#### CONTRACT NO: HK/2011/07

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

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 , FEP-06/356/2009 AND FEP-07/356/2009

#### MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JUNE 2015 -

**CLIENTS:** 

**Civil Engineering and Development Department** 

and

**Highways Department** 

PREPARED BY:

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**CERTIFIED BY:** 

Raymond Dai

**Environmental Team Leader** 

DATE:

9 July 2015



Ref.: AACWBIECEM00\_0\_6893L.15

14 July 2015

By Post and Fax (3912 3010)

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

Attention: Mr. Peter Poon

Dear Mr. Poon,

Re: Contract No. HK/2011/07
Wan Chai Development Phase II - Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 2)

Monthly Environmental Monitoring and Audit Report (June 2015) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for June 2015 received by e-mail on 9 July 2015 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

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

Encl.

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### RAMBOLL ENVIRON

C.C.

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#### **Lam Geotechnics Limited**

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

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#### **EXECUTIVE SUMMARY**

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – June 2015 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 findings and information recorded during the period May 2015 to June 2015. The cut-off date of reporting is at 27<sup>th</sup> of each reporting month.

#### Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
  - Nil
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
  - Nil
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
  - Reinstatement of vertical seawall at TPCWAE
  - Dredging work near Noon Day Gun
- v. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
  - Nil
- vi. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
  - Removal of rock armour
  - Dry dock construction
  - Installation of pipe pile wall
  - Removal of temporary piling platform for culvert diversion
  - Construction of culvert
- vii. During this reporting period, the major work activities for Contract no. HY/2010/08.
  - Rock filling works
  - Pre-treatment works
  - · Bar fixing works
  - ELS works
  - Diaphragm Wall, Barrette construction and King Post installation works
  - Slurry and fill disposal works



#### Noise Monitoring

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- viii. Three limit level exceedances at M6 HK Baptist Church Henrietta Secondary School were recorded on 5, 9 and 16 June 2015 in this reporting month. The exceedances were concluded as non-Project works.
- ix. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting month.

#### Real-time Noise Monitoring

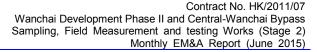
- x. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- xi. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xii. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.

#### Air Quality Monitoring

- xiii. Due to electricity interruption, the 24hr TSP monitoring at CMA4a was rescheduled from 18 June 2015 to 19 June 2015.
- xiv. 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
- xv. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013
- xvii. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b Oil Street Site Office; CMA2a Causeway Bay Community Center; CMA3a CWB PRE Site Office Area; CMA4a Society for the Prevention of Cruelty to Animals; CMA5b Pedestrian Plaza; CMA6a WDII PRE Site Office.

#### **Water Quality Monitoring**

- xviii. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2015.
- xix. With respect to the water pipe modification works and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the water quality monitoring station C7 was cancelled on 10 June 2015 during flood tide.



- xx. With respect to the water pipe modification works conducted for the diverted seawater supply system to the Windsor House Cooling water intake and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the respective water quality monitoring at WQM station C7 was temporarily suspended from 12 June 2015. The water quality monitoring at WQM station C7 has resumed on 17 June 2015 upon completion of the water pipe modification works.
- xxi. With respect to the construction works undertaken at Ex-PCWAW and the forthcoming wet season DO concern, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SW was resumed on 30 March 2015 at the finely adjusted monitoring location.
- xxii. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.
- xxiii. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014.
- xxiv. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- xxv. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- xxvi. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- xxvii. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- As confirmed by WDII RSS and IEC, the cross harbor dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- xxix. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- xxx. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station

- RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- xxxi. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- xxxii. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- wqm events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
- xxxiv. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- xxxv. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- xxxvi. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- xxxvii. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- xxxviii. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- xxxix. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
  - xl. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
  - xli. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary

- suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- xlii. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- xliii. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- xliv. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	Г	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	1	0	1
Total		0	0	0	0	0	0	0	0	0	1	0	1

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

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

- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- xlv. There were no action and 1 limit level of turbidity exceedance recorded, and no action and 1 limit level of suspended solid exceedance recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of the recorded exceedance can be referred to the **Section 6.4**.
- xlvi. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

Table II Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station	D	)	DO	
110.		AL	LL	AL	LL
	C6	0	0	0	0
HY/2009/15	C7	0	0	0	0
111/2009/13	Ex-WPCWA SW	1	1	1	2
	Ex-WPCWA SE	0	0	0	0
Total		1	1	1	2

- xlvii. There were 2 action level and 3 limit level exceedance of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedance was not related to Project works. The details of the recorded exceedance can be referred to the **Section 6.4**.
- xlviii. 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.
- xlix. 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.
  - I. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
  - li. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE

since 7 November 2014.

#### Complaints, Notifications of Summons and Successful Prosecutions

- lii. There was one environmental complaint received in this reporting month.
- liii. The 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 moored 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 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 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.

Follow-up inspection was conducted during weekly 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.



- liv. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.
- Iv. Construction works under HK/2010/06 was confirmed completed and the respective work area under FEP-05/356/2009 was handover and inspected under HK/2012/08 from 22 September 2014 onwards.

#### Future Key Issues

lvi. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

Nil

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

Reclamation at WCR3

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

Reinstatement of vertical seawall at TPCWAE

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

Nil

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

- Removal of rock armour
- Dry dock construction
- Installation of pipe pile wall
- Removal of temporary piling platform for culvert diversion
- · Construction of culvert

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

#### **Lam Geotechnics Limited**

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

- Pre-treatment works
- Bar fixing works
- ELS works
- Diaphragm Wall, Barrette construction and King Post installation works
- Slurry and fill disposal works



#### 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 10.3 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 for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of May 2015 to June 2015. The cut-off date of reporting is at 27<sup>th</sup> of each reporting month.

#### 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 Status of Regulatory Compliance** summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5 Monitoring Results** summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- 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 Environmental Site Audit** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 Complaints, Notification of summons and Prosecution – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 Conclusion



#### 2 Project Background

#### 2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

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

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.

#### 2.2.3. The scope of the Project comprises:

- Land formation for key transport infrastructure and facilities, including the Trunk Road
  (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for
  through traffic from Central to Wan Chai and Causeway Bay. The land formed for the
  above transport infrastructure will provide opportunities for the development of an
  attractive waterfront promenade for the enjoyment of the public
- Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above

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

Table 2.1 Schedule 2 Designated 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

#### 2.3 Division of the Project Responsibility

- 2.3.1. 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.
- 2.3.2. The details of individual contracts are summarized in *Table 2.2*.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong	DP3, DP6	23 July 2010
	Kong Convention and Exhibition Centre	DP1, DP2	25 August 2011
HK/2009/02 Wan Chai Development Phase II –		DP3, DP5	5 July 2010
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (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 Tsuen Wan Line		DP3	22 March 2011 (Completed)
04/HY/2006 Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street		DP1	September 2010 (Completed)
HY/2009/17	HY/2009/17 Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.		5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West		DP1,DP2, DP3	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

#### 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 *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.3*:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax	
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877	
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010	
Chun Wo – Leader	Contractor under Contract no.	Project Manager	Mr. Simon Liu	9304 8355	2587 1878	
Joint Venture	HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896		
		Engineer Manager	Mr. Terry Wong	9757 9846		
		Construction Manager	Mr. Wyman Wong	9627 2467		
		Construction Manager	Mr. Kenneth Chan	9160 3850		
		Environmental Officer	Ms. Wendy Ng	9803 0057		
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057		
Chun Wo – CRGL	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Alfred Leung	3658-3022	2827 9996	
Joint Venture		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856		
China	Contractor under Contract no. HY/2009/15	Project Director	Chris Leung	3557 6393	2566 2192	
State Constructi		Site Manager	Y Huo	3557 6368		
on Engineerin g (HK) Ltd.		Contractor's Representative	Andrew Wong	3557 6371		
g (Firt) Ltd.		Contractor's Representative	Gene Cheung	3557 6395		
		Environmental Officer	Andy Mak	3557 6347		
Chun Wo –	Contractor under	Project Manager	David Lau	3758 8879	2570 8013	
CRGL – MBEC_	Contract no. HY/2009/19	Site Agent	Paul Yu	9456 9819		
Joint Venture		Deputy Site Agent	Eric Fong	6191 9337		
venture		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810		
		Construction Manager (Marine)  Andy Chan  9879 4325				
		Construction Manager (Land)	Bear Ding	6483 6198		
		Operation Manager (Land)	Yung Kwok Wah	9834 1010		

## Lam Geotechnics Limited

Party	Role	Post	Name	Contact No.	Contact Fax	
China	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522	
State- Leader JV	under Contract	Project Manager	Eddie Chung	9189 8118		
Leader 3 v	no. HK/2012/08	Site Agent	Keith Tse	9037 1839		
		Environmental Officer	James Ma	9130 9549		
		Environmental Supervisor	Y. L. Ho	9856 5669		
China State	Contractor under Contract no. HY/2010/08	Project Director	Chris Leung	3467 4299	2566 8061	
		Project Manager	Chan Ying Lun	3418 3001		
		Site Agent	Dave Chan	3467 4277		
		Environmental Officer	C.M. Wong	3557 6464		
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466		
Leighton	Contractor under	Project Manager	Paul Evans	2823 1111	21406799	
Joint Venture	Contract no. HY/2011/08	Site Agent	Colman Wong	9730 0806		
		Environmental Officer	David Hung	9765 6161		
		Environmental Supervisor	Penny Yiu	2214 7738		
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899	
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331	

- 2.4.3. For Contract no. HK/2009/01, the principal work activities in this reporting month included:
  - Nil
- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
  - Nil
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
  - Reinstatement of vertical seawall at TPCWAE
  - Dredging work near Noon Day Gun



- 2.4.6. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
  - Nil
- 2.4.7. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
  - Removal of rock armour
  - Dry dock construction
  - Installation of pipe pile wall
  - Removal of temporary piling platform for culvert diversion
  - · Construction of culvert
- 2.4.8. For Contract no. HY/2010/08, no principal work activities this reporting month.
  - Rock filling works
  - Pre-treatment works
  - Bar fixing works
  - ELS works
  - Diaphragm Wall, Barrette construction and King Post installation works
  - Slurry and fill disposal works
- 2.4.9. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

Nil

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

Reclamation in WCR3

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

- · Reinstatement of vertical seawall at TPCWAE
- Dredging work near Noon Day Gun

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

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Nil



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

- Removal of rock armour
- Dry dock construction
- Installation of pipe pile wall
- Removal of temporary piling platform for culvert diversion
- · Construction of culvert

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

- Rock filling works
- Pre-treatment works
- Bar fixing works
- ELS works
- Diaphragm Wall, Barrette and King Post construction work
- · Slurry and fill disposal works



#### 3 Status of Regulatory Compliance

#### 3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-11/364/2009/B	2 May 2014	Valid

- 3.1.2. 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
- 3.1.3. The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.

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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in *Table 3.2* and *Table 3.3*.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-02/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for	GW-RS1472-14	2 Jan 2015	22 Jan 2015 to 21 Jul 2015	Replaced by GW-RS0101-15
non-piling equipment	GW-RS0079-15	27 Jan 2015	16 Feb 2015 to 14 Aug 2015	Valid
	GW-RS0104-15	3 Feb 2015	22 Feb 2015 to 21 Aug 2015	Valid
	GW-RS0101-15	3 Feb 2015	22 Feb 2015 to 21 Aug 2015	Valid
	GW-RS0074-15	22 Jan 2015	10 Feb 2015 to 9 Aug 2015	Valid
	GW-RS0243-15	16 Mar 2015	25 Mar 2015 to 24 Sept 2015	Valid
	GW-RS-269-15	16 Mar 2015	8 Apr 2015 to 7 Oct 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0408-15	13 Apr 2015	20 Apr 2015 to 19 Oct 2015	Valid
	GW-RS0416-15	16 Apr 2015	8 May 2015 to 7 Nov 2015	Valid
	GW-RS0445-15	30 Apr 2015	26 May 2015 to 25 Nov 2015	Valid
	GW-RS0462-15	30 Apr 2015	2 May 2015 to 1 Nov 2015	Valid
Discharge Licence	WT00021138-2015	13 Apr 2015	31 Mar 2020	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/16-018	2 Jun 2015	6 Jun 2015 to 30 Sept 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal	EP/MD/16-007	24 Apr 2015	28 Apr 2015 to 27 May 2015	Expired
(Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/16-019	3 Jun 2015	6 Jun 2015 to 5 Jul 2015	Valid

Table 3.3 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.6	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010



EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Rev. 7)	21 Nov 2014
	Silt Screen Deployment Plan (Rev. 6)	20 Aug 2014
Condition 2.9	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
0	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011
Condition 2.9	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013

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

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Further Environmental Permit			Expiry Date	
	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS1425-14	23 Dec 2014	25 Dec 2014 to 21 Jun 2015	Expired
	GW-RS0066-15	21 Jan 2015	23 Jan 2015 to 15 Jul 2015	Cancelled
	GW-RS0085-15	27 Jan 2015	14 Feb 2015 to 13 Aug 2015	Valid
Construction Noise Permit	GW-RS0014-15	7 Jan 2015	8 Jan 2015 to 1 Jul 2015	Valid
(CNP) for non-piling equipment	GW-RS0098-15	30 Jan 2015	1 Feb 2015 to 28 Jul 2015	Cancelled
	GW-RS0198-15	24 Feb 2015	26 Feb 2015 to 22 Aug 2015	Valid
	GW-RS0236-15	13 Mar 2015	25 Mar 2015 to 24 Sep 2015	Valid
	GW-RS0246-15	13 Mar 2015	22 Mar 2015 to 13 Sep 2015	Valid
	GW-RS0366-15	2 April 2015	7 Apr 2015 to 7 Jul 2015	Valid
	GW-RE0424-15	4 May 2015	4 May 2015 to 30 May 2015	Expired
	GW-RS0445-15	30 April 2015	27 May 2015 to 26 Nov 2015	Valid
	GW-RS0447-15	30/4/2015	22 May 2015 to 21 Nov2015	Valid
	GW-RS0454-15	30/4/2015	2 May 2015 to 28 Oct 2015	Valid
	GW-RS0458-15	30/4/2015	2 May 2015 to 29 Oct 2015	Valid
	GW-RS0544-15	22 May 2015	26 May 2015 to 18 Nov 2015	Valid
	GW-RS0610-15	10 Jun 2015	22 Jun 2015 to 21 Dec 2015	Valid
	GW-RS0637-15	11 Jun 2015	18 Jun 2015 to 8 Dec 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
Discharge Licence	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
2.003.90 2.001100	WT00008982-2011	26 Apr 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-181	29 Dec 2014	1 Jan 2015 to 30 Jun 2015	Valid

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.8	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
	Silt Screen Deployment Plan	21 April 2010
Condition 2.9	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010

EP Condition	Submission	Date of Submission
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.19	Landscape Plan (Control of Night Time Lighting)	2 June 2010
Condition 2.18	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

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

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under FEP-04/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for seawall removal works at TS4/ME4	GW-RS0021-15	13 Jan 2015	16 Jan 2015 to 15 Jul 2015	Valid
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0150-15	11 Feb 2015	13 Feb 2015 to 10 Aug 2015	Valid
Construction Noise Permit (CNP) for reclamation and d-wall works at Ex-PCWA	GW-RS0329-15	16 Mar 2015	1 Apr 2015 to 29 Sept 2015	Superseded by GW-RS0579- 15
	GW-RS0579-15	29 May 2015	31 May 2015 to 26 Nov 2015	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Disposal by Vessel)	7011761	23 Dec 2014	17 Apr 2015 to 16 Jul 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-205	19 Jan 2015	28 Jan 2015 to 27 Jul 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal(Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/16-028	12 Jun 2015	15 Jun 2015 to 14 Jul 2015	Valid

Table 3.7 Summary of submission status under FEP-04/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Noise Management Plan	20 Oct 2010
Contaition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.7. Implementation status of the recommended mitigation measures during this reporting period is presented in <u>Appendix 3.1.</u>

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

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.8* 



## Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0076-15	21 Jan 2015	23 Jan 2015 to 22 Jul 2015	Valid
Discharge License (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-

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

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-06/356/2009 are shown in *Table 3.9* and *Table 3.10*.

Table 3.9 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Water Discharge Licence	WT00018223-2014	28 Jan 2014	31 Jan 2019	Superseded by WT0002059 4-2014
	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
Construction Noise Permit	GW-RS0295-15	19 Mar 2015	27 Mar 2015 to 26 Sep 2015	Valid
	GW-RS0296-15	19 Mar 2015	23 Mar 2015 to 22 Sep 2015	Valid
	PP-RS0008-15	10 Mar 2015	12 Mar 2015 to 11 Sep 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0145-15	11 Feb 2015	13 Feb 2015 to 12 Aug 2015	Valid
	GW-RS0144-15	12 Feb 2015	13 Feb 2015 to 12 Aug 2015	Valid
	GW-RS0223-15	3 Mar 2015	9 Mar 2015 to 8 Sep 2015	Valid
	GW-RS-0360-15	1 Apr 2015	2 May 2015 to 31 Oct 2015	Valid

Table 3.10 Summary of submission status under EP-356/2009 and FEP-06/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 2013
Condition 2.23	Noise Management Plan (Rev. 2)  Generally in ord commented by on 15 Aug 2013	
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013

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

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under FEP-07/356/2009 are shown in Table 3.11 and Table 3.12.

Table 3.11 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7020947	22 Dec 2014	NIL	Valid.
Water Discharge Licence	WT00020753-2015	3 Feb 2015	28 Feb 2017	Valid
Construction Noise Permit	GW-RS0154-15	11 Feb 2015	12 Feb 2015 to 8 Aug 2015	Valid
	GW-RS0309-15	20 Mar 2015	21 Mar 2015 to 19 Sep 2015	Valid
	GW-RS0531-15	18 May 2015	18 May 2015 to 17 Nov 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-169	9 Feb 2015	8 Aug 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/16-008	28 Apr 2015	31 May 2015	Expired

Table 3.12 Summary of submission status under EP-356/2009 and FEP-07/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (rev03)	24 Dec 2014
Condition 2.9	Silt Screen Deployment Plan (rev02)	18 Feb 2015
Condition 2.23	Noise Management Plan (rev02)	25 Mar 2014
Condition 2.24	Landscape Plant (rev04)	23 Sep 2014



#### **Monitoring Requirements**

#### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Noise Monitoring Station

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	

#### **REAL-TIME NOISE MONITORING STATIONS**

- 4.1.2. The real-time noise monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.
- 4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

District	Station	Description
North Point	RTN2a	Electric Centre

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L<sub>eq</sub>). L<sub>eq (30 minutes)</sub> 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<sub>eq (5 minutes)</sub> 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.
- 4.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

#### **MONITORING EQUIPMENT**

- 4.1.8. 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.
- 4.1.9. 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.

#### 4.2 Air Monitoring

#### **AIR QUALITY MONITORING STATIONS**

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Air Monitoring Station

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

Remarks\*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was 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

- 4.2.2. 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.
- 4.2.3. 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.
- 4.2.4. 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

- 4.2.5. 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.
- 4.2.6. 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

- 4.2.7. 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.
- 4.2.8. 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.
- 4.2.9. 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.
- 4.2.10. 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.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

#### IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. 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
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in <u>Figure 4.1</u> to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. 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.
- 4.2.15. 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.
- 4.2.16. 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 <u>Appendix 4.1.</u>
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

#### 4.3 Water Quality Monitoring

- 4.3.1. 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.
- 4.3.2. 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

4.3.3. It is proposed to monitor the water quality at 1 WSD salt water intakes and 7 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 4.4* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

		•	J
Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
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

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Station Ref.	Location	Easting	Northing
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2
Cooling Water Inta	ke / WSD Salt Water Intake		
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake	836268.0	816020.0

#### **WATER QUALITY PARAMETERS**

- 4.3.4. 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 in-situ while SS is determined in laboratory.
- 4.3.5. 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.

#### SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. 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 4.5* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

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

#### Notes:

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

#### DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.7. 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
- 4.3.8. 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).
- 4.3.9. 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

4.3.10. 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**

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

#### SAMPLE CONTAINER AND STORAGE

4.3.12. 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

4.3.13. 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.

#### SALINITY

4.3.14. 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

4.3.15. 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

- 4.3.16. 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.
- 4.3.17. 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.
- 4.3.18. 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.
- 4.3.19. Current calibration certificates of equipments are presented in Appendix 4.2.

#### LABORATORY MEASUREMENT / ANALYSIS

4.3.20. 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

- 4.3.21. 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.
- 4.3.22. 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 4.6* and *Figure* 4.1.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

<sup>-</sup> Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme.

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- Enhanced DO monitoring stations (Ex-PCWA SW and Ex-PCWA SE) was finely adjusted to the PCWAE since 7 November 2014.
- 4.3.23. 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 equal to or less than 3m, only the mid-depth will be monitored).

#### DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. 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.
- 4.3.25. 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 sahll 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

- 4.3.26. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.3.27. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 4.3.28. 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).



#### 5. Monitoring Results

- 5.0.1. 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 4.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
  - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
  - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
  - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
  - Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
  - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

#### 5.1 Noise Monitoring Results

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

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.2. No action or limit level exceedance was recorded in this reporting month.
- 5.1.3. 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>5.2.</u>



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

5.1.4. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2 Noise Monitoring Station for Contract no. HY/2009/15

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

- 5.1.5. No action or limit level exceedance was recorded in this reporting month.
- 5.1.6. 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>5.2.</u>

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

5.1.7. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Station for Contract no. HY/2009/19

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

- 5.1.8. Three limit level exceedances were recorded at M6 monitoring station on 5, 9 and 16 June 2015 in this reporting month.
- 5.1.9. Traffic noise was observed during monitoring on 5, 9 and 16 June 2015 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 5.1.10. 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>5.2.</u>

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

5.1.11. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.



#### Table 5.4 Noise Monitoring Station for Contract no. HY/2010/08

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

- 5.1.12. No action or limit level exceedance was recorded in this reporting month.
- 5.1.13. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> 5.2.

#### 5.2 Real-time Noise Monitoring

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

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

Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/19

District	Station	Description
North Point	RTN2a	Electric Centre

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012
- 5.2.5 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 23, 24 and 25 June 2015 during day time in the reporting month. After checking with Contractor of



HY/2009/19, pile cap breaking works was conducted on 23 and 24 June 2015 and pile cap excavation works was conducted on 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers.

5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.5.** 

#### 5.3 Air Monitoring Results

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

5.3.1. 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 divisions of air monitoring stations are summarized in *Table 5.6* below.

Table 5.6 Air Monitoring Stations for Contract no. HK/2009/01

Station	Description	
CMA5b	Pedestrian Plaza	
CMA6a	WDII PRE Site Office	

5.3.2. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3.</u>

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

5.3.3. 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 are summarized in *Table 5.7* below. No exceedance was recorded in the reporting month.

Table 5.7 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.3.4. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3.</u>



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

5.3.5. 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 5.8* below.

Table 5.8 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

5.3.6. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

5.3.7. The proposed division of air monitoring stations are summarized in *Table 5.9* below.

Table 5.9 Air Monitoring Stations for Contract no. HY/2009/19

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

5.3.8. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

5.3.9. The proposed division of air monitoring stations are summarized in *Table 5.10* below.

Table 5.10 Air Monitoring Stations for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza

5.3.10. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.



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

5.3.11. The proposed division of air monitoring stations are summarized in *Table 5.11* below. No exceedance was recorded in the reporting month.

Table 5.11 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

5.3.12. No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

#### 5.4 Water Monitoring Results.

- 5.4.1. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2015.
- 5.4.2. With respect to the water pipe modification works and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the water quality monitoring station C7 was cancelled on 10 June 2015 during flood tide.
- 5.4.3. With respect to the water pipe modification works conducted for the diverted seawater supply system to the Windsor House Cooling water intake and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the respective water quality monitoring at WQM station C7 was temporarily suspended from 12 June 2015. The water quality monitoring at WQM station C7 has resumed on 17 June 2015 upon completion of the water pipe modification works.
- 5.4.4. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.
- 5.4.5. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014
- 5.4.6. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- 5.4.7. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- 5.4.8. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme

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- and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.9. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
- 5.4.10. As confirmed by WDII RSS and IEC, the cross harbour dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
- 5.4.11. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- 5.4.12. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
- 5.4.13. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- 5.4.14. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- 5.4.15. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April
- 5.4.16. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 5.4.17. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- 5.4.18. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.



- 5.4.19. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- 5.4.20. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 5.4.21. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.22. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
- 5.4.23. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 5.4.24. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- 5.4.25. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.26. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.



### Table 5.12 Water Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1 <sup>1</sup>	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 <sup>1</sup> , C1 <sup>1</sup>	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 <sup>3</sup> , P3 <sup>3</sup> , P4 <sup>3</sup> , P5 <sup>3</sup>	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 <sup>4</sup> , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 <sup>4</sup> , C7 (plus enhanced DO monitoring)	Mar 2014

#### Remarks:

- -The water monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.
- -4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring.
- -Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)
- -Enhanced DO Monitoring at C6 since the intake abandon in May 2011.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

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

5.4.27. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.13* below.

Table 5.13 Water Monitoring Stations for Contract no. HK/2009/01

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

#### Remarks:

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



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

5.4.28. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2009/02

		1	
Station Ref.	Location	Easting	Northing
Cooling Water Inta	ke		
C1	HKCEC Extension	835885.6	816223.0
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 water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8
   Feb 2012.
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

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

5.4.29. 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 5.15* below.

Table 5.15 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing				
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				



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

- 5.4.30. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 5.4.31. 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 are summarized in Table 5.16 below.
- 5.4.32. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

Table 5.16 Water Monitoring Stations for Contract no. HY/2009/15

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

#### Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.

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

- 5.4.33. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012.
- 5.4.34. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 5.4.35. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.36. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.



- 5.4.37. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake C6 was terminated effective from 26 May 2011.
- 5.4.38. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 5.4.39. Water monitoring results measured in this reporting period are reviewed and summarized.

  Details of water quality monitoring results and graphical presentation can be referred in 
  Appendix 5.4.

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	1	0	1
Total		0	0	0	0	0	0	0	0	0	1	0	1

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

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



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- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area
- 5.4.40. There was no action and 1 limit level of turbidity exceedance, and no action and 1 limit level of suspended solid exceedance recorded in the reporting month. Investigation found that the exceedance was not related to Project works. The details of recorded exceedance can be referred to the Section 6.4.
- 5.4.41. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table* 5.18.

Table 5.18 Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	)	DO		
		AL	LL	AL	LL	
	C6	0	0	0	0	
HY/2009/15	C7	0	0	0	0	
111/2009/13	Ex-WPCWA SW	1	1	1	2	
	Ex-WPCWA SE	0	0	0	0	
	Total		1	1	2	

- 5.4.42. There were 2 action level and 3 limit level exceedance of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedance was not related to Project works. The details of recorded exceedance can be referred to the Section 6.4.
- 5.4.43. 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. Details of additional DO monitoring results can be referred in Appendix 5.4.
- 5.4.44. 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

5.4.45. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.

#### 5.5 Waste Monitoring Results

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

5.5.1. No inert C&D waste and non- inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.19*.

Table 5.19 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m <sup>3</sup>	NIL	5856.5	N/A
Non-inert C&D materials disposed, m³	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), m³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	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

5.5.2. There were no marine sediment Type 1- Open Sea Disposal and no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.5.3. No inert C&D waste and Non-inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20*.

Table 5.20 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	NIL	276075.1	TKO137 / TM 38
Inert C&D materials recycled, m <sup>3</sup>	NIL	18161	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup> *	NIL	243815 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup> *	NIL	150573 (Bulk volume)	East of Sha Chau

5.5.4. There was no marine sediment Type 1 – Open Sea Disposal (Dedicate Sties) and no Type 1 Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.5.5. No Inert C&D waste and no non- inert C&D waste disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.21* 

Table 5.21 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m <sup>3</sup>	NIL	141579.2	Tuen Mun Area 38	NIL
diopocoa, iii	NIL	65216	TKO137 FB	NIL
Inert C&D materials	NIL	304	Ex-PCWA	NIL



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
recycled, m <sup>3</sup>	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m³	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 <sup>3</sup>	NIL (Bulk Volume)	126298 (Bulk Volume)	Cheung Chau South	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL (Bulk Volume)	288615 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m <sup>3</sup>	NIL (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m³	NIL	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal), m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

5.5.6. There was no Type 1 Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal and no Type 1 Open Sea Disposal disposed in this reporting month.

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

5.5.7. No inert C&D waste and non-inert C&D waste disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.22*.

Table 5.22 Details of Waste Disposal for Contract no. HY/2009/19

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

5.5.8. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

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

5.5.9. There was no Inert C&D waste and no non-inert C&D waste disposed in this reporting month.

Details of the waste flow table are summarized in *Table 5.23*.

Table 5.23 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	NIL	4131	TM38
Inert C&D materials recycled, m³	NIL	NIL	N/A



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Non-inert C&D materials disposed, m <sup>3</sup>	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 – Open Sea Disposal), m³	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

5.5.10. No Marine Sediment Type 1 – Open Sea Disposal and no marine sediment Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.

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

5.5.11. Inert C&D waste was disposed and no non-inert C&D waste disposed in this reporting month.

Details of the waste flow table are summarized in *Table 5.24* 

Table 5.24 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m³	147948.9	267660.2	N/A
Inert C&D materials recycled, m³	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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 / Brothers Island *
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	27760	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island

Remarks: Under the condition of EP/MD/15-169, dredged sediment required to dispose at South of the Brothers since 9 Feb 2015.

5.5.12. There was no Type 1 – Open Sea Disposal, Type 3 – Special Treatment and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting month.



#### 6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.

#### 6.1 Noise Monitoring

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

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.4 Three limit level exceedances were recorded on 5, 9 and 16 June 2015 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 5, 9 and 16 June 2015, traffic noise was the major contribution in the noise monitoring and exceedance was not related to the Project.

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

6.1.5 No exceedance was recorded in the reporting month.

#### 6.2 Real-time noise Monitoring

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

6.2.1. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 23, 24 and 25 June 2015 during day time in the reporting month. After checking with Contractor of HY/2009/19, pile cap breaking works was conducted on 23 and 24 June 2015 and pile cap excavation works was conducted on 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers.



#### 6.3 Air Monitoring

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

6.3.1 No exceedance was recorded in the reporting month.

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> Wan Chai East (CWB Tunnel)

6.3.2 No exceedance was recorded in the reporting month.

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

6.3.3 No exceedance was recorded in the reporting month.

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

6.2.1. No exceedance was recorded in the reporting month.

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

6.2.2. No exceedance was recorded in the reporting month.

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

6.2.3. No exceedance was recorded in the reporting month.

#### 6.4 Water Quality Monitoring

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

6.4.1 No exceedance was recorded in the reporting month.

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

6.4.2 No exceedance was recorded in the reporting month.

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

- 6.4.3 There were occasionally limit exceedance was recorded at Ex-WPCWA SW on 28 May, 5, 8, 10 and 17 June 2015 in the reporting month.
- 6.4.4 After checking with contractor, no marine activities were conducted at Ex-WPCWA on 28 May, 5, 8, 10 and 17 June 2015 and upstream discharge at the concerned location were

consistently observed. In view of no marine work activity was conducted and no exceedance on the subsequent monitoring, it was considered the exceedances were not related to Project. .

- 6.4.5 There were limit exceedances of turbidity and suspended solid recorded at C7 on 10 June 2015.
- 6.4.6 After checking with contractor, no marine activities were conducted in the vicinity of C7 monitoring station on 10 June 2015. In view of no marine work activity was conducted, it was considered the exceedances were not related to Project.

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

6.4.7 No exceedance was recorded in this reporting month.

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

6.4.8 No exceedance was recorded in this reporting month.

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

- 6.4.9 There were limit exceedances of turbidity and suspended solid recorded at C7 on 10 June 2015.
- 6.4.10 After checking with contractor, water pipe modification works for the diverted seawater intake was conducted on 10 June 2015. Contractor clarified the seawater supplies to respective cooling water intake pump station for Windsor House was temporary suspended. In addition, no further exceedance was recorded on 17 July 2015 after the resumption of water supplies. In view of the above, the respective cooling water intake was considered not affected by project works.
- 6.5 Review of the Reasons for and the Implications of Non-compliance
- 6.5.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.
- 6.5.2 No non-compliances from monitoring was recorded in the reporting month.
- 6.6 Summary of action taken in the event of and follow-up on non-compliance
- 6.6.1 There was no particular action taken since no non-compliance was recorded from the site audits in the reporting period.

#### 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, removal of L-shape wall, installation of caisson seawall and ELS works were performed in June 2015 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 and ELS works at Wan Chai East and temporary reclamation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, land based bored pilling works and ELS works at Victoria Park, D- wall construction and ELS works at TS3, IEC demolition and tunnel works at North Point area in the reporting month.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



#### 8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 were conducted on 3, 10, 18 and 24 June 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.1.*

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
150603_01	3-Jun-15	Wheel washing shall be implemented at Gate V8.	Gate V8 has been closed for use.	Completion as observed on 10 June 2015
150603_02	3-Jun-15	The dispose of uncontaminated water shall be protected from the excavated surface before discharge at Stage 3.	The pipe transferring the uncontaminated water has been diverted and away from the excavated surface.	Completion as observed on 10 June 2015
150603_03	3-Jun-15	Chemical waste shall be properly handled and stored in chemical storage at Stage 3.	Chemical waste has been taken away and disposed.	Completion as observed on 10 June 2015
150610_01	10-Jun-15	Drip tray shall be provided for oil containers at Stage 3.	Oil containers has been relocated to designated chemical storage area.	Completion as observed on 18 June 2015
150624_01	24-Jun-15	Hole of drip tray shall be covered at outfall.	The air compressor has been relocated and the works area at outfall has been cleared and no further environmental impact is noted.	Completion as observed on 2 July 2015

8.0.3. Five site inspections for Contract no. HK/2009/02 were carried out on 28 May, 4, 11, 17 and 25 June 2015 in reporting month. Results of these inspections and outcomes are summarized in *Table 8.2*.

Table 8.2 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
150617_01		shall be fully extended to seabed level to safeguard the	PW21-P789 has fully	

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 2, 9, 16 and 22 June 2015 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.



