 A	06-Jun-16	-89			
A12161	Sec II A - CWB CW Bay 1&2:Blindling Layer	1	07-Jun-16	07-Jun-16	-89	•		
B C (W) - EL	LS Inside Concrete Plug							
A 12150	Sec II A - CWB CW inside Concret Plug: Jet grouting along C4	19	31-May-16 A	18-Jun-16	-119			
A 12170	Sec II A - CWB CW inside Concret Plug: Stage 2 pumping test	1	19-Jun-16	19-Jun-16	-119	•		
A 12190	Sec II A - CWB CW inside Concret Plug: Formation Excavation	9	20-Jun-16	28-Jun-16	-119			
A 12210	Sec II A - CWB CW inside Concret Plug:Blinding layer	2	29-Jun-16	30-Jun-16	-78	-		
3 C(W) - FL	LS Outide Concrete Plug							
A 13100	Sec II A - CWB CW outside Concrete Plug: Remove struts	11	26-Jun-16	06-Jul-16	-119			
A 13120	Sec II A - CWB CW outside Concrete Plug: Formation excavation (bay	10	07-Jul-16	16-Jul-16	-119			
A 13140	1 & exhaust duct) Sec II A - CWB CW outside Concrete Plug: Remove sheetpile	3	17-Jul-16	19-Jul-16	-119			
A 13160	Sec II A - CWB CW: Remove concrete bulkhead (Adjancent C4 unit)	21	20-Jul-16	09-Aug-16	-119			
(12140	Sec II A - CWB CW: base, wall, OHVD & roof (bay 1)	57	11-Aug-16	06-Oct-16	-119			
12180	Sec II A - CWB CW: base, wall, OHVD & roof (bay 2)	85	08-Jun-16	31-Aug-16	-89			
C (E)								
C(E) - ELS 8	& Tunnel Structure							
C(E) - ELS B C(E) - ELS								
A14100	Sec II A - CWB CE Bay 1: 3 rd layer excavation & Struting	2	07-May-16 A	01-Jun-16	-101	1		
A14120	Sec II A - CWB CE Bay 1 : Formation excavation	7	02-Jun-16	08-Jun-16	-101			
A14140	Sec II A - CWB CE Bay 1 : Blinding layer	2	09-Jun-16	10-Jun-16	-101			
B C(E) - ELS	S - Bay 2 & 3							
A15540	Sec II A - CWB CE Bay 2&3: 3rd layer excavation & Struting	15	26-May-16 A	14-Jun-16	-118			
A15560	Sec II A - CWB CE Bay 2&3: Formation excavation	9	15-Jun-16	23-Jun-16	-118			
A15580	Sec II A - CWB CE Bay 2&3: Blinding layer	1	24-Jun-16	24-Jun-16	-118	•		
A15600	Sec II A - CWB CE: Demolish Bulkhead at C1 Interface	24	25-Jun-16	18-Jul-16	-118			
	inel Structure							
13215	Sec II A - CWB CE: base, wall, OHVD & roof (bay 1) (after MVB Bulkhead Removal)	75	11-Jun-16	24-Aug-16	-101			
13220	Sec II A - CWB CE: base, wall, OHVD & roof (bay 2)	70	25-Jun-16	02-Sep-16	-102			
13280	Sec II A - CWB CE: base, wall, OHVD & roof (bay 3) (after C1 Intrface Bulkhead Removal)	61	12-Jul-16	10-Sep-16	-118			
C(E) - Othe 13320		45	25-Aug-16	08-Oct-16	-99			
		Ъ	23-Aug-10	00-001-10	-33			
C - Exhaus <mark>C - Exhaust</mark>	st Duct t Duct Temp Work & ELS							
12880	Sec II A - Exhaust Duct at Slip Rd3: Temp. Sheetpiling	15	25-Jun-16*	09-Jul-16	-101			
12900	Sec II A - Exhaust Duct at Slip Rd3: Excavation & Shoring	26	10-Jul-16	04-Aug-16	-101			
12910	Sec II A - Exhaust Duct at Slip Rd3: Blinding & Capping Plate	6	05-Aug-16	10-Aug-16	-101	•••••••••••••••••••••••••••••••••••••••		
12920	Sec II A - Exhaust Duct at Slip Rd3: Demolish Bulkheads	22	09-Aug-16	30-Aug-16	-101			
	t Duct Structural Work		-	-				
12938	Sec II A - Exhaust Duct at Slip Rd3: bottom slab, wall and top slab (bay 1) (after Bulkhead Removal)	26	31-Aug-16	25-Sep-16	-101			
12940	Sec II A - Exhaust Duct at Slip Rd3: bottom slab, wall and top slab	26	09-Aug-16	03-Sep-16	-95			
12946	(bay 2) Sec II A - Exhaust Duct at Slip Rd3: bottom slab, wall and top slab	26	19-Aug-16	13-Sep-16	-89			
12948	(bay 3) Sec II A - Exhaust Duct at Slip Rd3: bottom slab, wall and top slab	26	31-Aug-16	25-Sep-16	-101			
-	(bay 4) (after Bulkhead Removal)	-						



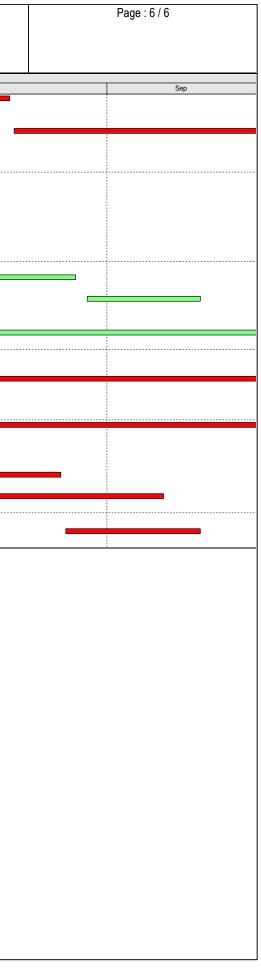
	CHINA STATE - LEADER JC			Float												
	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float		Jun	2016 Jui								
CWB D - Slip Ro CWB D - SP1 -	oad 1 - ELS - ELS - Bay 1 & 2															
SIIA 12482	Sec II A - CWB SR1 Concrete Plug: Sheetpilling at norther corner	2	30-May-16 A	01-Jun-16	-87	🚽										
SIIA 12522	Sec II A - CWB SR1 Concrete Plug: Jet grouting at norther corner	5	02-Jun-16	06-Jun-16	-87											
SIIA 12542	Sec II A - CWB SR1 Concrete Plug: excavation to formation	11	30-May-16 A	10-Jun-16	-91	1										
SIIA 12562	Sec II A - CWB SR1 Concrete Plug: Cast concrete plug	3	11-Jun-16	13-Jun-16	-91		-									
SIIA 12582	Sec II A - CWB SR1 Concrete Plug: Jet grouting along C4 & bpumpiong test	10	15-Jun-16	24-Jun-16	-91											
SIIA 12602	Sec II A - CWB SR1 Bay 1&2: 1st layer excavation & strutting	6	25-Jun-16	30-Jun-16	-91											
SIIA 12622	Sec II A - CWB SR1 Bay 1&2: 2nd layer excavation & strutting	9	01-Jul-16	09-Jul-16	-91											
SIIA 12642	Sec II A - CWB SR1 Bay 1&2: 3rd layer excavation & strutting	8	10-Jul-16	17-Jul-16	-91											
SIIA 12662		4	18-Jul-16	21-Jul-16	-91											
	Sec II A - CWB SR1 Bay 1&2: Formation excaviton					ļ										
SIIA 12682	Sec II A - CWB SR1 Bay 1&2: Blinding layer	1	22-Jul-16	22-Jul-16	-91			•								
CWB D - SR1 - SIIA 12530	- ELS - Bay 3 Sec II A - CWB SR1 Bay 3: 2nd Layer Excavation & Shoringg	4	25-May-16 A	03-Jun-16	971		<u> </u>									
						-										
SIIA 12550	Sec II A - CWB SR1 Bay 3: 3rd Layer Excavation & Shoring	10	10-Jun-16	19-Jun-16	-87											
SIIA 12570	Sec II A - CWB SR1 Bay 3: Formation Excavation	8	25-Jun-16	02-Jul-16	-87											
SIIA 12590	Sec II A - CWB SR1 Bay 3: Blinding Layer	3	03-Jul-16	05-Jul-16	-87											
CWB D - SR1 -	- ELS - Bay 4															
SIIA 12600	Sec II A - CWB SR1 Bay 4: 2nd Layer Excavation & Shoring	4	30-May-16 A	03-Jun-16	-87											
SIIA 12620	Sec II A - CWB SR1 Bay 4: 3rd Layer Excavation & Shoring	5	04-Jun-16	08-Jun-16	-87											
SIIA 12660	Sec II A - CWB SR1 Bay 4: Formation Excavation	5	20-Jun-16	24-Jun-16	-87											
SIIA 12680	Sec II A - CWB SR1 Bay 4: Blinding Layer	1	25-Jun-16	25-Jun-16	-21											
CWB D - SR1 -	- FI S - Ray 5															
SIIA 16140	Sec II A - CWB SR1 Bay 5: Formation Excavation	6	29-May-16 A	05-Jun-16	-26											
SIIA 16160	Sec II A - CWB SR1 Bay 5: Blinding Layer	1	06-Jun-16	06-Jun-16	-26		•									
CWB D - Slip Re	oad 1 - Tunnel Structure															
SIIA12500		50	23-Jul-16	10-Sep-16	-91											
SIIA12540	Sec II A - CWB SR1: base, wall & roof (bay 3)	56	06-Jul-16	30-Aug-16	-87											
SIIA12560	Sec II A - CWB SR1: base, wall & roof (bay 4)	51	26-Jun-16	15-Aug-16	-21											
SIIA12565	Sec II A - CWB SR1: base, wall & roof (bay 5)	24	07-Jun-16	30-Jun-16	-26											
				20 5011 10												
-	oad 1 - Trough / Retaining Wall <mark>ad 1 - Trough/Retaining Wall Temp Work & ELS</mark>					 										
SIIA12760	Sec II A - CWB SR1 Trough & RW: install sheetpile	12	02-Jul-16*	13-Jul-16	-99											
SIIA12780	Sec II A - CWB SR1 Trough & RW: Excavation & Shoring	18	14-Jul-16	31-Jul-16	-99											
	ad 1 - Trough/Retaining Wall Structure															
JIIA12800	Sec II A - CWB SR1 Trough & RW: Trough Structure (bay 1)	15	01-Aug-16	15-Aug-16	-99											
SIIA13720	Sec II A - CWB SR1 Trough & RW: Trough Structure (bay 2)	15	16-Aug-16	30-Aug-16	-99	 										
SIIA13740	Sec II A - CWB SR1 Trough & RW: Trough Structure (bay 3)	15	25-Aug-16	08-Sep-16	-99											
SIIA13800	Sec II A - CWB SR1 Trough & RW: Retaining Walls RW3 (bay 1)	15	21-Aug-16	04-Sep-16	-91											
SIIA13840		15	-	04-Sep-16	-91											
	Sec II A - CWB SR1 Trough & RW: Retaining Walls RW3 (bay 3)	15	21-Aug-16	04-Seb-10	-91											
tion III - Roa adwork & Ut	ad D11 & Part of Road P2, Area 4, Implement 1st Stage ITA tilities					 										
emaining Wor	rks for Handing Over Area 4			07.7	=:											
SIII11100	Sec III - Road D11 Footpath westbound	26	20-May-16 A	30-Jun-16	766			-								
SIII11120	Sec III - Road D11 Footpath eastbound	12	20-May-16 A	14-Jun-16	780											



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T	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float		1	2016	
122	Sec III - Road D11 Central divider	11	23-May-16 A	13-Jun-16	781	_	Jun	Jul	
124	Sec III - Road P2 Central divider	25	31-May-16	29-Jun-16	767				
126	Sec III - Road P2 Foothpath westbound	17	24-May-16 A	20-Jun-16	775				
<mark>after the</mark>)240	Box Culvert Reinstatement [Summary] reinstatement of Box Culvert K	71	02-Aug-16	26-Oct-16	-66				
		/1	02-Aug-10	20-001-10	-00				
	Road A2, A4, A5, Area 11; Implement 2nd Stage ITA								
0260	Sec III A - roadwork and utilities (Zone A1) - Backfill to pavement	42	16-Aug-16	05-Oct-16	-66				
0280	founding level Sec III A - roadwork and utilities (Zone A1) - storm water drain &	42	25-Aug-16	15-Oct-16	-66				
vert I 1 S	sub-soil drain & FRP-L - Bay 8								
	& FRP-L - Bay 8 Structure								
260	Culvert L - Bay 8 - pipe bridging	14	21-Apr-16 A	13-Jun-16	50				
320	Culvert L - bay 8 - construct pile cap	16	14-Jun-16	29-Jun-16	50	_			
322	Culvert L - bay 8 - construct base slab	10	30-Jun-16	09-Jul-16	50	_			
326	Culvert L - Bay 8 - construct wall	24	10-Jul-16	02-Aug-16	50	_			_
				-		_			
328	Culvert L - bay 8 - top slab (& Desilting Openings)	28	03-Aug-16	30-Aug-16	50				
	& FRP-L - Bay 8 Others	40	21.4 10	12.6 16	40				
340	Culvert L - bay 8 - backfill above box section	12	31-Aug-16	13-Sep-16	40				
	& FRP-L - Bay 12 to 13 & FRP-L - Bay 12 to 13 Temp Work & ELS								
500	Culvert L - bay 12 & 13 - pile head treatment	22	25-May-16 A	25-Jun-16	-25				
520	Culvert L - Bay 12 & 13 - precast pile cap PC 9-11	9	16-Jul-16*	26-Jul-16	-41				
						_			
540	Culvert L - Bay 12 & 13 - install pile cap PC 9-11	5	27-Jul-16	01-Aug-16	-41				
	& FRP-L - Bay 12 to 13 Structure	77	21 May 16*	20 Aug 16	66	-			
545	Culvert L - bay 12 & 13 - Construct Precast Units (off site)	77	31-May-16*	30-Aug-16	-66				
548	Culvert L - bay 12 & 13 - Install Precast Units & Joint Survey	14	31-Aug-16	15-Sep-16	-66				
	rea 8B & 10								
	nstruction sting Pile Head and Dry Dock								
3032	Sec VI D - Precast Box 1 (bottom slab and temp bulk head wall)	64	05-Apr-16 A	15-Aug-16	-124				
3052	Sec VID - Precast Box Beam	29	27-Jun-16*	30-Jul-16	-66	_			
Box 1 ELS									
3994	Sec VIC - Excavation at Zone 3	3	20-May-16 A	02-Jun-16	-117		-		
3995	Sec VIC - Removal of Platform of Bored Pile	2	03-Jun-16	04-Jun-16	-117		-		
3998	Sec VIC - Install Column, C1, Struct S1 & RS1	10	06-Jun-16	17-Jun-16	-117				
4000	Sec VIC - Excavation of Fluid	8	18-Jun-16	27-Jun-16	-117				
4020	Sec VIC - Excavation of Rockfill to -7.5mPD	4	28-Jun-16	02-Jul-16	-117				
4040	Sec VIC - 2nd Layer of Strut	6	04-Jul-16	09-Jul-16	-117				
4060	Sec VIC - Excavation down to -11.5mPD	4	11-Jul-16	14-Jul-16	-117				
4080	Sec VIC - 3rd Layer of Strut	7	15-Jul-16	22-Jul-16	-117	-			
4120	Sec VIC - Joint Survey of excavated level	2		25-Jul-16	-117				
			23-Jul-16						
4140	Sec VIC - Tremie concrete at bottom level	5	26-Jul-16	30-Jul-16	-117				
4160	Sec VIC - Joint Survey of concrete level	2	01-Aug-16	02-Aug-16	-117	'		-	-
4180	Sec VIC - Remove Strut S2	2	03-Aug-16	04-Aug-16	-117				
4190	Sec VIC - Reinstatement of platform of bored piles	2	05-Aug-16	06-Aug-16	-117	_			1
	the measurement of platform of bolicu plice	-	55 / Kug 10	55 / log 10	/	1			-



COLC :	Teader 中國建築-利 CHINA STATE - LEADER JC			CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West													
/ ID	Activity Name	Remaining Dur	Early Start	Early Finish	Total Float			2016									
WD-C5040	Sec VI D - tow bottom slab to position	3	16-Aug-16	18-Aug-16	-124		Jun	Jul	Au								
WDTI David Di	emaining Structure																
WD11 B0X 1 K	Sec VI D - construct remaining Box 1 structure	42	19-Aug-16	08-Oct-16	-124												
	, , , , , , , , , , , , , , , , , , ,																
Section IV - Sl																	
	Jtilities (Lung King Street)		00.04	24.14	10												
SIV11000	Sec IV - Stage 1: Roadwork & Utilities (MH1.2 to MH1.3)	1	09-May-16 A	31-May-16	-19												
SIV11020	Sec IV - Stage 2: Roadwork & Utilities (MH1.3 to MH1.4)	31	01-Jun-16	08-Jul-16	-19												
SIV11060	Sec IV - Stage 3: Roadwork & Utilities (MH1.4 to MH1.5)	13	09-Jul-16	23-Jul-16	-19												
Section VII - R	Remainder Works		1														
Landing Steps	s Construction																
Landing Steps																	
SVII11100	Sec VII - Landing steps (BSW9) - construct mass concrete coping	24	01-Aug-16*	27-Aug-16	62												
SVII11120	Sec VII - Landing steps (BSW9) - curing and dismantle formwork	14	29-Aug-16	13-Sep-16	62												
Promenade S	eawall Parapet Construction																
SVII10400	Sec VII - construct block seawall mass concrete coping & backfill to pavement formation	120	15-Jul-16*	05-Dec-16	1												
Section VIII -	Landscape Softworks																
Soft Landscap	ping Works																
SVIII10040	Sec VIII - Trees Planting	163	31-May-16	12-Dec-16	0												
Section X - Pro	otection & Preservation of Trees		1														
Soft Landscap	ping Works																
SX10020	Sec X - Protection & Preservation of Trees	417	31-Jan-13 A	21-Jul-17	0												
O : Constru	ction of Box 4A & 4B																
Box 4A																	
4A10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	16	08-Aug-16*	25-Aug-16	-95												
4A10020	Internal Suspended Slab & Internal Wall	24	12-Aug-16	08-Sep-16	-95												
Box 4B																	
4B10000	Concrete Fill with 300 dia. carrier drain (Approx. 50m)	16	26-Aug-16	13-Sep-16	-87												



ivity ID	Activity Name	Original		Finish							2016					
		Duration				Jun			J		2016		Aug			
Total		1471d	21-Mar-13 A	14-Dec-17												-
DWP-06 (A)	- Update Progress As of 20 Jun 16	1471d	21-Mar-13 A	14-Dec-17												
Key Dates		71d	25-May-16 A	29-Aug-16												-
Stage / Secti	on Completion of Works (Contractual Date yp to EOT-10)	44d	20-Jun-16	03-Aug-16												
KD02C	KD2 - Achievement of Stage 2 (994d) (Plus 6 day EOT)	Od		20-Jun-16*			🔶 KD2 - A	chievement of Stage 2 (99-	4d) (Plus 6 da	yEOT)						
KD06C	KD6 - completion of Section 3 of the Works (1125d) (plus 5 days EOT)	Od		20-Jun-16*			🔶 KD6 - c	completion of Section 3 of th	e Works (112	5d) (plus 5 days EOT)						
KD14C	KD14 - Completion of Section 8 of the Works (1125d)	Od		20-Jun-16*			🔶 KD14 -	Completion of Section 8 of	the Works (11	25d)						
KD12C	KD12 - Completion of Section 7B of the Works (1214d) (Plus 1 day EOT)	Od		17-Jul-16*			4			KD12 - Completion of S	ection 7B of t	he Works (12	14d) (Plus 1 d	lay EOT)		
KD07C	KD7 - Completion of Section 4 of the Works (1226d) (Plus 6 day EOT)	Od		03-Aug-16*							◆ KD;	7 - Completion	of Section 4 c	of the Works (1226d) (Plus	6 (
Stage / Secti	on Completion of Works (Programmed Date)	27d	25-May-16 A	17-Jul-16											1	+
KD2	KD2 - Achievement of Stage 2 (994d) (Plus 5 day EOT)	Od		25-May-16 A	of Stage 2 (9	94d) (Plus 5 d	a <mark>v EOT</mark>)									
KD12	KD12 - Completion of Section 7B of the Works (1214d)	Od		17-Jul-16						KD12 - Completion of S	Section 7B of t	the Works (12	14d)			÷
Handover Da	ites (Contractual Date up to EOT-10)	71d	20-Jun-16	29-Aug-16			-									+
HXVC	Handover of Portion XV	Od		20-Jun-16*			Handov	ver of Portion XV								
HVIC	Handover of Portion VI	Od		20-Jun-16*			Handov	ver of Portion VI								
HVIIC	Handover of Portion VII	Od		20-Jun-16*	_			ver of Portion VII								
HIVBC	Handover of Portion IVB	Od		20-Jun-16*				ver of Portion IVB								
HIIIC	Handover of Portion III	Od		20-Jun-16*				ver of Portion III								
HVBC	Handover of Portion VB	Od Od		20-Jun-16*				ver of Portion VB								
HXIIIBC	Handover of Portion XIIIB	Od Od													♦ Hando	
				29-Aug-16*			1								1	1
HIBC	Handover of Portion IB	Od	00.1.40	29-Aug-16*			1							<u> </u>	Handov	er
	ites (Programmed Date)	Od	20-Jun-16	20-Jun-16												
HVI	Handover of Portion VI	Od		20-Jun-16				ver of Portion VI								
HVII	Handover of Portion VII	0d		20-Jun-16			Handov	ver of Portion VII								
HXV	Handover of Portion XV	Od		20-Jun-16			Handov	ver of Portion XV								
HIII	Handover of Portion III	Od		20-Jun-16			Handov	ver of Portion III								
Works in TS3		328d	17-Sep-15 A	29-Oct-16												-
Works in TS3	3-East	213d	16-Jan-16 A	05-Oct-16												Ì
Cut & Cover	Tunnel Structure	6d	16-Jan-16 A	24-Jun-16 A												+
TS3-East CO	CT - Ch.4500.000 to Ch.4582.140	6d	16-Jan-16 A	24-Jun-16 A												+
TS3 East C	CT - Roof Slab Waterproofing + Screeding	6d	16-Jan-16 A	24-Jun-16 A												+
TS3E_682	0 TS3(E) Waterproofing to Roof Slab - Bay 1 & Bay 5	6d	16-Jan-16 A	24-Jun-16 A				TS3(E) Waterproofing to F	Roof Slab - Ba	y 1 & Bay 5						
Removal of F	Reclamation	90d	25-May-16 A	05-Oct-16												+
TS3E_7630	Achievement of KD2 - Remaining Removal Works for Stage 2	Od		25-May-16 A	2 - Remaining	Removal Wo	rks for Stag	ge 2								
TS3E_8010	Remove Bulkhead between TS3E & TZ2	90d	28-May-16 A	05-Oct-16												-
- Works in TS3	3-West	328d		29-Oct-16									<u> </u>			+
ELS & Rock		252d	· · · · ·	29-Jul-16												+
ELS Fabrica		75d	17-Sep-15 A	22-May-16 A												+
TS3W_451		75d	17-Sep-15 A	22-May-16 A	ation											
		34d	02-May-16 A	-			r									+
TS3-West E														<u> </u>	<u> </u>	
Layer 6	20 East Olde Laure C. Otrata installation	6d		27-May-16 A		- Il e ti e e										
TS3W_866		6d		27-May-16 A	6: Struts inst											
TS3W_868	30 West Side Layer 6: Struts installation	6d	04-May-16 A	24-May-16 A	ruts installation	pn	1							1		

	Actual Work	Page 1 of 17	Date	
	Remaining Work		20-Jun-16	Update
	e e	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
	Critical Remaining Work			
	 Milestone 	Road 8 Section) - 3 Months Rolling Progamme		

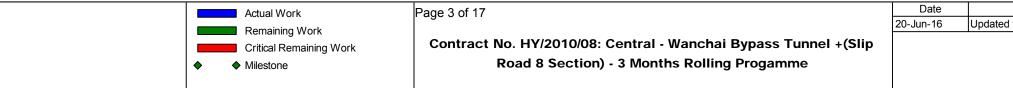
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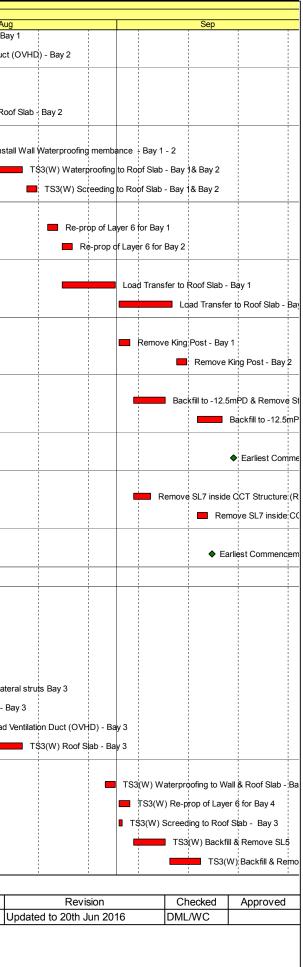
D	Activity Name	Original Duration		Finish		Jun				Jı	ul	20	16	Aug
Layer 7		6d	11-May-16 A	23-Jun-16		Juli				JI				Aug
TS3W_8690	East Side Layer 7: Soft excavation	5d	11-May-16 A	30-May-16 A	Layer 7: Sof	texcavation								
TS3W_8710	West Side Layer 7: Soft excavation	5d	11-May-16 A	01-Jun-16 A	Side Layer 7	Soft excavatio	n							
TS3W_8720	West Side Layer 7: Struts installation	6d	19-May-16 A	23-Jun-16			V	Vest Side I	ayer 7: Struts in	stallation				
TS3W_8700	East Side Layer 7: Struts installation	6d	20-May-16 A	07-Jun-16 A	East S	ide Layer 7: Stru	ts installat	qn						
Layer 8		11d	26-May-16 A	30-Jun-16							 			
TS3W_8730	East Side Layer 8: Soft excavation	5d	26-May-16 A	07-Jun-16 A	East S	ide Layer 8: Sof	excavatio	n						
- TS3W_8750	West Side Layer 8: Soft excavation	5d	01-Jun-16 A	24-Jun-16				West Sid	e Layer 8: Soft e	xcavation				
- TS3W 8740	East Side Layer 8: Struts installation	6d	05-Jun-16 A	16-Jun-16 A	_	East	Side Layer	1						
TS3W_8760	West Side Layer 8: Struts installation	6d	24-Jun-16	30-Jun-16					West Side Lay	/er 8: Struts ins	stallation			
Formation Level		34d	20-Jun-16	29-Jul-16							-			
TS3W_8770	East Side Soft Excavation to Formation	5d	20-Jun-16	24-Jun-16				Fast Side	Soft Excavation					
TS3W_8800	East Side - Commence Blinding (Zone A & Zone B)	Od	25-Jun-16		_			1	e - Commence	1	1]	
TS3W_8780	West Side Soft Excavation to Formation	4d	02-Jul-16	06-Jul-16	-			Last 310		est Side Soft E			1	
_				13-Jul-16	_								ormation	
TS3W_8790	West Side Rock Excavation to Formation	6d	07-Jul-16 14-Jul-16		_					vve	SI DIUE ROCK	Excavation to F		arrettes (4 Nos.) Constructed by O
TS3W_8810	Remaining barrettes (4 Nos.) Constructed by Open Cut	16d		29-Jul-16	_					_		1		
TS3W_8820	West Side - Commence Blinding (Zone C & Zone D)	Od	25-Jul-16									West Side	- Commen	ce Blinding (Zone C & Zone D)
SR8 at TS3W Junc		30d	20-May-16 A	25-Jul-16										
A69810	Remove Bulkhead between TS3W & SR8	30d	20-Jun-16	25-Jul-16				1			-	Remove	Bulkhead be	tween TS3W & SR8
Formation Level		0d	20-May-16 A	20-May-16 A										
TS3W_8940	Commence Blinding Concrete	0d	20-May-16 A		9									
Cut & Cover Tunne	I Structure	110d	25-May-16 A	29-Oct-16										
TS3W_2180	Remove Bulkhead between TS3W & TS3E	90d	14-Jul-16	29-Oct-16										
Method Statement		24d	25-May-16 A	18-Jul-16										
TS3W_2135	(01)RC works method statement - submission	24d	25-May-16 A	25-May-16 A	od statemer	nt - submission								
TS3W_2140	(01)RC works method statement - review and approval by AECOM	24d	20-Jun-16	18-Jul-16		4					(01)R0	works method	statement -	review and approval by AECOM
TS3-West CCT		77d	25-Jun-16 A	24-Sep-16										
Zone A (Type 4) -	Bay 1 to Bay 2	68d	28-Jun-16 A	17-Sep-16										
Blinding + Water	proofing to Bay 1 to Bay 2	20d	28-Jun-16 A	29-Jun-16				1						
	TS3(W) - Waterproofing Bay 1- Bay 2	2d	28-Jun-16	29-Jun-16					TS3(W) - Water	proofing Bay	1- Bay 2		L .	
TS3W_5620.10	TS3(W) CCT Blinding - Bay 1-2	2d	11-Jul-16 A	27-Jun-16										
Base Slab - Bay	1 to Bay 2	12d	30-Jun-16	13-Jul-16							 			
TS3W_5760	TS3(W) Base Slab + Drainage - Bay 1 (Eastbound & Westbound)	6d	30-Jun-16	06-Jul-16	-				TS	(W) Base SI	ab + Drainag	e - Bay 1 (Eastb	ound & We	stbound)
- TS3W_5765	TS3(W) Base Slab + Drainage - Bay 2 (Eastbound & Westbound)	6d	07-Jul-16	13-Jul-16	-					l'internet	-			tbound & Westbound)
_	etween Base Slab	7d	07-Jul-16	14-Jul-16							<u> </u>			
A7630	Concrete Strut between Base Slab of Est & West Bound - Bay 1	1d	07-Jul-16	07-Jul-16	-					Concrete Strut	between Bas	e Slab of Est &	West Bound	t - Bay 1
A7640	Concrete Strut between Base Slab of Est & West Bound - Bay 2	1d	14-Jul-16	14-Jul-16	_									& West Bound - Bay 2
	ng & Lateral Struts - Layer SL5 & SL6	8d	08-Jul-16	16-Jul-16										
TS3W_6536	TS3(W) Layer 5&6: Removal of waling & lateral struts Bay 1	2d	08-Jul-16	09-Jul-16	_				_	TS3/M/)	aver 58.6. Do	moval of waling &	lateral etri	te Bay 1
			15-Jul-16		_						Ĩ			
TS3W_6537	TS3(W) Layer 5&6 / 6&7: Removal of waling & lateral struts Bay 2	2d		16-Jul-16							1 33(VV) L	ayer 300 / 60/	nemoval of	waling & lateral struts Bay 2
Walls - Bay 1 to		11d	11-Jul-16	22-Jul-16							+00/4/2			
TS3W_5950	TS3(W) Intermediate Walls - Bay 1	5d	11-Jul-16	15-Jul-16	_						IS3(W) Inte	ermediate Walls		
TS3W_5954	TS3(W) Intermediate Walls - Bay 2	5d	18-Jul-16	22-Jul-16								TS3(W) Interm	nediate Wal	s - Bay 2
OHVD - Bay 1 to	Bay 2	11d	16-Jul-16	28-Jul-16		i T		1				1 I		

Actual Work	Page 2 of 17	Date 20-Jun-16	Update
 Remaining Work Critical Remaining Work Milestone 	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme		