Table 8.3 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
150602_1	2-Jun-2015	Three side and top cover provided for grouting station shall be free of opening and gap (EX-PCWA)	The opening of the grouting station was covered	Completion as observed on 9 Jun 2015
150602_2	2-Jun-2015	Water spraying shall be provided to breaking works (EX-PCWA)	Watering spraying was provided	Completion as observed on 9 Jun 2015
150602_3	2-Jun-2015	Review the wastewater treatment plant operation to prevent the direct discharge / overflow of muddy effluent (EX-PCWA)	The wastewater treatment plant was in proper operation condition	Completion as observed on 9 Jun 2015
150616_1	16-Jun-2015	Chemical waste container shall be properly stored/removed (EX-PCWA)	Chemical waste container was removed.	Completion as observed on 22 Jun 2015
150616_2	16-Jun-2015	Concrete wash off shall be collected and treated before discharge (EX-PCWA)	Collection tray was provided for collecting wash off	Completion as observed on 22 Jun 2015
150622_1	22-Jun-2015	Drip tray shall be provided to chemical waste container(EX-PCWA)	Chemical waste container was removed.	Completion as observed on 29 Jun 2015
150622_2	22-Jun-2015	Floating refuses shall be collected more regularly to avoid accumulation (EX-PCWA)	Floating refuses have been collected	Completion as observed on 29 Jun 2015
150622_3	22-Jun-2015	Collection point with sufficient capacity shall be provided for collecting concrete wash off. Surface effluent generated from concrete washing shall be properly collected to avoid overflow.  (EX-PCWA)	Additional concrete wash off collection point was provided with manual cleaning of wash off	Completion as observed on 29 Jun 2015

- 8.0.5. Four site inspections for Contract no. HY/2009/19 were carried out on 3, 10, 17 and 24 June 2015 in reporting month. No particular finding was observed in the reporting month.
- 8.0.6. Four site inspections for Contract no. HK/2012/08 were carried out on 2, 9, 16 and 23 June 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.5*

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
150602_01		•	Top and three sides of the grouting station	•



Item	Date	Observations	Action taken by Contractor	Outcome
		shall be covered properly	has improved and no effect on causing dust impact.	June 2015
150602_02	2-Jun-15	Floating refuses shall be collected at regular intervals.	Floating refuses has cleaned.	Completion as observed on 9 June 2015
150609_01	9-Jun-15	Cement bags shall be covered on site.	Cement bags were covered by impermeable sheet.	Completion as observed on 16 June 2015
_		Drip tray shall be provided for oil container at MVB area.	Drip tray is provided for oil container at MVB area	Completion as observed on 16 June 2015
150609_03	9-Jun-15	Chemical waste shall be properly handle and stored in chemical storage at MVB area.	Chemical waste has cleared at MVB area.	Completion as observed on 16 June 2015
150616_01	16-Jun-15	Drip tray shall be provided for oil containers at Portion 1B.	Drip tray has been provided for oil container at Portion 1B.	Completion as observed on 23 June 2015
150616_02	16-Jun-15	Floating refuses shall be collected at HKCEC2W area.	Floating refuses has cleaned.	Completion as observed on 23 June 2015
150623_01	23-Jun-15	Breaker shall be covered with acoustic material while operating next to Hong Kong Convention and Exhibition Centre.	Breaker were covered with acoustic material on site.	Completion as observed on 30 June 2015

8.0.7. Five site inspections for Contract no. HY/2010/08 were carried out on 28 May, 4, 11, 18 and 25 June 2015 in this reporting period. The results of these inspections and outcomes are summarized in *Table 8.6* 

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Outcome
150521_1	21-May-15	Site hoarding shall be provided to area adjoining public area and area not installed with site hoarding shall be	Pending Contractor for site hoarding installation and provide justification for area without site hoarding	Pending for Contractor follow up action
		sustained with supporting document (Victoria Park)	without site floarding	
150528_1	28-May-15	Direct discharge of muddy water was observed. Contractor should ensure the muddy water treated properly before discharge (TS3)	No further direct discharge was observed	Completion as observed on 4 Jun 2015
150528_2	28-May-15	Provide cleaning to public road (TS3, Victoria Park Gate 3)	Public road was maintained in proper condition	Completion as observed on 4 Jun 2015

150528_3	28-May-15	Provide proper vehicle washing at Tsing Fung Street site exit	Wheel washing and effluent collection was provided	Completion as observed on 4 Jun 2015
150604_1	4-Jun-15	Provide drip tray to chemical container (TS3)	Drip tray was removed	Completion as observed on 11 Jun 2015
150604_2	4-Jun-15	Equipment washing shall not be conducted at critical area adjacent to seawall edge to prevent seepage of surface overflow (TS3)	The concerned work was moved away from the critical location to avoid impact	Completion as observed on 11 Jun 2015
150604_3	4-Jun-15	Construction material shall not be placed near the root area of the protected / retained tree on-site (Victoria Park)	The construction material has been removed	Completion as observed on 11 Jun 2015
150611_1	11-Jun-15	Rectify the mud seepage from mud pit and provide pumping to avoid overflow of mud effluent into nearby water (TS3)	Additional embanking and bund was provided	Completion as observed on 18 Jun 2015
150611_2	11-Jun-15	Effluent water pipe shall be connected to water treatment facilities	The concerned piping was connected to the treatment facilities	Completion as observed on 18 Jun 2015
150611_3	11-Jun-15	Provide covering to cement bags (TS3)	Cement bag was removed	Completion as observed on 18 Jun 2015
150611_4	11-Jun-15	Floating refuse should be cleaned up around cooling water intake (TS3)	Floating refuses has been cleaned	Completion as observed on 18 Jun 2015
150618_1	18-Jun-15	Mud sitting on the edge of seawall should be clean to avoid surface runoff (TS3)	Mud residue has been cleared	Completion as observed on 25 Jun 2015
150618_2	18-Jun-15	Collect floating refuses and scum more frequently (TS3)	Floating refuses has been cleaned	Completion as observed on 25 Jun 2015
150618_3	18-Jun-15	Provide drip tray to chemical waste and oil cans (TS3, Victoria Park, Victoria Park Road)	Chemical waste container have been removed	Completion as observed on 25 Jun 2015
150625_1	25-Jun-15	Muddy seepage was observed at multiple point along the seawall. Drainage for surface runoff and embankment shall be reviewed and enhanced for effective runoff control. Mud residue on impervious surface shall also be cleaned to minimize contamination of runoff (TS3)	No further seepage observed and surface runoff related mud residue was cleared	Completion as observed on 2 July 2015

150625_2	25-Jun-15	Muddy water overflow to pedestrian path shall be cleaned immediately (TS3)	concerned seepage has been cleared	Completion as observed on 2 July 2015
150625_3	25-Jun-15	Mud residue resting at the edge of derrick barge during excavated material transfer shall be cleaned regularly and silt curtain shall be provided to avoid muddy dispersion (TS3)	Mud residue has been cleared	Completion as observed on 2 July 2015
150625_4	25-Jun-15	Watering shall be provided during building demolition works (Victoria Park)	Watering was provided	Completion as observed on 2 July 2015



#### 9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was one environmental complaint received in the reporting month.
- 9.0.2. The 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 moored 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 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 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.

- 9.0.3. Follow-up inspection was conducted during weekly 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.
- 9.0.4. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.5. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

### **Table 9.1 Cumulative Statistics on Complaints**

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	35
June 2015	1
Total	36

### Table 9.2 Cumulative Statistics on Successful Prosecutions

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



### 10. Conclusion

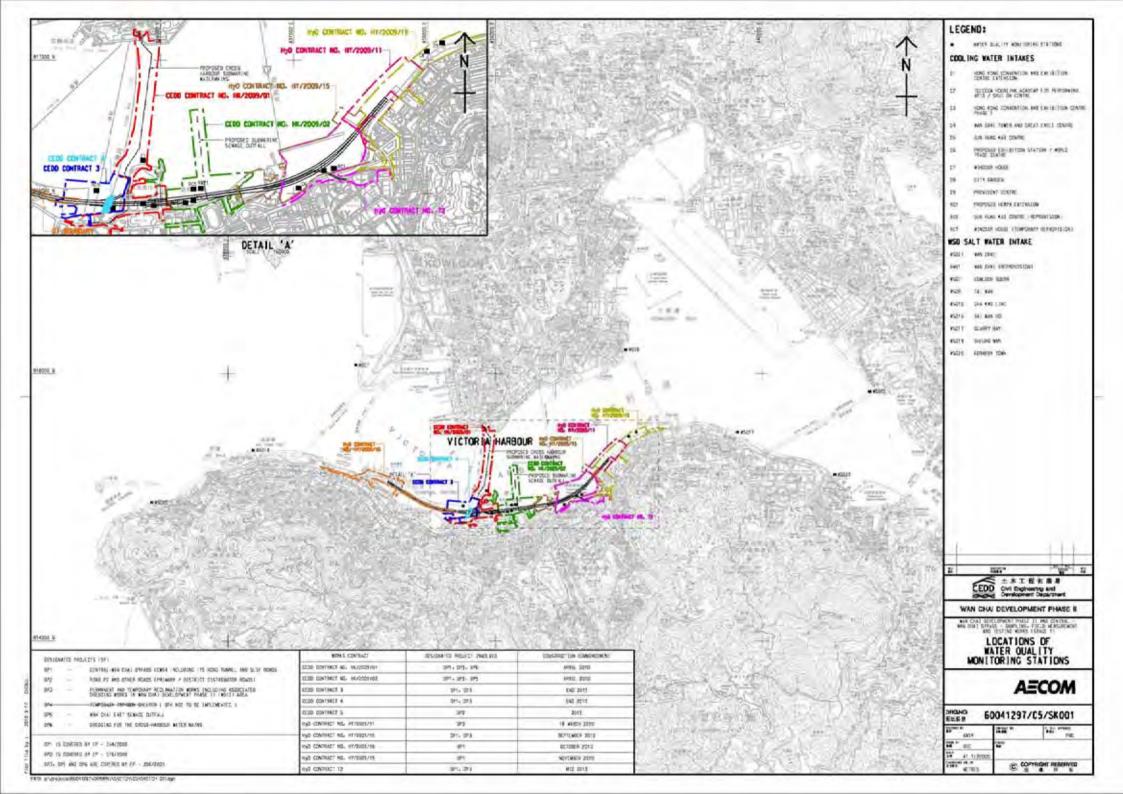
- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

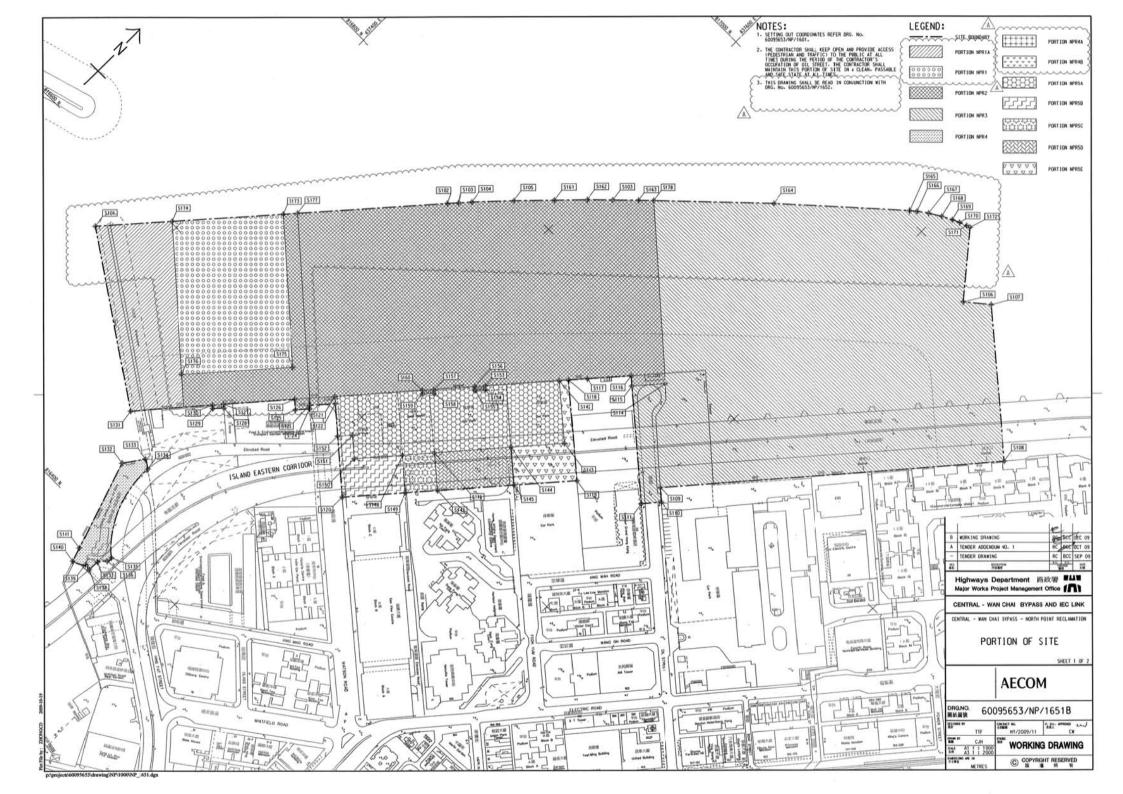
Table 10.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

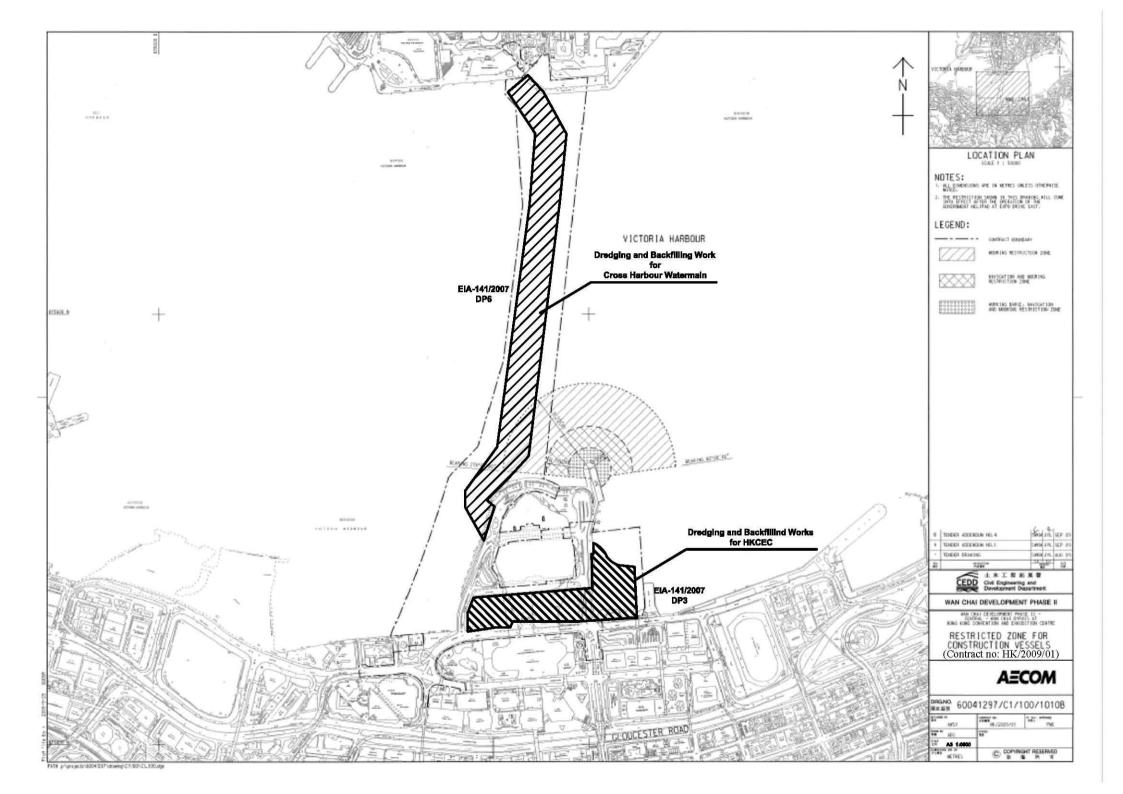
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Nil	• Nil
HK/2009/02	Reclamation at WCR3	• Nil
HY/2009/15	<ul> <li>Reinstatement of vertical seawall at TPCWAE</li> <li>Dredging works near Noon Day Gun</li> </ul>	<ul> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> <li>Implement silt curtain in accordance with the associated plans submitted to EPD.</li> </ul>
HY/2009/19	• Nil	To space out noisy equipment and position as far as possible from sensitive receiver.
HK/2012/08	<ul> <li>Removal of rock armour</li> <li>Dry dock construction</li> <li>Installation of pipe pile wall</li> <li>Removal of temporary piling platform for culvert diversion</li> <li>Construction of culvert</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>To space out noisy equipment and position as far as possible from sensitive receiver.</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>
HY/2010/08	<ul> <li>Rock filling works</li> <li>Pre-treatment works</li> <li>Bar fixing works</li> <li>ELS works</li> <li>Diaphragm Wall, Barrette construction and King Post installation works</li> <li>Slurry and fill disposal works</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>