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Activity	/ ID	Activity Name	Original Duration	Start	Finish			201	16	
	TS3W_6200	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 1	5d	16-Jul-16	21-Jul-16	Jun			d Ventilation Duc	Aug ct (OVHD) - Bay 1
	TS3W_6210	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 2	5d	23-Jul-16	28-Jul-16	-		т\$з	(W) Overhead V	Ventilation Duct (O\
	Roof Slab - Bay	1 to Bay 2	16d	22-Jul-16	09-Aug-16					
	TS3W_6390	TS3(W) Roof Slab - Bay 1	8d	22-Jul-16	30-Jul-16	_			T\$3(W) Roof Sla	ab - Bay 1
	TS3W_6400	TS3(W) Roof Slab - Bay 2	8d	01-Aug-16	09-Aug-16					TS3(W) Roof SI
	Roof Waterproo	fing + Screeding - Bay 1 to Bay 2	10d	10-Aug-16	20-Aug-16					
	TS3W_6530	Install Wall Waterproofing membance - Bay 1 - 2	4d	10-Aug-16	13-Aug-16					Install W
	TS3W_8960	TS3(W) Waterproofing to Roof Slab - Bay 1& Bay 2	4d	15-Aug-16	18-Aug-16					_
	TS3W_8970	TS3(W) Screeding to Roof Slab - Bay 1& Bay 2	2d	19-Aug-16	20-Aug-16					
	Re-prop for Lay	er 6	4d	22-Aug-16	25-Aug-16			/		
	A7650	Re-prop of Layer 6 for Bay 1	2d	22-Aug-16	23-Aug-16					
	A7660	Re-prop of Layer 6 for Bay 2	2d	24-Aug-16	25-Aug-16					
	Load Transfer to	PRoof for King Post	14d	24-Aug-16	08-Sep-16					
	A7550	Load Transfer to Roof Slab - Bay 1	7d	24-Aug-16	31-Aug-16	_				
	A7560	Load Transfer to Roof Slab - Bay 2	7d	01-Sep-16	08-Sep-16	-				
	Remove K-post	inside CCT Structure	9d	01-Sep-16	10-Sep-16					
	A7690	Remove King Post - Bay 1	2d	01-Sep-16	02-Sep-16	_				
	A7700	Remove King Post - Bay 2	2d	09-Sep-16	10-Sep-16	-				
	Backfill & Remo	ve SL4	11d	03-Sep-16	15-Sep-16					
	A7670	Backfill to -12.5mPD & Remove Strut SL4 - Bay 1	4d	03-Sep-16	07-Sep-16	_				
	A7680	Backfill to -12.5mPD & Remove Strut SL4 - Bay 2	4d	12-Sep-16	15-Sep-16	-				
	Commence Rem	noval of Reclamation - Backfill & Remove SL3	Od	17-Sep-16	17-Sep-16					
	A7580	Earliest Commencement of Removal of Reclamtion for Bay 1 - 2	Od	17-Sep-16						
	Remove K-post,	SL8 & Re-prop of SL6	9d	03-Sep-16	13-Sep-16					
	A7600	Remove SL7 inside CCT Structure (RE-prop of SL6 Left in the Backfilling) - Bay 1	2d	03-Sep-16	05-Sep-16					
	A7710	Remove SL7 inside CCT Structure (RE-prop of SL6 Left in the Backfilling) - Bay 2	2d	12-Sep-16	13-Sep-16					
	Commence Utili	ty Trough	Od	14-Sep-16	14-Sep-16					
	A7610	Earliest Commencement of Utility Trough - Bay 1 - 2	Od	14-Sep-16						
	Zone B (Type 3) -	Bay 3	69d	25-Jun-16	15-Sep-16					
	TS3(W) - CCT St	ructure	46d	25-Jun-16	18-Aug-16					
	TS3W_5670	TS3(W) CCT Blinding - Bay 3	1d	25-Jun-16	25-Jun-16		TS3(W) CCT Blinding - Bay 3		N I	
	TS3W_5680	TS3(W) - Waterproofing Bay 3	2d	27-Jun-16	28-Jun-16	_	T\$3(W) - Waterproofing Bay 3			
	TS3W_5690	TS3(W) Base Slab + Drainage - Bay 3	6d	14-Jul-16	20-Jul-16			TS3(W) Base Slab	+ Drainage - Bay	ıy 3
	TS3W_5700	TS3(W) Concrete Strut - Bay 3	1d	21-Jul-16	21-Jul-16			T\$3(W) Concrete	e Strut - Bay 3	
	TS3W_5710	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 3	2d	22-Jul-16	23-Jul-16			TS3(W) Laye	r 6&7: Removal ،	of waling & lateral
	TS3W_5960	TS3(W) Intermediate Walls - Bay 3	5d	26-Jul-16	30-Jul-16				S3(W) Interme	ediate Walls - Bay 3
	TS3W_6220	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 3	5d	01-Aug-16	05-Aug-16				TS3()	(W) Overhead Vent
	TS3W_6410	TS3(W) Roof Slab - Bay 3	8d	10-Aug-16	18-Aug-16				N I	
	Preparation Prio	r to Removal of Reclamation	14d	30-Aug-16	15-Sep-16					
	TS3W_6411	TS3(W) Waterproofing to Wall & Roof Slab - Bay 3	2d	30-Aug-16	31-Aug-16					
	TS3W_6413	TS3(W) Re-prop of Layer 6 for Bay 4	2d	01-Sep-16	02-Sep-16					
	TS3W_6412	TS3(W) Screeding to Roof Slab - Bay 3	1d	01-Sep-16	01-Sep-16					
	TS3W_6414	TS3(W) Backfill & Remove SL5	4d	03-Sep-16	07-Sep-16	-				
	TS3W_6414A	TS3(W) Backfill & Remove SL4	4d	08-Sep-16	12-Sep-16					





	Activity Name	Original	Start	Finish						16				
		Duration			Jun			Ju)16		Aug		
TS3W_6415	Earliest Commencement of Removal of Reclamtion for Bay 3	Od	13-Sep-16											
TS3W_6416	Remove SL8 inside CCT Structure & Remove Re-prop SL6	2d	13-Sep-16	14-Sep-16										
TS3w_6417	Earliest Commencement of Utility Trough - Bay 3	Od	15-Sep-16											
Cross Passage an	nd Egress Passage (CP31/EP02)	43d	01-Aug-16	19-Sep-16										
Cross Passage C		25d	01-Aug-16	29-Aug-16									1	
	TS3(W) Cross Passage CP31 - Blinding + Waterproofing	4d	01-Aug-16	04-Aug-16							r\$3(W) Cross		1 Blinding	+ 1/0/01/
_			-)		•		
_	TS3(W) Cross Passage CP31 - Base Slab + Drainage	5d	05-Aug-16	10-Aug-16						-	153		assage CP3	
TS3W_7910	TS3(W) Cross Passage CP31 - Walls	6d	11-Aug-16	17-Aug-16								TS3	B(W) Cross F	'assa
TS3W_7920	TS3(W) Cross Passage CP31 - Roof Slab	7d	18-Aug-16	25-Aug-16									T	Г\$́З(V
TS3W_7930	TS3(W) Cross Passage CP31 - Waterproofing Membrane + Screeding	3d	26-Aug-16	29-Aug-16									-	
Egress Passage	EP-02	43d	01-Aug-16	19-Sep-16										
TS3W_7940	TS3(W) Egress Passage EP02 - Blinding + Waterproofing for Base Slab	4d	01-Aug-16	04-Aug-16							r\$3(W) Egress	Passage EF	02 - Blinding	ן + W
Stair Well		33d	05-Aug-16	12-Sep-16										
	TS3(W) Egress Passage EP02 Stairwell & Passage Gallery - Base Slab	5d	05-Aug-16	10-Aug-16	9						TS3	W) Earess F	Passage EP0	j J2 St
_	TS3(W) Egress Passage EP02 Stairwell - Walls upto -21.32 mPD	5d	12-Aug-16	17-Aug-16									(W) Egress	
			-	-								153		
-	TS3(W) Egress Passage EP02 Stairwell - Floor Slab and Stair Case	6d	18-Aug-16	24-Aug-16										53(W
TS3W_7960B	TS3(W) Egress Passage EP02 Stairwell - Walls upto Roof Soffit	5d	25-Aug-16	30-Aug-16										-
TS3W_7965	TS3(W) Egress Passage EP02 Stairwell - Roof Slab	6d	31-Aug-16	06-Sep-16										
TS3W_7985	TS3(W) Egress Passage EP02 to SR8 - Stairs	5d	07-Sep-16	12-Sep-16										
Lower Part of E	gress Passage Gallery	11d	25-Aug-16	06-Sep-16										-
TS3W_7980	TS3(W) Egress Passage EP02 to SR8 - Walls Structure	5d	25-Aug-16	30-Aug-16										<u> </u>
TS3W_7990	TS3(W) Egress Passage EP02 to SR8 Roof Slab	6d	31-Aug-16	06-Sep-16										
Upper Egress P	assage EP-02 on top of CCT Jointing to SR8	11d	07-Sep-16	19-Sep-16									1	
	TS3(W) Egress Passage EP02 to SR8 Access Well - Walls Structure	5d	07-Sep-16	12-Sep-16										
_	TS3(W) Egress Passage EP02 to SR8 Access Well - Roof slab	6d	13-Sep-16	19-Sep-16	-									
													1	
Zone C (Type 2) -		77d	25-Jun-16	24-Sep-16										
Blinding + Water	proofing to Bay 4 to Bay 7	8d	25-Jun-16	04-Jul-16										
TS3W_5620.30	TS3(W) CCT Blinding - Bay 4- Bay 7	4d	25-Jun-16	29-Jun-16		TS:	3(W) CCT Blind	ing - Bay 4-	Bay 7					
TS3W_5620.40	TS3(W) - Waterproofing Bay 4- Bay 7	4d	30-Jun-16	04-Jul-16			TS3(W) -	Waterproof	ng Bay 4- Bay 7					
Base Slab - Bay	4 to Bay 7 (TS3W)	12d	05-Jul-16	18-Jul-16										-
TS3W_8571	TS3(W) Base Slab + Drainage - Bay 4 Eastbound	6d	05-Jul-16	11-Jul-16				TS3(W)	Base Slab + Drainage - Ba	4 Eastbou	ınd			
TS3W_8575	TS3(W) Base Slab + Drainage - Bay 6 Eastbound	6d	05-Jul-16	11-Jul-16	1			TS3(W)	Base Slab + Drainage - Ba	6 Eastbou	ind			
	TS3(W) Base Slab + Drainage - Bay 4 Westbound	6d	05-Jul-16	11-Jul-16	-				Base Slab + Drainage - Ba					
-	TS3(W) Base Slab + Drainage - Bay 6 Westbound	6d	05-Jul-16	11-Jul-16				. ,	Base Slab + Drainage - Ba					
								- 100(WV)	_			d		
	TS3(W) Base Slab + Drainage - Bay 5 Eastbound	6d	12-Jul-16	18-Jul-16					TS3(W) Base Slab +	-				
	TS3(W) Base Slab + Drainage - Bay 5 Westbound	6d	12-Jul-16	18-Jul-16					TS3(W) Base Slab +	-				
TS3W_8577	TS3(W) Base Slab + Drainage - Bay 7 Eastbound	6d	12-Jul-16	18-Jul-16					TS3(W) Base Slab +	Drainage - I	Bay 7 Eastbour	d		
TS3W_8576	TS3(W) Base Slab + Drainage - Bay 7 Westbound	6d	12-Jul-16	18-Jul-16					TS3(W) Base Slab +	Drainage - I	Bay 7 Westbou	nd		
Concrete Strut -	Bay 4 to Bay 7	7d	12-Jul-16	19-Jul-16									-	
A6980	TS3(W) Concrete Strut - Bay 4	1d	12-Jul-16	12-Jul-16				TS3(V	 V) Concrete Strut - Bay 4 					
A7020	TS3(W) Concrete Strut - Bay 6	1d	12-Jul-16	12-Jul-16	1			TS3(V	 V) Concrete Strut - Bay 6 					
	TS3(W) Concrete Strut - Bay 5	1d	19-Jul-16	19-Jul-16					TS3(W) Concrete S	trut - Bay 5				
	TS3(W) Concrete Strut - Bay 7	1d	19-Jul-16	19-Jul-16	-				TS3(W) Concrete S					
										au - Day /			-	
	ng & Lateral Struts - Layer SL6 & SL7	8d	12-Jul-16	21-Jul-16									1	

Actual Work	Page 4 of 17	Date 20-Jun-16	R Updated to 20
Remaining Work Critical Remaining Work ♦ ♦ ♦	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme	20-3011-10	

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	T\$3(W) Cross	Passage CP	31 - Blinding +	Waterp	roofin	g						
	TS3	(W) Cross F	assage CP31	- Base	Slab +	Drain	age					
	_	TS:	(W) Cross Pa	assage	CP31	- Walls	3					
		_	т	33(W) C	ross	Passa	ge CP3	1 - Roo	f Slab			
				т:	53(W)	Cross	Passa	ge CP3	1 - W	aterpr	oofing	М́е
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_	T\$3(W) Egress	Passage FF	2 02 - Blindina	+ Water	nroof	ing for	Base S	lah				
					p. co.		20000					-
_	TO			Chainer				Dee	- 01-1			
-	153		Passage EP02									
		TS:	3(W) Egress F	-								
			TS3	(W) Eg	ress F	Passag	e EP02	2 Stairwe	ell - Fl	por Sla	ab and	Sta
			-		TS3(V	V) Egr	ess Pa	ssage E	P02 \$	Stairwe	ell - Wa	l∥s ı
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tivity ID)	Activity Name	Original Duration	Start	Finish		2016
	TS3W_7190	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 4	2d	12-Jul-16	14-Jul-16	Jun	Jul Aug T\$3(W) Layer \$&7: Removal of valing & lateral struts Bay 4
	TS3W_7190	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 4	2d 2d	12-Jul-16	14-Jul-16		T\$3(W) Layer 6&7: Removal of valing & lateral struts Bay 4
	TS3W_7290	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 5	2d 2d	12-Jul-16	21-Jul-16		T\$3(W) Layer 687 Removal of waling & lateral struts Eaver
	TS3W_7310	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 7	2d	20-Jul-16	21-Jul-16		T\$3(W) Layer 6&7: Removal of waling & lateral struts E
	Walls - Bay 4 to		11d	14-Jul-16	27-Jul-16		
	TS3W_8857	TS3(W) Intermediate Walls - Bay 6 Eastbound	5d	14-Jul-16	20-Jul-16		TS3(W) Intermediate Walls - Bay 6 Eastbound
	TS3W_8795	TS3(W) Intermediate Walls - Bay 4 Eastbound	5d	14-Jul-16	20-Jul-16		TS3(W) Intermediate Walls - Bay 4 Eastbound
	TS3W_8867	TS3(W) Intermediate Walls - Bay 6 Westbound	5d	14-Jul-16	20-Jul-16		TS3(W) Intermediate Walls - Bay 6 Westbound
	TS3W_8827	TS3(W) Intermediate Walls - Bay 4 Westbound	5d	14-Jul-16	20-Jul-16		TS3(W) Intermediate Walls - Bay 4 Westbound
	TS3W_8847	TS3(W) Intermediate Walls - Bay 5 Westbound	5d	21-Jul-16	27-Jul-16		TS3(W) Intermediate Walls - Bay 5 Westbo
	TS3W_8837	TS3(W) Intermediate Walls - Bay 5 Eastbound	5d	21-Jul-16	27-Jul-16		TS3(W) Intermediate Walls - Bay 5 Eastbou
	TS3W_8869	TS3(W) Intermediate Walls - Bay 7 Westbound	5d	22-Jul-16	27-Jul-16		TS3(W) Intermediate Walls - Bay 7 Westbo
	TS3W_8868	TS3(W) Intermediate Walls - Bay 7 Eastbound	5d	22-Jul-16	27-Jul-16		TS3(W) Intermediate Walls - Bay 7 Eastbou
	Fill Void Betwe	en Walls Including Waterproofing on Wall - Bay 4 to Bay 7	9d	20-Jul-16	30-Jul-16		
	TS3W_8817	Install Waterproofing membance and Fill Void Between Walls - Bay 6	3d	20-Jul-16	23-Jul-16		Install Waterproofing membance and Fill Void Betwe
	TS3W_8797	Install Waterproofing membance and Fill Void Between Walls - Bay 4	3d	20-Jul-16	23-Jul-16	1	Install Waterproofing membance and Fill Void Betwe
	TS3W_8807	Install Waterproofing membance and Fill Void Between Walls - Bay 5	3d	27-Jul-16	30-Jul-16	1	Install Waterproofing membance and F
	TS3W_8818	Install Waterproofing membance and Fill Void Between Walls - Bay 7	3d	28-Jul-16	30-Jul-16	1	Install Waterproofing membance and F
	Backfill to -24n	nPD (About Bottom Slab of SR8)	4d	01-Aug-16	04-Aug-16		
	TS3W_9240	TS3(W) Backfill -23.0mPD Bay 6	4d	01-Aug-16	04-Aug-16		T\$3(W) Backfill -23.0mPD B
	OHVD - Bay 4	to Bay 7 (T\$3W)	11d	20-Jul-16	02-Aug-16		
	TS3W_9260	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 4 Westbound	5d	20-Jul-16	26-Jul-16		TS3(W) Cverhead Ventilation Duct (OVHD) -
	TS3W_9290	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 6 Westbound	5d	20-Jul-16	26-Jul-16		TS3(W) Cverhead Ventilation Duct (OVHD) -
	TS3W_9270	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 4 Eastbound	5d	20-Jul-16	26-Jul-16		TS3(W) Cverhead Ventilation Duct (OVHD) -
	TS3W_9300	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 6 Eastbound	5d	20-Jul-16	26-Jul-16		TS3(W) Cverhead Ventilation Duct (OVHD) -
	- TS3W_9280A	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 5 Westbound	5d	27-Jul-16	02-Aug-16		TS3(W) Overhead Ventilation Du
	- TS3W_9280B	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 5 Eastbound	5d	27-Jul-16	02-Aug-16		TS3(W) Overhead Ventilation Du
	TS3W 9302	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 7 Eastbound	5d	28-Jul-16	02-Aug-16		TS3(W) Overhead Ventilation Du
	TS3W_9301	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 7 Westbound	5d	28-Jul-16	02-Aug-16		TS3(W) Overhead Ventilation Du
		y 4 to Bay 7 (TS3w)	21d	26-Jul-16	19-Aug-16		
	TS3W 6430	TS3(W) Roof Slab - Bay 4 Westbound & SR8 Base Slab + Drainage - Bay S4a	8d	26-Jul-16	04-Aug-16		T\$3(W) Roof Slab - Bay 4 W
	-				-		T\$3(W) Roof Slab - Bay 4 E
	TS3W_6435	TS3(W) Roof Slab - Bay 4 Eastbound	b8	26-Jul-16	04-Aug-16		
	TS3W_9310	TS3(W) Roof Slab - Bay 5 Eastbound	8d	04-Aug-16	13-Aug-16		TS3(W) Ro
	TS3W_9320	TS3(W) Roof Slab - Bay 6 Westbound & SR8 Base Slab + Drainage - Bay S6	8d	05-Aug-16	13-Aug-16		TS3(W) Ro
	TS3W_6440	TS3(W) Roof Slab - Bay 5 Westbound & SR8 Base Slab + Drainage - Bay S5	8d	05-Aug-16	15-Aug-16		TS3(W
	TS3W_9331	TS3(W) Roof Slab - Bay 7 Westbound & SR8 Base Slab + Drainage - Bay S7	8d	06-Aug-16	15-Aug-16		TS3(W
	TS3W_9332	TS3(W) Roof Slab - Bay 7 Eastbound	8d	06-Aug-16	15-Aug-16		TS3(W
	TS3W_9330	TS3(W) Roof Slab - Bay 6 Eastbound	8d	11-Aug-16	19-Aug-16		
	Re-prop for La	yer 6	13d	04-Aug-16	19-Aug-16		
	A7030	Water Proof to Walls & Re-prop of Layer 6 for Bay 4	4d	04-Aug-16	09-Aug-16		Water Proof to Wa
	A7040	Water Proof to Walls & Re-prop of Layer 6 for Bay 5	4d	15-Aug-16	19-Aug-16	1	
	Removal of Wa	ling & Struts - Layer SL4 & SL5	25d	09-Aug-16	07-Sep-16		
	TS3W_9530	SR8 Layer 4&5: Removal of waling & lateral struts Bay 4	4d	09-Aug-16	13-Aug-16		SR8 Layer
	TS3W_9560	SR8 Layer 4&5: Removal of waling & lateral struts Bay 7	4d	16-Aug-16	19-Aug-16	1	

	Actual Work	Page 5 of 17	Date	
	Remaining Work		20-Jun-16	Updated
	8	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		-
I	Critical Remaining Work			
•	Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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mPD Bay 6		
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tion Duct (OVHD) - Bay 7 Westbound		
ay 4 Westbound & SR8 Base Slab + Dra	iinage - Bay S4a	
ay 4 Eastbound		
W) Roof Slab - Bay 5 Eastbound		
W) Roof Slab - Bay 6 Westbound & SR	3 Base Slab + Dra	inage - Bay S6
S3(W) Roof Slab - Bay 5 Westbound &	SR8 Base Slab +	Drainage - Bav \$5
S3(W) Roof Slab - Bay 7 Westbound &	SNO DASE SIAD +	Drainage - Bay \$7
S3(W) Roof Slab - Bay 7 Eastbound		
TS3(W) Roof Slab - Bay 6 Eastbo	ound	
to Walls & Re-prop of Layer 6 for Bay 4		
Water Proof to Walls & Re-prop c	of Layer 6 for Bay 5	5
Layer 4&5: Removal of waling & lateral	struts Bay 4	
SR8 Layer 4&5: Removal of walir	ng & lateral struts I	Bay 7
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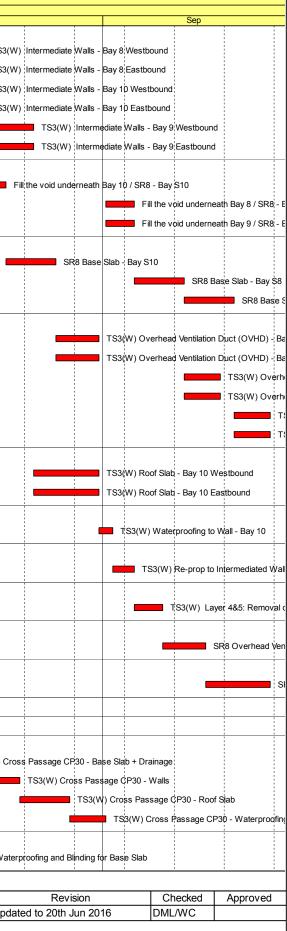
Activity	/ ID	Activity Name	Original Duration		Finish			20	16	
	TS3W_9550	SR8 Layer 4&5: Removal of waling & lateral struts Bay 6	4d	24-Aug-16	27-Aug-16	Jun	J	<mark>ll</mark> : : :	; ;	Aug
	TS3W_9540	SR8 Layer 4&5: Removal of waling & lateral struts Bay 5	4d	03-Sep-16	07-Sep-16					
		to Bay S7 (SR8)	26d	13-Aug-16	13-Sep-16					;
	TS3W_9000	SR8 Wall Bay S4a	5d	13-Aug-16	19-Aug-16					į
	TS3W_9007	SR8 Wall Bay S6	5d	29-Aug-16	02-Sep-16					
	TS3W_9017	SR8 Wall Bay S7	5d	03-Sep-16	08-Sep-16	_				
	TS3W_9002	SR8 Wall Bay S5	5d	08-Sep-16	13-Sep-16	_				
		a to Bay S7 (SR8)	25d	19-Aug-16	19-Sep-16					
				-						
	TS3W_9274	SR8 Overhead Ventilation Duct (OVHD) - Bay S4a	5d	19-Aug-16	25-Aug-16					
	TS3W_9276	SR8 Overhead Ventilation Duct (OVHD) - Bay S6	5d	03-Sep-16	08-Sep-16				/	
	TS3W_9286	SR8 Overhead Ventilation Duct (OHVD) - Bay S7	5d	09-Sep-16	14-Sep-16					
	TS3W_9275	SR8 Overhead Ventilation Duct (OVHD) - Bay S5	5d	14-Sep-16	19-Sep-16					<u> </u>
		S4a to Bay S7 (SR8)	13d	09-Sep-16	24-Sep-16					ĺ
	TS3W_9020	SR8 Roof Bay S6	8d	09-Sep-16	17-Sep-16					ĺ
	TS3W_9030	SR8 Roof Bay S7	8d	15-Sep-16	24-Sep-16					
		fing + Screeding - Bay 4 to Bay 7	16d	16-Aug-16	02-Sep-16			N		
	TS3W_8953	TS3(W) Waterproofing to Roof Slab - Bay 4 to Bay 7 Westbound	8d	16-Aug-16	24-Aug-16					
	TS3W_8951	TS3(W) Waterproofing to Roof Slab - Bay 4 to Bay 7 Eastbound	8d	20-Aug-16	29-Aug-16					
	TS3W_8955	TS3(W) Screeding to Roof Slab - Bay 4 to Bay 7 Westbound	4d	25-Aug-16	29-Aug-16					
	TS3W_8952	TS3(W) Screeding to Roof Slab - Bay 4 to Bay 7 Eastbound	4d	30-Aug-16	02-Sep-16				/	
	Load Transfer to	o Roof for King Post	14d	03-Sep-16	20-Sep-16					
	A7410	Load Transfer to Roof Slab - Bay 4	7d	03-Sep-16	10-Sep-16					
	A7430	Load Transfer to Roof Slab - Bay 6	7d	03-Sep-16	10-Sep-16					
	A7420	Load Transfer to Roof Slab - Bay 5	7d	12-Sep-16	20-Sep-16					ĺ
	A7620	Load Transfer to Roof Slab - Bay 7	7d	12-Sep-16	20-Sep-16					
	Zone D (Type 1b)) - Bay 8 to Bay 10	52d	25-Jul-16	24-Sep-16					
	Blinding + Wate	rproofing to Bay 8 to Bay 10	4d	25-Jul-16	29-Jul-16					
	TS3W_5610.20	TS3(W) CCT Blinding - Bay 8 - 10	3d	25-Jul-16	28-Jul-16			TS3(W) CCT Blinding - Bay 8	- 10
	TS3W_5610.20	A TS3(W) - Waterproofing Bay 8 - 10	3d	26-Jul-16	29-Jul-16			TS	3(W) - Waterproofing Bay	y 8 - 10
	Base Slab - Bay	8 to Bay 10	12d	29-Jul-16	12-Aug-16					
	TS3W_9590	TS3(W) Base Slab + Drainage - Bay 8 Eastbound	6d	29-Jul-16	05-Aug-16			-	TS3(W) Base	Slab + Dra
	TS3W_8745	TS3(W) Base Slab + Drainage - Bay 8 Westbound	6d	29-Jul-16	05-Aug-16			-	TS3(W) Base	Slab + Dra
	TS3W_9620	TS3(W) Base Slab + Drainage - Bay 10 Westbound	6d	29-Jul-16	05-Aug-16			-	TS3(W) Base	Slab + Dra
	TS3W_9630	TS3(W) Base Slab + Drainage - Bay 10 Eastbound	6d	29-Jul-16	05-Aug-16				TS3(W) Base	Slab + Dra
	TS3W_9600	TS3(W) Base Slab + Drainage - Bay 9 Westbound	6d	05-Aug-16	12-Aug-16					S3(W) Ba
	TS3W_9610	TS3(W) Base Slab + Drainage - Bay 9 Eastbound	6d	05-Aug-16	12-Aug-16					S3(W) Ba
	Concrete Strut	between Base Slab	7d	05-Aug-16	13-Aug-16					
	A7070	TS3(W) Concrete Strut - Bay 8 Between Eastbound & Westbound	1d	05-Aug-16	06-Aug-16				TS3(W) Con	crete Strut
	A7090	TS3(W) Concrete Strut - Bay 10 Between Eastbound & Westbound	1d	05-Aug-16	06-Aug-16	1			TS3(W) Con	crete Struf
	A7080	TS3(W) Concrete Strut - Bay 9 Between Eastbound & Westbound	1d	12-Aug-16	13-Aug-16	1				TS3(W) C
	Removal of Wal	ing & Lateral Struts - Layer SL6 & SL7	8d	06-Aug-16	16-Aug-16					
	TS3W_9640	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 8	2d	06-Aug-16	09-Aug-16				TS3(W	() Layer 68
	TS3W_9660	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 10	2d	06-Aug-16	09-Aug-16				TS3(W) Layer 68
	TS3W_9650	TS3(W) Layer 6&7: Removal of waling & lateral struts Bay 9	2d	13-Aug-16	16-Aug-16					тsз
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Actual Work	Page 6 of 17	Date 20-Jun-16	Updated
Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme		

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SR8	laver	485 R	emova	l of walir	na & k	ateral st	ruts P	łav
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		:	SR8	Layer 4	4&5: F	Remova	l of wa	alin
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SR8 Wall Bay S4a		1						1
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		SR8 W	all Bay	S6				1
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		1			SR8 V	Vall Bay	S5	
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SR8 Ov	erhead	Ventilati	ion Du	ct (OVH	D) - F	Sav S4a		1
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	Г\$З(W	Screed	ding to	Roof Sla	ab - B	ay 4 to	Bay 7	We
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		133(10) Sure	eding to	RUUI	Siau - E	ay 4 i	in E
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Drainage - Bay 8 Eastbou	ina							
Drainage - Bay 8 Westbo	und							
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Drainage - Bay 10 Westb	ound	1						1
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Drainage - Bay 10 Eastbo	ouna	1						i.
Base Slab + Drainage - E	Bay 9 W	estbou	nd					1
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Base Slab + Drainage - E	3ay 9 E	astbour	nd	-				
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rut - Bay 8 Between East	bound	& West	bound					
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rut - Bay 10 Between Eas	stbound	t & Wes	tboun	þ				
) Concrete Strut - Bay 9	Betwoo	n Facth	ound	Waath	ound			
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6&7: Removal of waling	& latera	al struts	Bay 8	-				
6&7: Removal of waling	& lator	strute	Bay 1	'n				
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S3(W) Layer 6&7: Remo	oval of v	waling &	latera	struts E	Bay 9			
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dated to 20th Jun 20	016		DML	./WC				
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Activi	y ID	Activity Name	Original Duration		Finish			1.1	2	016	
	Intermediated W	l Valls - Bay 8 to Bay 10	11d	09-Aug-16	22-Aug-16	Jun		Jul			Aug
	TS3W_5820	TS3(W) Intermediate Walls - Bay 8 Westbound	5d	09-Aug-16	15-Aug-16					-	TS3(W
	TS3W_5830	TS3(W) Intermediate Walls - Bay 8 Eastbound	5d	09-Aug-16	15-Aug-16						TS3(W
	TS3W_5860	TS3(W) Intermediate Walls - Bay 10 Westbound	5d	09-Aug-16	15-Aug-16						TS3(W
	TS3W_5870	TS3(W) Intermediate Walls - Bay 10 Eastbound	5d	09-Aug-16	15-Aug-16						TS3(W
	TS3W_5840	TS3(W) Intermediate Walls - Bay 9 Westbound	5d	16-Aug-16	22-Aug-16						
	TS3W_5850	TS3(W) Intermediate Walls - Bay 9 Eastbound	5d	16-Aug-16	22-Aug-16						
	Fill Void Betwee	n Walls Including Waterproofing on Wall - Bay 8 to Bay 10	18d	15-Aug-16	05-Sep-16						
	TS3W_6770	Fill the void underneath Bay 10 / SR8 - Bay S10	3d	15-Aug-16	18-Aug-16						
	TS3W_6750	Fill the void underneath Bay 8 / SR8 - Bay S8	3d	01-Sep-16	05-Sep-16						
	TS3W_6760	Fill the void underneath Bay 9 / SR8 - Bay S9	3d	01-Sep-16	05-Sep-16						
	Base Slab - Bay	S8 to Bay S10 (SR8)	27d	18-Aug-16	19-Sep-16						
	TS3W_6150	SR8 Base Slab - Bay S10	6d	18-Aug-16	25-Aug-16						
	TS3W_6130	SR8 Base Slab - Bay S8	6d	05-Sep-16	12-Sep-16						
	TS3W_6145	SR8 Base Slab - Bay S9	6d	12-Sep-16	19-Sep-16						
	OHVD - Bay 8 to	o Bay 10 (TS3W)	26d	25-Aug-16	24-Sep-16			1 1 1 1			
	TS3W_6065	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 10 Westbound	5d	25-Aug-16	31-Aug-16						
	TS3W_6070	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 10 Eastbound	5d	25-Aug-16	31-Aug-16						
	TS3W_6020	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 8 Westbound	5d	12-Sep-16	17-Sep-16						
	TS3W_6030	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 8 Eastbound	5d	12-Sep-16	17-Sep-16						
	TS3W_6050	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 9 Westbound	5d	19-Sep-16	24-Sep-16						
	TS3W_6060	TS3(W) Overhead Ventilation Duct (OVHD) - Bay 9 Eastbound	5d	19-Sep-16	24-Sep-16						
	Roof Slab - Bay	8 to Bay 10 (TS3W)	8d	22-Aug-16	31-Aug-16						
	TS3W_9364	TS3(W) Roof Slab - Bay 10 Westbound	8d	22-Aug-16	31-Aug-16						
	TS3W_9370	TS3(W) Roof Slab - Bay 10 Eastbound	8d	22-Aug-16	31-Aug-16						
	Waterproofing t	o Intermediated Walls - TS3W	2d	31-Aug-16	02-Sep-16						
	TS3W_9710	TS3(W) Waterproofing to Wall - Bay 10	2d	31-Aug-16	02-Sep-16						
	TS3W - Re-prop	for Layer 6 Between Intermediated Wall	2d	02-Sep-16	05-Sep-16						
	A7120	TS3(W) Re-prop to Intermediated Walls for Layer 6 - Bay 10	2d	02-Sep-16	05-Sep-16						
	Removal of Stru	its - Layer SL4 & SL5	4d	05-Sep-16	09-Sep-16						
	A7150	TS3(W) Layer 4&5: Removal of waling & lateral struts Bay 10	4d	05-Sep-16	09-Sep-16						
	OHVD - Bay S8 t	to Bay S10 (SR8)	5d	09-Sep-16	15-Sep-16						
	TS3W_9410	SR8 Overhead Ventilation Duct (OVHD) - Bay S10	5d	09-Sep-16	15-Sep-16						
	Roof Slab - Bay	S8 to Bay s10 (SR8)	8d	15-Sep-16	24-Sep-16						
	TS3W_9450	SR8 Roof Slab - Bay S10	8d	15-Sep-16	24-Sep-16						
	Cross Passage a	nd Egress Passage (CP30/EP03)	31d	27-Jul-16	01-Sep-16						
	Cross Passage (CP30	23d	05-Aug-16	01-Sep-16						
	Passage Cross	ing between Eastbound & Westbound at Bay 8	23d	05-Aug-16	01-Sep-16						
	TS3W_8130	TS3(W) Cross Passage CP30 - Base Slab + Drainage	6d	05-Aug-16	12-Aug-16						TS3(W) Cro
	TS3W_8140	TS3(W) Cross Passage CP30 - Walls	5d	15-Aug-16	20-Aug-16						
	TS3W_8150	TS3(W) Cross Passage CP30 - Roof Slab	6d	20-Aug-16	27-Aug-16						
	TS3W_8160	TS3(W) Cross Passage CP30 - Waterproofing + Screeding	4d	27-Aug-16	01-Sep-16						
	Egress Passage	EP-03	2d	27-Jul-16	29-Jul-16						
	TS3W_8020	TS3(W) Egress Passage EP03 - Waterproofing and Blinding for Base Slab	2d	27-Jul-16	29-Jul-16					S3(W) Egress Pass	age EP03 - Wate