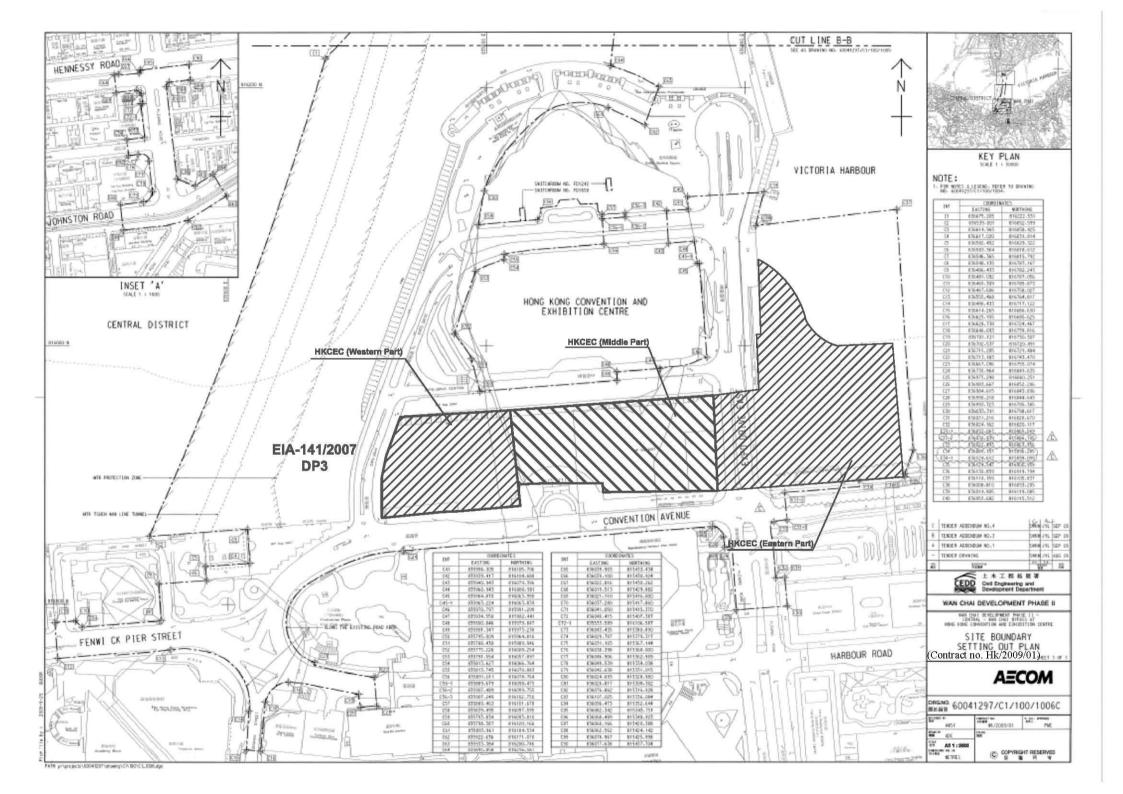
Figure 2.1

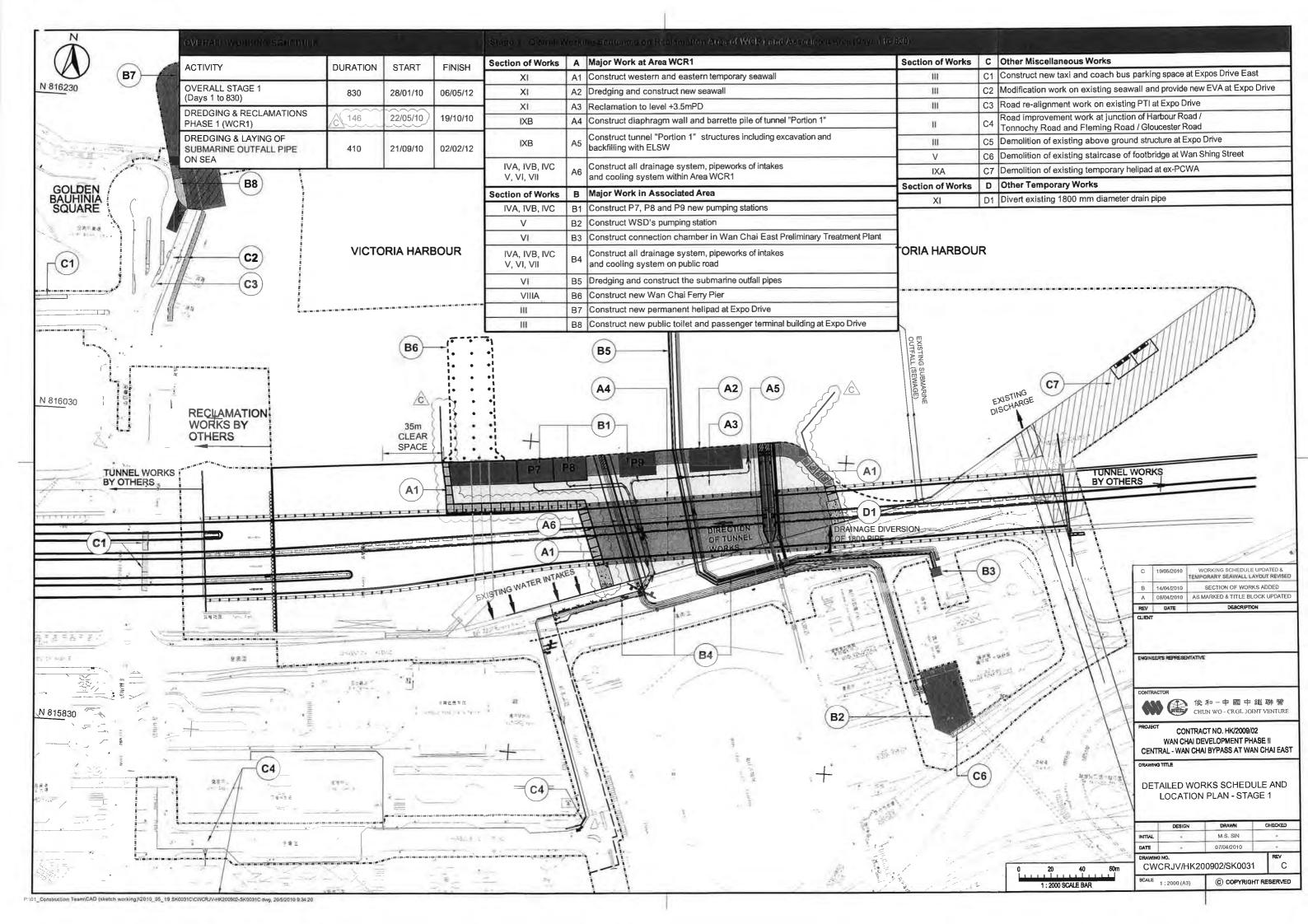
Project Layout

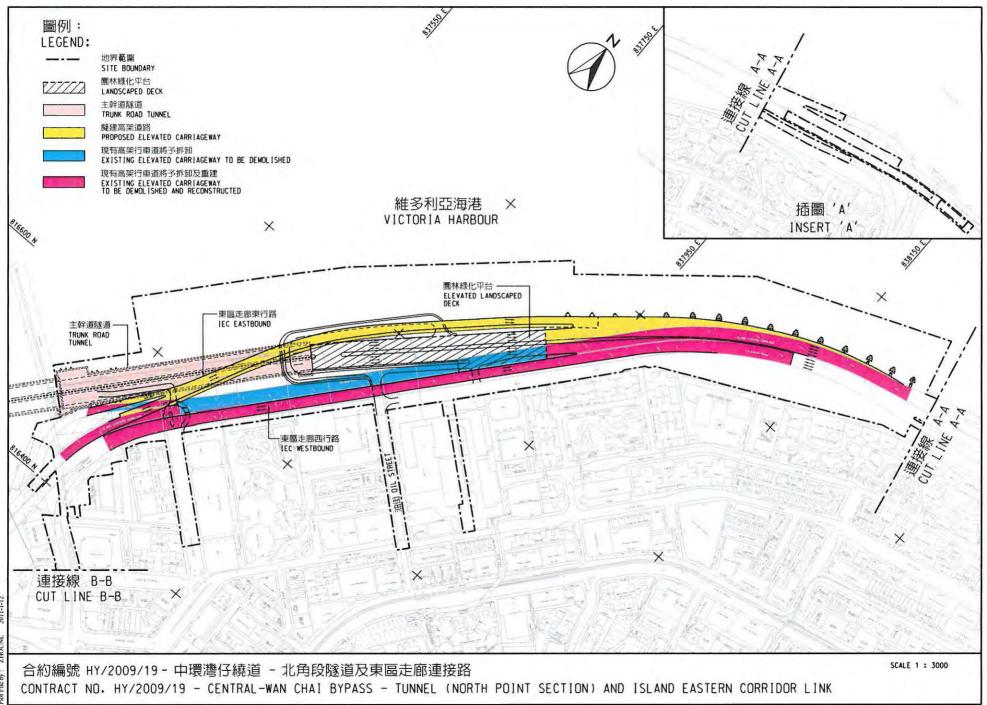


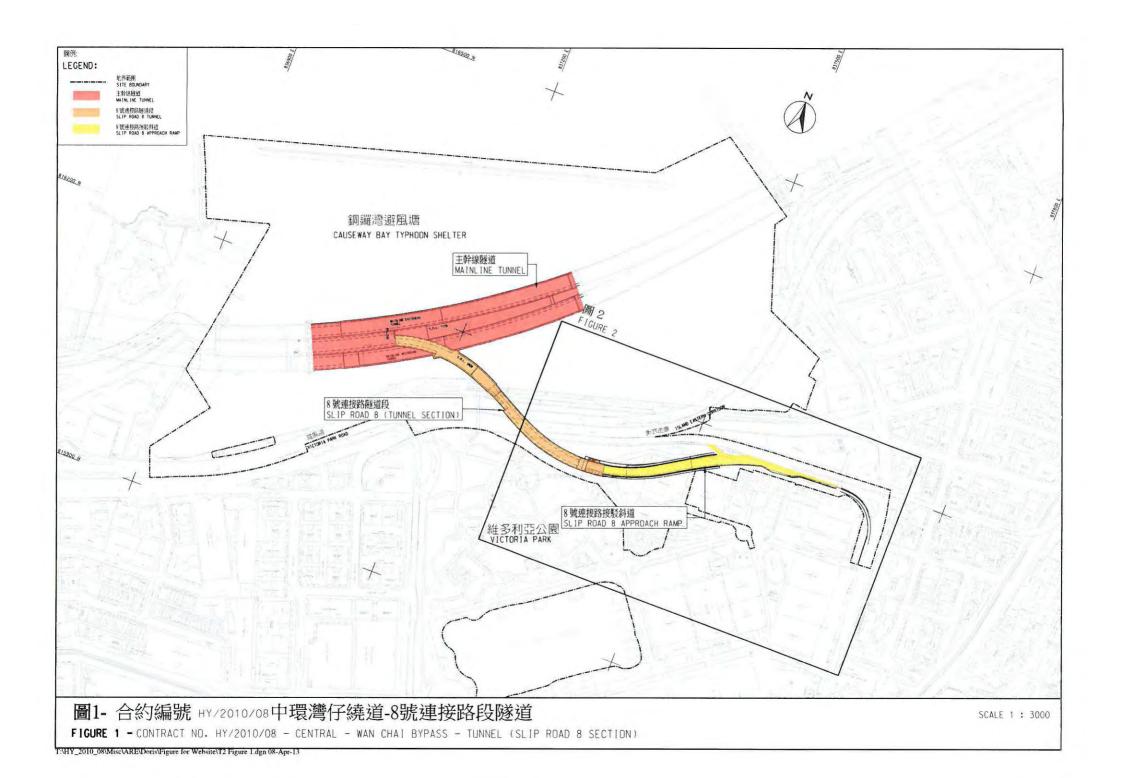


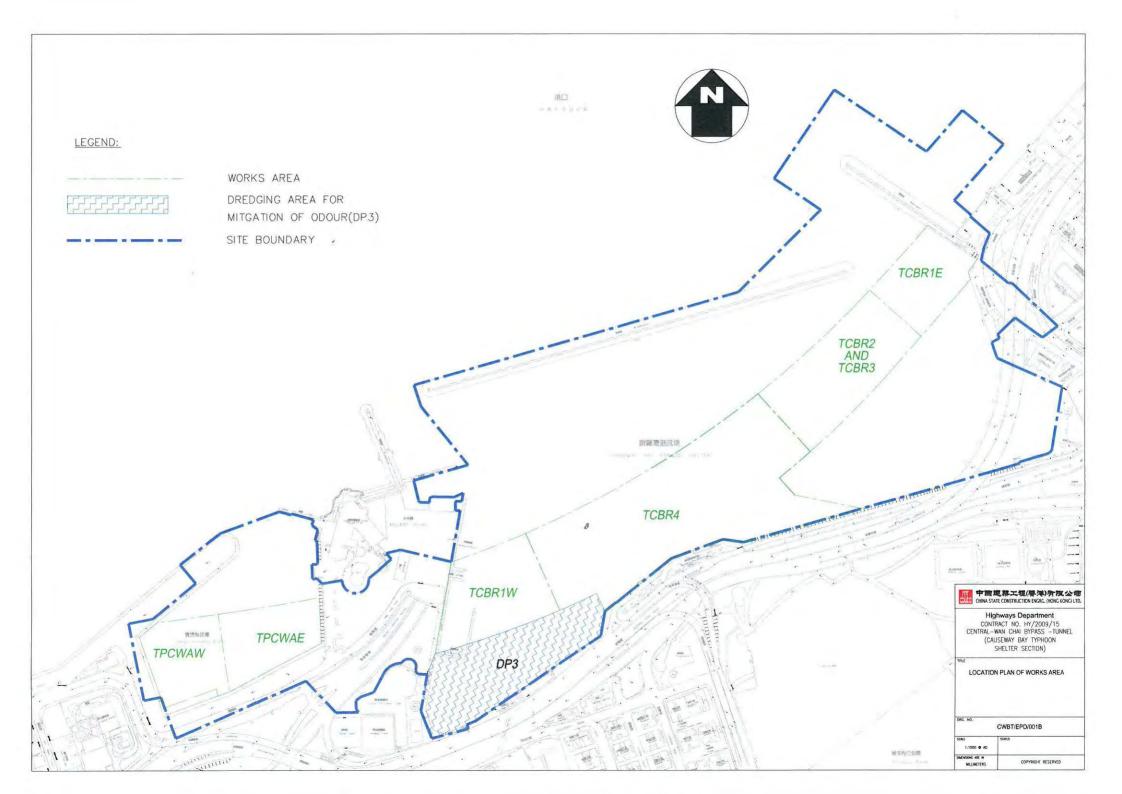


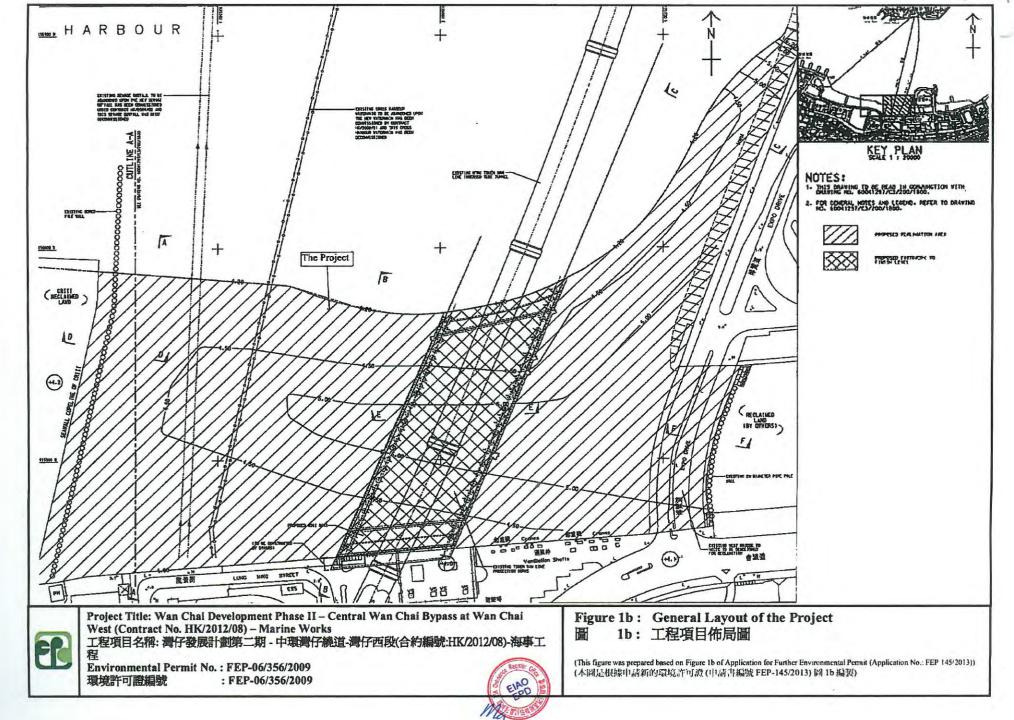








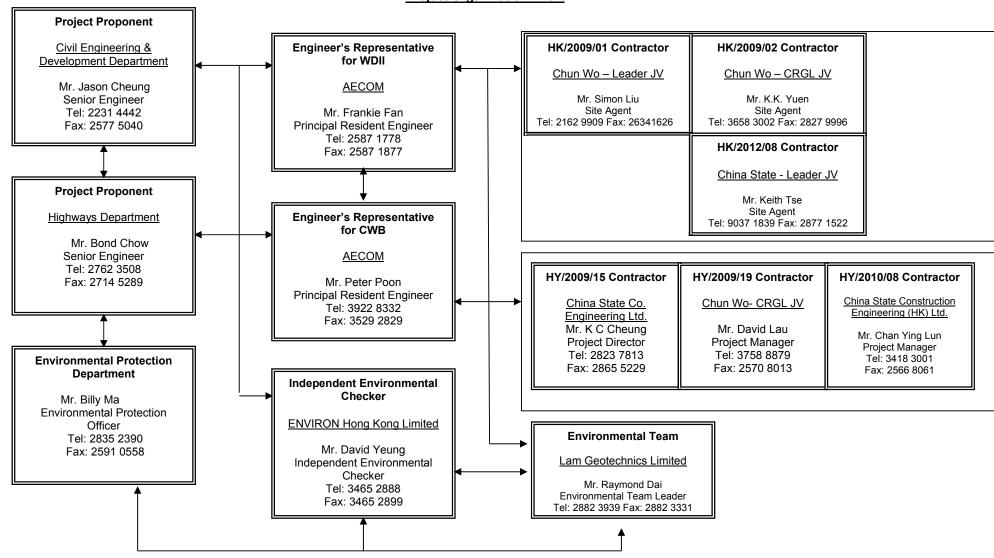




# Figure 2.2

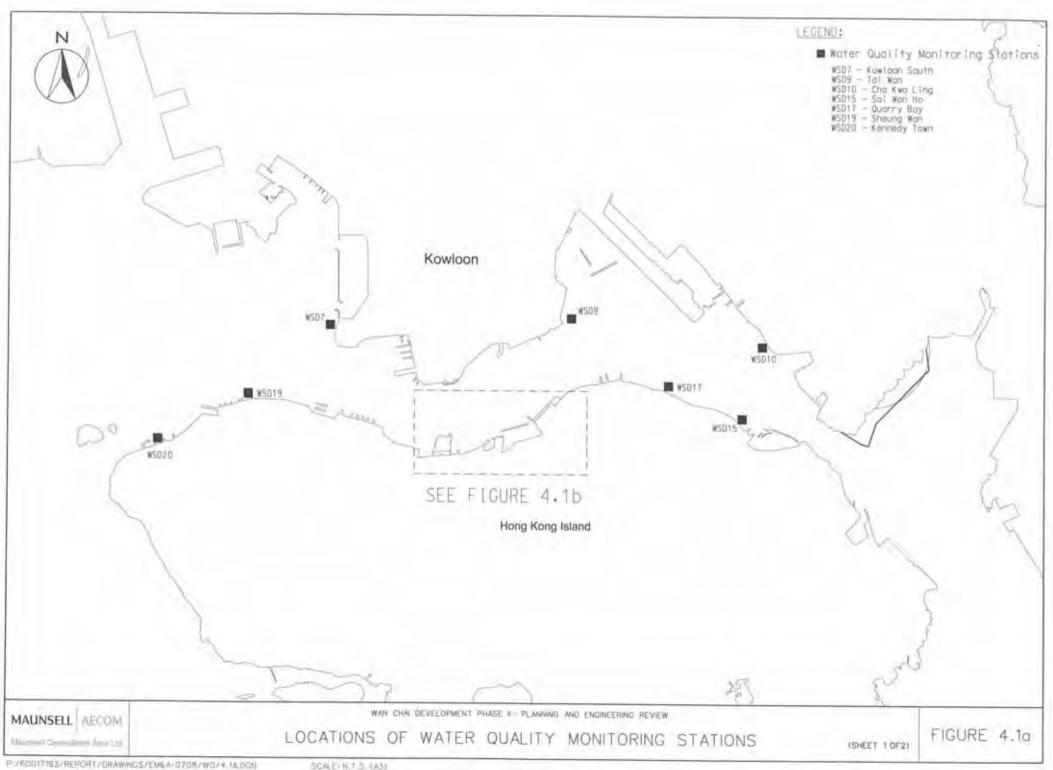
**Project Organization Chart** 

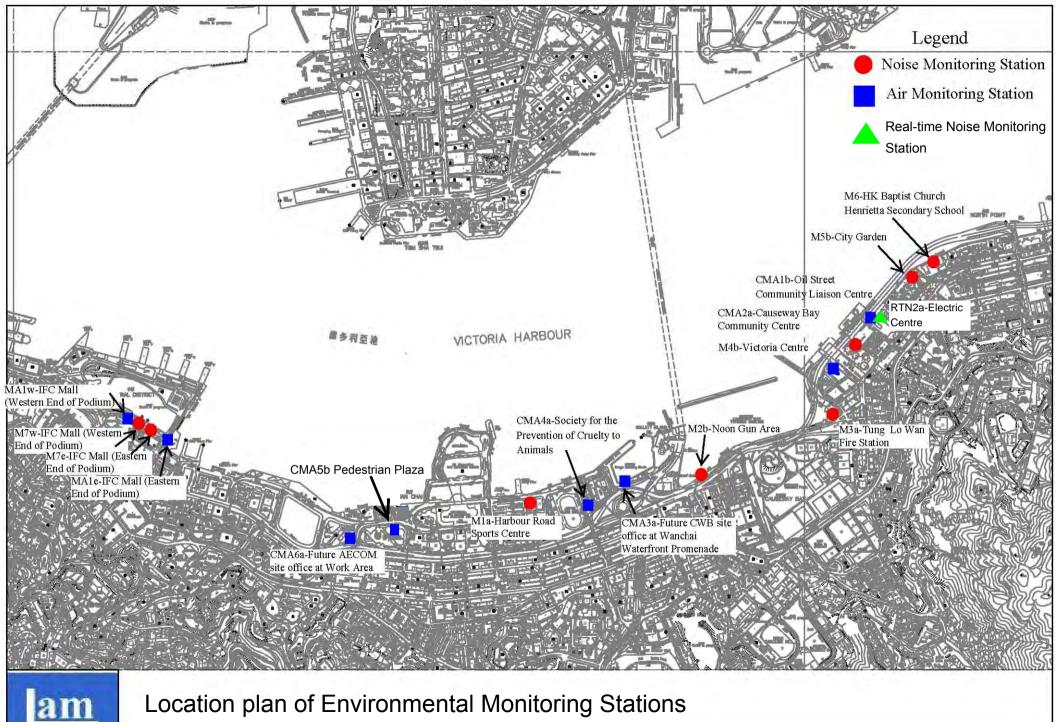
#### **Project Organization Chart**



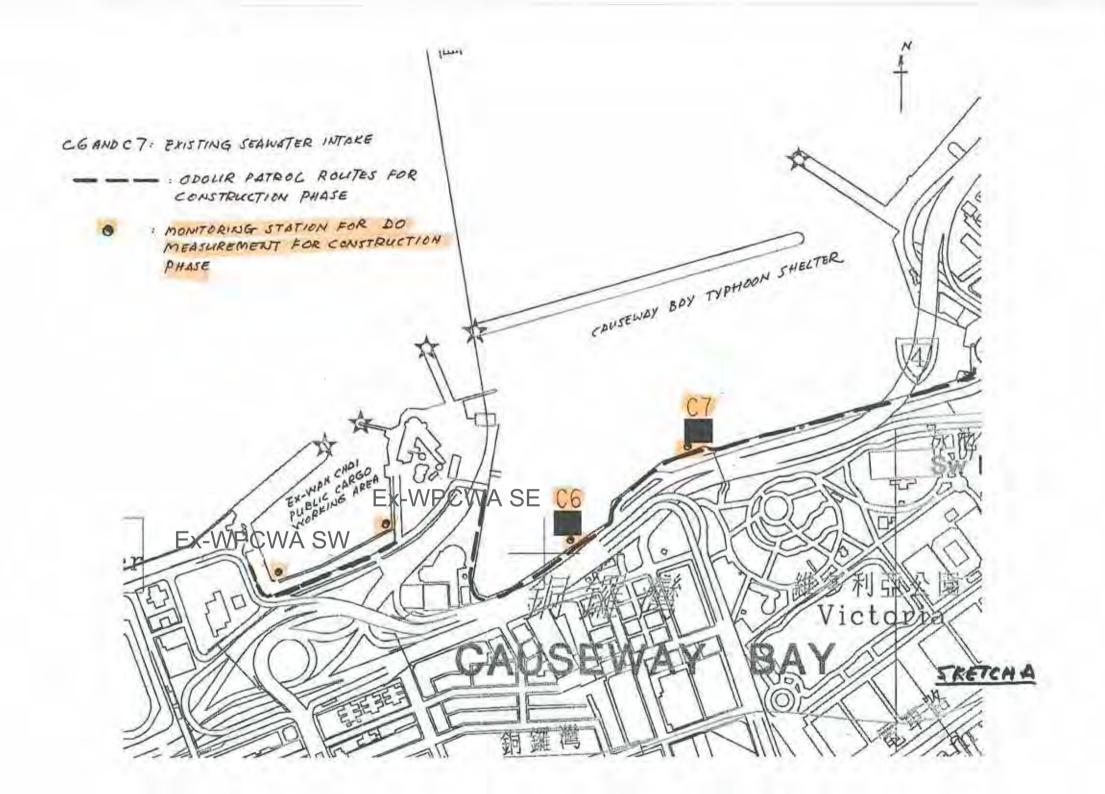
# Figure 4.1

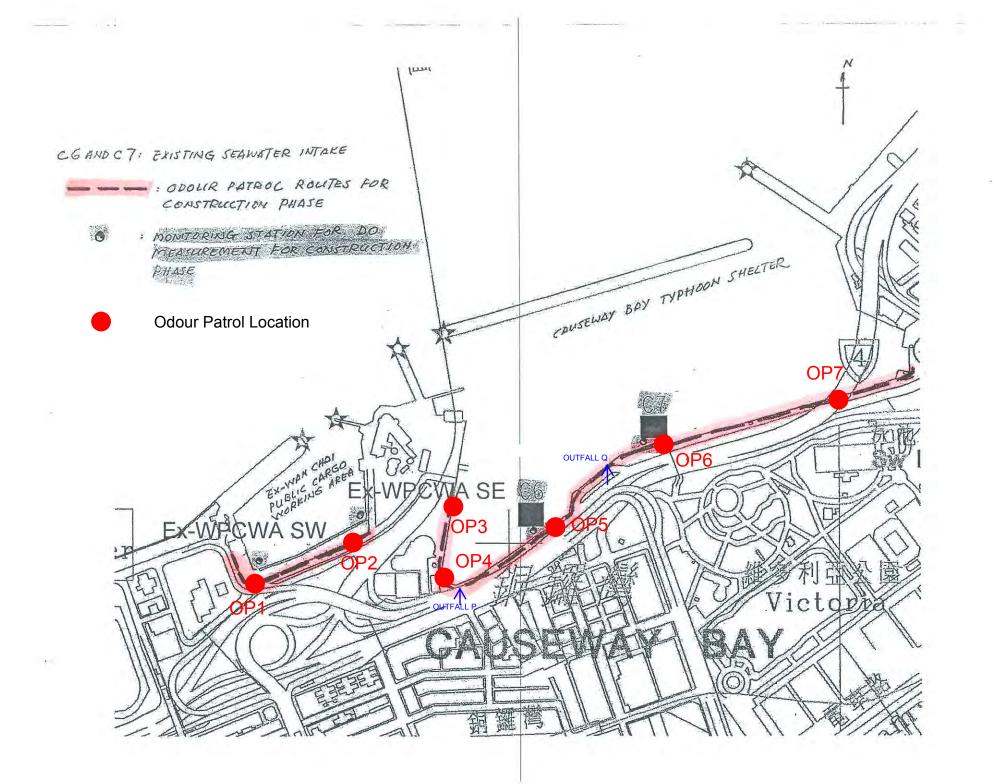
## Locations of Monitoring Stations

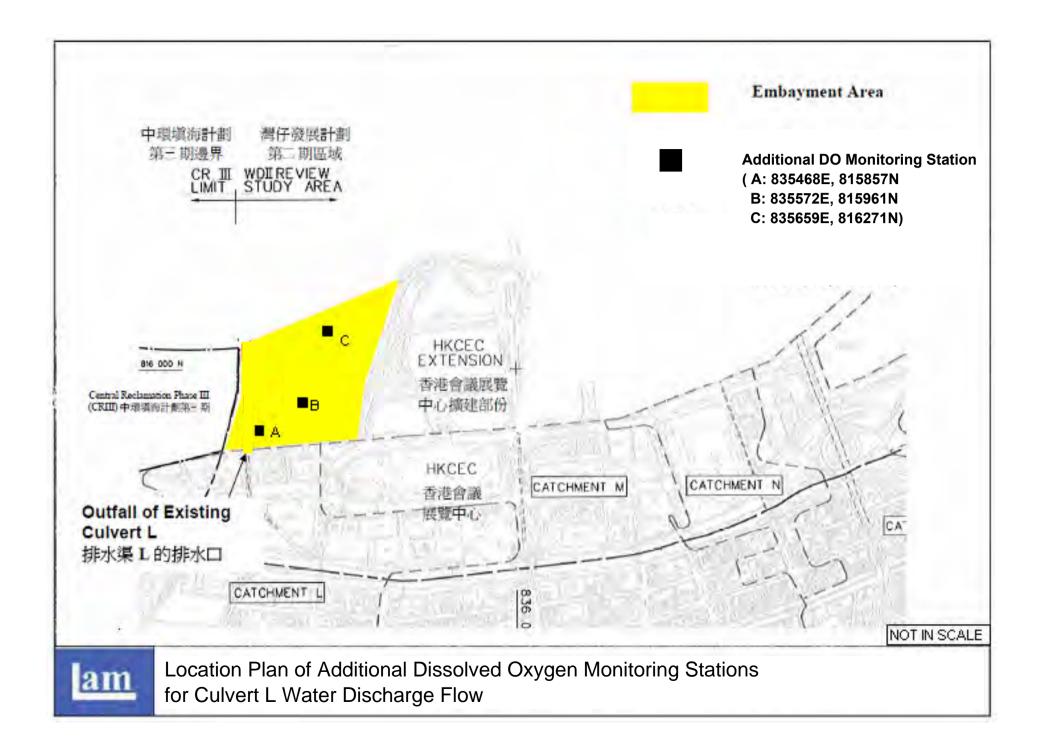


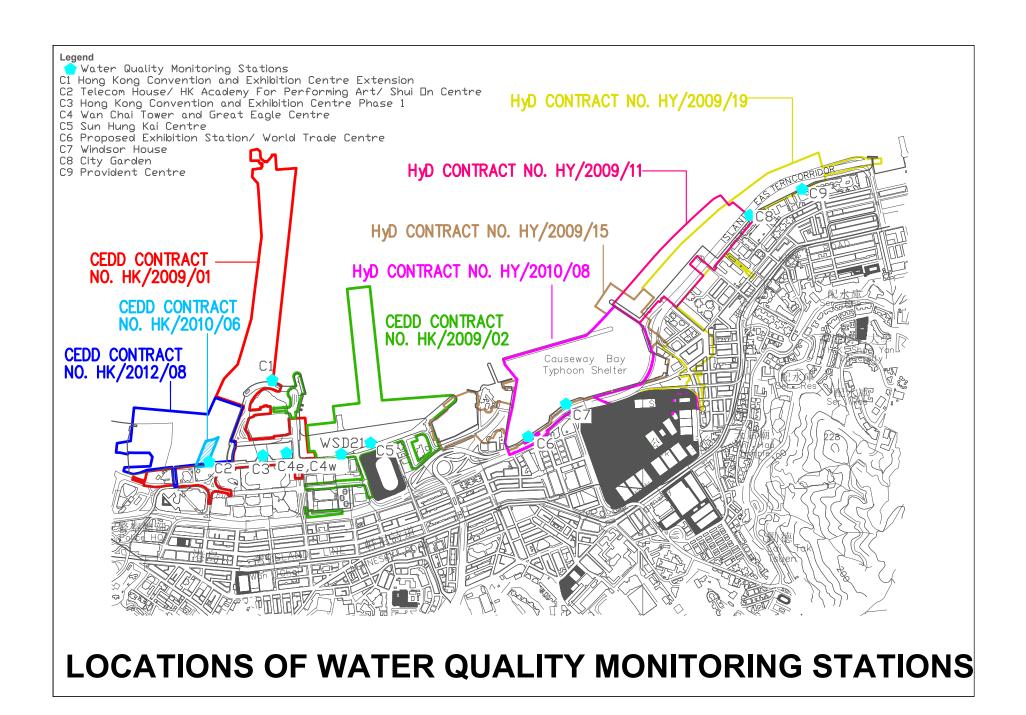


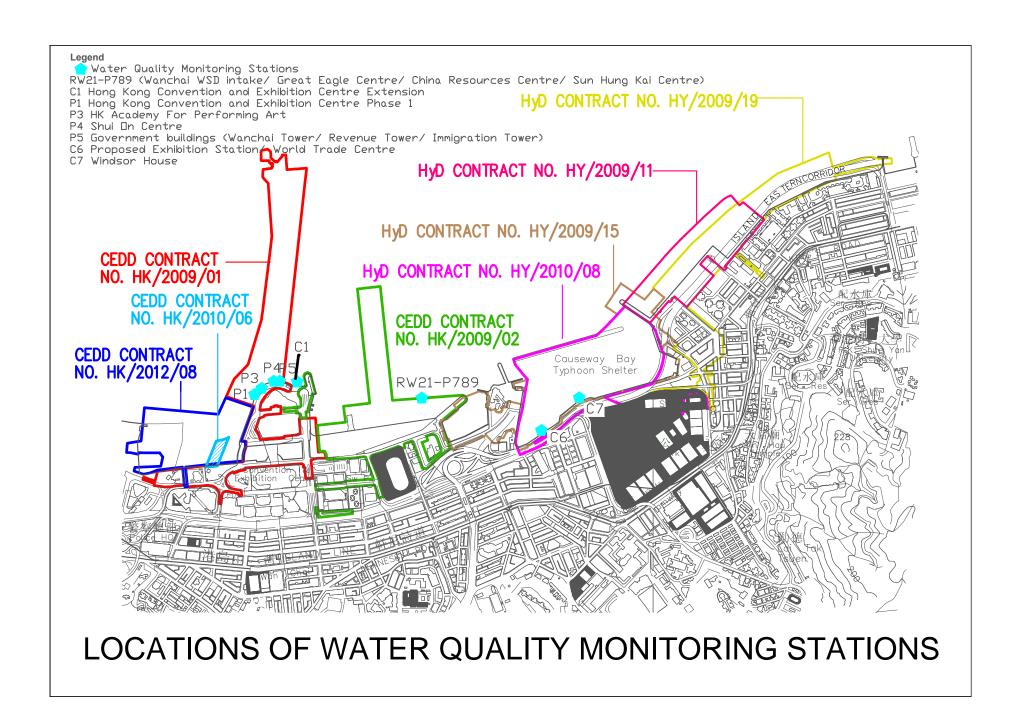
Location plan of Environmental Monitoring Stations

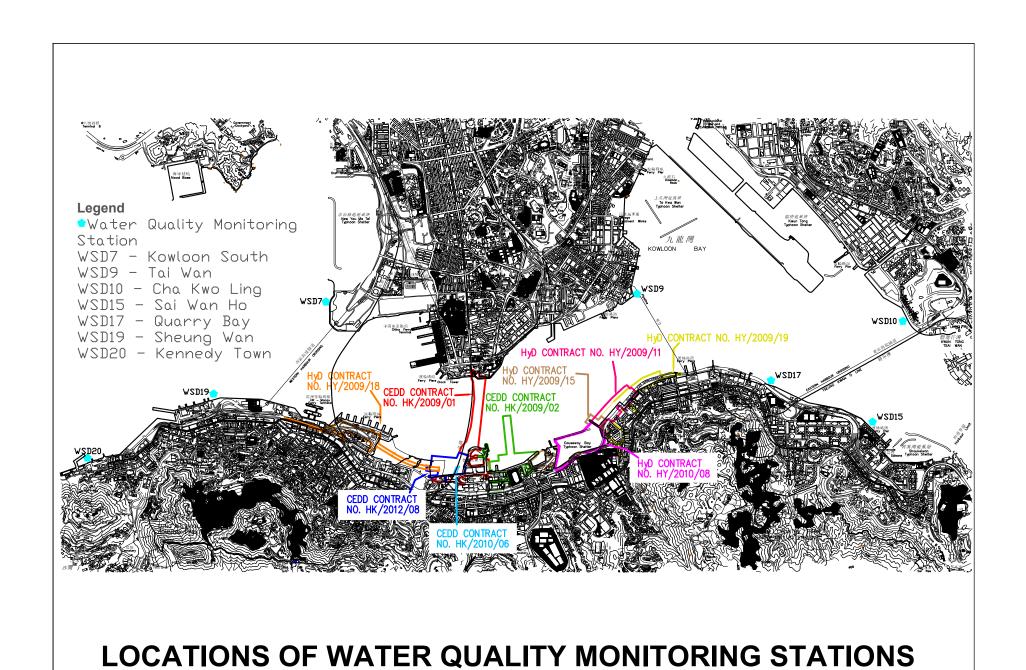


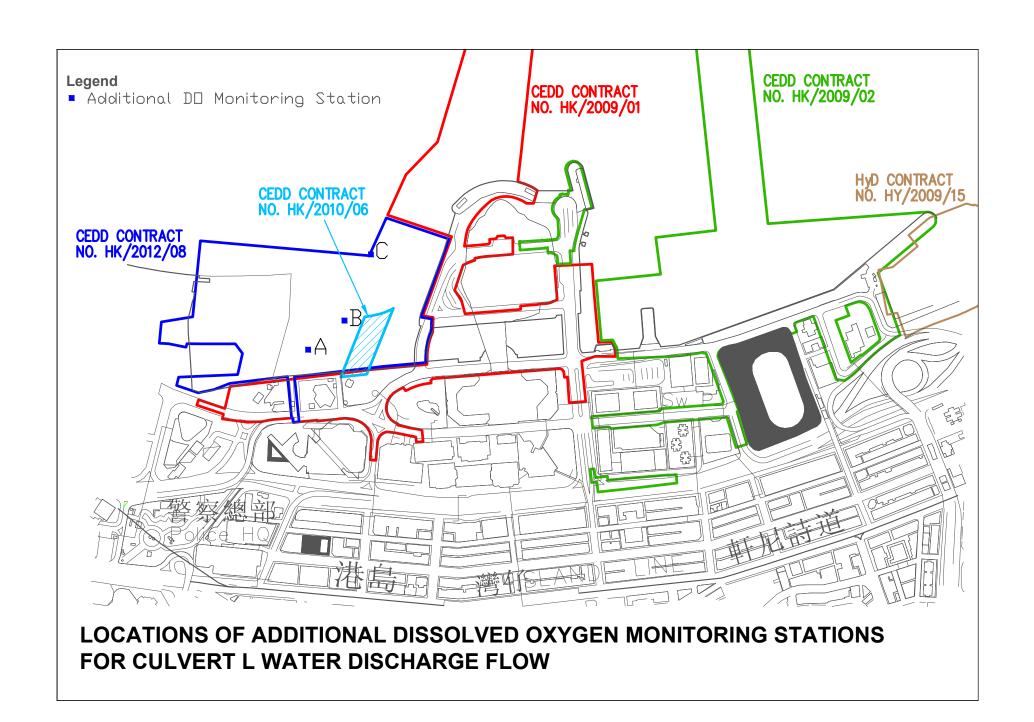












## Appendix 3.1

**Environmental Mitigation Implementation Schedule** 

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Environmental Mitigation Implementation Schedule

### Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation
		8	Agent	Des	C	o	Dec	and Guidelines
Constructio								
For the Who	ole Project							
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			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		٨			

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
2111111	22/10 omited in 1 occord in 1	Doewion, Timing	Agent	Des	C	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
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD <sup>2</sup>		1			EIAO-TM
Operation I	Phase	I	1	1	1	1	1	I
For the Who	ole Project							·

<sup>&</sup>lt;sup>1</sup> CEDD will identify an implementation agent.

 $<sup>^{\</sup>rm 2}$  CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
22.7.10.7	23. To office the control of the con	200mion, 11ming	Agent	Des	C	0	Dec	
S3.10.2	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 ongoing odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			1		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
S3.6.53 -	The design parameters of the East and Central Ventilation	East and Central	HyD			$\checkmark$		
S3.6.54	Buildings as set in Tables 3.10 and 3.11	Ventilation Buildings / During operation of the Trunk Road						
S3.10.2	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			1		EIAO-TM

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

Appendix 3.1

Contract no. HK/2011/07

 $\label{thm:chain} \mbox{Wan Chai Development Phase II and Central-Wanchai Bypass}$ 

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

#### Table A13.2 Implementation Schedule for Noise Control

Construction Phase	EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	1 .	entati ges* O	on Dec	Relevant Legislation and Guidelines
Construction I hase	Constructio	n Phase							

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	Relevant Legislation	
21.1101		Location / Timing		Des	C	0	Dec	and Guidelines
S4.9.4	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.</li> </ul>	Work Sites / During Construction	Contractor		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			EIAO-TM, NCO
For DP1 –	CWB (Within the Project Boundary)							

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
S4.8.5 S4.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:  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	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:  Temporary road diversion Resurfacing At-grade roadwork	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP3 -	Reclamation Works							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task:  Filling behind seawall Seawall construction	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation	
	8		Agent	Des	C	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks:  • Submarine pipelines (marine section)  Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:  • Installation of a new pipeline (land section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
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		1			EIAO-TM, NCO

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

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

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	C	О	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	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM
	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	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	√	√ #			

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta		on	Relevant Legislation
		g	Agent	Des	C	О	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					ļ

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Prot	tection Measures / N	Aitigation	ı Measures		Location /	Implementation	Ir	nplem Sta	entati ges*	ion	Relevant Legislation
						Timing	Agent	Des	C	О	Dec	and Guidelines
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.			Work site / During the construction period	Contractor		√			EIAO-TM, WPCO		
S5.8	As a mitigation meas within the tempor impermeable barrier	ary embayment be	tween C	RIII and	HKCEC1, an	Work site / During the construction	Contractor		<b>√</b>			EIAO-TM, WPCO
	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 HKCEC2W are carried out and the new Culvert L extension is constructed.				period							
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.				Work site / During the construction period	Contractor		<b>V</b>			EIAO-TM, WPCO	
	Reclamation Area    Maximum Dredging Rate   Dredging Rate   Maximum Dredging R											
	Duadaina along saguall	per day)										
	Dredging along seawall or breakwater           North Point Shoreline Zone (NPR)         6,000         375         42,000			42,000								
	Causeway Bay	TBW	1,500	94	10,500							
	Shoreline Zone	TCBR	6,000	375	42,000							
	PCWA Zone		5,000	313	35,000							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	Relevant Legislation	
		Timing	Agent	Des	C	О	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)         6,000         375         42,000           HKCEC Shoreline Zone (HKCEC)         HKCEC Stage 1 & 3         1,500         94         10,500           (HKCEC)         HKCEC Stage 2         6,000         375         42,000           Cross Harbour Water Mains         1,500         94         10,500           Wan Chai East Submarine Sewage Pipeline         1,500         94         10,500							
	Note: 1,500 m <sup>3</sup> per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBRIW, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below:    Interim Construction   Location of Applications	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
	<b>S</b>	Timing	Agent	Des	C	О	Dec	and Guidelines
	TBW, NP and Water Mains Zone    Convention and Exhibition Centre Phase I, Telecon House / HK Academy for Performing Arts / Shun Or Centre, Wan Chai Tower / Revenue Tower Immigration Tower and Sun Hung Kai Centre   Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.   Convention and Exhibition Centre Phase I, Telecon House / HK Academy for Performing Arts / Shun Or Centre, Wan Chai Tower / Revenue Tower Immigration Tower and Sun Hung Kai Centre (Cooling water intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Governmen Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.  WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake.  Cooling water intakes for MTR South, Excelsio Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	Other mitigation measures include:  • mechanical grabs, if used, shall be designed and maintained to avo spillage and sealed tightly while being lifted. For dredging of an contaminated mud, closed watertight grabs must be used;  • all vessels shall be sized so that adequate clearance is maintained betwee vessels and the seabed in all tide conditions, to ensure that und	construction period	Contractor		1			ProPECC PN 1/94; WPCO (TM-DSS)
	turbidity is not generated by turbulence from vessel movement propeller wash;  all hopper barges and dredgers shall be fitted with tight fitting seals	or						
	their bottom openings to prevent leakage of material;  construction activities shall not cause foam, oil, grease, scum, litter other objectionable matter to be present on the water within the site dumping grounds;	or						
	loading of barges and hoppers shall be controlled to prevent splashing dredged material into the surrounding water. Barges or hoppers shall n be filled to a level that will cause the overflow of materials or pollut- water during loading or transportation; and	ot						

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
22.7.10.7	Zinyi olimetikii 1 tottettoi intensii es / intensii es	Timing	Agent	Des	C	0	Dec	and Guidelines
\$5.8	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 I 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 Sgenerated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater 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>		1			WPCO

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EIA Ref	Fr	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation										
LIA KU	Li	ivitolimental Protection (vicasures / ivitigation (vicasures	Timing	Agent	Des	C	0	Dec	and Guidelines										
For the Wh	ole .	Project					•												
S5.8	•	Construction Runoff and Drainage	Work site	Contractor		<b>V</b>			ProPECC PN 1/94; WPCO (TM-DSS)										
	•	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 (INI-DSS)										
l	•	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;				I	I				ı								
	•	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																	

 $<sup>^{\</sup>rm 3}$  CEDD will identify an implementation agent.

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111101	23. To the total of the total o	Timing	Agent	Des	C	o	Dec	and Guidelines
\$5.8	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	<b>V</b>	V			WPCO
Operation	Phase	I.	l.		1			
	B (within the Project Boundary)							
\$5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO:  • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.	CWB/During design and operational period	HyD/TD <sup>3</sup>	√ 		√		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.							
ı	Sewage arising from ancillary facilities of CWB (for examples, car park,							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entatio	on	Relevant Legislation
	Zavionite in the control of the cont			Des	C	О	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.							

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

 $<sup>^{3}\,\</sup>mathrm{if}$  employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		b	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
For DP3 -	Reclamation Works							
S6.7.2	Marine Sediments  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.	Work site / During the construction period	Contractor		√ 			ETWB TCW No. 34/2002
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 Mm³. 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 Agent	Implementation Stages*				Relevant Legislation
				Des	C	О	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							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	o	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.							
S6.6.12	Floating Refuse During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		√			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
List ites	Environmental Protection Measures / Mitagation Measures	Document Timing	Agent	Des	C	О	Dec	and Guidelines
S6.7.7	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		7			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
			Agent	Des	C	О	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;  • 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.	Work site / During planning and design stage, and construction stage	Contractor	1	1			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation and Guidelines
		_	Agent	Des	C	0	Dec	and Guidennes
S6.7.10	General Refuse  General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material.  A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	Chemical Wastes  After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$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		1			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation and Guidelines
		g	Agent	Des	C	О	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		1			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:	Work site / During the construction period	Contractor		<b>V</b>			ProPECC PN 1/94
	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.							

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
23.110.	23. To office the control of the con	Economy 11111111	Agent	Des	C	0	Dec	and Guidelines
Construction	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	<b>V</b>				"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
S7.10	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	1				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation
2	Zarra omnercia i recession recession es	Document Timing	Agent	Des	C	О	Dec	and Guidelines
	Air Quality Mitigation Measures     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	Ir	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	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.      Waste Mitigation Measures     Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment.     Stabilized soils shall be broken into suitable size for backfilling or reuse on site.     A high standard of housekeeping shall be maintained							
	within the mixing plant area.  • If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.							

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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### Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
Construction	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	<b>V</b>				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 -	Reclamation Works							
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS		1				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	Zivi oimona 1 Tottottoi Natala 1	Bookin, 1mmg	Agent	Des	C	0	Dec	and Guidelines
S.9.7.4	During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following:  • Installation of silt curtains during dredging activities  • Use of tightly-closed grab dredger  • Reduction of dredging rate  • Control of grab descending speed  • Construction of leading edges of seawall in the early stages of the reclamation works	Work site / during construction phase	Contractor		√ 			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
_	Adoption of multiple-phase construction schedule							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		Document Timing	Agent	Des	C	О	Dec	and Guidelines
S.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended:  • 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	Work site / during construction phase	Contractor		√			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		<b>√</b>			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		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

<sup>\*</sup>Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines	
					Des	C	О	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	√	1			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	√	<b>√</b>			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	<b>V</b>	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	<b>√</b>	<b>√</b>			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)	1						
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	<b>V</b>	<b>V</b>			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	<b>V</b>	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	<b>V</b>	1			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		1			EIAO TM

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	О	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 Maio	or Roads (Road P2)							
Table 10.5		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	1	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	1	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	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							
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 - Was	n Chai l	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		<b>V</b>			EIAO TM

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	О	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		√			EIAO TM
	ss-Harb	our Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			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					-			
For the Whole	Project	- Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	1	1	1		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	<b>V</b>	1	1		ETWB TCW 2/2004

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages*				Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	<b>√</b>	√	√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		and associated structures.	Design Stage and Operation Phases						
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 <u></u>	V	1	1		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	√	√	1		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	1	1	1		ETWB TCW 2/2004
For DP1 - CW	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	√		√		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Design Stage and Operation Phases						
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	HyD	<b>V</b>	1	1		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	HyD	1	1	1		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	HyD	1	1	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas.  *Roads (Road P2)	Work site / During Design Stage and Operation Phases	HyD	√	V	1		ETWB TCW 2/2004

<sup>&</sup>lt;sup>4</sup> CEDD will identify an implementation agent

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	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		1	1		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		1	1		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		√	√		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		1	1		ETWB TCW 2/2004
For DP3 - Rec	lamatio	n Works							
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	CEDD⁵_	√	<b>√</b>	<b>√</b>		ETWB TCW 2/2004

<sup>\*</sup>Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

 $<sup>^{\</sup>rm 5}$  CEDD will identify an implementation agent

# Appendix 4.1

Action and Limit Level

### **Action and Limit Level**

### Action and Limit Level for Noise Monitoring

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

#### Note 1:

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

### Action and Limit Level for Air Monitoring

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

#### Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.
- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations

### Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season						
Farameters	Action Limit		Action	Limit					
WSD Salt Water Intake									
SS in mg L <sup>-1</sup>	13.00	14.43	16.26	19.74					
Turbidity in NTU	8.04	8.04 9.49 1		11.54					
DO in mg/L	3.66	3.66 3.28		2.63					
Cooling Water Intal	re .								
SS in mg L <sup>-1</sup>	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 Levels for Odour Patrol

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

### Appendix 4.2

Copies of Calibration Certificates



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510147

CLIENT:

LAM GEOTECHNICS LIMITED

DATE RECEIVED: 2015-05-22 DATE OF ISSUE: 2015-06-01

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

### COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	22-May-15	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Mr. Peter Lee Director

Page 2/2



### REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

**WORK ORDER:** HK1510147 **DATE OF ISSUE:** 2015-06-01

CLIENT: LAM GEOTECHNICS LIMITED

<b>Equipment Type:</b>	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	22-May-15	
Date of next Calibation:	22-Aug-15	

#### Parameters:

**Turbidity** 

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.86	-3.5	
10	10.1	1.0	
40	40.0	0.0	
100	101	1.0	
400	399	-0.3	
1000	1000	0.0	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510130

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 08/04/2015 DATE OF ISSUE: 15/04/2015

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT: ---

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/04/2015	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Mr. Peter Lee Director



WORK ORDER:

HK1510130

DATE OF ISSUE:

15/04/2015

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/04/2015	
Date of next Calibation:	08/07/2015	

### Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.22	5.5	
10	9.77	-2.3	
40	40.9	2.3	
100	99	-1.0	
400	412	3.0	
1000	983	-1.7	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT: SAM LAM WORK ORDER: HK1510131

CLIENT:

LAM GEOTECHNICS LIMITED

DATE RECEIVED: 08/04/2015

DATE OF ISSUE:

15/04/2015

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

#### COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1309192
Equipment No.:	
Date of Calibration:	08/04/2015

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Mr. Peter Lee Director

Canan



**WORK ORDER:** HK1510131 **DATE OF ISSUE:** 15/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/04/2015	
Date of next Calibation:	08/07/2015	

### Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.89	-2.8	
10	10.3	3.0	
40	41.5	3.8	
100	97	-3.0	
400	394	-1.5	
1000	978	-2.2	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No. : HK1510133

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 21/04/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. : HK1510133 Test Item No. : HK1510133-01

Test Item Details Test Item Description

: Multifunctional Meter

Manufacturer : YSI

Model No. : Professional Plus Serial No. : 14E100105

Performance Method : Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide

No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B), Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date : 14-Apr-15
Test Item Calibration Date : 15-Apr-15

Test Period : 14/04/2015 - 21/04/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

2. Results relate to item(s) as received.

3. ± indicates the tolerance limit

4. N/A = Not applicable

 APHA - American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

 Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee (Director) Issue Date:

21/04/2015



WORK ORDER: HK1510133 DATE OF ISSUE: 21/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type Multifunctional Meter		
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	15-Apr-15	
Date of next Calibation	15-Jul-15	

### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	10.4	+0.2
19.9	20.1	+0.2
28.9	27.4	-1.5
Tolerance Limit	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.08	+0.11
7.0	6.92	7.03	+0.11
10.0	9.91	10.01	+0.10
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.70	-1.50
0.2000	24.80	24.99	+0.77
0.5000	58.67	58.36	-0.53
	Tolerance Limit	1	±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)	
8.93	8.85	-0.08	
5.15	5.17	+0.02	
1.58	1.71	+0.13	
Tolerance Limit	Tolerance Limit	±0.20	

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No. : HK1510134

Project Name : EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue : 24/04/2015

Customer : LAM GEOTECHNICS LIMITED

Address : 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

 Calibration Job No.
 : HK1510134

 Test Item No.
 : HK1510134-01

**Test Item Details** 

Test Item Description : Multifunctional Meter

Manufacturer : YSI

Model No. : Professional Plus Serial No. : 14M100277

Performance Method : Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date Test Item Calibration Date 17-Apr-15 17-Apr-15

Test Period : 17/04/2015 - 24/04/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee (Director)

Issue Date: 24/04/2015



WORK ORDER: HK1510134 DATE OF ISSUE: 24/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	17-Apr-15	
Date of next Calibation	17-Jul-15	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	10.5	+0.3
19.7	19.1	-0.6
31.3	31.3	0.0
To	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.14	+0.17
7.0	6.88	7.03	+0.15
10.0	9.84	9.90	+0.06
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	-
0.1000	12.89	13.08	+1.47
0.2000	24.80	24.43	-1.49
0.5000	58.67	58.10	-0.97
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)	
8.18	8.06	-0.12	
5.59	5.46	-0.13	
3.00	2.96	-0.04	
	Tolerance Limit	±0.20	

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

: HK1510132 Report No.

**EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT Project Name** 

Date of Issue 21/04/2015

Customer : LAM GEOTECHNICS LIMITED

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG Address

Calibration Job No. HK1510132 Test Item No. HK1510132-01 **Test Item Details** 

**Test Item Description** 

**Multifunctional Meter** 

Manufacturer YSI

Professional Plus Model No. Serial No. 11F100420

Performance Method Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide

No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B) Dissolved oxygen (APHA 19e 4500-O,C))

**Test Item Receipt Date Test Item Calibration Date**  14-Apr-15 15-Apr-15

14/4/2015 - 21/4/2015 **Test Period** 

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

2. Results relate to item(s) as received.

3. ± indicates the tolerance limit

4. N/A = Not applicable

5. APHA - American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA

6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee (Director)

Issue Date:

21/04/2015



WORK ORDER: HK1510132 DATE OF ISSUE: 21/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	11F100420	
Date of Calibration	15-Apr-15	
Date of next Calibation	15-Jul-15	

#### Parameters:

Temperature (Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	11,1	+0.9
19.9	20.3	+0.4
28.9	28.5	-0.4
T	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.09	+0.12
7.0	6.92	6.84	-0.08
10.0	9.91	9.97	+0.06
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	19-
0.1000	12.89	12.77	-0.93
0.2000	24.80	24.42	-1.53
0.5000	58.67	58.05	-1.05
Tolerance Limit		±2.0	

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.93	8.92	-0.01
5.15	5.20	+0.05
1.58	1.64	+0.06
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

- End of Report -



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### CERTIFICATE OF CALIBRATION

Certificate No.:

15CA0312 02-02

Page:

of

2

to:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: B & K 4230 1411076

Serial/Equipment No.: Adaptors used:

Yes

Item submitted by

Curstomer:

Lam Geotechnics Limited

Address of Customer:

Request No.:

Date of receipt:

12-Mar-2015

Date of test:

13-Mar-2015

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable
Lab standard microphone	B&K 4180	2412857	13-May-2015	SCL
Preamplifier	B&K 2673	2239857	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	01-Dec-2015	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

#### **Ambient conditions**

Temperature:

21 ± 1 °C

Relative humidity: Air pressure: 60 ± 10 % 1010 ± 5 hPa

### Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B
  and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference
  pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure
  changes.

#### Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

13-Mar-2015

Company Chop:

SENGINEGER COMPANY OF THE STREET OF THE STR

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No CARP156-1/Issue 1/Rev D/01/03/2007



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### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0312 02-02

Page:

2

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#### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties

			(Output level in dB re 20 μPa
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.22	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

#### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 965.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.7 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

End

Fi

Fung Chi Yip

Checked by:

Lam Tze Wai

Date:

13-Mar-2015

Date:

13-Mar-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No CARP156-2/Issue 1/Rev.C/01/05/2005



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Tel : (852) 2873 6860 Fax: (852) 2555 7533



### CERTIFICATE OF CALIBRATION

Certificate No.:

14CA1213 01

Page

of

Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

B&K 2236

B&K

Type/Model No.: Serial/Equipment No.: 2100736

4188 2288941

Adaptors used:

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No.:

13-Dec-2014

Date of receipt:

Date of test:

13-Dec-2014

Reference equipment used in the calibration

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

20-Jun-2015

CIGISMEC

Signal generator Signal generator

DS 360 DS 360

33873 61227

09-Apr-2015 09-Apr-2015

CEPREI CEPREI

Ambient conditions

Temperature:

21 ± 1 °C

Relative humidity: Air pressure:

60 ± 5 % 1010 ± 5 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580; Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, between the free-field and pressure responsess of the Sound Level Meter.

#### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory:

Date:

15-Dec-2014

Company Chop:

Huang Jian Min/∮eng Jun Qi

Comments: The results reported in his certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No CARP152-1/Issue 1/Rev C/01/02/2007



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Tel : (852) 2873 6860 Fax : (852) 2555 7533



### CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

14CA1213 01

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#### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	С	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3	1.00
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	Α	Pass	0.3	
A STATE OF THE STA	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/104 at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Date:

Fung Chi Yip 13-Dec-2014 End

Checked by:

Date:

Lam Tze Wai 15-Dec-2014

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



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

### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

					METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8760	7.9	5.00
4	NA	NA	1.00	0.8340	8.8	5.5
5	NA	NA	1.00	0.6860	12.7	8.0

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9692	0.7078 0.9944 1.1135 1.1683 1.4128	1.4042 1.9859 2.2203 2.3286 2.8084		0.9957 0.9915 0.9894 0.9882 0.9830	0.7179 1.0086 1.1294 1.1849 1.4330	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slo	t (b) =	1.99175 -0.00041 0.99991		Qa slop intercep coeffici	t (b) =	1.24720 -0.00026 0.99991
y axis =	SQRT [H2O (F	a/760) (298/7	ra)]	y axis =	SQRT [H20 (T	[a/Pa)]

### CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
Qa = Va/Time

For subsequent flow rate calculations:

Qstd =  $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa =  $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$ 



### Lam Geotechincs Limited

Location :		CMA1b			Calbratio	on Date	: 10-Apr-15
Equipment no.		EL452			Calbratio	on Due Date	: 10-Jun-15
0.1.100 17:01 07 00.11	<b>-</b>	. El OW D					
CALIBRATION OF CON	IINUOUS	FLOW RE					
				Ambient Condition			
Temperature, T <sub>a</sub>		291		Kelvin Pressure, I	a	1	018 mmHg
			Orifice Tr	ansfer Standard Info	mation		
Equipment No.		EL086		Slope, m <sub>c</sub> 1.99175 Intercept, bc			-0.00041
Last Calibration Date	e 14-Jul-14			(H	x P <sub>a</sub> / 101	3.3 x 298 /	$T_a$ ) $^{1/2}$
Next Calibration Date		14-Jul-1	5	=	m <sub>c</sub> x	$Q_{std} + b_c$	
				Calibration of TSP			
Calibration	Mar	nometer Re	eading	Q <sub>std</sub>	Continu	uous Flow	IC
Point	H (i	inches of v	water)	(m <sup>3</sup> / min.)	Reco	rder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis	(C	CFM)	Y-axis
1	6.6	6.6	13.2	1.8504		65	65.9295
2	5.3	5.3	10.6	1.6582		58	58.8294
3	4.1	4.1	8.2	1.4585		50	50.7150
4	2.7	2.7	5.4	1.1836		38	38.5434
5	1.6	1.6	3.2	0.9112		31	31.4433
By Linear Regression of	Y on X						
	Slope, m	=	37.8	208 In	tercept, b =	-4.	3250
Correlation Co	pefficient*	=	0.99	965			
Calibration .	Accepted	=	Yes/	<del>\0</del> **			
* if Correlation Coefficien	nt < 0.990,	check and	recalibration	n again.			
** Delete as appropriate.							
Remarks :							
	1	.uLu Mar			Checked	i by	: Derek Lo
Calibrated by  Date		0-Apr-15			Date	-	: 10-Apr-15



### Lam Geotechincs Limited

Location :		CMA1b			Calbratio	on Date	: 10-Jun-15	
Equipment no.		EL452			Calbratio	on Due Date	: 10-Aug-15	
CALIBRATION OF CON	TINUOUS	s FLOW RE	ECORDER					
				Ambient Condition				
Temperature, T <sub>a</sub>		303		Kelvin Pressure, P	a	1	007 mml	−lg
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		EL086		<b>Slope, m</b> <sub>c</sub> 1.991		Intercept, bc	-0.00041	
Last Calibration Date		14-Jul-14				3.3 x 298 /		
Next Calibration Date		14-Jul-1	5	=		$Q_{std} + b_c$	· a/	
				Calibration of TSP				
Calibration	Mar	nometer Re	eading	Q <sub>std</sub>	Continu	ious Flow	IC	
Point	H (i	inches of v	water)	(m <sup>3</sup> / min.)	Reco	rder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-axis	(C	FM)	Y-axis	
1	6.1	6.1	12.2	1.7339		60	59.3176	
2	4.7	4.7	9.4	1.5220		54	53.3859	
3	3.8	3.8	7.6	1.3686	48		47.4541	
4	2.3	2.3	4.6	1.0648	38		37.5678	
5	1.4	1.4	2.8	0.8308		30	29.6588	
By Linear Regression of	Y on X							
	Slope, m	=	33.18	850 Int	ercept, b =	2.:	2031	
Correlation Co	efficient*	=	0.99	994				
Calibration	Accepted	=	Yes/P	<del>\0</del> **				
* if Correlation Coefficien	at < 0.000	chock and	rocalibration	a again				
ii Correlation Coemicien	it < 0.990,	CHECK AND	recalibration	i ayaiii.				
** Delete as appropriate.								
Remarks :								
Onlibrate d.I	L	uLu Mar			Checked	l by	: Derek Lo	
Calibrated by  Date		0-Jun-15			Date	-	: 10-Jun-15	



Location :		CMA2a			Calbrati	on Date	: 10-Apr-15	
Equipment no.		EL449			Calbrati	on Due Date	: 10-Jun-15	
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER					
				Ambient Condition				
Temperature, T <sub>a</sub>		291		Kelvin <b>Pressure</b> ,	Pa	1	018 mmHg	
			Orifice Tra	ansfer Standard Info	mation			
Equipment No.		EL086		<b>Slope, mc</b> 1.99	Intercept, bc	-0.00041		
Last Calibration Date		14-Jul-1	4	(H.	x P <sub>a</sub> / 101	3.3 x 298 /	$(T_a)^{1/2}$	
Next Calibration Date		14-Jul-1	5	=	m <sub>c</sub> x	$Q_{std} + b_c$		
				Calibration of TSP				
Calibration	Manometer Reading		Q <sub>std</sub>	Continu	uous Flow	IC		
Point	Н (	inches of	water)	(m <sup>3</sup> / min.)	Reco	order, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-axis	
1	6.2	6.2	12.4	1.7935		61	61.8723	
2	5.0	5.0	10.0	1.6106		54	54.7722	
3	3.9	3.9	7.8	1.4225		49	49.7007	
4	2.5	2.5	5.0	1.1389		36	36.5148	
5	1.5	1.5	3.0	0.8823		31	31.4433	
By Linear Regression of								
	Slope, m	=	34.48		tercept, b =	-0.	3669	
Correlation Co		=	0.99					
Calibration	Accepted	=	Yes/	<del>\0</del> ^^				
* if Correlation Coefficier	nt < 0.990,	, check and	I recalibration	n again.				
** Delete as appropriate.								
Remarks :								
Nonans .								
Calibrated by	L	uLu Mar			Checke	d by	: Derek Lo	
Date	1	0-Apr-15			Date		: 10-Apr-15	



### Lam Geotechincs Limited

Location :		CMA2a			Calbration Date :				
Equipment no.		EL449			Calbrati	on Due Date	: 10-Aug-15		
CALIBRATION OF CON	TINUOUS	FLOW RI	CORDER						
				Ambient Condition	ı				
Temperature, T <sub>a</sub>		303		Kelvin <b>Pressure</b>	Kelvin Pressure, P <sub>a</sub> 100				
			Orifice 1	ransfer Standard In	formation				
Equipment No.		EL086			9175	Intercept, bc	-0.00041		
Last Calibration Date		14-Jul-1	4	(1	H x P <sub>a</sub> / 10	)13.3 x 298 /	$(T_a)^{1/2}$		
Next Calibration Date		$14-Jul-15 = m_c \times Q_{std} + b_c$							
				Calibration of TSP					
Calibration	Man	anometer Reading		Q <sub>std</sub>			IC		
Point	H (i	nches of	water)	(m <sup>3</sup> / min.)	Recorder, W		(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	X-axis		(CFM)	Y-axis		
1	5.9	5.9	11.8	1.7053		60	59.3176		
2	4.8	4.8	9.6	1.5381	52		51.4086		
3	3.8	3.8	7.6	1.3686	86 46		45.4768		
4	2.3	2.3	4.6	1.0648		36	35.5906		
5	1.4	1.4	2.8	0.8308		20	19.7725		
By Linear Regression of	Y on X								
	Slope, m	=	42.7	672	Intercept, b =	-13.3	3484		
Correlation Co	efficient*	=	0.99	900					
Calibration .	Accepted	=	Yes/ł	No**					
* if Correlation Coefficien	nt < 0 990	check and	l recalibration	n again					
		onoon and		aga					
** Delete as appropriate.									
Remarks :									
Calibrated by	L	uLu Mar			Checke	d by	: Derek Lo		
Date :	1	0-Jun-15			Date		: 10-Jun-15		



				_			-	-		
Location :		CMA3a				Calbrati	on Date	:	10-Apr-15	
Equipment no.		EL333				Calbrati	on Due Date	:	10-Jun-15	
								<u> </u>		
CALIBRATION OF CON	ITINUOUS	S FLOW RI	ECORDER							
				Ambient Co	ndition					
Temperature, T <sub>a</sub>		291		Kelvin <b>F</b>	ressure, P	a	1	1018	mmHg	
			Orifice Tr	ansfer Stan	dard Inforn	nation				
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991		Intercept, bc	Т	-0.00041	
Last Calibration Date		14-Jul-1		(HxP <sub>a</sub> /1013.3x29				·		
Next Calibration Date					=		$Q_{std} + b_c$	' a /		
							- Siu C			
				Calibration						
Calibration		nometer R		Q			uous Flow		IC	
Point		inches of		(m <sup>3</sup> /			rder, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
_	(up)	(down)	(difference)		X-axis (CFM				Y-axis	
1	5.7	5.7	11.4		1.7196 52				52.7436	
2	4.8	4.8	9.6	1.57			48		48.6864	
3	3.6	3.6	7.2	1.36			42		42.6006	
4	2.3	2.3	4.6	1.09			33		33.4719	
5	1.4	1.4	2.8	0.8	523		23		23.3289	
By Linear Regression of										
	Slope, m		33.5		inte	ercept, b =	-4	.1711		
Correlation Co		=	0.99							
Calibration	Accepted	=	Yes/	<del></del>						
* if Correlation Coefficier	nt < 0.990,	, check and	d recalibration	n again.						
** Delete as appropriate.										
Remarks :										
Calibrated by		uLu Mar				Checked	d by	:	Derek Lo	
Date :	1	0-Apr-15				Date		:	10-Apr-15	



				_			_	-	
Location :		CMA3a				Calbrati	on Date	:	10-Jun-15
Equipment no.		EL333				Calbrati	on Due Date	:	10-Aug-15
CALIBRATION OF CON	TINUOUS	S FLOW RI	CORDER						
				Ambient Co	ondition				
Temperature, T <sub>a</sub>		303	1	Kelvin I	Pressure, P	a		1007	mmHg
			Orifice Tra	ansfer Star	ndard Inforn	nation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991		Intercept, bc	Т	-0.00041
Last Calibration Date		14-Jul-1		- 1117			3.3 x 298		
Next Calibration Date							$Q_{std} + b_c$	· a/	
				<b>.</b>	<b></b>		· siu · · · ·		
0.171 - 17		. 5		Calibration		<b>0</b> 11	E1		10
Calibration		nometer R	_		std		uous Flow		IC
Point		inches of			min.)		rder, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)		(-axis (CFM)				Y-axis
1	5.6	5.6	11.2		6613 52				51.4086
2	4.5	4.5	9.0		893		48		47.4541
3	3.4	3.4	6.8		946		40		39.5451
4	2.2	2.2	4.4		414		34		33.6133
5 Du Linear Degraceion of	1.4	1.4	2.8	0.8	308		28		27.6816
By Linear Regression of		_	20.0	004	Int	ercept, b =	3	2010	
Correlation Co	Slope, m	=	0.99		III	егсері, в =		.3019	
Calibration			Yes/f						
Calibration	Accepted	_	1 65/1	<b>40</b>					
* if Correlation Coefficier	nt < 0.990,	, check and	d recalibration	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		uLu Mar				Checke	а ву	:	Derek Lo
Date :	1	0-Jun-15				Date		:	10-Jun-15



Location

# **Calibration Data for High Volume Sampler (TSP Sampler)**

Calbration Date

Equipment no.		EL390		Calbration Due Date : 10-Jun					
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient C	ondition				
Temperature, T <sub>a</sub>		291		Kelvin	Pressure, P	a		1018	mmHg
			Orifice Tr	ansfer Sta	ndard Inforr	nation			
Equipment No.		EL086		Slope, m <sub>c</sub> 1.99175 Intercept, bc					-0.00041
Last Calibration Date		14-Jul-14	1		(Hx	P <sub>a</sub> / 1	013.3 x 298 /	(T <sub>a</sub> ) 1	2
Next Calibration Date		14-Jul-1	5		=	m <sub>c</sub>	$x Q_{std} + b_c$		
				Calibratio	n of TSP				
Calibration	Mar	nometer Re	eading	C	l <sub>std</sub>	Cont	inuous Flow		IC
Point	Н (	inches of v	water)	(m <sup>3</sup> / min.)		Re	ecorder, W	(W(P <sub>a</sub> /10	013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3
	(up)	(down)	(difference)	X-axis			(CFM)		Y-axis
1	5.8	5.8	11.6	1.7347			55		55.7865
2	4.6	4.6	9.2	1.5448			48		48.6864
3	3.6	3.6	7.2	1.3667		42			42.6006
4	2.3	2.3	4.6	1.0	0924		33		33.4719
5	1.4	1.4	2.8	0.0	3523		24		24.3432
By Linear Regression of	Y on X								
	Slope, m	=	35.2	158	Inte	ercept, b	= -5	.4433	
Correlation Co	efficient*	=	0.99	997					
Calibration	Accepted	=	Yes/l	<del>√0</del> **					
* if Correlation Coefficier	nt < 0.990	, check and	l recalibratio	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by	L	uLu Mar				Chec	ked by	:	Derek Lo
Date	1	0-Apr-15				Date		:	10-Apr-15



Location

### Calibration Data for High Volume Sampler (TSP Sampler)

Calbration Date

10-Jun-15

Equipment no.		EL390				Calbr	ation Due Date	:	10-Aug-15
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER						
				Ambient C	ondition				
Temperature, T <sub>a</sub>		303		Kelvin l	Pressure, P	a	•	1007	mmHg
			Orifice Tr	ansfer Star	ndard Inform	nation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991	75	Intercept, bc		-0.00041
Last Calibration Date		14-Jul-1	4		(Hx	P <sub>a</sub> / 1	013.3 x 298 /	$T_a$	1/2
Next Calibration Date	Date 14-Jul-14 $(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ a Date 14-Jul-15 = $m_c \times Q_{std} + b_c$ Calibration of TSP								
				Calibration	of TSP				
Calibration	Mar	nometer Re	eading	Q	std	Cont	inuous Flow		IC
Point	H (i	inches of v	water)	(m <sup>3</sup> /	min.)	Re	ecorder, W	(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3
	(up)	(down)	(difference)	X-a	ıxis	(CFM)			Y-axis
1	5.9	5.9	11.8	1.7	053	57			56.3517
2	4.7	4.7	9.4	1.5	220	52			51.4086
3	3.6	3.6	7.2	1.3	321	44			43.4996
4	2.3	2.3	4.6	1.0	648	34			33.6133
5	1.4	1.4	2.8	0.8	308		26		25.7043
By Linear Regression of	Y on X								
	Slope, m	=	35.8	979	Inte	ercept, b	= -4	.2281	
Correlation Co	oefficient*	=	0.99	88					
Calibration	Accepted	=	Yes/	<del>\0</del> **					
* if Correlation Coefficier	nt < 0.990,	, check and	l recalibration	n again.					
** Delete as appropriate.									
Бенете аз арргорпате.									
Remarks :									
Calibrated by		uLu Mar					ked by	:	Derek Lo
Date	1	0-Jun-15				Date		:	10-Jun-15



### Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5b	Calbration Date	:	02-Apr-15
Equipment no.	:	EL222	Calbration Due Date	:	02-Jun-15
				•	

#### CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T <sub>a</sub>	299	Kelvin	Pressure, P <sub>a</sub>	1009	mmHg			

	Orifice Transfer Standard Information										
Equipment No.	EL086	Slope, m <sub>c</sub>	1.99175	Intercept, bc	-0.00041						
Last Calibration Date	14-Jul-14	$(HxP_a/1013.3x298/T_a)^{1/2}$									
Next Calibration Date	14-Jul-15	$= m_c \times Q_{std} + b_c$									

	Calibration of TSP										
Calibration	Mar	nometer Re	eading	Q <sub>std</sub>	Continuous Flow	IC					
Point	H (inches of water)		(m <sup>3</sup> / min.)	Recorder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)						
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis					
1	6.7	6.7	13.4	1.8311	65	64.7534					
2	5.3	5.3	10.6	1.6286	61	60.7686					
3	4.0	4.0	8.0	1.4149	53	52.7989					
4	2.5	2.5	5.0	1.1186	43	42.8369					
5	1.5	1.5	3.0	0.8665	37	36.8596					

By Linear Regression of Y on X

Slope, m = 30.2820 Intercept, b = 10.0580

Correlation Coefficient\* = 0.9963

Calibration Accepted = Yes/Ne\*\*

**	Delete	as	appro	priate.
----	--------	----	-------	---------

Remarks :			

 Calibrated by
 LuLu Mar
 Checked by
 : Derek Lo

 Date
 02-Apr-15
 Date
 : 02-Apr-15

<sup>\*</sup> if Correlation Coefficient < 0.990, check and recalibration again.



### Calibration Data for High Volume Sampler (TSP Sampler)

Location :		CMA5b				Calbratio	on Date	: 02	-Jun-15	
Equipment no.		EL222				Calbratio	on Due Date	: 02-	-Aug-15	
CALIBRATION OF CON	TINUOUS	FLOW RE	CORDER							
				Ambient (	Condition					
Temperature, T <sub>a</sub>		303		Kelvin	Pressure, P	a	1	009	mmHg	
			Orifice T	ransfer Sta	andard Infor	mation				
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991	75	Intercept, bc	-0	.00041	
Last Calibration Date		14-Jul-14	4		(H)	k P <sub>a</sub> / 101	3.3 x 298 /	$T_a)^{1/2}$		
Next Calibration Date		14-Jul-1	5		=	m <sub>c</sub> x	$Q_{std} + b_c$			
Calibration of TSP										
Calibration	Mar	ometer Re	eading	C	) <sub>std</sub>	Continu	ous Flow	ı	ıc	
Point	<b>H</b> (i	inches of v	water)	(m³	/ min.)	Reco	order, W	(W(P <sub>a</sub> /1013.3x	298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)	
	(up)	(down)	(difference)	X-	axis	(C	CFM)	Y-axis		
1	6.3	6.3	12.6	1.7	7639		65	64.3	3245	
2	4.8	4.8	9.6	1.	5397		58	57.3	3973	
3	3.6	3.6	7.2	1.3	3334		52	51.4	4596	
4	2.3	2.3	4.6	1.0	0658		42	41.	5636	
5	1.4	1.4	2.8	0.8	8316		30	29.	6883	
By Linear Regression of `	Y on X									
	Slope, m	=	36.5		Int	ercept, b =	1.	1799		
Correlation Co		=	0.99							
Calibration	Accepted	=	Yes/ł	NO**						
* if Correlation Coefficien	t < 0.990,	check and	recalibration	again.						
** Delete as appropriate.										
Remarks :										
nemarks.										

Checked by

Date

Derek Lo

02-Jun-15

LuLu Mar

02-Jun-15

Calibrated by

Date



#### Lam Geotechincs Limited

### **Calibration Data for High Volume Sampler (TSP Sampler)**

Location :		CMA6a			Calbratio	on Date	: 10-	-Apr-15
Equipment no.		EL448			Calbration	on Due Date	: 10-	Jun-15
CALIBRATION OF CON	TINUOUS	FLOW RI	CORDER					
				Ambient Condition				
Temperature, T <sub>a</sub>		291		Kelvin <b>Pressure</b> , <b>P</b>	a	1	018	mmHg
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		EL086		<b>Slope</b> , <b>m</b> <sub>c</sub> 1.991	75	Intercept, bc	-0.	00041
Last Calibration Date		14-Jul-1	4	(H)	(P <sub>a</sub> / 101	13.3 x 298 /	T <sub>a</sub> ) <sup>1/2</sup>	
Next Calibration Date		14-Jul-1	5	=	m <sub>c</sub> x	$Q_{std} + b_c$		
				Calibration of TSP				
Calibration	Mar	nometer R	eading	Q <sub>std</sub>	Continu	Continuous Flow		С
Point	H (i	inches of	water)	(m <sup>3</sup> / min.)	Reco	order, W	(W(P <sub>a</sub> /1013.3x2	298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-a	ıxis
1	6.3	6.3	12.6	1.8079		58	58.8	3294
2	5.0	5.0	10.0	1.6106		53	53.7	7579
3	3.9	3.9	7.8	1.4225		46	46.6	6578
4	2.5	2.5	5.0	1.1389		38	38.5	5434
5	1.4	1.4	2.8	0.8523		26	26.3	3718
By Linear Regression of	Y on X							
	Slope, m	=	33.78	<del></del>	ercept, b =	-1.	3336	
Correlation Co		=	0.99					
Calibration	Accepted	=	Yes/	<del>\0</del> **				
* if Correlation Coefficien	it < 0.990,	check and	l recalibration	n again.				
** Delete as appropriate.								
Remarks :								
Onlike and d	L	.uLu Mar			Checked	d by	: De	erek Lo
Calibrated by  Date		0-Apr-15			Date		-	-Apr-15



#### Lam Geotechincs Limited

C	anbrat	ion Da	ta for m	ign voi	ume Sai	inpier (1	SP Samp	ner)	
Location :		CMA6a				Calbratio	on Date	:	10-Jun-15
Equipment no.		EL448				Calbratio	on Due Date	:	10-Aug-15
CALIBRATION OF CON	ITINUOUS	FLOW RE	CORDER						
				Ambient (	Condition				
Temperature, T <sub>a</sub>		303		Kelvin	Pressure, P	a	•	1007	mmHg
			Orifice Tr	ansfer Sta	andard Infor	mation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991	75	Intercept, bc	$\top$	-0.00041
Last Calibration Date		14-Jul-14	1		(Нх	(P <sub>a</sub> / 101	3.3 x 298 /	'T <sub>a</sub> )	1/2
Next Calibration Date		14-Jul-1	5		=	$m_c x$	$Q_{std} + b_c$		
				Calibratio	n of TSP				
Calibration	tion Manometer Reading		eading	C	) <sub>std</sub>	Continu	ious Flow		IC
Point	Manometer Readin H (inches of water		water)	(m <sup>3</sup>	/ min.)	Reco	rder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.3	
	(up)	(down)	(difference)	X-	axis	(C	FM)		Y-axis
1	5.8	5.8	11.6	1.6	6908		55		54.3745
2	4.6	4.6	9.2	1.9	5057		50	49.4314	
3	3.5	3.5	7.0	1.0	3135		44		43.4996
4	2.3	2.3	4.6	1.0	0648	;	35		34.6020
5	1.4	1.4	2.8	0.8	8308		28		27.6816
By Linear Regression of	Y on X								
	Slope, m	=	31.6	381	Into	ercept, b =	1	.3862	
Correlation Co	oefficient*	=	0.99	990					
Calibration	Accepted	=	Yes/	No**					
* if Correlation Coefficier	nt < 0.990.	. check and	recalibration	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by	L	uLu Mar				Checked	by	: _	Derek Lo
Date	1	0-Jun-15				Date		:	10-Jun-15

### Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

#### Contract No. HK/2011/07

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

#### Environmental Monitoring Schedule June 2015

			June 20			
Sunday	Monday	Tuesday	Wednesday	Thursday 28-May	Friday 29-May	Saturday 30-Ma
				24hr TSP  Impact WOM Mid-ebb 9:26	1hr TSP	Impact WQM Mid-ebb 10:3
				Mid-flood 20:48		Mid-flood 16:5
31-May	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	
7-Jun	Noise (daytime) (M1a, M2b) Impact WOM Mild-ebb 11:29 Mild-flood 18:18		24hr TSP  Impact WOM Mid-ebb 12-42 Mid-flood 19-40 10-Jun	1hr TSP	Noise (daytime) (M5b, M6) Impact WOM Mid-ebb 14:07 Mid-flood 21:13	
	24hr TSP  Impact WOM Mid-flood 9:44 Mid-ebb 16:31	1hr TSP Noise (daytime) (MZb, M3a, M4b, M5b, M6)	Noise (daytime) (M6) Impact WQM Mid-flood 12:19 Mid-debb 18:47		24hr TSP  Impact WOM Mid-ebb 9:06 Mid-flood 15:06	
14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Ju
21-Jun	Noise (daytime) (M1a, M2b) Impact WOM Mid-ebb 11:30 Mid-flood 18:14	Noise (daytime) (M3a, M4b, M5b, M6)	Impact WQM Mid-ebb 12:54 Mid-flood 19:51 24-Jun	24hr TSP	24TSP (CMA4a) 1hr TSP Impact WQM Mid-ebb 14-15 Mid-flood 21-17	,
	22-Jun Impact WQM Mid-flood 9:09 Mid-flood 16:04	24hr TSP Noise (daytime) (M3a, M4b, M5b, M6)	1hr TSP Noise (daytime) (M1a, M2b) Impact WQM	Impact WQM	Impact WQM	Impact WQM Mid-flood 2:0

Remarks: With respect to the water pipe modification works and the suspension of water supply to Windsor House, the water quality monitoring station C7 was cancelled on 10 June 2015 during flood tide.

With respect to the water pipe modification works and the suspension of water supply to Windsor House, the respective water quality monitoring at WQM station C7 was temporarily suspended from 12 June 2015. The water quality monitoring at WQM station C7 has resumed on 17 June 2015 upon completion of the water pipe modification works.

#### Contract No. HK/2011/07

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

### Tentative Environmental Monitoring Schedule July 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Jun	29-Ju		1-Jul	2-Jul	3-Jul	4-Jul
			1			
	24hr TSP	1hr TSP				24hr TSP
	Noise (daytime)	Noise (daytime)				
	,	,				
	Impact WQM			Impact WQM		Impact WQM
	Mid-ebb 10:3	0		Mid-ebb 12:27		Mid-ebb 13:55
	Mid-flood 17:3			Mid-flood 19:32		Mid-flood 20:57
5-Jul	6-J	ıl 7-Jul	8-Jul	9-Jul	10-Jul	11-Jul
5-041	0-0	7-541	0-541	3-001	10-041	11-041
	4h- TCD				24hr TCD	1hr TSP
	1hr TSP				24hr TSP	INF ISP
	Noise (daytime)	Noise (daytime)				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 15:	6	Mid-flood 10:48		Mid-flood 13:45	
	Mid-flood 22:		Mid-ebb 17:10		Mid-ebb 19:27	
12-Jul	13-3			16-Jul	17-Jul	18-Jul
12-Jul	13-3	14-Jul	15-341	16-301	17-301	18-Jul
				24hr TSP	1hr TSP	
	Noise (daytime)	Noise (daytime)				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb 10:	6	Mid-ebb 12:01		Mid-ebb 13:18	
	Mid-flood 17:3		Mid-flood 19:00		Mid-flood 20:12	
19-Jul	20-5	ul 21-Jul	22-Jul	23-Jul	24-Jul	25-Jul
			24hr TSP	1hr TSP		
			24111 135	IIII 13P		
	Noise (daytime)	Noise (daytime)	1			]
			1			
	Impact WQM		Impact WQM			Impact WQM
	Mid-flood 8:	8	Mid-flood 9:31			Mid-flood 0:19
	Mid-ebb 14:		Mid-ebb 16:00			Mid-ebb 7:05
26-Jul	27-3		10.00			7.00
26-Jul	27-5		1			
			1			
			1			]
			1			
			1			]
			1			l
			1			
			1			
			1			
	Noise (daytime)		1			
			1			]
			1			
			1			]
			1			
		1	1			1

### Appendix 5.2

Noise Monitoring Results and Graphical Presentations



#### Noise Monitoring Result

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

Location: M1a - Harbour Road Sports Centre

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L90		L90	Leq	Leq	Leq
			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Unit: df	B(A), (30-min)	
01/06/15	14:31	Cloudy	72.4	75.0	67.5	72	59	75
10/06/15	9:50	Fine	75.3 77.5 71.0		71.0	72	72	75
15/06/15	14:04	Fine	72.4 74.5 68.5		72	59	75	
24/06/15	13:29	Cloudy	72.6	75.0	69.0	72	62	75

Location: M2b - Noon-day gun area

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

Location: M3a - Tung Lo Wan Fire Station

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L9		L90	Leq	Leq	Leq
			000 005 1506			Unit: dl	B(A), (30-min)	
02/06/15	8:05	Fine	62.3 63.5 59.8			69	62	75
09/06/15	13:31	Fine	64.8 66.0 62.5 69		65	75		
16/06/15	8:30	Fine	65.3	67.5	63.0	0 69 65		75
23/06/15	8:00	Cloudy	67.5	68.5	66.5	69	68	75

Location: M4b - Victoria Centre

			Measur	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			i i i i i i i i i i i i i i i i i i i		Unit: d	B(A), (30min)		
02/06/15	8:40	Fine	68.9 71.2 66.7			67	64	75
09/06/15	14:11	Fine	65.2 66.0 63.0		63.0	67	65	75
16/06/15	9:19	Fine	64.5 65.5 62.5		62.5	67	65	75
23/06/15	8:39	Cloudy	68.2	68.9	66.3	67	61	75

Location: M5b - City Garden

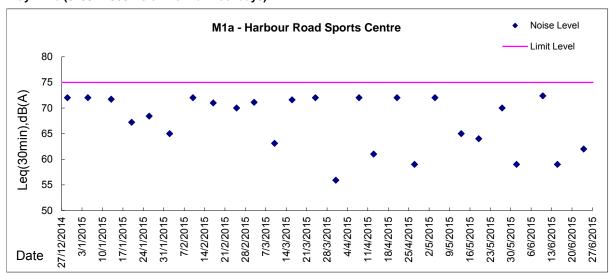
			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10		L90	Leq	Leq	Leq
			700 100			Unit: d	B(A), (30min)	
05/06/15	10:00	Fine	68.4 70.0 66.5		66.5	68	58	75
09/06/15	14:54	Fine	68.5 70.0 66.0		66.0	68	59	75
16/06/15	10:00	Fine	66.8 67.5 65.5		65.5	68	67	75
23/06/15	9:55	Cloudy	69.0 69.2 67.0		68	62	75	

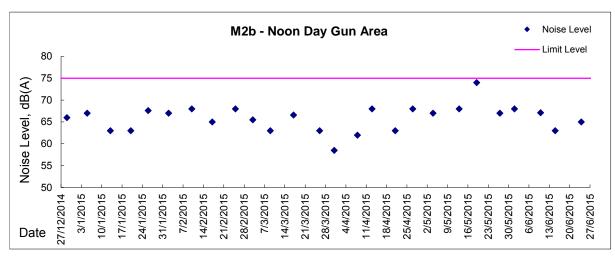
Location: M6 - HK Baptist Church Henrietta Secondary School

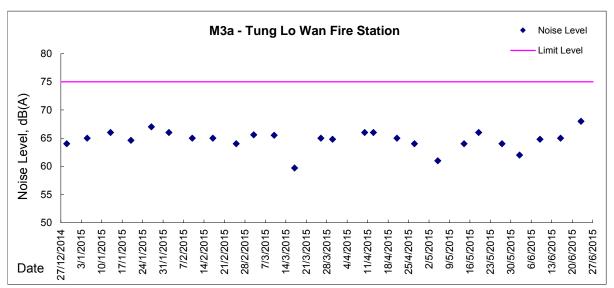
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L		L90	Leq	Leq	Leq
						Unit: di	3(A), (30-min)	•
05/06/15	10:35	Fine	68.0 69.0 66.0			71	68	65
09/06/15	15:35	Fine	68.1 69.5 65.5		65.5	71	68	65
16/06/15	10:40	Fine	67.5 68.5 65.0		71	68	65	
23/06/15	10:30	Cloudy	70.9	72.0	69.0	71	57	65



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

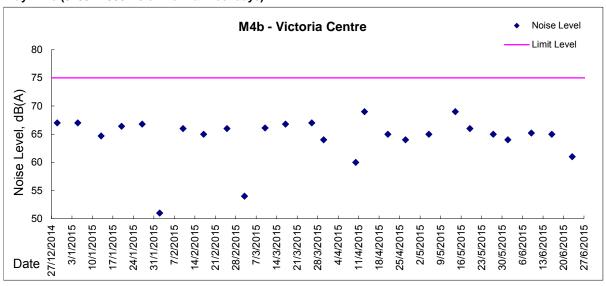


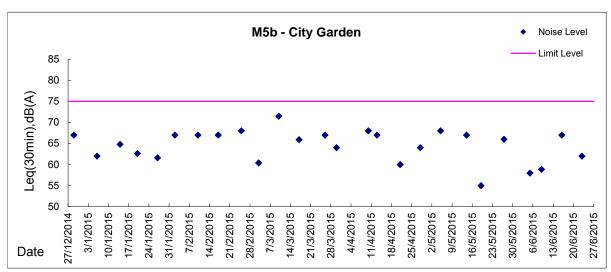


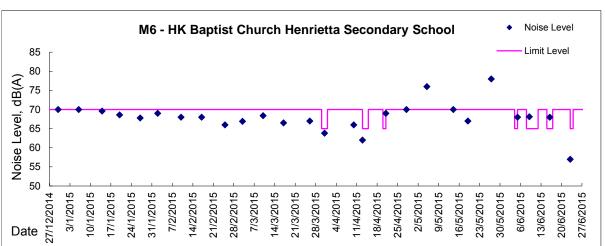




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







### Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations, and odour Patrol Results



Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 176.7 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
28-May-15	8:00	Fine	012114	2.8002	2.9395	6432.45	6456.45	24.00	1.12	1.12	1.12	1611	86.5
3-Jun-15	8:00	Fine	012187	2.8388	2.9158	6459.53	6483.53	24.00	1.17	1.17	1.17	1686	45.7
8-Jun-15	8:00	Cloudy	012197	2.7976	2.8800	6486.54	6510.54	24.00	1.17	1.17	1.17	1685	48.9
12-Jun-15	8:00	Cloudy	012134	2.8251	2.9144	6513.54	6537.54	24.00	1.14	1.14	1.14	1639	54.5
18-Jun-15	8:00	Fine	012324	2.8251	2.9285	6540.54	6564.54	24.00	1.13	1.13	1.13	1632	63.3
23-Jun-15	8:00	Rainy	011970	2.8281	2.9435	6567.54	6591.54	24.00	1.14	1.14	1.14	1641	70.3

Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 320.1 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-May-15	8:01	Fine	012124	2.8240	2.8304	6456.53	6457.53	1.00	1.12	1.12	1.12	67	95.3
29-May-15	9:02	Fine	012176	2.8307	2.8396	6457.53	6458.53	1.00	1.12	1.12	1.12	67	132.5
29-May-15	10:05	Fine	012178	2.8278	2.8341	6458.53	6459.53	1.00	1.12	1.12	1.12	67	93.8
4-Jun-15	11:00	Fine	012191	2.8013	2.8056	6483.53	6484.53	1.00	1.17	1.17	1.17	70	61.2
4-Jun-15	13:00	Fine	012195	2.8133	2.8205	6484.53	6485.53	1.00	1.17	1.17	1.17	70	102.5
4-Jun-15	14:02	Fine	012166	2.8367	2.8370	6485.53	6486.53	1.00	1.17	1.17	1.17	70	4.3
9-Jun-15	8:40	Cloudy	012200	2.8186	2.8268	6510.54	6511.54	1.00	1.17	1.17	1.17	70	116.9
9-Jun-15	9:43	Cloudy	012128	2.8227	2.8294	6511.54	6512.54	1.00	1.17	1.17	1.17	70	95.5
9-Jun-15	10:47	Cloudy	012131	2.8314	2.8360	6512.54	6513.54	1.00	1.17	1.17	1.17	70	65.6
13-Jun-15	8:02	Cloudy	011849	2.7257	2.7327	6537.54	6538.54	1.00	1.14	1.14	1.14	68	102.6
13-Jun-15	9:04	Cloudy	011774	2.8218	2.8303	6538.54	6539.54	1.00	1.14	1.14	1.14	68	124.6
13-Jun-15	10:06	Cloudy	011981	2.8285	2.8361	6539.54	6540.54	1.00	1.14	1.14	1.14	68	111.4
19-Jun-15	8:05	Fine	012319	2.8330	2.8405	6564.54	6565.54	1.00	1.13	1.13	1.13	68	110.2
19-Jun-15	9:07	Fine	012316	2.8004	2.8072	6565.54	6566.54	1.00	1.13	1.13	1.13	68	100.0
19-Jun-15	10:10	Fine	012340	2.8259	2.8338	6566.54	6567.54	1.00	1.13	1.13	1.13	68	116.1
24-Jun-15	8:10	Rainy	012296	2.8044	2.8096	6591.54	6592.54	1.00	1.14	1.14	1.14	68	76
24-Jun-15	9:12	Rainy	012304	2.8176	2.8218	6592.54	6593.54	1.00	1.14	1.14	1.14	68	61
24-Jun-15	10:15	Rainy	012339	2.8069	2.8092	6593.54	6594.54	1.00	1.14	1.14	1.14	68	34



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level (µg/m3) - 169.5 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	Filter Weight, g		Elapse Time, hr		Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-May-15	8:00	Fine	012113	2.8033	2.8772	16088.87	16112.87	24.00	1.06	1.17	1.11	1602	46.1
3-Jun-15	8:00	Fine	012189	2.8127	2.8650	16115.87	16139.87	24.00	1.17	1.17	1.17	1684	31.1
8-Jun-15	8:00	Cloudy	012196	2.8029	2.8382	16142.87	16166.87	24.00	1.06	1.06	1.06	1523	23.2
12-Jun-15	8:00	Cloudy	012133	2.8362	2.8860	16169.87	16193.87	24.00	1.16	1.16	1.16	1667	29.9
18-Jun-15	8:00	Fine	011990	2.8362	2.9092	16196.95	16220.95	24.00	1.24	1.24	1.24	1790	40.8
23-Jun-15	8:00	Rainy	011971	2.8438	2.9095	16223.95	16247.95	24.00	1.25	1.25	1.25	1797	36.6

Report on 1-hour TSP monitoring Action Level (µg/m3) - 323.4 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-May-15	8:05	Fine	012125	2.8297	2.8349	16112.87	16113.87	1.00	1.17	1.17	1.17	70	74.2
29-May-15	9:07	Fine	012177	2.8237	2.8287	16113.87	16114.87	1.00	1.11	1.11	1.11	67	74.9
29-May-15	10:09	Fine	012179	2.8371	2.8391	16114.87	16115.87	1.00	1.11	1.11	1.11	67	30.0
4-Jun-15	13:00	Fine	012165	2.8054	2.8069	16139.87	16140.87	1.00	1.17	1.17	1.17	70	21.4
4-Jun-15	14:05	Fine	012097	2.8288	2.8298	16140.87	16141.87	1.00	1.17	1.17	1.17	70	14.3
4-Jun-15	15:09	Fine	012096	2.8299	2.8305	16141.87	16142.87	1.00	1.17	1.17	1.17	70	8.6
9-Jun-15	8:30	Cloudy	012199	2.8094	2.8147	16166.87	16167.87	1.00	1.17	1.17	1.17	70	75.6
9-Jun-15	9:35	Cloudy	012127	2.8416	2.8465	16167.87	16168.87	1.00	1.17	1.17	1.17	70	69.9
9-Jun-15	10:37	Cloudy	012130	2.8454	2.8478	16168.87	16169.87	1.00	1.17	1.17	1.17	70	34.2
13-Jun-15	8:05	Cloudy	011850	2.7384	2.7422	16193.87	16194.87	1.00	1.16	1.16	1.16	69	54.7
13-Jun-15	9:08	Cloudy	011983	2.8256	2.8274	16194.87	16195.87	1.00	1.16	1.16	1.16	69	25.9
13-Jun-15	10:10	Cloudy	011988	2.8183	2.8214	16195.87	16196.87	1.00	1.16	1.16	1.16	69	44.7
19-Jun-15	8:02	Fine	012320	2.8037	2.8106	16220.95	16221.95	1.00	1.24	1.24	1.24	75	92.5
19-Jun-15	9:04	Fine	012318	2.8304	2.8381	16221.95	16222.95	1.00	1.24	1.24	1.24	75	103.2
19-Jun-15	10:06	Fine	012341	2.8272	2.8354	16222.95	16223.95	1.00	1.24	1.24	1.24	75	109.9
24-Jun-15	8:04	Rainy	012295	2.8011	2.8054	16247.95	16248.95	1.00	1.25	1.25	1.25	75	57.5
24-Jun-15	9:05	Rainy	012291	2.8111	2.8185	16248.95	16249.95	1.00	1.25	1.25	1.25	75	98.9
24-Jun-15	10:07	Rainy	012306	2.8250	2.8297	16249.95	16250.95	1.00	1.25	1.25	1.25	75	62.8



Location: CMA3a - CWB PRE Site Office Area

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

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

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

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



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171.2 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
28-May-15	8:00	Fine	012123	2.8214	2.9236	20362.77	20386.77	24.00	1.29	1.29	1.29	1854	55.1
3-Jun-15	8:00	Fine	011870	2.7240	2.7842	20389.77	20413.77	24.00	1.29	1.29	1.29	1856	32.4
8-Jun-15	8:00	Cloudy	011399	2.7431	2.8053	20416.77	20440.77	24.00	1.29	1.29	1.29	1855	33.5
12-Jun-15	8:00	Cloudy	011750	2.8178	2.8897	20443.77	20467.77	24.00	1.23	1.23	1.23	1773	40.6
19-Jun-15	14:18	Fine	011965	2.8292	2.9045	20473.90	20497.90	24.00	1.23	1.23	1.23	1768	42.6
23-Jun-15	8:00	Rainy	011730	2.8148	2.9261	20497.90	20521.90	24.00	1.23	1.23	1.23	1775	62.7

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 18 June 2015 to 19 June 2015.

Report on 1-hour TSP monitoring Action Level (µg/m3) - 312.5 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-May-15	9:22	Fine	011897	2.7096	2.7153	20386.77	20387.77	1.00	1.29	1.29	1.29	77	73.8
29-May-15	10:25	Fine	011594	2.7284	2.7339	20387.77	20388.77	1.00	1.29	1.29	1.29	77	71.2
29-May-15	13:00	Fine	011868	2.7193	2.7249	20388.77	20389.77	1.00	1.29	1.29	1.29	77	72.5
4-Jun-15	8:12	Fine	012010	2.8308	2.8354	20413.77	20414.77	1.00	1.29	1.29	1.29	77	59.5
4-Jun-15	9:17	Fine	011397	2.7340	2.7383	20414.77	20415.77	1.00	1.29	1.29	1.29	77	55.6
4-Jun-15	10:22	Fine	011398	2.7336	2.7386	20415.77	20416.77	1.00	1.29	1.29	1.29	77	64.7
9-Jun-15	8:44	Cloudy	011756	2.8074	2.8112	20440.77	20441.77	1.00	1.29	1.29	1.29	77	49.2
9-Jun-15	9:49	Cloudy	011754	2.8137	2.8219	20441.77	20442.77	1.00	1.29	1.29	1.29	77	106.1
9-Jun-15	10:53	Cloudy	011752	2.8186	2.8246	20442.77	20443.77	1.00	1.29	1.29	1.29	77	77.7
13-Jun-15	8:05	Cloudy	011776	2.8245	2.8274	20467.77	20468.77	1.00	1.23	1.23	1.23	74	39.3
13-Jun-15	9:15	Cloudy	011984	2.8330	2.8376	20468.77	20469.77	1.00	1.23	1.23	1.23	74	62.3
13-Jun-15	10:25	Cloudy	011987	2.8187	2.8225	20469.77	20470.77	1.00	1.23	1.23	1.23	74	51.5
19-Jun-15	8:47	Fine	012307	2.8153	2.8196	20470.90	20471.90	1.00	1.23	1.23	1.23	74	58.4
19-Jun-15	9:58	Fine	011975	2.8259	2.8334	20471.90	20472.90	1.00	1.23	1.23	1.23	74	101.9
19-Jun-15	13:00	Fine	011977	2.8468	2.8533	20472.90	20473.90	1.00	1.23	1.23	1.23	74	88.3
24-Jun-15	8:10	Rainy	011599	2.7350	2.7408	20521.90	20522.90	1.00	1.23	1.23	1.23	74	78.5
24-Jun-15	10:03	Rainy	011597	2.7205	2.7269	20522.90	20523.90	1.00	1.23	1.23	1.23	74	86.6
24-Jun-15	13:00	Rainy	011906	2.7427	2.7518	20523.90	20524.90	1.00	1.23	1.23	1.23	74	123.1



Location: CMA5b - Pedestrian Plaza

 $\begin{array}{ccc} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level } (\mu\text{g/m3}) - & 181 \\ \text{Limit Level } (\mu\text{g/m3}) - & 260 \end{array}$ 

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-May-15	8:00	Fine	012121	2.8382	2.9175	4838.77	4862.77	24.00	0.89	0.89	0.89	1283	61.8
3-Jun-15	8:00	Fine	012190	2.7975	2.8556	4865.77	4889.77	24.00	0.99	0.99	0.99	1422	40.9
8-Jun-15	8:00	Cloudy	011757	2.8347	2.9080	4892.77	4916.77	24.00	1.06	1.06	1.06	1528	48.0
12-Jun-15	8:00	Cloudy	011999	2.8062	2.8762	4919.78	4943.78	24.00	1.01	1.01	1.01	1455	48.1
23-Jun-15	8:00	Rainy	012293	2.8049	2.8690	4960.81	4984.81	24.00	0.99	0.98	0.99	1419	45.2
24-Jun-15	17:32	Rainy	012299	2.8136	2.8563	4987.82	5011.82	24.00	0.96	0.96	0.96	1381	30.9

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 18 and 23 June 2015 to 23 and 24 June 2015 respectively.

 $\begin{array}{ccc} \text{Report on 1-hour TSP monitoring} \\ \text{Action Level } & (\mu\text{g/m3}) - & 332 \\ \text{Limit Level } & (\mu\text{g/m3}) - & 500 \end{array}$ 

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-May-15	10:50	Fine	012182	2.8462	2.8506	4862.77	4863.77	1.00	0.92	0.92	0.92	55	79.5
29-May-15	13:00	Fine	012186	2.8416	2.8465	4863.77	4864.77	1.00	0.92	0.92	0.92	55	88.5
29-May-15	14:15	Fine	011727	2.8261	2.8335	4864.77	4865.77	1.00	0.92	0.92	0.92	55	133.6
4-Jun-15	13:00	Fine	012194	2.8112	2.8156	4889.77	4890.77	1.00	0.96	0.96	0.96	57	76.7
4-Jun-15	14:27	Fine	011763	2.8446	2.8474	4890.77	4891.77	1.00	0.86	0.86	0.86	52	54.2
4-Jun-15	15:31	Fine	011760	2.8238	2.8248	4891.77	4892.77	1.00	0.86	0.86	0.86	52	19.3
9-Jun-15	13:00	Cloudy	011767	2.8420	2.8473	4916.77	4917.77	1.00	0.96	0.96	0.96	57	92.3
9-Jun-15	14:04	Cloudy	012135	2.8219	2.8260	4917.78	4918.78	1.00	1.06	1.06	1.06	64	64.4
9-Jun-15	15:12	Cloudy	012138	2.8222	2.8262	4918.78	4919.78	1.00	1.09	1.09	1.09	65	61.3
13-Jun-15	8:05	Cloudy	011997	2.8287	2.8321	4943.78	4944.78	1.00	0.96	0.96	0.96	57	59.2
13-Jun-15	9:15	Cloudy	011986	2.8122	2.8149	4944.78	4945.78	1.00	0.96	0.96	0.96	57	47.0
13-Jun-15	10:35	Cloudy	011989	2.8286	2.8313	4945.78	4946.78	1.00	1.01	1.01	1.01	61	44.6
19-Jun-15	11:00	Fine	011960	2.8182	2.8246	4946.83	4947.83	1.00	1.01	1.01	1.01	60	105.9
19-Jun-15	13:05	Fine	011963	2.8328	2.8407	4947.83	4948.83	1.00	0.95	0.95	0.95	57	137.9
19-Jun-15	14:56	Fine	011966	2.8172	2.8232	4948.83	4949.83	1.00	1.01	1.01	1.01	60	99.3
24-Jun-15	13:05	Rainy	012336	2.8304	2.8354	4984.82	4985.82	1.00	0.96	0.96	0.96	58	86.9
24-Jun-15	14:19	Rainy	012289	2.8095	2.8155	4985.82	4986.82	1.00	0.96	0.96	0.96	58	104.3
24-Jun-15	15:30	Rainy	012284	2.8282	2.8331	4986.82	4987.82	1.00	0.96	0.96	0.96	58	85.2



Location: CMA6a - WD2 PRE Office

 $\begin{array}{ccc} \text{Report on 24-hour TSP monitoring} \\ \text{Action Level -} & 187.3 & \mu\text{g/m3} \\ \text{Limit Level -} & 260 & \mu\text{g/m3} \end{array}$ 

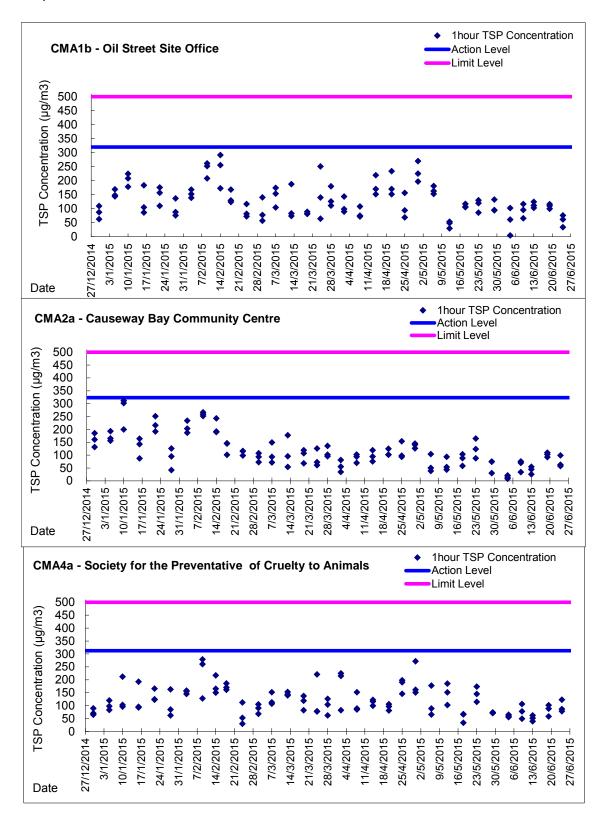
Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
28-May-15	8:00	Fine	012119	2.8315	2.9500	19945.52	19969.52	24.00	1.22	1.22	1.22	1757	67.4
3-Jun-15	8:00	Fine	011728	2.8214	2.9029	19972.53	19996.53	24.00	1.22	1.22	1.22	1760	46.3
8-Jun-15	8:00	Cloudy	011759	2.8149	2.8876	19999.53	20023.53	24.00	1.22	1.22	1.22	1758	41.3
12-Jun-15	8:00	Cloudy	011847	2.7204	2.8028	20026.53	20050.53	24.00	1.22	1.22	1.22	1756	46.9
18-Jun-15	8:00	Fine	012322	2.8364	2.9179	20053.62	20077.62	24.00	1.21	1.22	1.21	1749	46.6
23-Jun-15	8:00	Rainy	011980	2.8434	2.9434	20080.61	20104.61	24.00	1.22	1.22	1.22	1758	56.9

Report on 1-hour TSP monitoring Action Level - 300.1  $\mu$  g/m³ Limit Level - 500  $\mu$  g/m3

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
29-May-15	10:30	Fine	012180	2.8259	2.8323	19969.53	19970.53	1.00	1.22	1.22	1.22	73	87.4
29-May-15	13:00	Fine	012183	2.8335	2.8387	19970.53	19971.53	1.00	1.22	1.22	1.22	73	71.0
29-May-15	14:02	Fine	011736	2.8400	2.8498	19971.53	19972.53	1.00	1.22	1.22	1.22	73	133.8
4-Jun-15	13:00	Fine	012193	2.7979	2.8043	19996.53	19997.53	1.00	1.22	1.22	1.22	73	87.3
4-Jun-15	14:10	Fine	011740	2.8184	2.8255	19997.53	19998.53	1.00	1.22	1.22	1.22	73	96.8
4-Jun-15	15:13	Fine	011762	2.8077	2.8106	19998.53	19999.53	1.00	1.22	1.22	1.22	73	39.6
9-Jun-15	13:00	Cloudy	011769	2.8282	2.8352	20023.53	20024.53	1.00	1.22	1.22	1.22	73	95.6
9-Jun-15	14:20	Cloudy	012137	2.8288	2.8336	20024.53	20025.53	1.00	1.22	1.22	1.22	73	65.5
9-Jun-15	15:25	Cloudy	011998	2.8152	2.8210	20025.53	20026.53	1.00	1.22	1.22	1.22	73	79.2
13-Jun-15	8:01	Cloudy	011775	2.8239	2.8325	20050.53	20051.53	1.00	1.22	1.22	1.22	73	117.7
13-Jun-15	9:25	Cloudy	011772	2.8384	2.8439	20051.53	20052.53	1.00	1.22	1.22	1.22	73	75.2
13-Jun-15	10:35	Cloudy	012326	2.8253	2.8338	20052.53	20053.53	1.00	1.22	1.22	1.22	73	116.3
19-Jun-15	10:40	Fine	011959	2.7991	2.8069	20077.62	20078.62	1.00	1.22	1.22	1.22	73	107.0
19-Jun-15	13:00	Fine	011961	2.8156	2.8235	20078.62	20079.62	1.00	1.22	1.22	1.22	73	108.4
19-Jun-15		Fine	011967	2.8150	2.8239	20079.62	20080.62	1.00	1.22	1.22	1.22	73	122.1
24-Jun-15	13:00	Rainy	012298	2.8307	2.8374	20104.61	20105.61	1.00	1.22	1.22	1.22	73	91.5
24-Jun-15		Rainy	012287	2.7979	2.8057	20105.61	20106.61	1.00	1.22	1.22	1.22	73	106.5
24-Jun-15	15:10	Rainy	012290	2.8090	2.8199	20106.61	20107.61	1.00	1.22	1.22	1.22	73	148.9

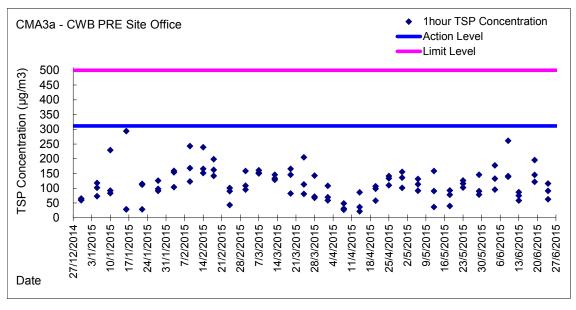


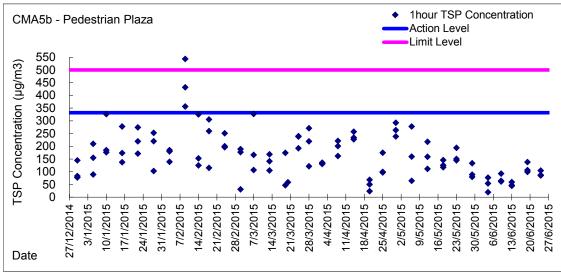
**Graphic Presentation of 1 hour TSP Result** 

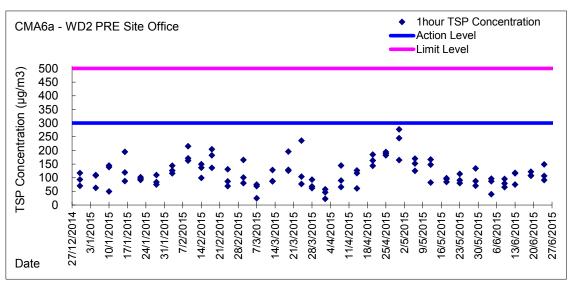




#### **Graphic Presentation of 1 hour TSP Result**

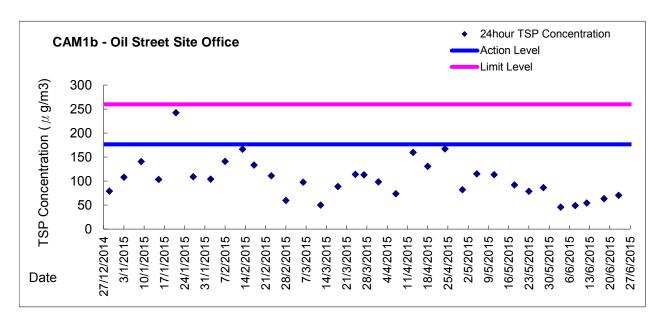


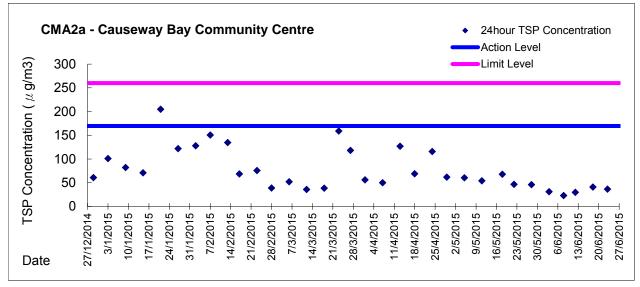


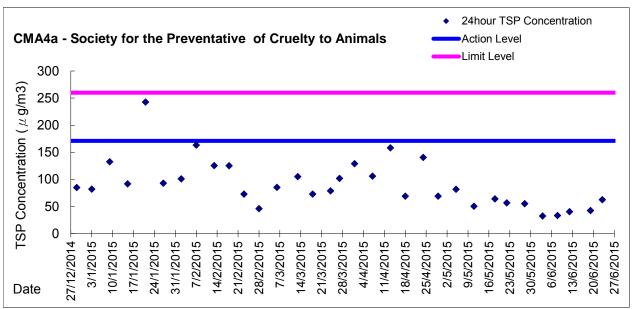




#### **Graphic Presentation of 24 hour TSP Result**

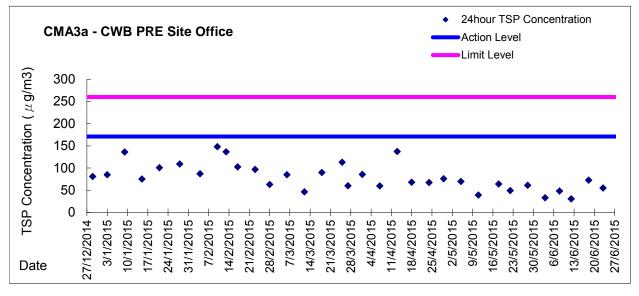


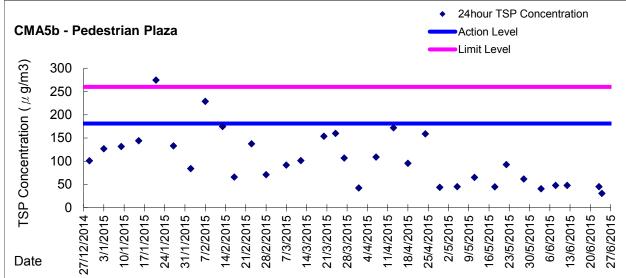


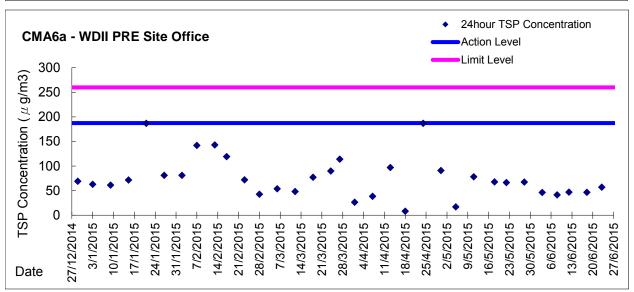




**Graphic Presentation of 24 hour TSP Result** 







### Appendix 5.4

Water Quality and Additional Dissolved Oxygen Monitoring Results and Graphical Presentations



#### Water Monitoring Result at C7 - Windsor House Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ded Solids
		0011414011	r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/5/2015	20:30	Cloudy	Middle	-	27.10	27.10	27.10	7.91	7.91	7.92	25.33	25.33	25.33	76.7	77.4	77.9	5.29	5.34	5.37	1.33	1.31	1.25	<2	<2
25/5/2010	20:31	Oloudy	Middle	-	27.10	27.10	21110	7.93	7.93	7.02	25.33	25.33	20.00	78.4	78.9	77.10	5.41	5.44	0.07	1.16	1.21	1.20	<2	_
30/5/2015	17:25	Fine	Middle	-	28.60	28.60	28.70	8.32	8.32	8.35	24.31	24.31	24.30	77.8	79.4	78.7	5.26	5.36	5.31	3.25	3.19	3.21	4	3.50
	17:27		Middle	-	28.80	28.80		8.38	8.38		24.29	24.29		79.2	78.2		5.35	5.28		3.21	3.17		3	
1/6/2015	19:00	Cloudy	Middle	-	27.10	27.10	27.15	8.29	8.29	8.31	27.46	27.46	27.46	65.2	65.5	65.5	4.44	4.46	4.46	4.55	4.40	4.44	4	4.00
	19:02	·	Middle	-	27.20	27.20		8.32	8.32		27.46	27.46		65.8	65.4		4.49	4.45		4.40	4.40		4	
3/6/2015	19:10	Cloudy	Middle	-	28.20	28.20	28.25	8.05	8.05	8.05	27.12	27.12	27.12	78.7	78.4	78.2	5.27	5.25	5.24	1.59	1.46	1.49	3	3.00
	19:11	-	Middle	-	28.30	28.30		8.05	8.05		27.12	27.12		77.9	77.8		5.21	5.21		1.49	1.43		3	
5/6/2015	20:28	Cloudy	Middle	-	27.00	27.00	27.05	7.90	7.90	7.91	27.92	27.92	27.92	73.7	74.6	73.4	5.01	5.07	4.99	1.48	1.46	1.37	<2	<2
	20:29		Middle	-	27.10	27.10		7.92	7.92		27.91	27.91		72.0	73.3		4.90	4.98		1.23	1.29		<2	<u> </u>
8/6/2015	8:25	Fine	Middle	-	27.30	27.30	27.40	8.09	8.09	8.09	29.29	29.29	29.29	59.6	60.8	60.9	4.00	4.08	4.08	3.81	3.81	3.81	4	3.50
	8:27		Middle	-	27.50	27.50		8.09	8.09		29.29	29.29		62.0	61.0		4.16	4.09		3.81	3.79		3	
10/6/2015	-	Fine	Middle	-	-	-		-	-	=	-	-		-	-		-	-		-	-		-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
12/6/2015	-	Fine	Middle	-	-	-		-	-	-	-	-		-	-		-	-		-	-		-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
15/6/2015	-	Fine	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	_
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
17/6/2015	20:09	Cloudy	Middle	-	27.20	27.20	27.25	8.12	8.12	8.15	28.88	28.88	28.89	79.6	79.5	80.3	5.37	5.37	5.42	4.63	4.61	4.55	7	7.00
	20:10		Middle	-	27.30	27.30		8.17	8.17		28.89	28.89		80.9	81.1		5.46	5.47		4.57	4.40		7	
19/6/2015	21:03	Fine	Middle	-	27.20	27.20	27.15	8.04	8.04	8.05	27.96	27.96	27.97	78.7	79.8	79.0	5.36	5.43	5.38	2.22	2.19	2.15	<2	<2
	21:04		Middle	-	27.10	27.10		8.06	8.06	1	27.98	27.98		79.2	78.1		5.39	5.32		2.11	2.09		<2	
22/6/2015	8:25 8:27	Cloudy	Middle Middle	-	27.30	27.30 27.30	27.30	8.24	8.24	8.24	25.68	25.68 25.68	25.68	63.6	64.2	64.7	4.36	4.41	4.44	3.91	3.89	3.89	3	3.50
	1:42		Middle	_	27.60	27.60		8.20	8.20	<u> </u>	24.80	24.80		77.2	75.9		5.29	5.22		1.86	1.58		<2	
25/6/2015	1:43	Cloudy	Middle		27.60	27.60	27.60	8.20	8.20	8.20	24.80	24.80	24.80	75.2	73.9	75.6	5.15	5.06	5.18	1.48	1.38	1.58	<2	<2
	2:40		Middle	-	28.10	28.10		8.34	8.34		23.77	23.77		82.9	80.1		5.67	5.48		1.42	1.39		3	<u> </u>
27/6/2015	2:41	Cloudy	Middle	_	28.10	28.10	28.10	8.34	8.34	8.34	23.77	23.77	23.77	81.3	82.3	81.7	5.56	5.63	5.59	1.31	1.33	1.36	3	3.00
	2.41		Middle	l -	20.10	20.10		0.54	0.54		20.11	23.17		01.5	02.5		3.30	3.03		1.01	1.55		3	



# Water Monitoring Result at C1 - HKCEC Extension Mid-Flood Tide

Date	Time	Weater Condition		g Depth	Wat	ter Temp	erature		pH -			Salinit	ty	С	O Satur	ation		DO mg/L			Turbid NTU	ity	Suspende	
			r	n	Va	ılue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	21:32	Cloudy	Middle	2.5	27.50	27.50	27.50	8.19	8.19	8.19	25.02	25.02	25.02	83.4	82.8	83.1	5.73	5.68	5.71	2.83	2.80	2.89	<2	<2
20/0/2010	21:33	Oloddy	Middle	2.5	27.50	27.50	27.00	8.19	8.19	0.10	25.02	25.02	20.02	83.0	83.1	00.1	5.71	5.71	0.71	2.94	2.99	2.00	<2	
30/5/2015	15:56	Fine	Middle	2.5	28.30	28.30	28.35	8.46	8.46	8.46	24.64	24.64	24.64	74.6	73.1	73.0	5.06	4.96	4.95	4.22	4.18	4.18	3	3.50
	15:58		Middle	2.5	28.40	28.40		8.46	8.46		24.64	24.64		72.3	71.9		4.90	4.88		4.16	4.15		4	
1/6/2015	17:28	Cloudy	Middle	2.5	26.90	26.90	26.90	8.33	8.33	8.33	28.14	28.14	28.14	57.8	57.2	56.8	3.94	3.90	3.87	4.73	4.81	4.90	5	5.00
	17:30	5.522,	Middle	2.5	26.90	26.90		8.33	8.33		28.14	28.14		56.1	56.1		3.83	3.82		5.01	5.03		5	
3/6/2015	17:04	Cloudy	Middle	2.5	27.50	27.50	27.50	8.22	8.22	8.22	26.78	26.78	26.78	56.8	58.9	56.9	3.86	4.00	3.86	2.89	2.94	2.94	6	6.00
0.0.2010	17:06	oloddy	Middle	2.5	27.50	27.50	21.00	8.21	8.21	0.22	26.77	26.77	20.10	57.1	54.7	00.0	3.88	3.71	0.00	2.97	2.96	2.0.	6	0.00
5/6/2015	22:14	Cloudy	Middle	2.5	26.40	26.40	26.40	8.11	8.11	8.11	28.89	28.89	28.89	77.5	77.8	77.6	5.31	5.33	5.31	2.75	2.46	2.58	<2	2.00
0.0.2010	22:15	oloday	Middle	2.5	26.40	26.40	20.10	8.11	8.11	0	28.89	28.89	20.00	77.2	77.7		5.29	5.32	0.01	2.58	2.52	2.00	2	2.00
8/6/2015	10:04	Fine	Middle	3.0	25.70	25.70	25.70	8.47	8.47	8.46	29.80	29.80	29.81	60.4	61.4	60.8	4.70	4.75	4.72	5.58	5.76	5.86	3	3.50
0/0/2010	10:06	Tillo	Middle	3.0	25.70	25.70	20.70	8.44	8.44	0.40	29.81	29.81	20.01	60.7	60.5	00.0	4.72	4.70	4.72	6.04	6.04	0.00	4	0.00
10/6/2015	14:20	Fine	Middle	2.5	27.20	27.20	27.20	8.28	8.28	8.28	28.58	28.58	28.58	69.6	69.8	69.5	4.71	4.73	4.71	2.74	2.84	2.82	4	5.00
10/0/2010	14:22	0	Middle	2.5	27.20	27.20	27.20	8.28	8.28	0.20	28.58	28.58	20.00	69.2	69.5	00.0	4.68	4.70		2.86	2.84	2.02	6	0.00
12/6/2015	15:16	Fine	Middle	2.5	27.80	27.80	27.85	8.33	8.33	8.33	27.94	27.94	27.94	64.2	64.6	63.8	4.32	4.38	4.30	3.00	3.00	3.00	4	3.50
	15:18		Middle	2.5	27.90	27.90		8.33	8.33		27.94	27.94		63.6	62.7		4.28	4.21		3.00	3.00		3	
15/6/2015	16:40	Fine	Middle	2.5	27.80	27.80	27.90	8.27	8.27	8.28	28.80	28.80	28.80	68.1	68.7	67.4	4.56	4.59	4.51	3.81	3.82	3.83	3	3.00
	16:42		Middle	2.5	28.00	28.00		8.28	8.28		28.79	28.79		64.9	68.0	-	4.34	4.54		3.84	3.85		3	
17/6/2015	17:11	Cloudy	Middle	2.5	28.00	28.00	21.03	8.35	8.35	8.35	28.16	28.16	28.15	76.0	75.5	74.9	5.08	5.05	5.01	2.64	2.59	2.54	6	6.00
	17:13	,	Middle	2.5	0.00	28.10		8.35	8.35		28.14	28.14		74.8	73.2		5.00	4.89		2.54	2.39		6	
19/6/2015	23:49	Fine	Middle	2.0	26.90	26.90	26.85	8.13	8.13	8.13	30.16	30.16	30.16	85.3	85.7	84.5	5.76	5.79	5.71	2.47	2.34	2.40	<2	<2
	23:50		Middle	2.0	26.80	26.80		8.13	8.13		30.16	30.16		84.3	82.7		5.69	5.59	-	2.37	2.41		<2	
22/6/2015	10:04	Cloudy	Middle	2.5	26.30	26.30	26.30	8.69	8.69	8.64	28.09	28.10	28.09	55.8	56.2	54.8	3.86	3.87	3.78	6.38	6.45	6.44	6	6.00
	10:06		Middle	2.5	26.30	26.30		8.59	8.59		28.08	28.08		54.1	53.1		3.73	3.66		6.47	6.45		6	
25/6/2015	2:42	Cloudy	Middle	2.0	27.40	27.40	27.40	8.28	8.28	8.29	25.35	25.35	25.35	75.8	76.8	76.0	5.20	5.26	5.21	2.68	2.19	2.26	2	2.00
	2:43	,	Middle	2.0	27.40	27.40		8.29	8.29		25.35	25.35		75.4	76.1	-	5.17	5.22		2.10	2.08		<2	
27/6/2015	23:21	Cloudy	Middle	2.0	28.10	28.10	28.15	8.45	8.45	8.45	23.29	23.29	23.29	89.6	88.6	89.5	6.15	6.08	6.14	2.20	2.36	2.29	4	4.00
	23:22		Middle	2.0	28.20	28.20		8.45	8.45		23.29	23.29		90.5	89.1		6.21	6.11		2.29	2.30		4	