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	Actual Work	Page 7 of 17		1.1
	Remaining Work		20-Jun-16	Update
	Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
•	♦ Milestone	Road 8 Section) - 3 Months Rolling Progamme		



)	Activity Name	Origina Duration		Finish					2016		
Zone E (Type 1a)	- Bay 11 to Bay 12	51d	25-Jul-16	23-Sep-16	Jun	1	Jul	1		Aug	
	rproofing to Bay 11 to Bay 12	4d	25-Jul-16	29-Jul-16		1 1 1 1	1 	<u> </u>			
	Blinding Bay 11 to Bay 12	2d	25-Jul-16	27-Jul-16				1	📕 Blinding Bay 11 t	n Bay 12	
	Waterproofing - Bay 11 to Bay 12	2d	27-Jul-16	29-Jul-16						g- Bay 11 to Bay 12	
Base Slab - Bay		12d	29-Jul-16	12-Aug-16				_			
_	TS3(W) Base Slab + Drainage - Bay 12 Westbound	6d	29-Jul-16	05-Aug-16						TS3(W) Base Slab + Dra	ainage - Bay 12 Westbound
	TS3(W) Base Slab + Drainage - Bay 12 KvSibound TS3(W) Base Slab + Drainage - Bay 12 Eastbound	6d	29-Jul-16	05-Aug-16							ainage - Bay 12 Westbound
	TS3(W) Base Slab + Drainage - Bay 12 Eastbound	6d	05-Aug-16	12-Aug-16							ise Slab + Drainage - Bay 11 We
	TS3(W) Base Slab + Drainage - Bay 11 Eastbound	6d	05-Aug-16	12-Aug-16							ise Slab + Drainage - Bay 11 Ea
_	Between Base Slab	7d	05-Aug-10	13-Aug-16				_			
	TS3(W) Concrete Strut - Bay 12 Between Eastbound & Westbound								_		
A7200		1d	05-Aug-16	06-Aug-16					-		t - Bay 12 Between Eastbound
A7210	TS3(W) Concrete Strut - Bay 11 Between Eastbound & Westbound	1d	12-Aug-16	13-Aug-16						■ 153(W) 0	Concrete Strut - Bay 11 Betwee
	ing & Lateral Struts Layer SL6 & SL7	8d	06-Aug-16	16-Aug-16							
_	Layer 6&7: Removal of waling & lateral struts - Bay 12	2d	06-Aug-16	09-Aug-16							oval of waling & lateral struts - B
	Layer 6&7: Removal of waling & lateral struts - Bay 11	2d	13-Aug-16	16-Aug-16						Lay	er 6&7: Removal of waling & lat
Walls - Bay 11 to	Bay 12	11d	09-Aug-16	22-Aug-16							
TS3W_5530	Walls - Bay 12 Westbound	5d	09-Aug-16	15-Aug-16						Walls	- Bay 12 Westbound
TS3W_5531	Walls - Bay 12 Eastbound	5d	09-Aug-16	15-Aug-16						Walls	- Bay 12 Eastbound
TS3W_5532	Walls - Bay 11 Westbound	5d	16-Aug-16	22-Aug-16							Walls - Bay 11 Westbou
TS3W_5533	Walls - Bay 11 Eastbound	5d	16-Aug-16	22-Aug-16							Walls - Bay 11 Eastbou
Fill Void Betwee	n Walls Including Waterproofing on Wall - Bay 11 to Bay 12	9d	15-Aug-16	25-Aug-16				1			
TS3W_5520.100	Install Waterproofing menbrane & Fill Void Wall Bay 12	3d	15-Aug-16	18-Aug-16							Install Waterproofing menbrane
TS3W_5520.90	Install Waterproofing menbrane & Fill Void Wall Bay 11	3d	22-Aug-16	25-Aug-16							Install Waterproo
SR8 Base Slab -	Bay S11 - 12	12d	18-Aug-16	01-Sep-16							
A7220	SR8 Base Slab + Drainage - Bay S12	6d	18-Aug-16	25-Aug-16						-	SR8 Base Slab +
A7230	SR8 Base Slab + Drainage - Bay S11	6d	25-Aug-16	01-Sep-16							SR8
TS3(W) - OHVD -	- Bay 11 to Bay 12	11d	25-Aug-16	07-Sep-16							
TS3W_5540.10	TS3W OHVD Slab - Bay 12 Westbound	5d	25-Aug-16	31-Aug-16							TS3W
TS3W_5540.20	TS3W OHVD Slab - Bay 12 Eastbound	5d	25-Aug-16	31-Aug-16				1			TS3W
TS3W_5540.30	TS3W OHVD Slab - Bay 11 Westbound	5d	01-Sep-16	07-Sep-16				\mathbf{N}			
TS3W_5540.35	TS3W OHVD Slab - Bay 11 Eastbound	5d	01-Sep-16	07-Sep-16							
Roof Slab - Bay	11 to Bay 12	16d	31-Aug-16	19-Sep-16				+			
TS3W_5550	Roof Slab - TS3W Bay 12 Westbound	8d	31-Aug-16	09-Sep-16							
- TS3W_5552	Roof Slab - TS3W Bay 12 Eastbound	8d	31-Aug-16	09-Sep-16				\mathbf{A}			
TS3W_5554	Roof Slab - TS3W Bay 11 Eastbound	8d	09-Sep-16	19-Sep-16							
TS3W_5553	Roof Slab - TS3W Bay 11 Westbound	8d	09-Sep-16	19-Sep-16							
	for Layer 6 Between Intermediated Wall	11d	09-Sep-16	23-Sep-16		1		/			
A7240	TS3(W) Re-prop to Intermediated Walls for Layer 6 - Bay 12	4d	09-Sep-16	14-Sep-16				/			
				· · · · · · · · · · · · · · · · · · ·			S S	`			
A7250	TS3(W) Re-prop to Intermediated Walls for Layer 6 - Bay 11	4d	19-Sep-16	23-Sep-16				<u> </u>			
	ts - Layer SL4 & SL5	4d	14-Sep-16	20-Sep-16							
A7260	TS3(W) Layer 4&5: Removal of waling & lateral struts Bay 12	4d	14-Sep-16	20-Sep-16			4				
Cable Trough Con		9d	15-Sep-16	24-Sep-16							
	TS3(W) Cable Through Bay 1-3	9d	15-Sep-16	24-Sep-16		1					
SR8 Junction at S	ea Side	45d	20-Jun-16	11-Aug-16							