#### Water Monitoring Result at P1 - HKCEC Phase I Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	21:06	Cloudy	Middle	2.5	27.60	27.60	27.60	8.18	8.18	8.18	24.30	24.30	24.30	81.3	83.7	82.6	5.57	5.74	5.67	2.46	2.41	2.39	<2	<2
20/3/2013	21:07	Oloudy	Middle	2.5	27.60	27.60	27.00	8.18	8.18	0.10	24.30	24.30	24.00	83.0	82.5	02.0	5.70	5.66	5.07	2.36	2.34	2.00	<2	
30/5/2015	15:44	Fine	Middle	2.5	29.20	29.20	29.35	8.59	8.59	8.62	23.42	23.42	23.89	94.9	94.0	93.1	6.37	6.30	6.24	5.60	5.58	5.51	4	5.00
	15:46	-	Middle	2.5	29.50	29.50		8.65	8.65		24.36	24.36		92.0	91.3		6.17	6.12	-	5.48	5.38		6	
1/6/2015	17:15	Cloudy	Middle	2.5	27.90	27.90	27.90	8.34	8.34	8.35	27.10	27.10	27.10	58.0	55.5	55.0	3.91	3.74	3.73	3.52	3.52	3.52	5	4.00
	17:17	,	Middle	2.5	27.90	27.90		8.35	8.35		27.10	27.10		53.8	52.6		3.63	3.65		3.52	3.53		3	
3/6/2015	16:48	Cloudy	Middle	2.5	28.30	28.30	28.40	8.22	8.22	8.22	26.53	26.53	26.48	64.9	64.5	63.0	4.35	4.33	4.23	3.36	3.35	3.32	4	4.00
	16:50	,	Middle	2.5	28.50	28.50		8.22	8.22		26.43	26.43		62.3	60.3		4.18	4.04		3.28	3.28		4	
5/6/2015	21:48	Cloudy	Middle	2.5	26.50	26.50	26.45	8.11	8.11	8.11	28.89	28.89	28.90	71.5	72.5	72.0	4.89	4.96	4.93	3.53	3.42	3.38	4	3.00
	21:49	,	Middle	2.5	26.40	26.40		8.11	8.11		28.90	28.90		72.7	71.3		4.97	4.88		3.32	3.23		2	
8/6/2015	10:24	Fine	Middle	3.0	26.20	26.20	26.20	8.16	8.16	8.15	30.02	30.02	30.02	59.4	58.9	58.0	4.06	4.02	3.96	2.17	2.10	2.10	4	3.50
	10:26		Middle	3.0	26.20	26.20		8.14	8.14		30.02	30.02		57.7	56.0		3.94	3.82		2.07	2.05		3	
10/6/2015	14:00	Fine	Middle	2.5	27.70	27.70	27.80	8.27	8.27	8.26	28.88	28.88	28.88	68.9	69.1	68.8	4.62	4.64	4.61	1.70	1.70	1.70	8	8.00
	14:02		Middle	2.5	27.90	27.90		8.25	8.25		28.88	28.88		69.1	67.9		4.64	4.53		1.70	1.69		8	
12/6/2015	15:00	Fine	Middle	2.5	28.10	28.10	28.30	8.22	8.22	8.25	27.98	27.98	27.91	62.8	65.3	64.1	4.19	4.35	4.27	3.40	3.72	3.58	5	4.00
	15:02		Middle	2.5	28.50	28.50		8.27	8.27		27.83	27.83		65.1	63.1		4.34	4.20		3.66	3.54		3	
15/6/2015	16:23	Fine	Middle	2.5	29.50	29.50	29.65	8.27	8.27	8.28	27.99	27.99	27.99	72.0	73.4	72.4	4.70	4.79	4.72	3.73	3.71	3.71	3	4.00
	16:25		Middle	2.5	29.80	29.80		8.28	8.28		27.99	27.99		73.5	70.7		4.79	4.61		3.71	3.70		5	
17/6/2015	16:55	Cloudy	Middle	2.5	28.50	28.50	28.65	8.33	8.33	8.34	28.25	28.25	28.25	77.3	77.0	76.2	5.11	5.10	5.05	2.28	2.25	2.29	4	4.00
	16:57	-	Middle	2.5	28.80	28.80		8.35	8.35		28.25	28.25		76.2	74.3		5.04	4.95		2.28	2.33		4	
19/6/2015	23:22	Fine	Middle	2.0	26.90	26.90	26.85	8.10	8.10	8.10	30.89	30.89	30.89	74.6	74.4	73.7	5.02	5.01	4.96	4.45	4.38	4.27	2	3.00
	23:23		Middle	2.0	26.80	26.80		8.10	8.10		30.89	30.89		73.7	72.1		4.96	4.85		4.15	4.11		4	
22/6/2015	10:27	Cloudy	Middle	2.5	27.60	27.60	27.65	8.31	8.31	8.30	26.97	26.97	27.01	60.5	59.0	58.4	4.11	4.04	3.97	2.53	2.53	2.54	3	3.00
	10:29	-	Middle	2.5	27.70	27.70		8.29	8.29		27.04	27.04		57.7	56.3		3.91	3.81		2.51	2.57		3	
25/6/2015	2:17	Cloudy	Middle	2.0	27.60	27.60	27.60	8.34	8.34	8.35	25.05	25.05	25.05	78.4	79.9	79.7	5.37	5.50	5.47	2.08	2.05	2.02	<2	2.00
	2:18		Middle	2.0	27.60	27.60		8.35	8.35		25.04	25.04		80.4	80.0		5.52	5.48		2.00	1.93		2	
27/6/2015	22:58	Cloudy	Middle	2.0	28.20	28.20	28.20	8.46	8.46	8.46	23.37	23.37	23.37	89.8	90.7	90.7	6.15	6.21	6.21	3.04	2.98	3.03	5	4.50
	22:59	•	Middle	2.0	28.20	28.20		8.46	8.46		23.37	23.37		92.0	90.1		6.30	6.17		3.02	3.09		4	



# Water Monitoring Result at P3 - APA Mid-Flood Tide

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids
2   2   2   2   2   2   2   2   2   2			Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va		Average	Va				Average
1547   Fine   Middle   2.5   27.0   27.0   27.0   27.0   28.1   28.0	28/5/2015	21:11	Cloudy	Middle	2.5	27.70	27.70	27.70	8.09	8.09	9.10	24.95	24.95	24.05	86.5	87.0	86.3	5.92	5.95	5.00	1.99	1.95	1 04	<2	<2
1600115   1600	20/3/2013	21:12	Cloudy	Middle	2.5	27.70	27.70	21.10	8.11	8.11	0.10	24.95	24.95	24.93	86.2	85.4	00.5	5.90	5.84	5.90	1.97	1.84	1.94	<2	~2
1549   Middle   2.5   2.80   2.80   2.80   8.80   8.87   2.25   2.80   2.80   7.80   7.80   5.35   5.26   4.49   4.51   3	30/5/2015	15:47	Fine	Middle	2.5	28.80	28.80	28.80	8.58	8.58	8.63	23.70	23.70	23.65	79.2	78.8	78.6	5.36	5.33	5.32	4.41	4.40	4.45	4	3.50
18/2015   18/2		15:49		Middle	2.5	28.80	28.80		8.67	8.67		23.59	23.59		78.7	77.8		5.32	5.26		4.49	4.51		3	
1720   Moddle   2.5   27.80	1/6/2015	17:18	Cloudy	Middle	2.5	27.60	27.60	27.60	8.34	8.34	8.34	27.46	27.46	27.46	63.6	62.3	62.0	4.30	4.22	4.20	3.53	3.37	3.41	4	4.00
16:54   Cloudy   Middle   2.5   28.00   28.0		17:20	,	Middle	2.5	27.60	27.60		8.33	8.33		27.46	27.46		61.6	60.6		4.17	4.10	_	3.37	3.37		4	
1654   Middle   2.5   28.00   28.00   8.22   8.22   28.41   28.41   28.41   63.1   63.3   63.3   4.27   4.29   2.42   2.40   3   3   3   3   3   3   3   3   3	3/6/2015	16:52	Cloudy	Middle	2.5	27.80	27.80	27.90	8.23	8.23	8.23	26.44	26.44	26.43	63.9	63.0	63.3	4.33	4.26	4.29	2.64	2.50	2.49	3	3.00
Self-2015   Cloudy   Middle   2.5   26.40   26.40   26.40   26.40   8.12   8.12   8.12   28.96   28.96   74.1   73.5   73.7   5.07   5.07   5.04   5.05   2.79   2.70   2.70   2.70   3.10   3.00   3.11   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00   3.00		16:54	,	Middle	2.5	28.00	28.00		8.22	8.22		26.41	26.41		63.1	63.3		4.27	4.29		2.42	2.40		3	
10:16   Fine   Middle   3.0   26:10   26:10   26:15   8.25   8.24   29:64   29:64   29:64   29:64   29:64   44.4   46.6   45.5   3.07   3.06   3.11   1.98   1.97   1.96   3.0   3.11   1.97   3.0   3.11   1.97   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.0   3.11   3.1	5/6/2015	21:54	Cloudy	Middle	2.5	26.40	26.40	26.40	8.12	8.12	8.12	28.96	28.96	28.96	73.2	73.9	73.7	5.01	5.06	5.05	2.75	2.81	2.76	<2	<2
10/6/2015   10/18   Fine   Middle   3.0   26.20   26.20   26.15   8.23   8.24   29.64   29.64   29.64   44.4   46.6   45.5   3.03   3.18   3.11   1.97   1.96   1.97   1.97   1.96   1.97   1.96   1.97   1.97   1.96   1.97   1.97   1.96   1.97   1		21:55	•	Middle	2.5	26.40	26.40		8.12	8.12		28.96	28.96		74.1	73.5		5.07	5.04		2.79	2.70		<2	
14:05   Fine   Middle   2.5   27.70   27.80   8.29   8.29   8.29   27.94   2	8/6/2015	10:16	Fine	Middle	3.0	26.10	26.10	26.15	8.25	8.25	8.24	29.64	29.64	29.64	46.4	44.7	45.5	3.17	3.06	3.11	1.98	1.97	1.97	5	4.00
10/6/2015   14:07   Fine   Middle   2.5   27.70   27.70   27.70   27.80   8.26   8.26   8.26   28.19   28.19   70.4   69.8   70.2   4.73   4.69   4.72   3.20   3.21   6		10:18		Middle	3.0	26.20	26.20		8.23	8.23		29.64	29.64		44.4	46.6		3.03	3.18		1.97	1.96		3	
15:04   Fine   Middle   2.5   27.70   27.70   27.80   8.29   8.29   27.94   27.94   27.94   27.93   62.4   61.7   61.1   4.19   4.16   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4.11   3.46   3.38   3.40   4   4   4.11   3.46   3.38   3.40   4   4   4   4   4   4   4   4   4	10/6/2015	14:05	Fine	Middle	2.5	27.70	27.70	27.70	8.26	8.26	8.26	28.19	28.19	28.19	70.1	70.3	70.2	4.71	4.73	4.72	3.30	3.14	3.21	5	5.50
12/6/2015   15:06   Fine   Middle   2.5   27:90   27:90   27:80   8.29   8.29   27:91   27:91   27:93   60.3   60.0   61.1   4.06   4.03   4.11   3.27   3.49   3.40   4		14:07		Middle	2.5	27.70	27.70		8.26	8.26		28.19	28.19		70.4	69.8		4.73	4.69		3.20	3.21		6	
16:27 Fine Middle 2.5 28.20 28.20 28.35 8.30 8.30 8.30 8.30 27.83 27.83 27.83 73.4 71.9 72.5 4.89 4.79 4.83 2.73 2.74 2.74 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12/6/2015	15:04	Fine	Middle	2.5	27.70	27.70	27.80	8.29	8.29	8.29	27.94	27.94	27.93	62.4	61.7	61.1	4.19	4.16	4.11	3.46	3.38	3.40	4	4.00
15/6/2015   Fine   Middle   2.5   28.50   28.50   28.50   8.29   8.29   8.30   27.82   27.82   27.83   73.4   71.3   72.5   4.89   4.74   4.83   2.74   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   4.83   2.74   2.74   2.74   4.83   2.74   2.74   2.74   4.83   2.74   2.		15:06		Middle	2.5	27.90	27.90		8.29	8.29		27.91	27.91		60.3	60.0		4.06	4.03		3.27	3.49		4	
16:59 Cloudy Hiddle 2.5 27.70 27.70 27.85 8.34 8.34 13.33 28.11 28.11 28.11 28.12 28.12 73.8 73.3 74.1 4.95 4.92 4.98 2.77 2.76 2.75 4 6 6 74.1 70.1 70.1 70.1 70.1 70.1 70.1 70.1 70	15/6/2015		Fine	Middle	2.5	28.20	28.20	28.35	8.30	8.30	8.30	27.83	27.83	27.83		71.9	72.5	4.89	4.79	4.83		2.74	2.74	4	4.00
17/6/2015						1										 									
23:28   Fine   Middle   2.0   27.00   27.00   27.00   27.00   27.00   8.08   8.09   8.09   8.09   8.09   29.88   29.	17/6/2015		Cloudy					27.85			13.33			28.12			74.1			4.98			2.75		5.00
19/6/2015 Fine Middle 2.0 27.00 27.00 27.00 8.09 8.09 29.88 29.88 29.88						1						<u> </u>				<u> </u> 									<del>                                     </del>
22/6/2015 Cloudy Middle 2.5 27.00 27.00 27.00 27.00 8.35 8.35 8.34 27.21 27.21 27.22 57.2 56.1 54.9 3.91 3.84 3.75 2.01 2.99 2.24 2 25/6/2015 Cloudy Middle 2.5 27.10 27.10 27.60 27	19/6/2015		Fine					27.00			8.09			29.88			85.8			5.79			3.13		4.00
22/6/2015 Cloudy Middle 2.5 27.10 27.10 27.05 8.33 8.34 27.23 27.23 27.23 54.1 52.3 54.9 3.67 3.57 1.97 1.97 2.24 2 25/6/2015 Cloudy Middle 2.0 27.60					-																				$\vdash$
2:22 Cloudy Middle 2.0 27.60 2	22/6/2015		Cloudy					27.05			8.34			27.22			54.9			3.75		-	2.24		2.00
25/6/2015 Cloudy 27.60 8.35 25.19 78.8 5.39 2.11		l l				1								<u> </u>									<u> </u> 		<del>-  </del>
	25/6/2015		Cloudy					27.60			8.35			25.19			78.8			5.39			2.11		2.50
23:06 Middle 2.0 28.10 28.10 8.46 8.46 23.31 23.31 82.0 82.5 5.62 5.65 2.36 2.33 3		l l				1																	<u> </u>		$\vdash$
27/6/2015 Cloudy Middle 2.0 28.20 28.20 28.15 8.46 8.46 23.32 23.32 84.2 83.3 5.77 5.71 2.30 2.30 2.30 2.27 5	27/6/2015		Cloudy					28.15			8.46			23.32			83.0			5.69			2.32		4.00



# Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		рН			Salinit	ty	D	O Satur	ation		DO			Turbid			led Solids
Date		Condition	n	n	Va	lue °C	Average	Va	lue	Average	Va	ppt lue	Average	Va	llue %	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mç Value	g/L Average
	21:16	a	Middle	2.5	27.50	27.50		8.19	8.19		24.30	24.30		86.2	87.1		5.92	5.98		3.97	3.93		3	
28/5/2015 -	21:17	Cloudy	Middle	2.5	27.60	27.60	27.55	8.19	8.19	8.19	24.30	24.30	24.30	86.6	85.9	86.5	5.94	5.89	5.93	3.54	3.62	3.77	2	2.50
30/5/2015	15:50	Fine	Middle	2.5	28.50	28.50	28.70	8.55	8.55	8.53	24.12	24.12	24.13	73.9	73.6	72.1	5.00	4.97	4.80	4.83	4.69	4.69	5	4.50
30/3/2013	15:51	Tille	Middle	2.5	28.90	28.90	20.70	8.51	8.51	0.55	24.13	24.13	24.13	71.7	69.1	72.1	4.63	4.58	4.00	4.59	4.64	4.03	4	4.50
1/6/2015	17:21	Cloudy	Middle	2.5	27.00	27.00	27.00	8.34	8.34	8.34	28.05	28.05	28.05	56.2	55.2	54.7	3.83	3.76	3.73	5.32	5.13	5.17	4	5.00
170/2013	17:23	Cloudy	Middle	2.5	27.00	27.00	27.00	8.34	8.34	0.54	28.05	28.05	20.03	54.3	53.1	34.7	3.69	3.62	5.75	5.10	5.13	5.17	6	3.00
3/6/2015	16:56	Cloudy	Middle	2.5	27.80	27.80	27.80	8.23	8.23	8.24	26.50	26.50	26.50	62.0	61.1	61.5	4.20	4.14	4.17	3.14	3.16	3.09	4	4.00
3/0/2013	16:58	Cloudy	Middle	2.5	27.80	27.80	27.00	8.24	8.24	0.24	26.50	26.50	20.30	61.2	61.5	01.5	4.15	4.17	4.17	3.03	3.01	3.09	4	4.00
5/6/2015	22:02	Cloudy	Middle	2.5	26.40	26.40	26.40	8.08	8.08	8.09	28.97	28.97	28.97	83.4	83.8	83.5	5.71	5.73	5.72	2.94	3.02	2.95	<2	<2
3/0/2013	22:03	Oloudy	Middle	2.5	26.40	26.40	20.40	8.10	8.10	0.00	28.97	28.97	20.31	83.1	83.7	00.0	5.69	5.73	5.72	2.84	2.99	2.00	<2	
8/6/2015	10:12	Fine	Middle	3.0	26.20	26.20	26.30	8.32	8.32	8.30	33.11	33.11	33.11	62.6	62.1	61.5	4.58	4.16	4.23	3.12	3.11	3.11	3	3.00
0/0/2013	10:14	TING	Middle	3.0	26.40	26.40	20.50	8.28	8.28	0.50	33.11	33.11	55.11	59.1	62.3	01.5	3.95	4.22	4.23	3.11	3.11	3.11	3	3.00
10/6/2015	14:10	Fine	Middle	2.5	27.40	27.40	27.40	8.26	8.26	8.26	28.48	28.48	28.48	68.3	69.7	69.7	4.61	4.72	4.71	2.44	2.39	2.33	5	5.50
10/0/2013	14:12	TING	Middle	2.5	27.40	27.40	27.40	8.26	8.26	0.20	28.48	28.48	20.40	70.2	70.5	03.1	4.74	4.75	4.71	2.32	2.15	2.00	6	3.30
12/6/2015	15:08	Fine	Middle	2.5	27.60	27.60	27.70	8.31	8.31	8.32	27.99	27.99	27.98	65.4	64.4	63.5	4.41	4.33	4.28	3.26	3.21	3.23	4	4.00
12/0/2010	15:10	1 1110	Middle	2.5	27.80	27.80	27.70	8.33	8.33	0.02	27.97	27.97	27.00	61.3	63.0	00.0	4.13	4.23	4.20	3.22	3.21	0.20	4	4.00
15/6/2015	16:31	Fine	Middle	2.5	27.90	27.90	28.10	8.27	8.27	8.27	28.37	28.37	28.37	72.4	70.8	71.3	4.82	4.72	4.75	2.74	2.71	2.73	3	3.00
16/6/2010	16:33		Middle	2.5	28.30	28.30	20.10	8.26	8.26	0.21	28.37	28.37	20.07	71.2	70.7		4.74	4.71	0	2.72	2.73	20	3	0.00
17/6/2015	17:03	Cloudy	Middle	2.5	28.00	28.00	28.05	8.34	8.34	8.35	28.14	28.14	28.14	76.5	75.8	74.9	5.12	5.06	5.01	2.95	2.99	2.96	5	5.00
1170/2010	17:05	Cloudy	Middle	2.5	28.10	28.10	20.00	8.36	8.36	0.00	28.14	28.14	20.14	74.2	73.2	74.0	4.96	4.89	0.01	3.01	2.90	2.00	5	0.00
19/6/2015	23:34	Fine	Middle	2.0	27.10	27.10	27.05	8.12	8.12	8.13	30.08	30.08	30.09	82.7	83.6	83.1	5.57	5.65	5.61	3.10	3.04	3.06	<2	<2
10/0/2010	23:35	1 1110	Middle	2.0	27.00	27.00	27.00	8.13	8.13	0.10	30.09	30.09	00.00	83.2	83.0	00.1	5.61	5.59	0.01	3.00	3.08	0.00	<2	
22/6/2015	10:15	Cloudy	Middle	2.5	27.00	27.00	27.00	8.41	8.41	8.40	27.49	27.49	27.53	60.0	58.0	57.1	4.09	3.96	3.90	1.97	1.97	1.97	2	3.00
22/0/2010	10:17	Cloudy	Middle	2.5	27.00	27.00	27.00	8.39	8.39	0.40	27.56	27.56	27.00	56.1	54.3	07.1	3.83	3.71	0.00	1.96	1.96	1.07	4	0.00
25/6/2015	2:27	Cloudy	Middle	2.0	27.50	27.50	27.55	8.22	8.22	8.24	25.00	25.00	25.01	79.1	79.6	80.1	5.43	5.47	5.50	2.57	2.31	2.36	<2	2.00
20/0/2010	2:28	Cloudy	Middle	2.0	27.60	27.60	27.00	8.26	8.26	0.24	25.01	25.01	20.01	80.2	81.4	00.1	5.51	5.59	0.00	2.29	2.27	2.00	2	2.00
27/6/2015	23:11	Cloudy	Middle	2.0	28.10	28.10	28.10	8.45	8.45	8.46	23.33	23.33	23.34	86.7	87.9	87.4	5.94	6.03	6.00	3.79	3.65	3.73	4	4.50
2.73/2010	23:12	J.Judy	Middle	2.0	28.10	28.10	20.10	8.46	8.46	3.40	23.34	23.34	20.04	88.7	86.4	5	6.08	5.93	5.50	3.72	3.76	5.70	5	50



## Water Monitoring Result at P5 - WCT / RT / IT Mid-Flood Tide

Dete	Time	Weater	Samplin	g Depth	Wat	er Temp	perature		pН			Salinit	ty	D	O Satur	ation		DO			Turbid		Suspend	led Solids
Date		Condition	n	n	Va	°C lue	Average	Va	lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	Value	g/L Average
	21:22		Middle	2.5	27.40	27.40		8.16	8.16		24.87	24.87		79.1	80.6		5.43	5.54		2.65	2.76		<2	
28/5/2015	21:23	Cloudy	Middle	2.5	27.50	27.50	27.45	8.16	8.16	8.16	24.86	24.86	24.87	83.8	82.2	81.4	5.75	5.65	5.59	2.68	2.70	2.70	<2	<2
30/5/2015	15:52	Fine	Middle	2.5	28.60	28.60	28.60	8.46	8.46	8.46	24.21	24.21	24.21	67.2	67.8	69.8	4.56	4.60	4.73	4.36	4.38	4.36	3	3.00
30/3/2013	15:54	Tille	Middle	2.5	28.60	28.60	20.00	8.45	8.45	0.40	24.21	24.21	24.21	71.8	72.3	09.0	4.87	4.90	4.75	4.37	4.31	4.30	3	3.00
1/6/2015	17:24	Cloudy	Middle	2.5	27.00	27.00	27.05	8.33	8.33	8.33	28.16	28.16	28.16	61.3	60.2	59.2	4.17	4.09	4.05	4.41	4.40	4.39	4	4.50
17072010	17:26	Cloudy	Middle	2.5	27.10	27.10	27.00	8.33	8.33	0.00	28.16	28.16	20.10	58.8	56.4	00.E	4.00	3.93	4.00	4.39	4.37	4.00	5	4.00
3/6/2015	17:00	Cloudy	Middle	2.5	27.70	27.70	27.75	8.23	8.23	8.23	26.60	26.60	26.60	60.0	59.3	59.3	4.07	4.02	4.02	2.74	2.65	2.67	4	4.00
0/0/2010	17:02	o.ouu,	Middle	2.5	27.80	27.80	270	8.23	8.23	0.20	26.60	26.60	20.00	59.4	58.5	00.0	4.02	3.96	2	2.64	2.64	2.01	4	
5/6/2015	22:09	Cloudy	Middle	2.5	26.40	26.40	26.35	8.11	8.11	8.11	29.08	29.08	29.08	74.1	75.5	75.0	5.08	5.17	5.14	4.67	4.64	4.51	<2	<2
	22:10	,	Middle	2.5	26.30	26.30		8.11	8.11		29.08	29.08		75.4	75.0		5.16	5.14	-	4.46	4.27		<2	
8/6/2015	10:08	Fine	Middle	3.0	26.10	26.10	26.10	8.37	8.37	8.36	29.54	29.54	29.54	63.3	63.4	63.4	4.34	4.35	4.34	2.38	2.34	2.33	4	4.50
	10:10		Middle	3.0	26.10	26.10		8.34	8.34		29.54	29.54		63.2	63.5		4.33	4.35		2.31	2.27		5	
10/6/2015	14:15	Fine	Middle	2.5	27.10	27.10	27.15	8.29	8.29	8.29	28.61	28.61	28.61	70.5	70.1	70.1	4.77	4.75	4.74	2.62	2.71	2.68	5	5.50
	14:17		Middle	2.5	27.20	27.20		8.29	8.29		28.61	28.61		69.7	70.0		4.68	4.74		2.73	2.64		6	
12/6/2015	15:12	Fine	Middle	2.5	27.70	27.70	27.70	8.34	8.34	8.34	27.94	27.94	27.93	61.9	62.5	61.7	4.17	4.21	4.16	3.16	3.02	2.91	4	4.50
	15:14		Middle	2.5	27.70	27.70		8.34	8.34		27.92	27.92		61.6	60.9		4.16	4.10		2.70	2.74		5	
15/6/2015	16:35	Fine	Middle	2.5	27.70	27.70	27.80	8.26	8.26	8.27	28.67	28.67	28.67	70.5	70.5	69.8	4.73	4.72	4.67	2.71	2.73	2.79	2	2.50
	16:37		Middle	2.5	27.90	27.90		8.27	8.27		28.67	28.67		69.2	68.9		4.63	4.61		2.84	2.89		3	
17/6/2015	17:07	Cloudy	Middle	2.5	27.90	27.90	27.95	8.36	8.36	8.36	28.14	28.14	28.14	75.2	73.4	73.4	5.04	4.92	4.74	2.87	2.87	2.87	6	5.50
	17:09		Middle	2.5	28.00	28.00		8.36	8.36		28.14	28.14		70.7	74.1		4.04	4.96		2.87	2.86		5	1
19/6/2015	23:41	Fine	Middle	2.0	27.10	27.10	27.05	8.13	8.13	8.13	30.20	30.20	30.20	81.1	82.2	81.3	5.45	5.56	5.48	2.70	2.51	2.55	<2	2.00
	23:42		Middle	2.0	27.00	27.00		8.13	8.13		30.20	30.20		81.3	80.5		5.47	5.42		2.47	2.53		2	<u> </u>
22/6/2015	10:07	Cloudy	Middle	2.5	26.60	26.60	26.60	8.50	8.50	8.54	27.72	27.72	27.72	56.2	54.5	53.8	3.90	3.75	3.69	2.31	2.28	2.27	3	3.50
	10:09		Middle	2.5	26.60	26.60		8.57	8.57		27.73	27.72		53.9	50.5		3.63	3.47		2.23	2.24		4	
25/6/2015	2:33	Cloudy	Middle Middle	2.0	27.40	27.40 27.50	27.45	8.31	8.31	8.31	25.33	25.33	25.33	74.8 75.1	76.0	75.0	5.16	5.21	5.15	2.19	2.33	2.28	<2 2	2.00
				2.0		 			8.31		25.33	25.33			74.1		5.15				2.30	<u> </u>		
27/6/2015	23:18	Cloudy	Middle Middle	2.0	27.90	27.90 27.90	27.93	8.45	8.45	8.45	23.37	23.37	23.37	89.9 90.8	91.2	90.2	6.18	6.27	6.20	2.66	2.57	2.61	5	4.50
	23:19		iviidale	2.0	28.00	27.90		ช. <del>4</del> 5	8.45		23.37	23.37		90.8	88.9		0.24	6.11		2.59	2.63		5	



#### Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Flood Tide

Date	Time	Weater Condition		Sampling Depth m		er Temp	erature		pH -			Salinit	ty	П	O Satur	ation		DO mg/L			Turbid		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	19:55	Cloudy	Middle	3.0	27.50	27.50	27.55	8.10	8.11	8.11	25.50	25.50	25.50	80.0	80.8	80.1	5.47	5.53	5.48	2.16	1.94	1.93	<2	- <u>&lt;2</u>
20/0/2010	19:56	oloddy	Middle	3.0	27.60	27.60	27.00	8.12	8.12	0.11	25.49	25.49	20.00	79.3	80.1	00.1	5.42	5.48	0.40	1.86	1.77	1.00	<2	
30/5/2015	16:05	Fine	Middle	3.0	28.40	28.40	28.60	8.44	8.44	8.45	24.30	24.30	24.30	88.9	87.5	87.8	6.03	5.93	5.95	3.26	3.27	3.26	3	3.50
	16:07		Middle	3.0	28.80	28.80		8.45	8.45		24.30	24.30		87.4	87.2		5.93	5.91		3.26	3.25		4	
1/6/2015	17:53	Cloudy	Middle	3.5	26.90	26.90	26.85	8.20	8.20	8.26	27.86	27.86	27.85	58.3	57.3	57.4	3.99	3.92	3.93	4.80	4.81	4.71	4	3.50
	17:55	·	Middle	3.5	26.80	26.80		8.32	8.32		27.84	27.84		57.3	56.6		3.93	3.87		4.60	4.61		3	
3/6/2015	21:00	Cloudy	Middle	3.0	27.30	27.30	27.30	8.15	8.15	8.15	27.85	27.85	27.85	84.8	87.0	85.9	5.65	5.80	5.72	2.27	2.25	2.21	3	2.50
	21:01	-	Middle	3.0	27.30	27.30		8.15	8.15		27.85	27.85		85.2	86.5		5.67	5.77		2.12	2.20		2	
5/6/2015	19:40	Cloudy	Middle	3.0	27.10	27.10	27.15	7.99	7.99	7.99	27.90	27.90	27.90	71.2	72.8	72.7	4.84	4.94	4.94	3.27	3.31	3.21	<2	2.00
	19:41		Middle	3.0	27.20	27.20		8.00	7.99		27.90	27.90		73.8	73.0		5.01	4.95		3.08	3.16		2	<u> </u>
8/6/2015	7:55	Fine	Middle	3.0	26.90	26.90	26.90	8.16	8.16	8.16	28.97	28.97	28.98	66.2	66.2	65.8	4.50	4.50	4.47	2.96	2.96	2.96	4	4.00
	7:57		Middle	3.0	26.90	26.90		8.16	8.16		28.98	28.98		65.1	65.5		4.42	4.45		2.95	2.95		4	
10/6/2015	9:58	Fine	Middle	3.0	28.20	28.20	28.30	8.25	8.25	8.27	27.96	27.96	27.96	71.3	74.5	72.8	4.75	4.96	4.85	3.21	3.23	3.23	9	9.50
	10:00		Middle	3.0	28.40	28.40		8.29	8.29		27.96	27.96		73.0	72.5		4.85	4.83		3.23	3.24		10	<u> </u>
12/6/2015	15:40	Fine	Middle	3.0	27.80	27.80	27.85	8.35	8.35	8.38	27.43	27.43	27.43	80.4	80.6	80.3	5.41	5.42	5.40	3.09	3.11	3.11	4	4.50
	15:42		Middle	3.0	27.90	27.90		8.40	8.40		27.43	27.43		80.2	79.8		5.40	5.37		3.12	3.13		5	<u> </u>
15/6/2015	15:40	Fine	Middle	3.0	28.60	28.60	28.85	8.32	8.32	8.33	28.13	28.13	28.12	77.8	78.1	78.1	5.13	5.15	5.15	5.75	5.65	5.58	8	8.50
	15:42		Middle	3.0	29.10	29.10		8.34	8.34		28.10	28.10		77.5	78.9		5.11	5.19		5.47	5.43		9	<u> </u>
17/6/2015	19:20	Cloudy	Middle	3.5	27.40	27.40	27.50	8.05	8.05	8.07	29.06	29.06	29.07	82.3	84.0	82.8	5.51	5.63	5.55	2.95	2.82	2.78	5	4.50
	19:21		Middle	3.5	27.60	27.60		8.09	8.09		29.07	29.07		82.7	82.2		5.54	5.50		2.66	2.68		4	
19/6/2015	21:46	Fine	Middle	3.5	26.90	26.90	26.80	8.16	8.16	8.17	29.11	29.11	29.11	80.6	80.0	80.4	5.47	5.44	5.47	2.79	2.81	2.76	3	3.50
	21:47 7:50		Middle	3.5	26.70	26.70		8.18	8.18	<u> </u>	29.11	29.11	<u> </u>	80.1 69.9	80.8		5.45	5.50		2.75	2.69		4	
22/6/2015	7:50	Cloudy	Middle Middle	3.0	27.20	27.20	27.20	8.41	8.41	8.41	25.52	25.52 25.75	25.64	70.1	71.2 69.9	70.3	4.81	4.89	4.83	1.98	1.99	1.99	2	3.00
	1:18		Middle	3.0	28.10	28.10		8.14	8.14	1	25.13	25.13	1	73.9	75.1		5.02	5.10		1.98	1.94		2	
25/6/2015	1:19	Cloudy	Middle	3.0	28.10	28.10	28.10	8.15	8.15	8.15	25.13	25.13	25.13	73.5	74.7	74.3	4.99	5.07	5.05	1.72	1.82	1.87	2	2.00
	0:35		Middle	3.0	28.00	28.00		8.38	8.38	<u> </u>	23.09	23.09	<u> </u>	84.6	85.9		5.84	5.92		3.59	3.62		5	<u> </u>
27/6/2015	0:36	Cloudy	Middle	3.0	28.10	28.10	28.05	8.38	8.38	8.38	23.10	23.10	23.10	85.5	85.2	85.3	5.88	5.85	5.87	3.72	3.78	3.68	5	5.00
0:36	0.50		Middle	3.0	20.10	20.10		0.50	0.50		20.10	23.10		00.0	05.2	l	3.00	5.05		3.12	3.70		,	1