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Actual Work	Page 8 of 17	Date	
		20-Jun-16	Updat
Remaining Work		20-0011-10	opuar
Ŭ	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
Critical Remaining Work	contract No. 111/2010/06. Central - Walchar Dypass Tunnel +(Sip		
♦ ♦ Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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Bay 11 to	Bay 12									
proofing	- Bay 11 to B	ay 12								
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Т	S3(W) Base	Slab + Draina	ge - Bay 12 V	vestbou	nd					
T	S3(W) Base	Slab + Draina	ge - Bay 12 E	astbour	ıd					
		S3(W) Base				estbound				
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-		crete Strut - I								
		TS3(W) Con	crete Strut -	3ay 11 E	etwee	en Eastboi	und & West	bound		
	Layer	\$&7: Removal	of waling & la	teral str	uts -	Bay 12				
		Layer 6	&7: Remova	of walir	ıg & la	teral strut	s - Bay 11			
		 		1 1 1						
		Walls - B	ay 12 Westbo	und						
		Walls - B	ay 12 Eastbo	und						
			Walls - E	ay 11 W	estbo	ound				
			Walls - E							
			tall Waterpro	fina m	nbrar			12		
			tall Waterpro			1				
			lns	tall Wat	erpro	ofing ment	orane & Fill		all Bay 11	
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			SF	8 Base	Slab ·	Drainage	e - Bay S12			
				1	SR	8 Base Sl	ab + Draina	ge - Ba	y S11	
		1		1						_
			_		TS3	N OHVD	Slab - Bay 1	2 West	bound	
			_		TS3	N OHVD	Slab - Bay 1	2 Eastb	ound	
				1		т	S3W OHVI) Slab -	Bay 11 We	stł
						Т	S3W OHVE) Slab -	Bay 11 Eas	tb
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Activity ID	Activity Name	Original Duration	Start	Finish								2016			
Blinding + Wate	rproofing - Bay S1 to Bay S4b	8d	20-Jun-16	28-Jun-16	Jun				Jı				1	Aug	
TS3W_7510	SR8 Blinding Bay S1 - S4b	4d	20-Jun-16	23-Jun-16		s	R8 Blinding B	ay S1 - S4b							
TS3W_7520	SR8 Waterproofing Bay S1 - S4b	4d	24-Jun-16	28-Jun-16	-		SR8	Waterproofing	Bay S1 - S4t	þ					
Base Slab - Bay	S1 to Bay S4b	12d	29-Jun-16	13-Jul-16											
TS3W_7540	SR8 Base Slab - Bay S2	6d	29-Jun-16	05-Jul-16				SR8 E	ase Slab - B	ay S2					
TS3W_7570	SR8 Base Slab - Bay S4b	6d	29-Jun-16	06-Jul-16				SR8	Base Slab -	Bay S4b					
TS3W_7530	SR8 Base Slab - Bay S1	6d	06-Jul-16	12-Jul-16					SR8 I	Base Slab - B	ay S1				
TS3W_7550	SR8 Base Slab - Bay S3	6d	07-Jul-16	13-Jul-16				-		8 Base Slab -	Bay S3				
Removal of Stru	its - Layer SL5	32d	06-Jul-16	11-Aug-16						 					
TS3W_8520	SR8 - Layer 5: Removal of waling & lateral struts - Bay S2 (together with TS3W SL4)	2d	06-Jul-16	07-Jul-16				🗖 SI	R8 - Layer 5:	Removal of w	aling & latera	struts - Bay S	32 (together w	vith TS3W SL4)	
TS3W_7560	SR8 - Layer 5: Removal of waling & lateral struts - Bay S1(together with TS3W SL4)	2d	16-Jul-16	18-Jul-16						SR8 - L	ayer 5: Remo	val of waling a	& lateral struts	s - Bay S1(togeth	ner with TS
TS3W_8530	SR8 - Layer 5: Removal of waling & lateral struts - Bay S3 (together with TS3W SL4)	2d	18-Jul-16	19-Jul-16						📕 SR8 -	Layer 5: Ren	noval of waling	g & lateral stru	uts - Bay S3 (tog	jether with
TS3W_8540	SR8 - Layer 5: Removal of waling & lateral struts - Bay S4b (together with TS3W SL4)	2d	09-Aug-16	11-Aug-16								>	SI SI	R8 - Layer 5: Re	emoval of w
Removal of Stru	its - Layer SL4	12d	08-Jul-16	21-Jul-16											
A7730	SR8 - Layer 4: Removal of waling & lateral struts - Bay S2 (together with TS3W SL3)	2d	08-Jul-16	09-Jul-16				-	SR8 Laye	r 4: Removal	of waling & lat	eral struts - B	ay S2 (togeth	er with TS3W SI	L3)
A7720	SR8 - Layer 4: Removal of waling & lateral struts - Bay S1 (together with TS3W SL3)	2d	19-Jul-16	20-Jul-16						SR	8 - Layer 4: R	emoval of wal	ing & lateral s	truts - Bay S1 (to	ogether wit
A7740	SR8 - Layer 4: Removal of waling & lateral struts - Bay S3 (together with TS3W SL3)	2d	20-Jul-16	21-Jul-16					1	📕 S	R8 - Layer 4:	Removal of w	aling & lateral	struts - Bay S3	(together v
OHVD - Bay S1	to Bay S4b	14d	11-Jul-16	26-Jul-16											
TS3W_7710	SR8 OHVD - Bay S2	5d	11-Jul-16	15-Jul-16						SR8 OHVD -	Bay S2				
TS3W_7700	SR8 OHVD - Bay S1	5d	21-Jul-16	26-Jul-16	-					_	SR8	OHVD - Bay S	31		
Roof Slab - Bay	S1 to Bay 4b	17d	20-Jul-16	08-Aug-16											
TS3W_7790	SR8 Roof Slab - Bay S2	8d	20-Jul-16	28-Jul-16							s	R8 Roof Slab	- Bay S2		
TS3W_7780	SR8 Roof Slab - Bay S1	8d	30-Jul-16	08-Aug-16	-						1		SR8 Rc	opf Slab - Bay S1	1
Removal of Recla	mation	79d	20-Jun-16	21-Sep-16											
Method Statemer	nt	48d	20-Jun-16	15-Aug-16											
TS3W_2150	(01) Removal of reclamation works method statement - submission	24d	20-Jun-16	18-Jul-16						(01) Re	moval of recl	amation works	s method stat	ement - submiss	sion
TS3W_2155	(01) Removal of reclamation works method statement - review and approval by AECOM	24d	19-Jul-16	15-Aug-16	_						1 1			📕 (01) Rem	oval of recla
TS3-West Remov	ral of Reclamation	7d	13-Sep-16	21-Sep-16											
Removal of wali	ng and Struts at Layer 3	7d	13-Sep-16	21-Sep-16						 	 				
TS3W_8510	Type 3 - Bay 3; Backfill & Remove Strut SL3	7d	13-Sep-16	21-Sep-16											
Works in SR8 (Ope	en Cut Method)	422d	20-May-15 A	19-Oct-16				 	1 						
SR8 - Cofferdam	& Cut & Cover Tunnel Works	422d	20-May-15 A	19-Oct-16				 			 				
SR8 (Zone C) - Ch	1. 528 to Ch. 368	79d	13-May-16 A	21-Sep-16											
Pipe Piling & Dev	vatering Wells	24d	20-Jun-16	18-Jul-16					1 1 1	 	 				
SR8 East Bound	I - (Seaside to Victoria Road / IEC Central Divider)	24d	20-Jun-16	18-Jul-16				 		 	 				
Method Statem	ent	24d	20-Jun-16	18-Jul-16				 	1 1 1	 	 				
CCT Structure		24d	20-Jun-16	18-Jul-16				 	1 1 1	 	 				
SR8_2290	CCT Structure Method statement - review and approval by AECOM	24d	20-Jun-16	18-Jul-16						сст s	ructure Metho	d statement	- review and a	approval by AEC	OM
ELS - Excavation	& Struts Installation	23d	13-May-16 A	18-Jul-16						 	 				
A2160	Completion of Partal ELS Works at Zone C - Area A	Od		27-Jun-16			Complex	tion of Partal E	LS Works at	Zone C Are	aA				
A1600	Completion of Whole ELS Works at Zone C	Od		18-Jul-16						♦ Comple	tion of Whole	: ÉLS Works a	t Zone C		
A2260	Completion of Partal ELS Works at Zone C - Area B	Od		18-Jul-16						Complete	tion of Partal I	L\$ Works at	Zone C - Area	аB	
	o Ch.461) / (77m) - Victoria Park to Steel Deck WB	12d	13-May-16 A			-									
A1380	Area A - Install 5th Struts & Walings	12d	13-May-16 A	27-Jun-16 A			Area A -	Install 5th Stru	ts & Walings						
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	Actual Work	Page 9 of 17	Date	
	Remaining Work		20-Jun-16	Update
	6	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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8 - Layer 5: I	Removal of w	aling & la	ateral	struts -	Bay S	4b (together	with TS3W SI	4)
with TS3W	SL3)							
uts - Bay S1	(together with	TS3W	SL3)					
truts - Bay S	3 (together w	ith TS3\	N SL3	3)				
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Activity Name	Original Duration	Start	Finish						2016	
Area A - Excavate to Formation Level	4d	30-Mav-16 A	06-Jun-16 A		mation Lev	/el	Jul			Aug
	2d	01-Jun-16 A								
	2d	20-Jun-16		_			ntal Bottom Bracing			
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-							Area B	1 - Blinding		
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-				Area B2 - Install 4th	1	-				
·	1d				A					
Area B2 - Install 5th Struts & Walings	2d	24-Jun-16	27-Jun-16							
Area B2 - Excavate to -18 mPD Formation Level	4d	27-Jun-16	02-Jul-16			Area B2 - E	Excavate to -18 mPD Form	ation Level		
Area B2 - Rock Fill	3d	02-Jul-16	06-Jul-16			Are	a B2 - Rock Fill			
Area B2 - Blinding	2d	06-Jul-16	08-Jul-16				Area B2 - Blinding			
•	73d	27-Jun-16	21-Sep-16							
Commencement of Tunnel Structure	Od	19-Jul-16					Comr	mencement of	Tunnel Structure	
	36d	27-Jun-16	09-Aug-16							
	12d	19-Jul-16	01-Aug-16							
C1 - Place Infill Concrete & Waterproof	3d	19-Jul-16	21-Jul-16					C1 - Place Infill	I Concrete & Waterproof	
C1 - Base Slab Construction	7d	22-Jul-16	29-Jul-16				•		C1 - Base Slab Constru	ction
C1 - Remove Lowest Struts Inside the CCT at Bottom Level	2d	30-Jul-16	01-Aug-16					1	C1 - Remove Low	est Struts Insid
	15d	22-Jul-16	08-Aug-16							
C2 - Place Infill Concrete & Waterproof	3d	22-Jul-16	25-Jul-16					C2 - Pl	ace Infill Concrete & Wat	erproof
C2 - Steel Fixing & PVC Drain Pipe Installtion	4d	29-Jul-16	02-Aug-16					-	C2 - Steel Fixing	, & PVC Drain F
C2 - Install Water Stop & Kicker Formwork	1d	03-Aug-16	03-Aug-16						C2 - Install Wa	ater Stop & Kicl
C2 - Place Concrete to Base Slab	1d	04-Aug-16	04-Aug-16	-					C2 - Place C	oncrete to Bas
C2 - Remove Kicker Formwork	1d	05-Aug-16	05-Aug-16	-					C2 - Remo	ove Kicker Form
	2d	06-Aug-16	08-Aug-16	-					C2 -	Remove Lowe
C2 - Remove Lowest Struts Inside the CCT at Bottom Level	=0	1								
C2 - Remove Lowest Struts Inside the CCT at Bottom Level	12d	27-Jun-16	12-Jul-16					i		
C2 - Remove Lowest Struts Inside the CCT at Bottom Level C3 - Place Infill Concrete & Waterproof		27-Jun-16 27-Jun-16	12-Jul-16 30-Jun-16			C3 - Place Infil	Concrete & Waterproof			
	12d			_		C3 - Place Infil	C3 - Base Slab Construe	ction		
C3 - Place Infill Concrete & Waterproof	12d 3d	27-Jun-16	30-Jun-16			C3 - Place Infil	C3 - Base Slab Construe		the CCT at Bottom Le	rel
	Area A - Excavate to Formation Level Area A - Install Layer 2 Horizontal Top Bracing Area A - Install Layer 2 Horizontal Bottom Bracing Area A - Rock Fill Area A - Binding to Ch.525) / (64m) - IEC + Steel Deck EB + SR8/TS3 Interface 1 UCH511) / (50m) - IEC + Steel Deck EB + SR8/TS3 Interface Area B1 - Excavate to -4th Layer Area B1 - Install 4th Struts & Walings Area B1 - Install 5th Struts & Walings Area B1 - Install 6th Struts & Waling Area B1 - Install Cayer 2 Horizontal Bottom Bracing Area B1 - Rock Fill Area B1 - Rock Fill Area B1 - Rock Fill Area B2 - Excavate to Formation Area B2 - Excavate to 4th Layer Area B2 - Excavate to 5th Layer Area B2 - Rock Fill Area B2 - Rock Fill Area B2 - Rock Fill Area B2 - Rock Fill	Duration Duration Area A - Excavate to Formation Level 4d Area A - Install Layer 2 Horizontal Top Bracing 2d Area A - Install Layer 2 Horizontal Bottom Bracing 2d Area A - Install Layer 2 Horizontal Bottom Bracing 2d Area A - Binding 1d Ch.525) / (6m) - IEC + Steel Deck EB + SRØ/TS3 Interface 23d Area A - Binding 2dd Area Bi - Install 4th Struts & Walings 6d Area Bi - Install 6th Struts & Walings 6d Area Bi - Install 6th Struts & Walings 6d Area Bi - Install 6th Struts & Walings 6d Area Bi - Install 6th Struts & Walings 6d Area Bi - Install 6th Struts & Walings 6d Area Bi - Install Cayer 2 Horizontal Bottom Bracing 1d Area Bi - Install Cayer 2 Horizontal Bottom Bracing 1d Area Bi - Scavate to Formation 1d Area Bi - Scavate to Hall 3d Area Bi - Scavate to Hall 3d Area Bi - Scavate to Struts & Walings 2d Area Bi - Scavate to Struts Struts & Walings 2d Area Bi - Scavate to Sth Layer	Puration Duration Area A - Excavate to Formation Level 4d 30-May-16A Area A - Install Layer 2 Horizontal Top Bracing 2d 01-Jun-16A Area A - Install Layer 2 Horizontal Bottom Bracing 2d 20-Jun-16 Area A - Bock Fill 3d 22-Jun-16 Area A - Bock Fill 3d 22-Jun-16 Area A - Binding 1d 25-Jun-16 C Ch.525 / (64m) - IEC + Steel Deck EB + SR&/TS3 Interface 2d 13-May-16A Area B1 - Excavate to -4th Layer 4d 13-May-16A Area B1 - Install 4th Struts & Walings 6d 01-Jun-16A Area B1 - Install 5th Struts & Walings 6d 04-Jun-16 Area B1 - Install 5th Struts & Walings 6d 04-Jun-16 Area B1 - Install 5th Struts & Waling 6d 04-Jun-16 Area B1 - Install 5th Struts & Waling 6d 04-Jun-16 Area B1 - Install Struts & Waling 1d 11-Jun-16 Area B1 - Install Tayer 2 Horizontal Bottom Bracing 1d 12-Jul-16 Area B1 - Install Tayer 2 Horizontal Bottom Bracing 1d 12-Jul-16 Area	Duration Duration Curvator Area A. Excavate to Formation Level 4d 30-May-16A 03-Jun-16A Area A. Install Layer 2 Horizontal Bottom Bracing 2d 01-Jun-16A 22-Jun-16 22-Jun-16 Area A. Install Layer 2 Horizontal Bottom Bracing 2d 02-Jun-16 22-Jun-16 22-Jun-16 Area A. Rock Fill 3d 22-Jun-16 25-Jun-16 22-Jun-16 2d 13-May-16A 18-Jul-16 to Ch.525) / (64m) - IEC - Steel Deck EB + SR8/TS3 Interface 2d 13-May-16A 18-Jul-16 Area B1 - Excavate to 4th Layer 4d 13-May-16A 13-Jul-16 Area B1 - Excavate to 5th Layer 2d 11-Jul-16A 23-Jul-16 Area B1 - Instal 5th Struts & Waings 6d 24-Jul-16 30-Jul-16 Area B1 - Instal Edit Struts & Waings 6d 24-Jul-16 13-Jul-16 Area B1 - Instal Cayer 2 Horizontal Bottom Bracing 1d 11-Jul-16 12-Jul-16 Area B1 - Instal Cayer 2 Horizontal Bottom Bracing 1d 11-Jul-16 13-Jul-16 Area B1 - Instal Cayer 2 Horizontal Bottom Bracing 1d 12-Jul-16	Duration Duration Out June Area A. Excavate to Formation Level 4d 30.49/16A 06-Jun-16A 0.40/16A 0.40/16A	Durino Durino Durino Jun Area A. Excavate to Formation Level 44 05 May 10.0 06 Jun 16.0 05 Jun 16.0 Area A. Excavate to Formation Level Area A. Install June 7 Horizonial Top Bracing 2d 0 Jun 16.0 0 Jun 16.0	During During Loc Loc Area A. Excernate to Formation Luncil 441 30 May 104 60-June 180 Area A. Excernate to Formation Luncil Area A. Instal Layer 2 Horizontal Top Bracing 201 12-June 180 22-June 180 Area A. A. Excernate to Formation Luncil Area A. Instal Layer 2 Horizontal Top Bracing 201 22-June 180 22-June 180 Area A. Instal Layer 2 Horizontal Experiments Area A. Instal Layer 2 Horizontal Botton Bracing 101 22-June 180 22-June 180 Area A. Instal Layer 2 Horizontal Botton Bracing 101 22-June 180 22-June 180 Area A. Instal Layer 2 Horizontal Botton Bracing 101 22-June 180 22-June 180 Area A. Instal Layer 2 Horizontal Botton Bracing 101 12-June 180 22-June 180 Area A. Instal Layer 2 Horizontal Botton Bracing 101 12-June 180 22-June 180 Area B. Instal A Marking 22-June 180 Area B. Instal A Marking	Pread-Decomposition Level Date Date Pread-Decomposition Level 44 2049/46.5 (6-1)/4.6.4 Pread-Toom Level Ferder Toom Level	Presh Cancel be formation level Cancel be formation le	Variant Variant <t< td=""></t<>

Actual Work	Page 10 of 17	Date	
Remaining Work		20-Jun-16	Updated
Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
Milestone	Road 8 Section) - 3 Months Rolling Progamme		