#### Water Monitoring Result at WSD19 - Sheung Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	18:30	Cloudy	Middle	2.0	28.40	28.40	28.40	8.14	8.14	8.14	24.52	24.52	24.52	90.8	90.6	90.4	6.16	6.12	6.12	2.72	2.81	2.77	3	3.00
20/3/2013	18:31	Oloudy	Middle	2.0	28.40	28.40	20.40	8.14	8.14	0.14	24.51	24.51	24.52	91.2	89.0	30.4	6.16	6.02	0.12	2.76	2.79	2.11	3	3.00
30/5/2015	14:48	Fine	Middle	3.0	29.20	29.20	29.35	8.37	8.37	8.37	24.53	24.53	24.52	82.4	71.4	75.9	5.50	5.16	5.16	4.57	4.42	4.45	2	2.00
	14:50	-	Middle	3.0	29.50	29.50		8.37	8.37		24.50	24.50	-	73.6	76.2		4.91	5.08		4.41	4.40	-	2	
1/6/2015	16:25	Cloudy	Middle	3.5	27.30	27.30	27.45	8.28	8.28	8.30	27.52	27.52	27.50	60.9	60.1	59.6	4.13	4.06	4.03	4.31	4.48	4.42	5	5.50
	16:27	,	Middle	3.5	27.60	27.60	-	8.31	8.31		27.47	27.47		59.6	57.7		4.03	3.90		4.46	4.41		6	
3/6/2015	20:01	Cloudy	Middle	2.5	27.60	27.60	27.65	8.12	8.12	8.12	27.77	27.77	27.77	76.0	77.6	77.1	5.12	5.23	5.19	2.81	2.66	2.72	5	4.50
	20:02	,	Middle	2.5	27.70	27.70		8.12	8.12		27.77	27.77		77.7	77.1		5.23	5.19		2.68	2.71		4	
5/6/2015	20:55	Cloudy	Middle	2.5	27.00	27.00	27.00	8.08	8.08	8.08	28.44	28.44	28.44	76.6	77.6	76.5	5.21	5.26	5.19	3.13	3.30	3.14	2	2.00
	20:56	,	Middle	2.5	27.00	27.00		8.08	8.08		28.43	28.43		75.3	76.4		5.10	5.17		3.04	3.10		2	
8/6/2015	8:50	Fine	Middle	3.5	27.20	27.20	27.30	8.25	8.25	8.27	27.69	27.69	27.69	58.7	58.6	58.5	3.98	3.98	3.97	3.74	3.86	3.80	4	3.50
0/0/2010	8:52		Middle	3.5	27.40	27.40	21.00	8.28	8.28	0.2.	27.68	27.68	27.00	58.2	58.5	00.0	3.95	3.97	0.01	3.83	3.78	0.00	3	0.00
10/6/2015	11:28	Fine	Middle	3.0	27.90	27.90	28.05	8.18	8.18	8.20	26.72	26.72	26.71	65.1	64.8	64.0	4.39	4.36	4.31	3.22	3.24	3.29	7	6.00
	11:30		Middle	3.0	28.20	28.20		8.21	8.21		26.69	26.69		63.7	62.3		4.29	4.19		3.36	3.33		5	
12/6/2015	14:20	Fine	Middle	3.0	28.70	28.70	28.95	8.30	8.30	8.29	27.20	27.20	27.19	76.3	77.0	76.5	5.05	5.09	5.06	3.73	3.75	3.78	6	6.50
	14:22		Middle	3.0	29.20	29.20		8.28	8.28		27.18	27.18		76.0	76.7		5.02	5.07		3.82	3.82		7	
15/6/2015	18:12	Fine	Middle	3.0	28.10	28.10	28.35	8.21	8.21	8.25	28.25	28.25	28.25	66.4	65.1	65.7	4.42	4.32	4.37	4.31	4.22	4.22	3	3.00
	18:14	-	Middle	3.0	28.60	28.60		8.29	8.29		28.24	28.24		65.7	65.7		4.36	4.36	-	4.18	4.17		3	
17/6/2015	20:45	Cloudy	Middle	3.0	27.00	27.00	27.03	8.20	8.20	8.20	29.68	29.68	29.69	82.5	81.2	82.2	5.56	5.47	5.53	3.87	3.71	3.64	5	5.00
	20:46	,	Middle	3.0	27.10	27.00		8.20	8.20		29.69	29.69		82.9	82.1	-	5.58	5.52		3.48	3.51		5	
19/6/2015	22:40	Fine	Middle	3.0	27.20	27.20	27.10	8.10	8.10	8.10	29.41	29.41	29.41	81.7	82.1	81.5	5.50	5.55	5.50	3.48	3.79	3.63	3	3.00
	22:41		Middle	3.0	27.00	27.00		8.10	8.10		29.41	29.41		81.7	80.3		5.50	5.43		3.65	3.60		3	
22/6/2015	9:40	Cloudy	Middle	3.0	27.40	27.40	27.45	8.36	8.36	8.38	25.39	25.39	25.40	65.7	67.0	66.9	4.51	4.62	4.60	2.64	2.64	2.64	4	5.00
	9:42	,	Middle	3.0	27.50	27.50	-	8.40	8.40		25.40	25.40		67.4	67.3		4.64	4.64		2.62	2.64		6	
25/6/2015	0:10	Cloudy	Middle	3.0	27.80	27.80	27.80	8.26	8.26	8.27	25.10	25.10	25.10	86.2	87.0	86.4	5.89	5.94	5.90	2.17	2.09	2.11	<2	<2
	0:11	,	Middle	3.0	27.80	27.80		8.28	8.28		25.10	25.10		85.9	86.6		5.87	5.91		2.06	2.13		<2	
27/6/2015	23:45	Cloudy	Middle	3.0	28.20	28.20	28.20	8.26	8.26	8.31	23.11	23.11	23.11	87.6	88.1	87.5	6.01	6.06	6.01	4.77	4.82	4.54	4	4.00
27/6/2015 23:46	23:46	,	Middle	3.0	28.20	28.20	- =-	8.35	8.35		23.11	23.11		87.0	87.2		5.97	5.98		4.34	4.21		4	



#### Water Monitoring Result at C7 - Windsor House Mid-Ebb Tide

Date	Time	Weater Condition	·	g Depth	Wat	ter Temp	erature		pН			Salini	ty	С	O Satur	ation		DO mg/L			Turbid		Suspend	led Solids
		Condition	r	n	Va	ılue	Average	Va	lue	Average	Va	alue	Average	Va	ılue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	9:31	Fine	Middle	-	27.00	27.00	27.05	8.00	8.00	8.02	26.50	26.50	26.56	62.5	61.3	60.7	4.29	4.20	4.16	2.00	2.00	2.00	4	3.00
20/0/2010	9:33	1 1110	Middle	-	27.10	27.10	27.00	8.03	8.03	0.02	26.62	26.62	20.00	59.1	60.0	00.1	4.05	4.11	4.10	2.00	1.99	2.00	2	0.00
30/5/2015	11:30	Fine	Middle	-	28.00	28.00	28.05	8.09	8.09	8.12	25.14	25.14	25.14	65.8	69.8	68.1	4.68	4.76	4.69	2.37	2.37	2.38	4	4.00
	11:32		Middle	-	28.10	28.10		8.14	8.14		25.14	25.14		68.6	68.3		4.66	4.64		2.38	2.38		4	
1/6/2015	11:57	Cloudy	Middle	-	27.30	27.30	27.35	8.14	8.14	8.18	27.90	27.90	27.89	61.1	59.7	59.5	4.14	4.05	4.03	2.63	2.64	2.64	5	4.50
	11:59	,	Middle	-	27.40	27.40		8.21	8.21		27.87	27.87		58.3	58.8		3.95	3.99		2.64	2.64		4	
3/6/2015	14:40	Fine	Middle	-	28.20	28.20	28.20	8.15	8.15	8.15	27.94	27.94	27.89	58.7	58.8	58.7	3.92	3.93	3.92	2.70	2.70	2.69	6	6.00
	14:42		Middle	-	28.20	28.20		8.15	8.15		27.83	27.83		58.7	58.7		3.92	3.92		2.68	2.66		6	
5/6/2015	15:26	Cloudy	Middle	-	27.50	27.50	27.60	8.09	8.09	8.10	28.57	28.57	28.60	58.5	56.8	55.9	3.93	3.82	3.75	2.31	2.30	2.31	<2	<2
	15:28		Middle	-	27.70	27.70		8.10	8.10		28.63	28.63		54.7	53.5		3.67	3.58		2.30	2.31		<2	
8/6/2015	15:42	Fine	Middle	-	27.70	27.70	27.75	8.14	8.14	8.14	29.34	29.34	29.33	59.4	58.7	57.7	3.96	3.91	3.85	2.14	2.14	2.14	3	3.50
	15:44		Middle	-	27.80	27.80		8.14	8.14		29.32	29.32		57.1	55.5		3.81	3.70		2.14	2.14		4	
10/6/2015	18:52	Fine	Middle	-	28.20	28.20	28.20	8.27	8.27	8.27	27.54	27.54	27.54	59.7	61.4	60.4	4.00	4.11	4.04	30.84	31.29	<u>31.36</u>	48	<u>73.50</u>
	18:54		Middle	-	28.20	28.20		8.26	8.26		27.54	27.54		61.8	58.5		4.13	3.91		31.54	31.78		99	
12/6/2015	-	Fine	Middle	-	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	#DIV/0!
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
15/6/2015	-	Fine	Middle	-	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	-	#DIV/0!	-	#DIV/0!
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
17/6/2015	10:41	Fine	Middle	-	27.50	27.50	27.65	8.14	8.14	8.14	30.11	30.11	30.11	61.6	63.3	62.8	4.10	4.21	4.18	2.22	2.25	2.25	3	3.50
	10:43		Middle	-	27.80	27.80		8.13	8.13		30.10	30.10		63.7	62.7		4.24	4.17		2.26	2.26		4	
19/6/2015	14:39	Fine	Middle	-	28.80	28.80	29.00	8.19	8.19	8.19	28.84	28.84	28.79	65.1	64.7	63.9	4.27	4.24	4.19	2.26	2.24	2.23	5	4.00
	14:41		Middle	-	29.20	29.20		8.19	8.19		28.74	28.74		63.3	62.4		4.15	4.09		2.22	2.18		3	
22/6/2015	17:05 17:07	Fine	Middle Middle	-	27.60	27.60	27.60	8.29	8.29 8.32	8.31	25.49 25.50	25.49	25.50	72.6	72.6 70.0	71.7	4.96	4.96	4.90	1.37	1.37	1.37	4	3.50
	14:10		Middle	-	28.20	27.60		8.32	8.32		24.84	25.50		71.7	78.3		4.90 5.27	4.78 5.31		1.78	1.37		<2	<u> </u>
24/6/2015	14:12	Cloudy	Middle	-	28.30	28.30	28.25	8.26	8.26	8.27	24.84	24.84	24.84	78.5	77.9	78.1	5.27	5.28	5.30	1.76	1.77	1.87	<2	<2
	19:10		Middle		28.20	28.20		8.19	8.19		24.19	24.19		80.5	79.1		5.49	5.39		1.95	1.86		3	
26/6/2015	19:10	Cloudy	Middle	-	28.20	28.20	28.20	8.20	8.20	8.20	24.19	24.19	24.20	78.1	79.1	79.1	5.49	5.39	5.39	1.78	1.71	1.82	3	3.00
	19.11		iviidale	-	20.20	20.20		0.20	0.20		24.20	24.20		70.1	10.0		0.32	0.30		1./0	1.71		3	



# Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater	Samplir	ng Depth	Wat	er Temp	erature		рН			Salini	ty	Е	OO Satu	ration		DO			Turbid			ed Solids
Bato		Condition	r	m	Va	lue	Average	Va	lue	Average	Va	ppt ilue	Average	Va	alue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	Mg Value	g/L Average
00/5/0045	9:26	<u>-</u> .	Middle	2.5	26.80	26.80		8.64	8.64		25.50	25.50		60.2	61.3		4.18	4.26		5.30	5.36		2	
28/5/2015	9:28	Fine	Middle	2.5	26.70	26.70	26.75	8.45	8.45	8.55	25.51	25.51	25.51	60.2	58.9	60.2	4.18	4.09	4.18	5.59	5.61	5.47	<2	2.00
30/5/2015	10:35	Fine	Middle	3.0	27.90	27.90	27.95	8.41	8.41	8.41	23.89	23.89	23.89	78.3	79.2	78.9	5.37	5.43	5.41	3.23	3.23	3.24	3	3.00
30/3/2013	10:37	i iiie	Middle	3.0	28.00	28.00	21.93	8.41	8.41	0.41	23.89	23.89	25.09	79.3	78.7	70.9	5.44	5.39	3.41	3.24	3.24	3.24	<2	3.00
1/6/2015	11:16	Cloudy	Middle	2.5	27.30	27.30	27.35	8.43	8.43	8.43	27.21	27.21	27.21	67.5	68.2	67.5	4.59	4.64	4.59	3.15	3.14	3.14	4	4.00
170/2013	11:18	Cloudy	Middle	2.5	27.40	27.40	21.00	8.42	8.42	0.40	27.21	27.21	27.21	67.5	66.7	07.5	4.59	4.54	4.55	3.14	3.14	3.14	4	4.00
3/6/2015	13:56	Fine	Middle	2.5	27.80	27.80	27.80	8.21	8.21	8.21	27.19	27.19	27.19	58.4	57.9	57.4	3.95	3.91	3.88	3.13	3.05	3.05	4	4.00
0.0.2010	13:58	0	Middle	2.5	27.80	27.80	27.00	8.21	8.21	0.2	27.19	27.19	27110	57.3	56.0	0711	3.87	3.77	0.00	3.01	3.02	0.00	4	1.00
5/6/2015	14:40	Cloudy	Middle	3.0	27.40	27.40	27.50	8.14	8.14	8.15	27.78	27.78	27.89	68.2	67.9	68.0	4.61	4.60	4.60	3.69	3.82	3.75	<2	<2
0.0.2010	14:42		Middle	3.0	27.60	27.60	27.00	8.15	8.15	0.10	27.99	27.99	27.00	67.9	68.0	00.0	4.60	4.60		3.74	3.75	0.10	<2	
8/6/2015	17:01	Fine	Middle	2.5	27.40	27.40	27.45	8.34	8.34	8.34	27.83	27.83	27.83	65.9	65.1	64.8	4.46	4.40	4.39	3.73	3.70	3.59	3	4.00
	17:03		Middle	2.5	27.50	27.50		8.34	8.34		27.83	27.83		64.5	63.8		4.37	4.32		3.56	3.35		5	
10/6/2015	17:16	Fine	Middle	2.5	28.30	28.30	28.30	8.39	8.39	8.39	27.18	27.18	27.19	70.3	70.8	70.3	4.71	4.74	4.71	3.02	3.01	3.08	8	7.50
	17:18		Middle	2.5	28.30	28.30		8.38	8.38		27.19	27.19		70.6	69.5		4.72	4.65		3.13	3.16		7	
12/6/2015	10:17	Fine	Middle	2.5	27.60	27.60	27.55	8.24	8.24	8.24	26.99	27.05	27.01	76.3	76.9	75.1	5.18	5.21	5.10	5.53	5.57	5.68	3	3.50
	10:19		Middle	2.5	27.50	27.50		8.23	8.23		27.00	27.01		74.7	72.6		5.09	4.93		5.79	5.81		4	
15/6/2015	11:20	Fine	Middle	2.5	27.10	27.10	27.20	8.30	8.30	8.30	27.86	27.86	27.86	73.5	74.7	73.9	4.99	5.07	5.02	2.74	2.75	2.74	3	3.00
	11:22		Middle	2.5	27.30	27.30		8.30	8.30		27.85	27.85		73.2	74.1		4.97	5.03		2.74	2.74		3	
17/6/2015	14:35	Fine	Middle	2.5	27.90	27.90	27.95	8.30	8.30	8.30	28.38	28.38	28.38	73.9	74.1	74.4	4.94	4.96	4.98	2.71	2.65	2.66	3	3.50
	14:37		Middle	2.5	28.00	28.00		8.30	8.30		28.38	28.38		74.9	74.7		5.01	4.99		2.64	2.64		4	<u> </u>
19/6/2015	13:43	Fine	Middle	2.5	28.20	28.20	28.25	8.33	8.33	8.33	28.13	28.13	28.12	70.5	70.7	70.5	4.70	4.71	4.70	3.13	3.08	2.94	3	2.50
	13:45		Middle	2.5	28.30	28.30		8.32	8.32		28.11	28.11		70.8	70.0		4.72	4.66		2.74	2.81		2	<u> </u>
22/6/2015	16:16	Fine	Middle	2.5	28.20	28.20	28.20	8.58	8.58	8.58	24.49	24.49	24.49	79.1	78.2	78.2	5.39	5.32	5.32	2.03	2.01	2.02	3	3.50
	16:18		Middle	2.5	28.20	28.20		8.58	8.58		24.49	24.49		78.0	77.3		5.31	5.26		2.01	2.01		4	
24/6/2015	17:16	Cloudy	Middle	2.5	28.60	28.60	28.60	8.49	8.49	8.49	25.01	25.01	25.02	74.1	74.1	72.8	4.99	5.00	4.91	1.53	1.54	1.53	<2	<2
	17:18		Middle	2.5	28.60	28.60		8.48	8.48		25.03	25.03		73.0	70.0		4.92	4.71		1.52	1.52		<2	
26/6/2015	18:01	Cloudy	Middle	3.0	29.30	29.30	29.35	8.42	8.42	8.42	24.74	24.74	24.74	88.0	87.2	86.1	5.87	5.82	5.76	2.53	2.84	2.74	5	5.00
18:03		Middle	3.0	29.40	29.40		8.41	8.41		24.74	24.74		86.2	83.0		5.72	5.64		2.78	2.81		5		



#### Water Monitoring Result at P1 - HKCEC Phase I Mid-Ebb Tide

The column   The	Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	perature		рН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid NTU			led Solids
2009/2015   1002   Fine   Middle   2.5   27.0   2			Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ppt alue	Average	Va	lue	Average	Va		Average	Va				Average
1002   Middle   2.5   27.00   22.0   22.0   23.0   24.5   25.0   24.00   24.	29/5/2015	10:00	Eino	Middle	2.5	27.00	27.00	27.10	8.29	8.29	0 27	25.01	25.01	25.00	66.7	67.2	66.0	4.62	4.64	4.62	2.10	2.09	2.09	<2	<2
1002015   1012   Fire   Middle   3.0   28.60   28.00	20/3/2013	10:02	i iiie	Middle	2.5	27.20	27.20	27.10	8.25	8.25	0.27	24.99	24.99	25.00	67.1	66.6	00.9	4.64	4.61	4.03	2.07	2.06	2.00	<2	
1012   Model   2.5   27.50	30/5/2015	10:10	Fine	Middle	3.0	28.30	28.30	28.45	8.35	8.35	8.37	24.08	24.08	24.08	81.4	82.9	82.2	5.53	5.63	5.58	3.87	3.94	4.01	3	3.00
1/10/2015   1/10		10:12		Middle	3.0	28.60	28.60		8.38	8.38		24.08	24.08		82.5	81.8		5.60	5.55		4.11	4.11		3	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1/6/2015	11:00	Cloudy	Middle	2.5	27.50	27.50	27.55	8.34	8.34	8.37	27.18	27.17	27.17	61.9	59.8	59.3	4.19	4.05	4.01	3.71	3.67	3.66	3	3.50
360015   1342   Fire   Middle   2.5   28.80   28.80   8.80   8.20   8.20   8.20   28.00   28		11:02		Middle	2.5	27.60	27.60		8.39	8.39		27.16	27.16		58.2	57.2		3.94	3.87		3.65	3.59		4	
Self-2015   14:20   Cloudy   Middle   3.0   28:50	3/6/2015	13:40	Fine	Middle	2.5	28.50	28.50	28.65	8.23	8.23	8.22	28.02	28.02	28.02	54.0	54.2	54.1	3.57	3.59	3.58	3.23	3.14	3.16	4	4.00
Signature   Sign		13:42		Middle	2.5	28.80	28.80		8.20	8.20		28.02	28.02		54.0	54.1		3.57	3.58		3.14	3.14		4	
16.45   Fine   Middle   2.5   27.80   27.80   27.85   8.24   8.24   8.24   8.27   28.10   28.12   66.6   67.4   66.9   4.47   4.52   4.49   3.38   3.37   3.34   4   4.10   4.1	5/6/2015	14:20	Cloudy	Middle	3.0	28.50	28.50	28.85	8.21	8.21	8.18	24.42	24.42	24.46	69.4	68.2	68.4	4.62	4.55	4.55	1.49	1.72	1.70	<2	2.00
R6/2015   Fine   Middle   2.5   27.90   27.90   27.80   8.30   8.30   8.27   28.08   28.08   28.12   66.6   67.4   66.9   4.47   4.52   4.49   3.37   3.34   3.37   4.4   4.52   4.49   4.60   3.28   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.49   4.60   3.24   3.25   3.25   4.4   4.52   4.40   4.60   4.40		14:22		Middle	3.0	29.20	29.20		8.15	8.15		24.50	24.50		67.5	68.3		4.49	4.55		1.80	1.80		2	
10/6/2015   17/00   Fine   Middle   2.5   28.30   28.30   28.35   8.39   8.40   26.96   26.96   26.95   66.7   65.4   67.4   4.83   4.69   4.60   3.28   3.25   3.25   4   4.83   4.69   4.70   3.28   3.25   4   4.83   4.69   4.70   3.28   3.25   4   4.70   4.7	8/6/2015	16:45	Fine	Middle	2.5	27.80	27.80	27.85	8.24	8.24	8.27	28.17	28.16	28.12	67.1	66.4	66.9	4.51	4.45	4.49	3.38	3.37	3.37	4	4.00
10/6/2015   17:02   Fine   Middle   2.5   28.40   28.45   8.40   8.40   8.40   26.93   28.95   66.7   65.4   67.4   4.47   4.39   4.60   3.24   3.23   3.25   4   4.20		16:47		Middle	2.5	27.90	27.90		8.30	8.30		28.08	28.08		66.6	67.4		4.47	4.52		3.37	3.34		4	
12/6/2015   10.40   Fine   Middle   2.5   27.80   27	10/6/2015	17:00	Fine	Middle	2.5	28.30	28.30	28.35	8.39	8.39	8.40	26.96	26.96	26.95	69.0	68.4	67.4	4.83	4.69	4.60	3.28	3.25	3.25	4	4.00
12/6/2015   Tine   Middle   2.5   27.90   27.90   27.85   8.21   8.21   8.22   26.69   26.89   26.89   69.8   4.66   4.61   4.72   2.21   2.19   2.22   4   4.84		17:02		Middle	2.5	28.40	28.40		8.40	8.40		26.93	26.93		66.7	65.4		4.47	4.39		3.24	3.23		4	
11:00   Fine   Middle   2.5   27.70   27.70   27.80   8.26   8.26   8.28   27.72   2	12/6/2015	10:40	Fine	Middle	2.5	27.80	27.80	27.85	8.22	8.22	8.22	26.70	26.70	26.70	71.2	70.6	69.8	4.82	4.78	4.72	2.20	2.27	2.22	4	4.00
15/6/2015   Tine   Middle   2.5   27.90   27.80   27.80   8.29   8.29   8.28   27.72   27.72   74.6   75.6   75.2   5.02   5.09   5.06   2.64   2.70   2.68   3   3   3   3   3   3   3   3   3		10:42		Middle	2.5	27.90	27.90		8.21	8.21		26.69	26.69		69.0	68.2		4.66	4.61		2.21	2.19		4	
14:15   Fine   Middle   2.5   28.90   28.90   29.10   8.26   8.26   8.26   29.25   2	15/6/2015		Fine		2.5	27.70	27.70	27.80	8.26		8.28			27.72	75.5		75.2	5.08		5.06		2.64	2.68		3.00
17/6/2015   14:17   Fine   Middle   2.5   29.30   29.30   29.30   29.10   8.26   8.26   8.26   29.25   29.25   77.0   77.0   77.5   5.02   5.01   5.05   3.18   3.18   9   9.		1					 					l 			l 						l 				
19/6/2015 Fine Middle 2.5 29.90 30.00 Middle 2.5 31.10 31.10 30.53 8.30 8.30 8.30 8.30 8.30 8.30 8.30 8.3	17/6/2015		Fine					29.10			8.26			29.25			77.5			5.05			3.18		9.00
19/6/2015 Fine Middle 2.5 31.10 31.10 30.53 8.30 8.30 8.30 8.30 8.30 8.30 8.30 8.3										l I											<u> </u>				
22/6/2015 Fine Middle 2.5 28.70 28.70 28.70 28.75 8.52 8.52 8.59 8.59 8.59 8.50 24.16 24.16 24.15 76.4 74.0 75.5 5.08 5.25 5.16 2.25 2.35 2.36 2.37 3 3 3 24/6/2015 77.00 Cloudy Middle 2.5 28.90 28.90 28.90 28.80 8.41 8.41 8.43 8.43 24.94 24.94 24.94 24.94 25.01 72.8 72.4 73.6 73.6 73.6 73.6 73.6 73.6 73.6 73.6	19/6/2015		Fine					30.53			8.30			28.06			65.4			4.23			2.72		2.00
22/6/2015 Fine Middle 2.5 28.80 28.80 28.80 28.75 8.59 8.59 8.56 24.13 24.13 24.13 75.5 76.4 74.0 75.0 76.4 74.0 75.0 76.4 74.0 75.0 76.4 74.0 75.0 76.4 74.0 75.0 76.4 76.0 76.0 76.0 76.0 76.0 76.0 76.0 76.0																									
24/6/2015 Tr.02 Cloudy Middle 2.5 28.70 28.70 28.80 8.41 8.41 8.43 25.08 25.08 25.01 72.8 72.4 73.6 5.04 4.97 4.94 2.29 2.29 2.37 <2	22/6/2015		Fine					28.75			8.56			24.15			75.5			5.16			2.33		3.50
24/6/2015 Cloudy Middle 2.5 28.90 28.90 8.44 8.44 8.44 24.94 25.01 72.8 72.4 73.6 4.88 4.86 4.94 2.41 2.47 < <		1				<u> </u>																<u> </u>			
	24/6/2015		Cloudy					28.80			8.43			25.01			73.6			4.94			2.37		<2
		17:45		Middle	3.0	29.40	29.40		8.33	8.33		25.22	25.22		92.1	90.2		6.10	5.97		3.15	3.14		4	$\vdash$
	26/6/2015		Cloudy					29.60			8.33			25.22			89.6			5.93			3.14		4.50



# Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater	Samplir	ng Depth	Wat	er Temp	erature		рН			Salinit	у	Е	OO Satu	ration		DO			Turbid			led Solids
Date		Condition	r	m	Va	llue	Average	Va	lue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	Mg Value	g/L Average
00/5/0045	9:51	<u>-</u> .	Middle	2.5	26.90	26.90		8.30	8.30		24.94	24.94	-	67.4	66.4		4.68	4.60		1.68	1.63		<2	
28/5/2015	9:53	Fine	Middle	2.5	26.90	26.90	26.90	8.26	8.26	8.28	24.79	24.79	24.87	64.0	62.8	65.2	4.44	4.36	4.52	1.58	1.57	1.62	<2	<2
30/5/2015	10:15	Fine	Middle	3.0	28.00	28.00	28.05	8.42	8.42	8.43	24.65	24.65	24.65	80.7	80.7	80.5	5.53	5.53	5.52	3.99	3.97	3.96	3	2.50
30/3/2013	10:17	Tille	Middle	3.0	28.10	28.10	20.03	8.44	8.44	0.40	24.65	24.65	24.00	80.5	80.0	00.0	5.52	5.48	3.32	3.89	3.99	3.30	2	2.30
1/6/2015	11:04	Cloudy	Middle	2.5	27.30	27.30	27.30	8.43	8.43	8.44	27.03	27.03	27.02	70.9	70.2	70.1	4.83	4.78	4.77	3.76	3.73	3.77	3	3.50
	11:06		Middle	2.5	27.30	27.30		8.44	8.44		27.00	27.00		70.0	69.1		4.77	4.71		3.77	3.80		4	
3/6/2015	13:44	Fine	Middle	2.5	27.90	27.90	28.00	8.20	8.20	8.19	27.65	27.65	27.64	55.1	54.7	54.3	3.70	3.67	3.64	2.33	2.32	2.34	3	3.00
	13:46		Middle	2.5	28.10	28.10		8.18	8.18		27.63	27.63		54.3	53.1		3.64	3.56		2.36	2.36		3	
5/6/2015	14:25	Cloudy	Middle	3.0	27.70	27.70	27.85	8.16	8.16	8.16	28.06	28.06	28.06	68.1	68.1	68.3	4.57	4.56	4.57	1.65	1.69	1.69	<2	<2
	14:27		Middle	3.0	28.00	28.00		8.15	8.15		28.06	28.06		69.0	67.8		4.60	4.53		1.70	1.70		<2	
8/6/2015	16:49	Fine	Middle	2.5	27.40	27.40	27.50	8.32	8.32	8.32	27.98	27.98	27.95	67.5	68.8	67.8	4.56	4.65	4.59	3.28	3.36	3.40	3	3.50
	16:51		Middle	2.5	27.60	27.60		8.32	8.32		27.91	27.91		68.1	66.8		4.61	4.52		3.50	3.46		4	
10/6/2015	17:04	Fine	Middle	2.5	27.90	27.90	27.90	8.41	8.41	8.41	26.96	26.96	26.94	66.4	67.3	66.7	4.48	4.54	4.50	2.94	2.95	3.01	4	4.50
	17:06		Middle	2.5	27.90	27.90		8.41	8.41		26.92	26.92		66.0	67.2	1	4.45	4.53		3.13	3.01		5	
12/6/2015	10:50	Fine	Middle	2.5	27.70	27.70	27.80	8.22	8.22	8.22	28.25	28.25	28.26	76.3	75.2	74.4	5.13	5.09	5.03	1.96	1.96	1.99	4	3.50
	10:52		Middle	2.5	27.90	27.90		8.21	8.21		28.26	28.26		73.8	72.1		5.00	4.88		2.02	2.03		3	
15/6/2015	11:05	Fine	Middle	2.5	27.20	27.20	27.25	8.31	8.31	8.31	27.61	27.61	27.61	75.3	75.8	75.5	5.12	5.15	5.13	2.14	2.08	2.07	2	3.00
	11:07		Middle	2.5	27.30	27.30		8.31	8.31		27.60	27.60		75.9	75.1		5.16	5.10		2.03	2.02		4	
17/6/2015	14:20	Fine	Middle Middle	2.5	28.20	28.20	28.30	8.28	8.28	8.29	28.85	28.85	28.85	77.5	78.7	77.8	5.14	5.22	5.16	2.34	2.31	2.31	4	4.00
	14:22		Middle	2.5	28.40	28.40		8.29	8.29 8.32		28.84	28.84		78.0 68.6	77.1 69.0		5.17 4.54	5.11 4.57		2.29	2.28		4 <2	
19/6/2015	13:35	Fine	Middle	2.5	28.80	28.80	28.70	8.33	8.33	8.33	28.00	28.00	28.04	71.2	71.2	70.0	4.70	4.70	4.63	2.03	1.99	2.05	<2	<2
	16:04		Middle	2.5	28.30	28.30		8.61	8.61		24.19	24.19		89.2	88.3		6.02	5.97		1.81	1.84		3	
22/6/2015	16:06	Fine	Middle	2.5	28.80	28.80	28.55	8.59	8.59	8.60	24.30	24.30	24.25	87.4	86.2	87.8	5.90	5.82	5.93	1.86	1.87	1.85	3	3.00
	17:04		Middle	2.5	28.60	28.60		8.47	8.47		24.68	24.68		75.1	73.5		5.10	4.99		1.70	1.53		<2	
24/6/2015	17:06	Cloudy	Middle	2.5	28.20	28.20	28.40	8.50	8.50	8.49	24.84	24.84	24.76	72.0	70.9	72.9	4.89	4.82	4.95	1.52	1.52	1.57	<2	<2
	17:49		Middle	3.0	29.20	29.20		8.36	8.36		24.82	24.82		90.0	88.9		6.00	5.93		3.37	3.35		5	
26/6/2015	17:51	Cloudy	Middle	3.0	29.40	29.40	29.30	8.39	8.39	8.38	24.82	24.82	24.82	83.4	88.8	87.8	5.66	5.92	5.88	3.32	3.28	3.33	5	5.00



# Water Monitoring Result at P4 - SOC Mid-Ebb Tide

Date	Time	Weater Condition	Samplir	g Depth	Wat	er Temp	perature		рН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	g/L Average
28/5/2015	9:41	Fine	Middle	2.5	26.90	26.90	26.95	8.33	8.33	8.32	25.17	25.18	25.17	65.2	64.5	63.8	4.62	4.47	4.45	1.96	2.00	2.01	<2	2.00
26/3/2013	9:43	rille	Middle	2.5	27.00	27.00	20.95	8.31	8.31	0.32	25.16	25.16	25.17	63.2	62.1	03.0	4.40	4.31	4.45	2.04	2.05	2.01	2	2.00
30/5/2015	10:23	Fine	Middle	3.0	27.90	27.90	27.95	8.43	8.43	8.43	23.78	23.78	23.78	79.6	80.3	79.9	5.46	5.51	5.48	4.33	4.32	4.32	2	2.00
00/0/2010	10:25	0	Middle	3.0	28.00	28.00	21.00	8.43	8.43	0.10	23.78	23.78	20.70	79.7	80.1	7 0.0	5.46	5.49	0.10	4.32	4.30	1.02	2	2.00
1/6/2015	11:08	Cloudy	Middle	2.5	27.30	27.30	27.35	8.45	8.45	8.45	26.96	26.96	26.96	72.6	72.4	71.9	4.95	4.93	4.90	3.94	3.88	3.88	3	3.00
	11:10		Middle	2.5	27.40	27.40		8.45	8.45		26.96	26.96		71.4	71.1		4.87	4.85		3.87	3.84		3	
3/6/2015	13:48	Fine	Middle	2.5	27.80	27.80	27.85	8.21	8.21	8.21	27.43	27.43	27.42	56.8	57.0	56.9	3.83	3.84	3.83	2.28	2.28	2.28	3	3.00
	13:50		Middle	2.5	27.90	27.90		8.21	8.21		27.41	27.41		57.0	56.8		3.84	3.82		2.27	2.27		3	
5/6/2015	14:30	Cloudy	Middle	3.0	27.50	27.50	27.60	8.15	8.15	8.16	28.09	28.09	28.09	68.6	69.2	68.8	4.62	4.67	4.64	1.95	1.98	1.89	<2	<2
	14:32	,	Middle	3.0	27.70	27.70		8.16	8.16		28.09	28.09		69.5	68.0		4.69	4.58		1.87	1.76		<2	
8/6/2015	16:53	Fine	Middle	2.5	27.20	27.20	27.25	8.33	8.33	8.33	27.88	27.88	27.88	67.9	67.0	67.4	4.61	4.54	4.57	3.32	3.28	3.26	3	3.50
	16:55		Middle	2.5	27.30	27.30		8.33	8.33		27.87	27.87		67.6	66.9		4.58	4.54		3.23	3.20		4	
10/6/2015	17:08	Fine	Middle	2.5	27.80	27.80	27.85	8.41	8.41	8.41	26.90	26.90	26.90	57.9	62.6	61.4	3.91	4.22	4.15	2.99	3.04	2.98	5	5.00
	17:10		Middle	2.5	27.90	27.90		8.41	8.41		26.89	26.89		61.6	63.5		4.16	4.29		2.74	3.14		5	
12/6/2015	10:30	Fine	Middle	2.5	27.80	27.80	27.85	8.27	8.27	8.26	26.93	26.92	26.85	74.1	72.9	72.1	5.06	4.97	4.91	1.82	1.82	1.89	4	4.00
	10:32		Middle	2.5	27.90	27.90		8.24	8.24		26.78	26.78		71.4	70.1		4.87	4.74		1.95	1.96		4	
15/6/2015	11:10	Fine	Middle	2.5	27.10	27.10	27.15	8.31	8.31	8.31	27.61	27.61	27.58	74.7	74.4	75.1	5.09	5.07	5.11	2.37	2.37	2.37	3	3.50
	11:12		Middle	2.5	27.20	27.20		8.31	8.31		27.54	27.54		75.8	75.4		5.16	5.13		2.37	2.38		4	
17/6/2015	14:25	Fine	Middle	2.5	28.10	28.10	28.15	8.29	8.29	8.29	28.63	28.63	28.63	76.2	77.3	77.0	5.08	5.13	5.12	2.43	2.38	2.35	4	3.00
	14:27		Middle	2.5	28.20	28.20		8.29	8.29		28.63	28.63		77.7	76.6		5.17	5.11		2.30	2.28		2	
19/6/2015	13:36	Fine	Middle	2.5	28.50	28.50	28.55	8.34	8.34	8.34	27.89	27.89	27.89	70.9	70.0	68.7	4.71	4.64	4.56	2.00	1.86	1.93	<2	<2
	13:38		Middle	2.5	28.60	28.60		8.34	8.34		27.88	27.88		67.6	66.4		4.49	4.41		1.86	1.99		<2	
22/6/2015	16:08	Fine	Middle	2.5	28.40	28.40	28.40	8.59	8.59	8.59	24.36	24.36	24.35	84.2	82.5	82.9	5.72	5.60	5.63	1.67	1.66	1.61	3	3.00
	16:10 17:08		Middle Middle	2.5	28.40	28.40		8.58 8.51	8.58 8.51		24.34	24.34		82.4 74.3	73.4		5.59	5.59 5.01		1.56	1.54		3 <2	
24/6/2015	17:10	Cloudy	Middle	2.5	27.90	27.90	27.90	8.51	8.51	8.51	24.74	24.74	24.74	72.0	71.3	72.8	4.91	4.87	4.97	1.13	1.13	1.10	<2	<2
	17:53		Middle	3.0	29.20	29.20		8.40	8.40		24.74	24.74		89.7	91.1		5.99	6.08		3.14	3.21		4	$\vdash$
26/6/2015	17:55	Cloudy	Middle	3.0	29.30	29.30	29.25	8.40	8.40	8.40	24.75	24.74	24.75	89.1	87.4	89.3	5.94	5.83	5.96	3.23	3.22	3.20	5	4.50
	17.55		Wilduic	0.0	20.00	20.00		5.70	0.70		27.73	24.73		00.1	07.7		5.54	5.05		0.20	5.22		3	