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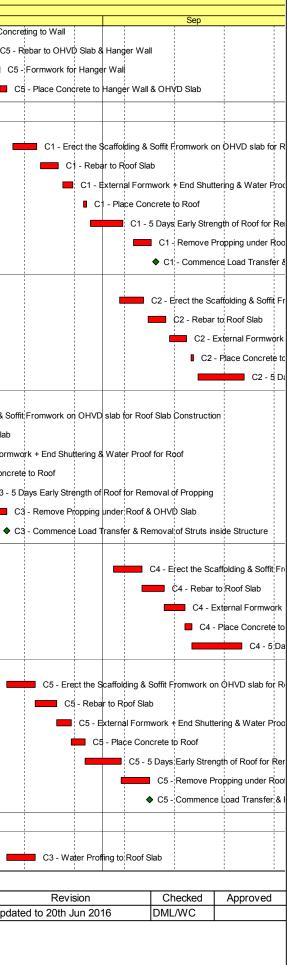
Activity ID	Activity Name	Original Duration		Finish				16
A6030	C4 - Place Infill Concrete & Waterproof	3d	21-Jul-16	25-Jul-16	Jun		Jul C4 - Plaçe	Aug Infill Concrete & Waterproof
A6040	C4 - Base Slab Construction	7d	29-Jul-16	06-Aug-16				C4 - Base Slab Constr
A6050	C4 - Remove Lowest Struts Inside the CCT at Bottom Level	2d	06-Aug-16	09-Aug-16	-			C4 - Remove Lo
Bay C5		12d	18-Jul-16	01-Aug-16				
A6060	C5 - Place Infill Concrete & Waterproof	3d	18-Jul-16	21-Jul-16			C5 - Place Infill C	oncrete & Waterproof
A6070	C5 - Base Slab Construction	7d	21-Jul-16	29-Jul-16	-		¢	- Base Slab Construction
A6080	C5 - Remove Lowest Struts Inside the CCT at Bottom Level	2d	29-Jul-16	01-Aug-16				C5 - Remove Lowest Struts Insi
Wall & OHVD		46d	12-Jul-16	02-Sep-16				
Bay C1		15d	02-Aug-16	18-Aug-16				
A1550	C1 - Internal Wall Formwork & Soffit Formwork for OHVD	4d	02-Aug-16	05-Aug-16				C1 - Internal Wall Form
A1560	C1 - Rebar to Wall	3d	06-Aug-16	09-Aug-16	-			C1 - Rebar to W
A1570	C1 - External Wall Formwork & End Shuttering Formwork with Water Stop	3d	10-Aug-16	12-Aug-16	-			C1 - Exter
A1580	C1 - Concreting to Wall	1d	13-Aug-16	13-Aug-16	-			C1 - Cor
A1580A	C1 - Rebar to OHVD Slab & Hanger Wall	2d	15-Aug-16	16-Aug-16	-			🗖 C1
A1580B	C1 - Formwork for Hanger Wall	1d	17-Aug-16	17-Aug-16	_			
A1580C	C1 - Place Concrete to Hanger Wall & OHVD Slab	1d	18-Aug-16	18-Aug-16	-			
Bay C2		15d	17-Aug-16	02-Sep-16				
A6090	C2 - Internal Wall Formwork & Soffit Formwork for OHVD	4d	17-Aug-16	20-Aug-16				_
A6100	C2 - Rebar to Wall	3d	22-Aug-16	24-Aug-16	_			
A6110	C2 - External Wall Formwork & End Shuttering Formwork with Water Stop	3d	25-Aug-16	27-Aug-16	-			
A6120	C2 - Concreting to Wall	1d	29-Aug-16	29-Aug-16	-			
A6130	C2 - Rebar to OHVD Slab & Hanger Wall	2d	30-Aug-16	31-Aug-16	-			
A6140	C2 - Formwork for Hanger Wall	1d	01-Sep-16	01-Sep-16	-			
A6150	C2 - Place Concrete to Hanger Wall & OHVD Slab	1d	02-Sep-16	02-Sep-16	-			
Bay C3	-	15d	12-Jul-16	29-Jul-16			_	
A6160	C3 - Internal Wall Formwork & Soffit Formwork for OHVD	4d	12-Jul-16	16-Jul-16			C3 - Internat Wall Formwor	k & Soffit Formwork for OHVD
A6170	C3 - Rebar to Wall	3d	16-Jul-16	20-Jul-16	-		C3 - Rebar to Wall	
A6180	C3 - External Wall Formwork & End Shuttering Formwork with Water Stop	3d	20-Jul-16	23-Jul-16	-			Wall Formwork & End Shuttering Fo
A6190	C3 - Concreting to Wall	1d	23-Jul-16	25-Jul-16	-			reting to Wall
A6200	C3 - Rebar to OHVD Slab & Hanger Wall	2d	25-Jul-16	27-Jul-16	-			ebar to OHVD Slab & Hanger Wall
A6210	C3 - Formwork for Hanger Wall	1d	27-Jul-16	28-Jul-16	-			Formwork for Hanger Wall
A6220	C3 - Place Concrete to Hanger Wall & OHVD Slab	1d	28-Jul-16	29-Jul-16	-		– C	- Place Concrete to Hanger Wall &
Bay C4		15d	16-Aug-16	02-Sep-16				
A6230	C4 - Internal Wall Formwork & Soffit Formwork for OHVD	4d	16-Aug-16	20-Aug-16			-	
A6240	C4 - Rebar to Wall	3d	20-Aug-16	24-Aug-16	-			
A6250	C4 - External Wall Formwork & End Shuttering Formwork with Water Stop	3d	24-Aug-16	27-Aug-16	-			
A6260	C4 - Concreting to Wall	1d	27-Aug-16	29-Aug-16	-			
A6270	C4 - Rebar to OHVD Slab & Hanger Wall	2d	29-Aug-16	31-Aug-16	-			
A6280	C4 - Formwork for Hanger Wall	1d	31-Aug-16	01-Sep-16	-			
A6290	C4 - Place Concrete to Hanger Wall & OHVD Slab	1d	01-Sep-16	02-Sep-16	-			
Bay C5	· · · · ·	15d	01-Aug-16	18-Aug-16				
A6300	C5 - Internal Wall Formwork & Soffit Formwork for OHVD	4d	01-Aug-16	05-Aug-16				C5 - Internal Wall Formv
A6310	C5 - Rebar to Wall	3d	05-Aug-16	09-Aug-16	-			C5 - Rebar to W
A6320	C5 - External Wall Formwork & End Shuttering Formwork with Water Stop	3d	09-Aug-16	12-Aug-16	-			C5 - Extern
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Actual Work	Page 11 of 17	Date	
		20-Jun-16	Update
Remaining Work			· · · · ·
Critical Remaining Work	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
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C1 -	Formwork fo	r Hanov	er W ≏					
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	C2 - Interna	l Wall F	ormw	prk & S	offit Fo	rmwork for	OHVD	
	C2 -	Rebar	to Wa					
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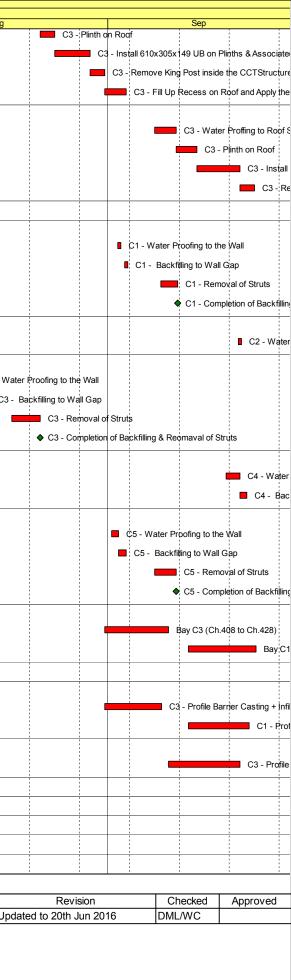
Concreting to Wall Rebar to OHVD Slab & Hanger Wall rormwork for Hanger Wall Race Concrete to Hanger Wall & OHVD Slab Rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction Rebar to Roof Slab Reternal Formwork + End Shuttering & Water Proof for Roof Pays Early Strength of Roof for Removal of Propping Remove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction Rebar to Roof Slab	1d 2d 1d 2d 1d 45d 17d 3d 2d 1d 5d 5d 3d 0d 5d 3d 0d	12-Aug-16 13-Aug-16 16-Aug-16 17-Aug-16 29-Jul-16 19-Aug-16 23-Aug-16 23-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	13-Aug-16 13-Aug-16 16-Aug-16 17-Aug-16 18-Aug-16 20-Sep-16 08-Sep-16 22-Aug-16 25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16 07-Sep-16		Jun				Jul		
tebar to OHVD Slab & Hanger Wall ormwork for Hanger Wall lace Concrete to Hanger Wall & OHVD Slab irrect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction tebar to Roof Slab ixternal Formwork + End Shuttering & Water Proof for Roof lace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab commence Load Transfer & Removal of Struts inside Structure	1d 1d 45d 17d 3d 2d 1d 5d 3d	13-Aug-16 16-Aug-16 17-Aug-16 29-Jul-16 19-Aug-16 23-Aug-16 23-Aug-16 26-Aug-16 29-Aug-16 30-Aug-16 30-Aug-16 05-Sep-16	16-Aug-16 17-Aug-16 18-Aug-16 20-Sep-16 08-Sep-16 22-Aug-16 25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16								□ C5
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rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction Rebar to Roof Slab External Formwork + End Shuttering & Water Proof for Roof Place Concrete to Roof Days Early Strength of Roof for Removal of Propping Remove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure	45d 17d 3d 2d 2d 1d 5d 3d 3d 0d	29-Jul-16 19-Aug-16 19-Aug-16 23-Aug-16 26-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	20-Sep-16 08-Sep-16 22-Aug-16 25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16					<u> </u>			
tebar to Roof Slab External Formwork + End Shuttering & Water Proof for Roof Ilace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure Externel Content of Struts inside Structure Externel Content of Struts inside Structure	17d 3d 3d 2d 1d 5d 3d 3d	19-Aug-16 19-Aug-16 23-Aug-16 26-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	08-Sep-16 22-Aug-16 25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16								
tebar to Roof Slab External Formwork + End Shuttering & Water Proof for Roof Ilace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure Externel Content of Struts inside Structure Externel Content of Struts inside Structure	3d 3d 2d 1d 5d 3d 0d	19-Aug-16 23-Aug-16 26-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	22-Aug-16 25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16	_				۲			
tebar to Roof Slab External Formwork + End Shuttering & Water Proof for Roof Ilace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure Externel Content of Struts inside Structure Externel Content of Struts inside Structure	3d 2d 1d 5d 3d 0d	23-Aug-16 26-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	25-Aug-16 27-Aug-16 29-Aug-16 03-Sep-16	_				\mathbf{Y}			L
External Formwork + End Shuttering & Water Proof for Roof Place Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab commence Load Transfer & Removal of Struts inside Structure rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	2d 1d 5d 3d 0d	26-Aug-16 29-Aug-16 30-Aug-16 05-Sep-16	27-Aug-16 29-Aug-16 03-Sep-16	_							
lace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab commence Load Transfer & Removal of Struts inside Structure rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	1d 5d 3d 0d	29-Aug-16 30-Aug-16 05-Sep-16	29-Aug-16 03-Sep-16		1						1 1
lace Concrete to Roof Days Early Strength of Roof for Removal of Propping temove Propping under Roof & OHVD Slab commence Load Transfer & Removal of Struts inside Structure rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	5d 3d 0d	30-Aug-16 05-Sep-16	03-Sep-16								
Remove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure	3d Od	05-Sep-16	· ·								
Remove Propping under Roof & OHVD Slab Commence Load Transfer & Removal of Struts inside Structure	Od	05-Sep-16	07-Sep-16								
commence Load Transfer & Removal of Struts inside Structure			0. OOP 10								
-	14d	08-Sep-16									
-		03-Sep-16	20-Sep-16								
-	3d	03-Sep-16	06-Sep-16								
	3d	07-Sep-16	09-Sep-16								
xternal Formwork + End Shuttering & Water Proof for Roof	2d	10-Sep-16	12-Sep-16								
lace Concrete to Roof	1d	13-Sep-16	13-Sep-16								
Days Early Strength of Roof for Removal of Propping	5d	14-Sep-16	20-Sep-16								
	17d	29-Jul-16	18-Aug-16								
rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	3d	29-Jul-16	02-Aug-16							C:	3 - Erect the Scaffolding & So
lebar to Roof Slab	3d	02-Aug-16	05-Aug-16								C3 - Rebar to Roof Slab
xternal Formwork + End Shuttering & Water Proof for Roof	2d	05-Aug-16	08-Aug-16								C3 - External Form
lace Concrete to Roof	1d	08-Aug-16	09-Aug-16								C3 - Place Concr
Days Early Strength of Roof for Removal of Propping	5d	09-Aug-16	15-Aug-16								C3 - 5
Remove Propping under Roof & OHVD Slab	3d	15-Aug-16	18-Aug-16								
commence Load Transfer & Removal of Struts inside Structure	0d	18-Aug-16									•
	14d	02-Sep-16	20-Sep-16							-	
rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	3d	02-Sep-16	06-Sep-16								
tebar to Roof Slab	3d	06-Sep-16	09-Sep-16								
xternal Formwork + End Shuttering & Water Proof for Roof	2d	09-Sep-16	12-Sep-16								
lace Concrete to Roof	1d	12-Sep-16	13-Sep-16								
Days Early Strength of Roof for Removal of Propping	5d	13-Sep-16	20-Sep-16								
	17d	18-Aug-16	07-Sep-16								
rect the Scaffolding & Soffit Fromwork on OHVD slab for Roof Slab Construction	3d	18-Aug-16	22-Aug-16								-
lebar to Roof Slab	3d	22-Aug-16	25-Aug-16								
xternal Formwork + End Shuttering & Water Proof for Roof	2d	25-Aug-16	27-Aug-16								
lace Concrete to Roof	1d	27-Aug-16	29-Aug-16								
Days Early Strength of Roof for Removal of Propping	5d	29-Aug-16	03-Sep-16	-							
· · · ·	3d	03-Sep-16	07-Sep-16	-							
enove Fropping under Roor & OHVD Siab	0d	07-Sep-16		-							
cemove Propping under Root & OHVD Siab	28d	18-Aug-16	21-Sep-16								
	14d	18-Aug-16	03-Sep-16								
				_							-
tel Ext la	bar to Roof Slab ernal Formwork + End Shuttering & Water Proof for Roof ce Concrete to Roof ays Early Strength of Roof for Removal of Propping move Propping under Roof & OHVD Slab mmence Load Transfer & Removal of Struts inside Structure	bar to Roof Slab 3d ernal Formwork + End Shuttering & Water Proof for Roof 2d ce Concrete to Roof 1d ays Early Strength of Roof for Removal of Propping 5d move Propping under Roof & OHVD Slab 3d mmence Load Transfer & Removal of Struts inside Structure 0d area) 14d	Dear to Roof Slab3d22-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-16ce Concrete to Roof1d27-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-16move Propping under Roof & OHVD Slab3d03-Sep-16mmence Load Transfer & Removal of Struts inside Structure0d07-Sep-16zea28d18-Aug-16area)14d18-Aug-16	Dar to Roof Slab3d22-Aug-1625-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-1627-Aug-16ce Concrete to Roof1d27-Aug-1629-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-1603-Sep-16move Propping under Roof & OHVD Slab3d03-Sep-1607-Sep-16mmence Load Transfer & Removal of Struts inside Structure0d07-Sep-1628d18-Aug-1621-Sep-16	Dear to Roof Slab3d22-Aug-1625-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-1627-Aug-16ce Concrete to Roof1d27-Aug-1629-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-1603-Sep-16move Propping under Roof & OHVD Slab3d03-Sep-1607-Sep-16mmence Load Transfer & Removal of Struts inside Structure0d07-Sep-1621-Sep-16rea)14d18-Aug-1603-Sep-16	Dear to Roof Slab3d22-Aug-1625-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-1627-Aug-162d25-Aug-1627-Aug-1629-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-1603-Sep-16move Propping under Roof & OHVD Slab3d03-Sep-1607-Sep-16mmence Load Transfer & Removal of Structure0d07-Sep-1618-Aug-1621-Sep-16rea)14d18-Aug-1603-Sep-1618-Aug-1618-Sep-16	Dear to Roof Slab3d22-Aug-1625-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-1627-Aug-16ce Concrete to Roof1d27-Aug-1629-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-1603-Sep-16move Propping under Roof & OHVD Slab3d03-Sep-1607-Sep-16mmence Load Transfer & Removal of Struts inside Structure0d07-Sep-1607-Sep-1628d18-Aug-1621-Sep-16area)14d18-Aug-1603-Sep-16	par to Roof Slab ernal Formwork + End Shuttering & Water Proof for Roof ce Concrete to Roof ays Early Strength of Roof for Removal of Propping move Propping under Roof & OHVD Slab mmence Load Transfer & Removal of Struts inside Structure 28d 18-Aug-16 14d 18-Aug-16 14d 18-Aug-16 03-Sep-16	Dar to Roof Slab3d22-Aug-1625-Aug-16ernal Formwork + End Shuttering & Water Proof for Roof2d25-Aug-1627-Aug-162d25-Aug-1629-Aug-1629-Aug-16ays Early Strength of Roof for Removal of Propping5d29-Aug-1603-Sep-16move Propping under Roof & OHVD Slab3d03-Sep-1607-Sep-16mence Load Transfer & Removal of Struts inside Structure0d07-Sep-1603-Sep-1628d18-Aug-1621-Sep-1603-Sep-1603-Sep-16rea)14d18-Aug-1603-Sep-1603-Sep-16	har to Roof Slab ernal Formwork + End Shuttering & Water Proof for Roof ce Concrete to Roof ays Early Strength of Roof for Removal of Propping move Propping under Roof & OHVD Slab mmence Load Transfer & Removal of Strutts inside Structure 28d 18-Aug-16 14d 18-Aug-16 18-Aug-16 14d 18-Aug-16 18-Aug-16	har to Roof Slab ar to Roof for Roof ar to Roof for Roof ar to Roof ar to Roof for Removal of Propping br to the total art to Roof ar to Roof for Removal of Propping br to the total art to Roof br to Roof for Removal of Propping br to the total art to Roof br to the total art total art to Roof br to Roof for Removal of Propping br to the total art to

Γ		Actual Work	Page 12 of 17	Date	
		Remaining Work		20-Jun-16	Update
		8	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		-
		Critical Remaining Work			
	• •	Milestone	Road 8 Section) - 3 Months Rolling Progamme		



y ID	Activity Name	Original Start Duration	Finish					2016	
A3210A	C3 - Plinth on Roof	2d 22-Aug-10	6 24-Aug-16	Jun		Jul			Aug
A3220	C3 - Install 610x305x149 UB on Plinths & Associated Weldings	4d 24-Aug-16	6 29-Aug-16						
A3230	C3 - Remove King Post inside the CCTStructure	2d 29-Aug-16	6 31-Aug-16						
A3240	C3 - Fill Up Recess on Roof and Apply the Waterproof Material to Recess	3d 31-Aug-16	6 03-Sep-16						
Bay C5 (Invol	lve 100% by Area)	11d 07-Sep-10	6 21-Sep-16						
A6690	C3 - Water Proffing to Roof Slab	3d 07-Sep-10	6 10-Sep-16	-					
A6690A	C3 - Plinth on Roof	2d 10-Sep-16	6 13-Sep-16						
A6700	C3 - Install 610x305x149 UB on Plinths & Associated Weldings	4d 13-Sep-16	6 19-Sep-16						
A6710	C3 - Remove King Post inside the CCTStructure	2d 19-Sep-16	6 21-Sep-16						
Removal of 2 I	Layers of Sruts at Top Level	32d 12-Aug-16	6 20-Sep-16						
Bay C1		8d 02-Sep-16	6 10-Sep-16						
A3450	C1 - Water Proofing to the Wall	1d 02-Sep-10	6 02-Sep-16	-					
A3460	C1 - Backfilling to Wall Gap	1d 03-Sep-16	6 03-Sep-16						
A3470	C1 - Removal of Struts	3d 08-Sep-16	6 10-Sep-16						
A3480	C1 - Completion of Backfilling & Reomaval of Struts	Od	10-Sep-16						
Bay C2		1d 19-Sep-10	3 19-Sep-16						
A6730	C2 - Water Proofing to the Wall	1d 19-Sep-16	5 19-Sep-16						
Bat C3		8d 12-Aug-16	22-Aug-16						
A6770	C3 - Water Proofing to the Wall	1d 12-Aug-16	5 13-Aug-16						C3 - Wate
A6780	C3 - Backfilling to Wall Gap	1d 13-Aug-16	5 15-Aug-16						C3 -
A6790	C3 - Removal of Struts	3d 18-Aug-16	5 22-Aug-16						-
A6800	C3 - Completion of Backfilling & Reomaval of Struts	Od	22-Aug-16						
Bay C4		2d 17-Sep-16	20-Sep-16						
A6810	C4 - Water Proofing to the Wall	1d 17-Sep-16	5 19-Sep-16						
A6820	C4 - Backfilling to Wall Gap	1d 19-Sep-16	5 20-Sep-16	-					
Bay C5		8d 01-Sep-16	5 10-Sep-16						
A6850	C5 - Water Proofing to the Wall	1d 01-Sep-16	6 02-Sep-16						
A6860	C5 - Backfilling to Wall Gap	1d 02-Sep-16	6 03-Sep-16						
A6870	C5 - Removal of Struts	3d 07-Sep-16	5 10-Sep-16						
A6880	C5 - Completion of Backfilling & Reomaval of Struts	Od	10-Sep-16						
Egress Passag	ge	18d 31-Aug-16	5 21-Sep-16						
A5070	Bay C3 (Ch.408 to Ch.428)	8d 31-Aug-16	6 09-Sep-16						
A5050	Bay C1 (Ch.368 to Ch.388)	8d 12-Sep-16	5 21-Sep-16						
Utility Trough		17d 31-Aug-16	5 20-Sep-16						
RHS Adjacen	it to Tunnel Wall	17d 31-Aug-16	5 20-Sep-16				<u> </u>		
A4610	C3 - Profile Barrier Casting + Infill Concrete for U-trough Trench	7d 31-Aug-16	6 08-Sep-16						
A4590	C1 - Profile Barrier Casting + Infill Concrete for U-trough Trench	7d 12-Sep-16	5 20-Sep-16						
LHS Adjacent	t to Egress Passage Wall	7d 09-Sep-10							
A4690	C3 - Profile Barrier Casting + Infill Concrete for U-trough Trench	7d 09-Sep-10							
	Ch.385.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)	62d 24-Feb-10							
	Funnel - ELS / CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)	62d 24-Feb-16							
Portal Structur			3A 31-Aug-16				 		
Roof Slab Co		20d 08-Jun-16							
	338.625 to CH351.8)	4d 08-Jun-16					1		

Actual Work	Page 13 of 17	Date	
Remaining Work		20-Jun-16	Upd
0	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		-
Critical Remaining Work			
 Milestone 	Road 8 Section) - 3 Months Rolling Progamme		
 Critical Remaining Work Milestone 	Road 8 Section) - 3 Months Rolling Progamme		



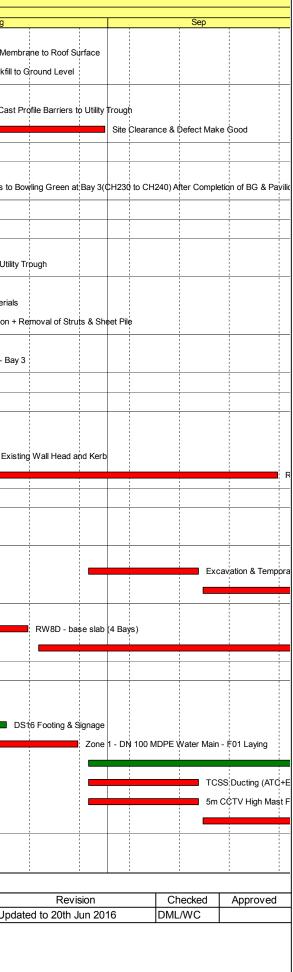
	Activity Name	Original Duration	Start	Finish	Jun		Jul	2016			
A5560A10	B2 - Remove Upper Struts inside Tunnel Box	4d	08-Jun-16 A	12-Jun-16 A	B2 - Remove	per Struts inside			Aug		
Bay B3 (CH35	51.8 to CH368)	4d	13-Jun-16 A	20-Jun-16 A							
A5590A10	B3 - Remove Upper Struts inside Tunnel Box	4d	13-Jun-16 A	20-Jun-16 A	B	3 - Remove Upp	per Struts inside Tunnel Box				
OHVD		27d	20-Jun-16	21-Jul-16							
Bay B2 (CH33	38.625 to CH351.8)	27d	20-Jun-16	21-Jul-16							
A5600	B2- Re-erect Scaffolding & Soffit Formwork for OHVD	7d	20-Jun-16	27-Jun-16		B2-	- Re-prect Scaffolding & Soffit Formwork for OHVD				
A5610	B2- Rebar Fixing to Slab of OHVD	4d	28-Jun-16	02-Jul-16			B2- Rebar Fixing to Slab of OHVD				
A5620	B2- Place Concrete to Slab of OHVD	1d	04-Jul-16	04-Jul-16			B2- Place Concrete to Slab of OHVD				
A5670	B2- 10 Days Curing After Roof Slab Placed	10d	04-Jul-16	14-Jul-16			B2- 10 Days Curing Aft	er Roof Slab Plac	ed		
A5630	B2- Erect Internal Wall Formwork	3d	05-Jul-16	07-Jul-16			B2- Erect Internal Wall Formwork				
A5640	B2- Rebar Fixing for Wall	3d	08-Jul-16	11-Jul-16			B2- Rebar Fixing for Wall				
A5650	B2- Erect External Formwork	4d	11-Jul-16	15-Jul-16	-		B2- Erect External Fo	rmwork			
A5660	B2- Place Concrete to Wall From Roof Slab Box Out Openning	1d	15-Jul-16	16-Jul-16					of Slab Box Out Openning		
A5670A	B2- Remove Scaffold & Soffit Formwork of OHVD	4d	16-Jul-16	21-Jul-16					ffit Formwork of OHVD		
	51.8 to CH368)	24d	20-Jun-16	18-Jul-16							
	B3- Re-erect Scaffolding & Soffit Formwork for OHVD	7d	20-Jun-16	27-Jun-16		B3	- Re-erect Scaffolding & Soffit Formwork for QHVD				
A5690	B3- Rebar Fixing to Slab of OHVD	3d	28-Jun-16	30-Jun-16			B3- Rebar Fixing to Slab of OHVD				
A5700	B3- Place Concrete to Slab of OHVD	1d	30-Jun-16	02-Jul-16			B3- Place Concrete to Slab of OHVD				
A5700	B3- Erect Internal Wall Formwork	3d	02-Jul-16	02-Jul-10			B3- Flace Concrete to Stab of Chrvb				
A5750	B3- 10 Days Curing After Roof Slab Placed	10d	02-Jul-16	12-Jul-16			B3- 10 Days Curing After R	oof Slab Placed			
A5720	B3- Rebar Fixing for Wall	3d	06-Jul-16	09-Jul-16			B3- Rebar Fixing for Wall				
A5730	B3- Erect External Formwork	4d	09-Jul-16	14-Jul-16			B3- Erect External For				
A5740	B3- Place Concrete to Wall of OHVD From Roof Slab Box Out Openning	1d	14-Jul-16	15-Jul-16					rom Roof Slab Box Out Oper	nning	
A5750A	B3- Remove Scaffold & Soffit Formwork of OHVD	2d	15-Jul-16	18-Jul-16			B3- Remove So	affold & Soffit For	mwork of OHVD		
Pump House		55d	20-Jun-16	23-Aug-16							
_	Near Ground Level	14d	20-Jun-16	06-Jul-16							
A1670	PS- Internal Wall Formwork	4d	20-Jun-16	23-Jun-16		P\$- Interna	al Wall Formwork				
A1680	PS- Erect Scaffolding + Roof Soffit Fromwork	5d	24-Jun-16	29-Jun-16			PS- Erect Scaffolding + Roof Soffit Fromwork				
A1690	PS- Rebar Fixing	4d	30-Jun-16	05-Jul-16			PS- Rebar Fixing				
A1700	PS- Place Concrete to Wall & Roof Slab	1d	06-Jul-16	06-Jul-16			PS- Place Concrete to Wall & Roof Sla PS- Place Concrete to Wall & Roof Sla	ab			
Floor Slabs &	& Partition Walls	41d	07-Jul-16	23-Aug-16							
A1710	PS- Inclinde Slab at Pump Pit	12d	07-Jul-16	20-Jul-16			PS- Inclinde	Slab at Pump Pit			
A1720	PS- Wall at Sump Pit	8d	21-Jul-16	29-Jul-16				PS- Wall at	Sump Pit		
A1750	PS- Partition Walls	21d	30-Jul-16	23-Aug-16						PS- F	Partitior
Egress Passag	ge (EP-01) Inside CCT Structure	7d	20-Jun-16	27-Jun-16							
Utility Trough	h	7d	20-Jun-16	27-Jun-16							
A2230	EP-01 Bay 1	7d	20-Jun-16	27-Jun-16		EP	P-01 Bay 1				
	EP-01 Bay 2	7d	20-Jun-16	27-Jun-16		EP	2-01 Bay 2				
A2240		7d	20-Jun-16	27-Jun-16		EP	2-01 Bay 3				
A2240 A2250	EP-01 Bay 3										
A2250	EP-01 Bay 3 Struts Removal	35d	24-Feb-16 A	13-Aug-16							
A2250 Backfilling & S		35d 21d	24-Feb-16 A	, The second sec							
A2250 Backfilling & S	Struts Removal			28-Jul-16			Water Proofing to Wall Stee	n			
A2250 Backfilling & S Water Proofir	Struts Removal	21d	24-Feb-16 A	28-Jul-16				1	Gap Between CCT Wall & Sh	neet Pile Wall	

	Actual Work	Page 14 of 17	Date	
	Remaining Work		20-Jun-16	Update
	6	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		_
	Critical Remaining Work			
•	Milestone	Road 8 Section) - 3 Months Rolling Progamme		

		Slab Box Out Operning Slab Box Out Operning DHVD PS- Partition Walls PS- Partition Walls PS- Partition Walls Hern CCT Wall & Sheet Pile Wall a CCT Structure te Revision Checked Approved						
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ced								
offit	Formwork of	OHVD						
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Fro	m Roof Slab I	; Box Out Oper	ining					
	work of OHVI							
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f Ga	ap Between C	CT Wall & Sh	eet Pile Wall					
uCIS		i Suuciure	1	1				
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20	0-Jun-16	Update			16			
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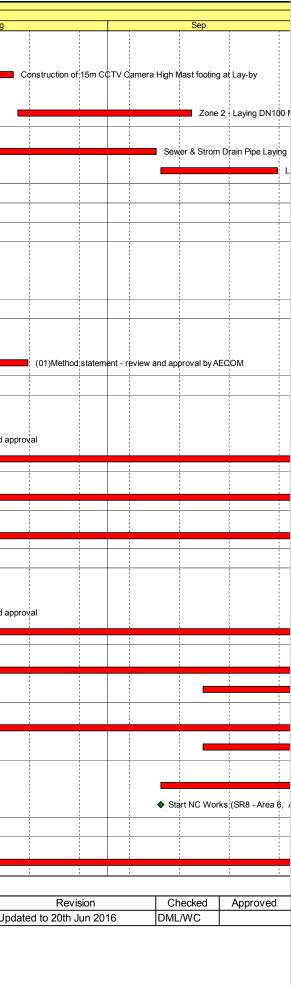
vity ID	Activity Name	Original Duration		Finish					20	16		
Water Proofi	ing to Roof Surface & Backfilling	14d	29-Jul-16	13-Aug-16	Jun			Jul				Aug
A5980	Install Water Proof Membrane to Roof Surface	7d	29-Jul-16	05-Aug-16					_		Install Water	r Proof Mer
A5990	Backfill to Ground Level	7d	06-Aug-16	13-Aug-16	_					ſ		Backfill
Utility Trough		35d	21-Jul-16	31-Aug-16						<u> </u>		
A6000	Cast Profile Barriers to Utility Trough	21d	21-Jul-16	15-Aug-16					_			Cas
A6010	Site Clearance & Defect Make Good	14d	15-Aug-16	31-Aug-16								
SR8 (Zone A) -	Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)	149d	29-Oct-15 A	15-Aug-16								
Excavation and	I Lateral Support	4d	28-Jul-16	01-Aug-16								
SR8_2320	Remove Temporary Access to Bowling Green at Bay 3(CH230 to CH240) After Completion	4d	28-Jul-16	01-Aug-16					-	Remov	e Temporary	Access to
RC CCT & Back	of BG & Pavilion fill Ch317.5000 to Ch240.000	150d	29-Oct-15 A	15-Aug-16								
Structure		48d	20-Jun-16	15-Aug-16								
Utility Throug	gh	48d	20-Jun-16	15-Aug-16								
SR8_2050	Utility Trough	48d	20-Jun-16	15-Aug-16					_			Utilit
Backfill & Rein	statement Works Including Removal of Struts	60d	29-Oct-15 A	27-Jul-16								
SR8_1920.20	Remove and/or Pull Sheet Piling Materials	36d	29-Oct-15 A	27-Jul-16					Remc	ve and/or F	Pull Sheet Pili	ing Material
SR8_1920	SR8 U structure - Backfilling & Compaction + Removal of Struts & Sheet Pile	60d	21-Jan-16 A	25-Jul-16				s	R8 U str	ucture - Ba	ackfilling & Co	ompaction ·
SR8 Structural	Slab Ch.240.000 to Ch.210.000	7d	02-Aug-16	09-Aug-16								
SR8 2090B	Wall Sterm - Bay 3	7d	02-Aug-16	09-Aug-16							Wall	Sterm - Ba
	RW & Subway Extension & Toe Wall at Hing Fat St	422d	20-May-15 A	19-Oct-16								
	Subway Extension (Portion V)	403d	20-May-15 A	24-Sep-16								
	I RW8C at Tsing Fung Street (Portion V)	403d	20-May-15 A									
VP 1370A	RW8C - Install Steel Railing on Top of RW8C	14d	20-May-15 A					RW8C - Install Steel Railing on To	o of RW	зс		
 VP_1390	RW8C - Demolish Top Portion of Existing Wall Head and Kerb	18d	09-Jul-16	29-Jul-16	_						nplish Top Po	rtion of Exi
 VP 1400	RW8C - Road Formation - Subbase + Kerb + U-shape Channel	48d	30-Jul-16	24-Sep-16	_				-			
	+ Toe Wall at Hing Fat Street	101d	09-May-16 A	19-Oct-16								
	sion at Tsing Fung Street (Portion VIII)	8d	20-Jun-16	28-Jun-16								
VP 1375.50	TFS Subway extension - install Railing	8d	20-Jun-16	28-Jun-16			FS Subway exte	ension - install Railing				
RC Works - To		42d	29-Aug-16	19-Oct-16								
A6900	Excavation & Temporary Works for RW8E	14d	29-Aug-16	13-Sep-16								
A6910	Construction of Base Slab of RW8E - 4 Bays	28d	14-Sep-16	19-Oct-16	_							
	etaining Wall RW8D	89d	09-May-16 A	04-Oct-16								
VP_1540	RW8D - base slab (4 Bays)	28d	09-May-16 A									
VP 1550	RW8D - wall stem (4 Bay)	36d	22-Aug-16	04-Oct-16	_							
	prks: Raod & Drain, Surfacing, Furnitures, Traffic Signs etc.	204d	21-Jan-16 A	30-Sep-16			-					
	Footpath of Retaining Wall RW8D	87d	20-Jun-16	30-Sep-16						<u> </u>		
SR8_2010A	Zone 1 - DN 150 Sewer Pipe	14d	20-Jun-16	06-Jul-16			7	one 1 - DN 150 Sewer Pipe				
								one 1 - Div 150 Sewer Fibe				
SR8_2100	DS16 Footing & Signage	50d	20-Jun-16	17-Aug-16	_							
SR8_2030	Zone 1 - DN 100 MDPE Water Main - F01 Laying	45d	07-Jul-16	27-Aug-16	_							
SR8_2040	Zone 1 - DN 100 MDPE Water Main Connection by WSD	28d	29-Aug-16	30-Sep-16								
SR8_2060	TCSS Ducting (ATC+E&M @2x150UPVC)	14d	29-Aug-16	13-Sep-16								
SR8_2110	5m CCTV High Mast Footing	14d	29-Aug-16	13-Sep-16								
SR8_2110A	Overheight Detector Footing & Draw Pits at Footpath	14d	14-Sep-16	30-Sep-16						ļ		
	ay Extension to New Lay-by	189d	21-Jan-16 A	12-Sep-16								
SR8_2140	Relocate Existing Hoarding for Laying Sewer Pipes & footings	14d	21-Jan-16 A	25-Jun-16		Reloca	te Existing Hoar	ding for Laying Sewer Pipes & footing	js			

Actual Work	Page 15 of 17	Date	
Remaining Work		20-Jun-16	Updat
8	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
Critical Remaining Work			
 Milestone 	Road 8 Section) - 3 Months Rolling Progamme		



98.1.970 Available Avail	Ac	tivity ID	Activity Name	Original Duration	Start	Finish							2016		
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Image: Status 2 with 2 week 2 mm 2				14d							1		Construction	of FVMSH3 f	aoting
Note:		SR8_21800	Zone 2 - Laying DN100 MDPE Water Main - F01	21d	19-Aug-16	12-Sep-16					1 1 1 1				
Bit 2000 0.0040 mglob MBA 64.00 64.00 0.0040 0.		Zone 3 - Within Zo	one A & Zone B Area inside Victoria Park/ New Pedestrian Island	35d	15-Aug-16	24-Sep-16					1 1 1 1				
Normal Networks Processing Web		SR8_2180	Sewer & Strom Drain Pipe Laying	21d	15-Aug-16	07-Sep-16					1 1 1 1				
Reference 110 24,0416 94,0446 94,0466 <th< td=""><td></td><td>SR8_2210</td><td>Laying DN40 Irrigation Main</td><td>14d</td><td>08-Sep-16</td><td>24-Sep-16</td><td></td><td></td><td></td><td></td><td>1 1 1 1</td><td></td><td></td><td></td><td></td></th<>		SR8_2210	Laying DN40 Irrigation Main	14d	08-Sep-16	24-Sep-16					1 1 1 1				
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Actual Work	Page 16 of 17	Date 20-Jun-16	Updated
Remaining Work Critical Remaining Work Milestone	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme		, ·
 Milestone 	Koad o Sectiony - 5 Month's Koning Progamine		



rity ID	Activity Name	Original	Start	Finish			
·		Duration				2016	
					Jun	Jul Aug	Sep
KD12 - Section	7B: Portion VI & VII (Reprov. Bowling Green Area)	177d	03-Dec-15 A	17-Jul-16			
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	177d	03-Dec-15A	17-Jul-16		Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	
EW_1030	Completion of KD12- Works in Section 7B	0d		17-Jul-16		Completion of KD12- Works in Section 7B	
Preservation a	nd Protection of Trees	1088d	21-Mar-13 A	20-Nov-16			
PPT_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	20-Nov-16			
Mooring Compo	nents Upkeep (CBTS and ATS)	1399d	21-Mar-13 A	21-Jan-17			
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399d	21-Mar-13 A	17-Jan-17			
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	21-Jan-17			
Works for Public	Works Regional Laboratory (North Lantau)	1301d	19-Jul-13 A	21-Nov-17			
Maintenance a	nd Upkeep of New PWRL (Portion XVII)	1301d	19-Jul-13 A	21-Nov-17			
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301d	19-Jul-13 A	21-Nov-17			

	Actual Work Remaining Work	Page 17 of 17	Date 20-Jun-16	Updated
	 Critical Remaining Work Milestone 	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme		

Revision	Checked	Approved
dated to 20th Jun 2016	DML/WC	
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