#### Water Monitoring Result at P5 - WCT / RT / IT Mid-Ebb Tide

Date	Time	Weater Condition	·	g Depth	Wat	ter Temp	erature		pН			Salini	ty	С	O Satur	ation		DO mg/L			Turbid	ity	Suspend	ded Solids
		Condition	r	n	Va	ılue	Average	Va	lue	Average	Va	alue	Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/5/2015	9:33	Fine	Middle	2.5	26.90	26.90	26.95	8.36	8.36	8.36	25.51	25.51	25.47	62.2	60.3	60.1	4.30	4.17	4.15	2.82	2.81	2.77	3	3.50
20/0/2010	9:35	1 1110	Middle	2.5	27.00	27.00	20.00	8.35	8.35	0.00	25.42	25.42	20.41	58.5	59.2	00.1	4.04	4.09	4.10	2.75	2.71	2.77	4	0.00
30/5/2015	10:30	Fine	Middle	3.0	27.80	27.80	27.85	8.43	8.43	8.43	23.81	23.81	23.81	80.9	80.1	81.0	5.56	5.51	5.57	3.59	3.99	3.89	2	2.00
	10:32		Middle	3.0	27.90	27.90		8.42	8.42		23.81	23.81		81.5	81.6		5.60	5.61		3.99	4.00		2	
1/6/2015	11:12	Cloudy	Middle	2.5	27.10	27.10	27.15	8.45	8.45	8.45	27.10	27.10	27.10	70.3	70.4	69.8	4.80	4.80	4.76	3.76	3.56	3.59	5	5.00
	11:14	,	Middle	2.5	27.20	27.20		8.45	8.45		27.09	27.09		69.2	69.3		4.72	4.73		3.53	3.52		5	
3/6/2015	13:52	Fine	Middle	2.5	27.80	27.80	27.85	8.22	8.22	8.22	27.23	27.23	27.23	57.0	55.6	55.3	3.84	3.75	3.73	2.57	2.55	2.57	3	3.00
	13:54		Middle	2.5	27.90	27.90		8.22	8.22		27.23	27.23		54.6	53.8		3.68	3.63		2.54	2.62		3	
5/6/2015	14:35	Cloudy	Middle	3.0	27.30	27.30	27.40	8.14	8.14	8.15	28.06	28.06	28.06	68.5	69.3	68.8	4.64	4.69	4.65	2.27	2.31	2.31	<2	2.00
	14:37		Middle	3.0	27.50	27.50		8.15	8.15		28.06	28.06		69.1	68.3		4.67	4.61		2.31	2.35		2	
8/6/2015	16:57	Fine	Middle	2.5	27.40	27.40	27.40	8.34	8.34	8.35	27.82	27.82	27.83	68.6	69.4	68.9	4.55	4.70	4.65	2.72	2.73	2.73	4	4.00
	16:59		Middle	2.5	27.40	27.40		8.35	8.35		27.82	27.85		69.0	68.7		4.69	4.65		2.74	2.74		4	
10/6/2015	17:12	Fine	Middle	2.5	28.10	28.10	28.15	8.40	8.40	8.40	27.09	27.09	27.11	71.2	71.4	69.8	4.81	4.80	4.70	3.49	3.47	3.34	6	6.00
	17:14		Middle	2.5	28.20	28.20		8.40	8.40		27.12	27.12		68.0	68.7		4.56	4.61		3.27	3.14		6	
12/6/2015	10:22	Fine	Middle	2.5	28.20	28.20	28.30	8.24	8.24	8.24	26.87	26.87	26.86	72.6	69.7	68.8	4.87	4.67	4.66	2.77	2.77	2.80	5	4.50
	10:24		Middle	2.5	28.40	28.40		8.23	8.23		26.81	26.89		67.2	65.5		4.68	4.41		2.81	2.83		4	<u> </u>
15/6/2015	11:15	Fine	Middle	2.5	27.00	27.00	27.05	8.31	8.31	8.31	27.69	27.69	27.69	73.1	74.2	73.7	4.99	5.05	5.02	2.50	2.64	2.61	2	2.00
	11:17		Middle	2.5	27.10	27.10		8.31	8.31		27.69	27.69		74.0	73.3		5.04	4.99		2.65	2.65		2	
17/6/2015	14:30	Fine	Middle	2.5	27.80	27.80	27.90	8.30	8.30	8.30	28.63	28.63	28.58	76.2	77.8	77.1	5.10	5.20	5.14	2.64	2.51	2.53	4	4.50
	14:32		Middle	2.5	28.00	28.00		8.30	8.30		28.52	28.52		77.5	77.0		5.13	5.14		2.46	2.49		5	
19/6/2015	13:39	Fine	Middle	2.5	28.20	28.20	28.25	8.34	8.34	8.34	27.98	27.98	27.97	78.4	78.1	77.1	5.23	5.21	5.14	2.43	2.44	2.44	2	2.50
	13:41		Middle	2.5	28.30	28.30		8.33	8.33		27.96	27.96		76.6	75.3		5.11	5.02		2.47	2.42		3	
22/6/2015	16:12	Fine	Middle Middle	2.5	28.20	28.20	28.20	8.58	8.58 8.59	8.59	24.47	24.47	24.47	82.2	85.5 85.9	84.6	5.59	5.82	5.76	1.55	1.53	1.53	4	4.00
	17:12		Middle	2.5	28.20	28.20		8.50	8.50		24.47	24.47		64.6	63.7		4.38	4.32		1.36	1.52		<2	
24/6/2015	17:14	Cloudy	Middle	2.5	28.20	28.20	28.20	8.50	8.50	8.50	24.95	24.95	24.94	60.0	60.2	62.1	4.07	4.09	4.22	1.51	1.64	1.50	<2	<2
	17:57		Middle	3.0	29.00	29.00		8.42	8.42		24.59	24.59		90.4	88.6		6.06	5.94		3.00	3.00		4	
26/6/2015	17:59	Cloudy	Middle	3.0	29.10	29.10	29.05	8.44	8.44	8.43	24.58	24.58	24.59	85.7	89.0	88.4	5.74	5.87	5.90	3.00	3.00	3.00	5	4.50
	17.59		iviluale	3.0	23.10	23.10		5.44	0.44		24.50	24.50		00.7	05.0		3.74	3.01		3.00	3.00		J	



#### Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre Mid-Ebb Tide

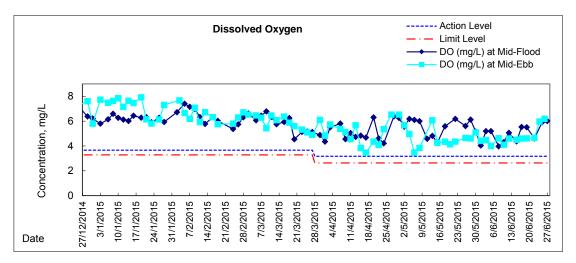
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ppt alue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Mg Value	Average
00/5/0045	9:05	Fine	Middle	3.0	26.50	26.50	00.00	8.16	8.16	0.40	25.82	25.82	05.00	67.0	65.6	05.0	4.63	4.55	4.50	2.50	2.51	0.54	<2	
28/5/2015	9:07	Fine	Middle	3.0	26.70	26.70	26.60	8.16	8.16	8.16	25.83	25.83	25.83	64.8	66.0	65.9	4.56	4.57	4.58	2.51	2.51	2.51	<2	<u>≤2</u>
30/5/2015	11:00	Fine	Middle	3.5	28.00	28.00	28.05	8.26	8.26	8.27	25.14	25.14	25.15	77.3.	74.9	75.4	5.26	5.09	5.16	2.98	2.88	2.90	2	2.50
30/3/2013	11:02	rille	Middle	3.5	28.10	28.10	26.05	8.27	8.27	0.21	25.15	25.15	25.15	75.9	75.4	75.4	5.16	5.12	5.10	2.88	2.87	2.90	3	2.50
1/6/2015	11:31	Cloudy	Middle	3.5	27.10	27.10	27.15	8.37	8.37	8.37	27.83	27.83	27.83	64.0	63.8	63.0	4.35	4.33	4.28	3.87	3.87	3.90	6	5.00
170/2013	11:33	Cloudy	Middle	3.5	27.20	27.20	27.13	8.37	8.37	0.57	27.82	27.82	27.03	62.6	61.5	05.0	4.26	4.18	4.20	3.92	3.95	3.90	4	3.00
3/6/2015	14:10	Fine	Middle	3.5	27.40	27.40	27.45	8.20	8.20	8.21	27.41	27.41	27.38	56.1	54.6	54.4	3.80	3.70	3.69	2.32	2.31	2.32	4	4.00
3/0/2013	14:12	Tille	Middle	3.5	27.50	27.50	21.40	8.21	8.21	0.21	27.35	27.35	27.00	53.8	53.2	34.4	3.66	3.61	3.03	2.31	2.32	2.02	4	4.00
5/6/2015	14:58	Cloudy	Middle	3.5	27.10	27.10	27.20	8.15	8.15	8.15	28.97	28.97	28.92	61.2	62.0	61.2	4.14	4.18	4.13	2.38	2.36	2.38	<2	2.00
0/0/2010	15:00	Oloudy	Middle	3.5	27.30	27.30	27.20	8.15	8.15	0.10	28.87	28.87	20.02	61.1	60.3	01.2	4.12	4.07	4.10	2.36	2.42	2.00	2	2.00
8/6/2015	15:20	Fine	Middle	3.5	27.50	27.50	27.55	8.34	8.34	8.31	29.18	29.18	29.13	64.6	64.2	64.1	4.34	4.31	4.30	3.04	3.00	3.10	4	3.50
3,3,2010	15:22		Middle	3.5	27.60	27.60	27.00	8.27	8.27	0.01	29.08	29.07	20.10	64.4	63.1	0	4.32	4.23	1.00	3.19	3.15	5.10	3	0.00
10/6/2015	17:31	Fine	Middle	3.5	27.50	27.50	27.55	8.36	8.36	8.37	27.71	27.71	27.71	62.5	63.2	63.0	4.22	4.27	4.26	2.69	2.70	2.71	8	7.50
	17:33		Middle	3.5	27.60	27.60		8.37	8.37		27.71	27.71		63.3	63.0		4.28	4.26		2.72	2.73		7	
12/6/2015	8:55	Fine	Middle	3.0	27.10	27.10	27.15	8.26	8.26	8.28	26.23	26.23	26.23	69.5	70.1	70.1	4.77	4.81	4.81	3.64	3.80	3.78	3	3.00
	8:57	_	Middle	3.0	27.20	27.20		8.29	8.29		26.23	26.23		70.6	70.0		4.84	4.80		3.87	3.80		3	
15/6/2015	14:05	Fine	Middle	3.0	28.80	28.80	29.05	8.30	8.30	8.31	28.01	28.01	28.01	80.4	80.2	80.0	5.29	5.27	5.26	3.27	3.24	3.20	4	4.00
	14:07		Middle	3.0	29.30	29.30		8.31	8.31		28.01	28.01		79.3	80.2		5.20	5.27		3.14	3.14		4	
17/6/2015	10:07	Fine	Middle	3.5	26.80	26.80	26.85	8.20	8.20	8.20	30.45	30.45	30.45	62.3	63.3	63.2	4.20	4.26	4.26	2.16	2.15	2.15	3	2.50
	10:09		Middle	3.5	26.90	26.90		8.20	8.20		30.45	30.45		63.5	63.8		4.27	4.29		2.14	2.14		2	
19/6/2015	13:56	Fine	Middle	2.5	27.80	27.80	27.95	8.27	8.27	8.28	28.96	28.96	28.91	65.5	65.0	64.6	4.37	4.36	4.31	2.30	2.27	2.27	3	2.50
	13:58		Middle	2.5	28.10	28.10		8.28	8.28		28.85	28.85		64.4	63.3		4.29	4.20		2.27	2.24		2	
22/6/2015	16:35	Fine	Middle	3.5	28.10	28.10	28.15	8.53	8.53	8.54	25.00	25.00	24.99	77.2	75.5	75.5	5.24	5.13	5.13	2.07	2.05	2.13	3	3.50
	16:37		Middle	3.5	28.20	28.20		8.54	8.54		24.97	24.97		74.6	74.7		5.07	5.07		2.13	2.25		4	
24/6/2015	13:35	Cloudy	Middle	3.0	28.20	28.20	28.30	8.32	8.32	8.33	25.64	25.64	25.64	78.8	78.4	78.8	5.32	5.29	5.32	2.50	2.63	2.60	2	2.00
	13:37	,	Middle	3.0	28.40	28.40		8.33	8.33		25.63	25.63		78.5	79.3		5.30	5.35		2.64	2.64		2	
26/6/2015	19:58	Cloudy	Middle	3.0	28.20	28.20	28.20	8.24	8.24	8.26	24.35	24.35	24.35	91.2	92.1	90.9	6.22	6.26	6.19	4.01	3.92	3.90	6	5.50
	19:59	•	Middle	3.0	28.20	28.20		8.27	8.27		24.35	24.35		90.4	90.0		6.14	6.12		3.84	3.81		5	

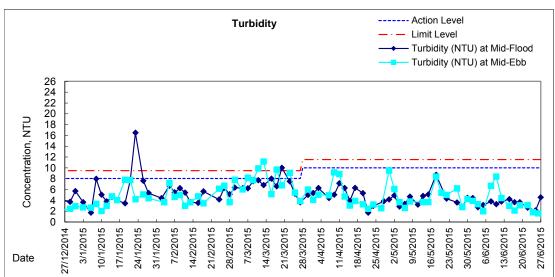


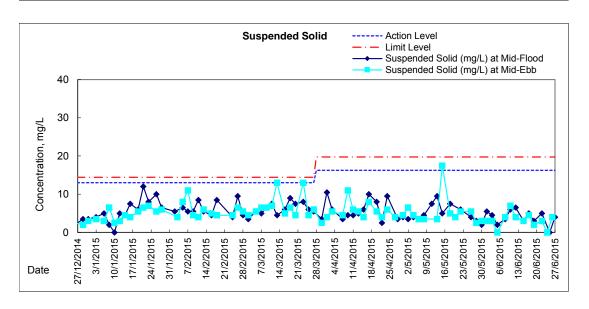
#### Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	lue	Average	Va		Average	Va	alue	Average		g/L Average
28/5/2015	8:15	Fine	Middle	3.0	27.20	27.20	27.25	8.09	8.09	8.10	25.00	25.00	25.00	67.3	67.1	66.9	4.63	4.62	4.61	2.75	2.75	2.75	3	2.50
26/3/2013	8:17	rille	Middle	3.0	27.30	27.30	21.25	8.11	8.11	6.10	25.00	25.00	25.00	66.3	66.8	00.9	4.57	4.60	4.01	2.75	2.76	2.75	2	2.50
30/5/2015	9:25	Fine	Middle	3.5	28.10	28.10	28.20	8.26	8.26	8.26	23.78	23.78	23.78	74.5	74.1	74.5	5.09	5.06	5.09	4.16	4.16	4.22	3	3.00
00/0/2010	9:27	0	Middle	3.5	28.30	28.30	20.20	8.26	8.26	0.20	23.77	23.77	20.70	74.8	74.5	70	5.11	5.09	0.00	4.28	4.27		3	0.00
1/6/2015	10:20	Cloudy	Middle	3.5	27.50	27.50	27.55	8.34	8.34	8.36	27.12	27.12	27.12	63.3	66.0	65.0	4.29	4.47	4.40	4.06	3.88	3.89	3	3.00
	10:22		Middle	3.5	27.60	27.60		8.37	8.37		27.11	27.11		66.0	64.6		4.47	4.37		3.80	3.81		3	
3/6/2015	10:15	Fine	Middle	3.5	27.90	27.90	28.05	8.18	8.18	8.19	27.43	27.43	27.43	66.5	66.0	66.6	4.47	4.43	4.47	3.27	3.27	3.28	3	3.00
	10:17		Middle	3.5	28.20	28.20		8.19	8.19		27.42	27.42		66.4	67.3		4.46	4.51		3.29	3.28		3	
5/6/2015	11:10	Cloudy	Middle	3.5	27.40	27.40	27.55	8.18	8.18	8.16	28.94	28.94	28.94	59.5	59.5	59.6	4.00	3.99	4.00	1.99	1.99	1.98	<2	<2
	11:12		Middle	3.5	27.70	27.70		8.14	8.14		28.94	28.94		58.7	60.7		3.94	4.06		1.98	1.96		<2	
8/6/2015	16:13	Fine	Middle	3.5	27.50	27.50	27.65	8.26	8.26	8.31	27.62	27.62	27.59	68.8	68.1	68.5	4.64	4.59	4.62	6.48	6.82	6.67	3	4.00
	16:15		Middle	3.5	27.80	27.80		8.35	8.35		27.56	27.56		68.7	68.3		4.63	4.60		6.70	6.67		5	
10/6/2015	16:18	Fine	Middle	3.5	27.80	27.80	27.85	8.35	8.35	8.35	26.81	26.81	26.81	61.3	60.5	60.6	4.15	4.09	4.10	8.39	8.35	8.38	7	7.00
	16:20		Middle	3.5	27.90	27.90		8.35	8.35		26.81	26.81		60.3	60.2		4.07	4.07		8.38	8.40		7	<u> </u>
12/6/2015	8:06	Fine	Middle	3.0	27.30	27.30	27.40	8.27	8.27	8.29	26.08	26.08	26.09	67.0	67.0	67.1	4.59	4.59	4.59	4.49	4.44	4.42	4	4.00
	8:07		Middle	3.0	27.50	27.50		8.30	8.30		26.09	26.09		67.5	66.9		4.62	4.57		4.40	4.35		4	
15/6/2015	10:06	Fine	Middle	3.0	27.70	27.70	27.85	8.21	8.21	8.21	27.83	27.83	27.84	65.4	67.1	66.9	4.39	4.51	4.49	2.87	2.90	2.97	3	3.00
	10:08		Middle	3.0	28.00	28.00		8.20	8.20		27.84	27.84		68.2	67.0		4.57	4.49		3.00	3.12	1	3	
17/6/2015	11:15	Fine	Middle	3.5	27.30	27.30	27.45	8.19	8.19	8.22	29.07	29.07	29.07	67.2	67.7	67.2	4.62	4.64	4.59	2.18	2.16	2.10	5	4.50
	11:17		Middle	3.5	27.60	27.60		8.25	8.25		29.06	29.06		67.4	66.6		4.62	4.47		2.06	2.01		4	
19/6/2015	15:40	Fine	Middle	3.5	29.60	29.60	29.75	8.28	8.28	8.30	27.96	27.96	27.94	70.1	70.7	70.5	4.58	4.62	4.61	3.04	3.08	3.07	2	2.00
	15:42		Middle	3.5	29.90	29.90		8.32	8.32		27.91	27.91		71.1	70.1		4.65	4.58		3.02	3.14		<2	
22/6/2015	15:04	Fine	Middle	3.5	28.60	28.60	28.70	8.55	8.55	8.56	23.87	23.87	23.83	67.7	69.2	68.6	4.59	4.69	4.65	3.06	3.02	3.11	3	3.00
	15:06		Middle	3.5	28.80	28.80		8.57	8.57		23.79	23.79		69.5	68.0		4.71	4.61		3.14	3.20	1	3	$\vdash$
24/6/2015	15:05 15:07	Cloudy	Middle Middle	3.0	28.20	28.20	28.30	8.44	8.44	8.47	24.59	24.59	24.59	89.2 87.5	89.1 85.5	87.8	6.06 5.94	5.80	5.96	1.77	1.77	1.78	<2 <2	<2
	21:10		Middle	2.5	28.10	28.10		8.30	8.30		23.06	23.06		89.4	89.8		6.14	6.16		1.76	1.62		4	$\vdash$
26/6/2015	21:11	Cloudy	Middle	2.5	28.10	28.10	28.10	8.34	8.34	8.32	23.10	23.10	23.08	91.0	90.6	90.2	6.24	6.22	6.19	1.59	1.02	1.58	4	4.00
	41.11		IVIIUUIC	2.0	20.10	20.10		0.04	0.04		20.10	20.10		31.0	30.0		0.24	0.22		1.08	1.40		-	1

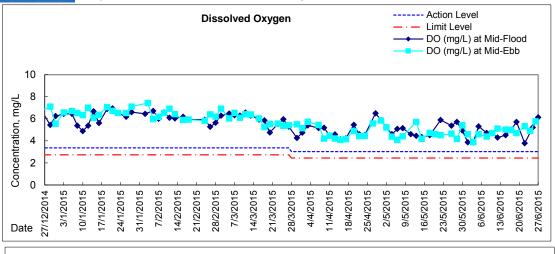
## Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

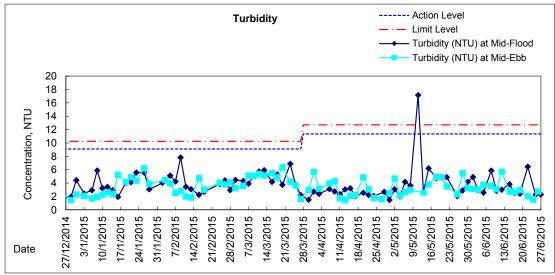


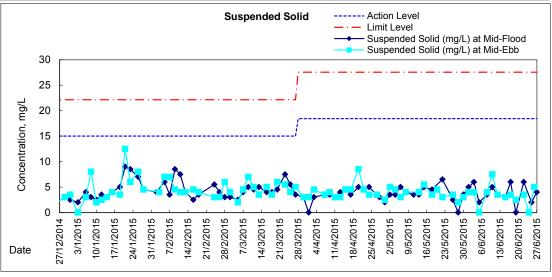




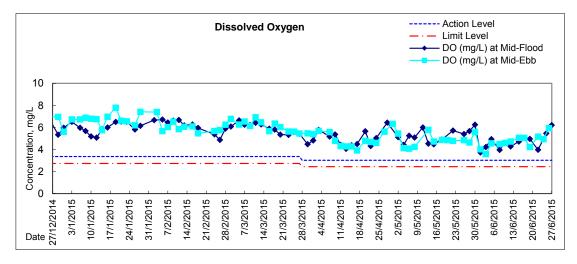
## **Graphic Presentation of Water Quality Result of C1 - HKCEC**

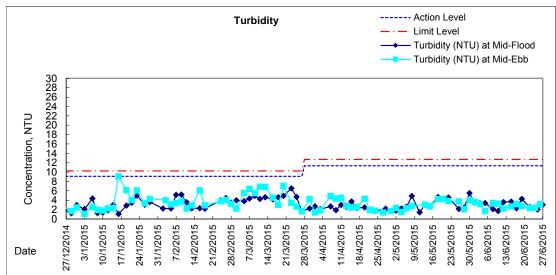


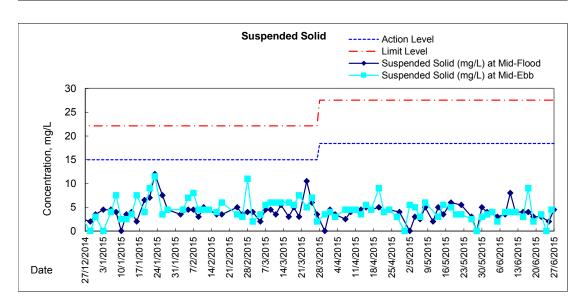




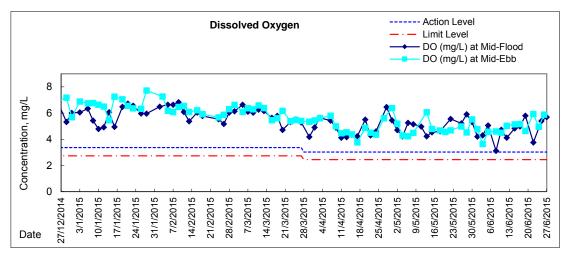
#### Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

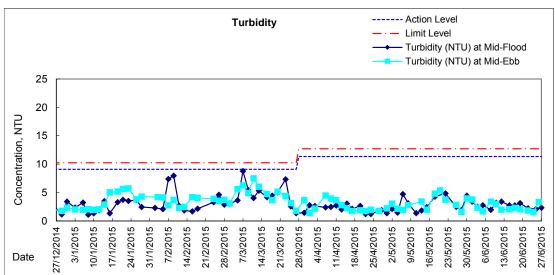


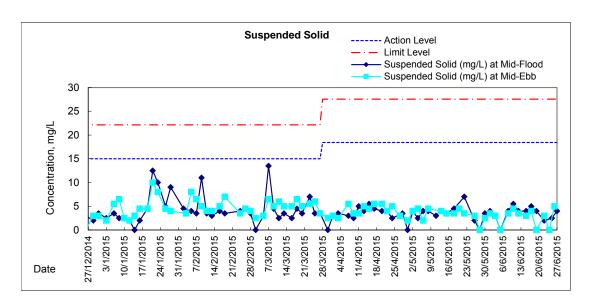




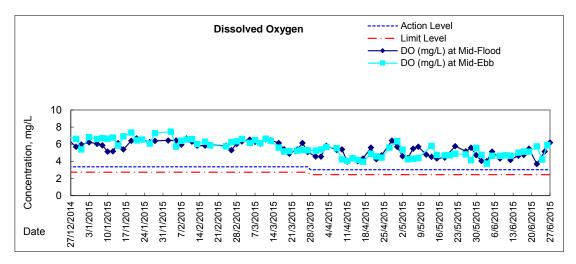


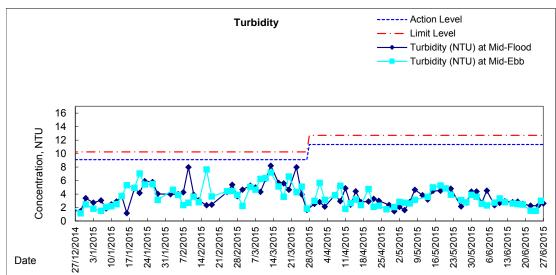


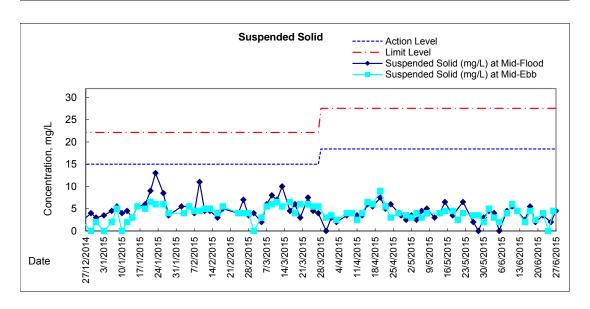




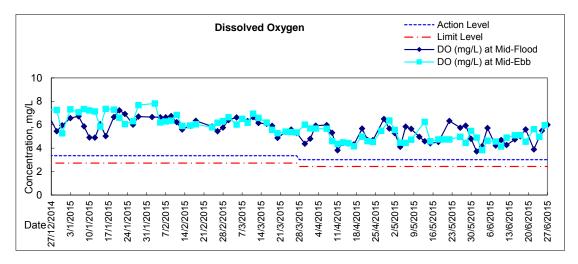
#### Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

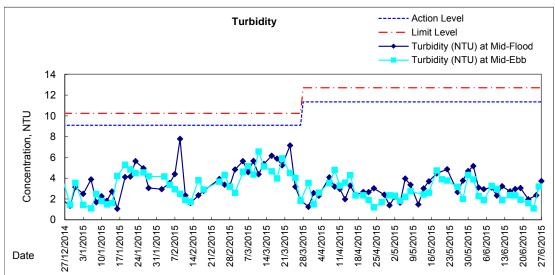


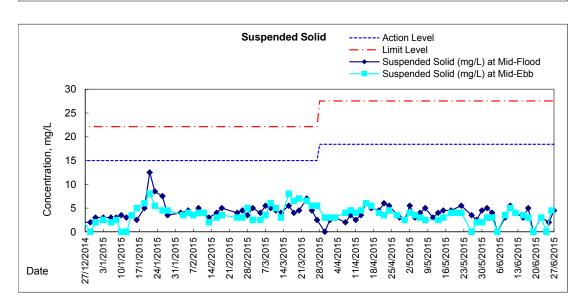




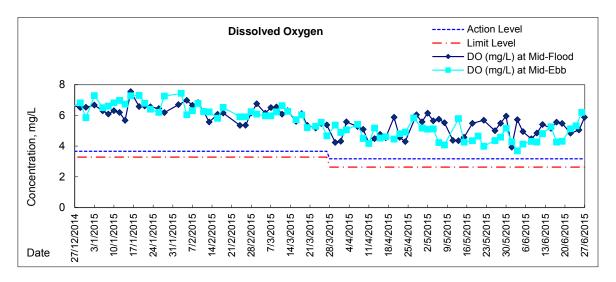
### Graphic Presentation of Water Quality Result of P4 - SOC

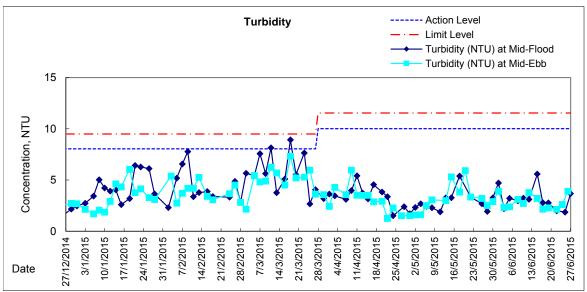


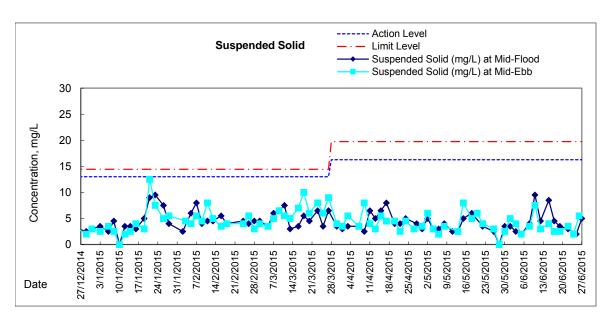




## Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

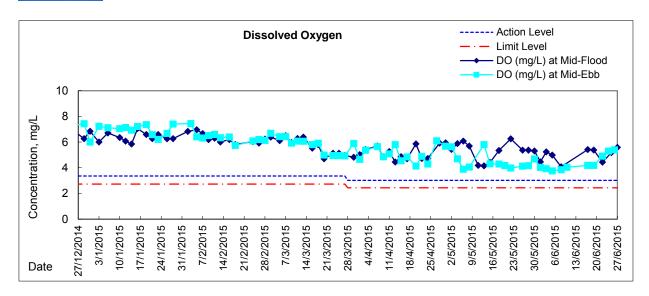


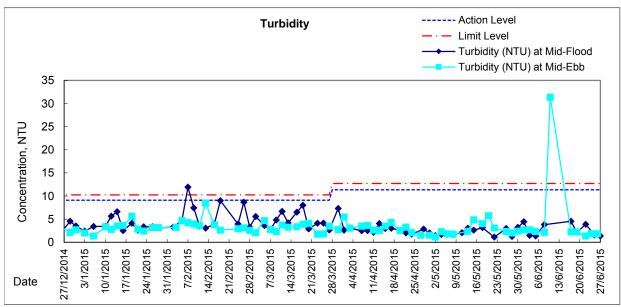


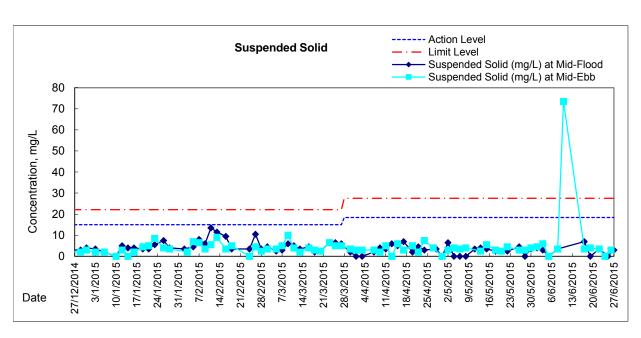




### **Graphic Presentation of Water Quality Result of C7 - Windsor House**









### Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

T:.																			
Date		ater S	Sampling		Wat	er Temp °C	perature		pH -			Salinit ppt	у	D	O Satur %	ation		DO mg/l	
	_		m			lue	Average		lue	Average	Va	lue	Average		lue	Average	Va	lue	Average
<u> </u>	-		urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/5/2015 20	0:43 Clo	udy M	Middle	1.5	27.10	27.10	27.1	7.77	7.78	7.8	22.82	22.82	22.8	63.2	63.5	63.4	4.42	4.44	4.43
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/5/2015 17	7:15 Fi	ne M	Middle	1.5	28.00	28.00	28.0	8.17	8.17	8.2	24.25	24.25	24.3	70.9	70.6	70.8	4.84	4.81	4.83
	-	В	Bottom		-	-	-	-	1	-	-	1		-	1		-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/6/2015 18	8:30 Clo	udy N	Middle	1.5	26.70	26.70	26.7	8.26	8.26	8.3	25.93	25.93	25.9	55.5	55.3	55.4	3.84	3.83	3.84
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/6/2015 19	9:23 Clo	udv M	Middle	1.0	28.60	28.60	28.6	8.01	8.01	8.0	27.35	27.35	27.4	61.3	62.2	61.8	4.09	4.15	4.12
	_	·	Bottom		-			-	_		_	_		-				_	-
			-				-			-			-						
	- 01-		urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/6/2015 20	0:19 Clo	udy M	Middle	1.5	26.80	26.80	26.8	7.79	7.79	7.8	23.81	23.81	23.8	44.2	44.3	44.3	3.09	3.10	3.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/6/2015 8:	3:17 Fi	ne M	Middle	1.5	26.90	26.90	26.9	8.06	8.06	8.1	28.20	28.20	28.2	55.3	56.3	55.8	3.76	3.83	3.80
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2015 10	0:40 Fi	ne M	Middle	1.5	28.20	28.20	28.2	8.19	8.19	8.2	27.07	27.07	27.1	73.4	74.5	74.0	4.92	4.99	4.96
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/6/2015 16	6:07 Fi	ne M	Middle	1.5	28.00	28.00	28.0	8.14	8.14	8.1	25.19	25.19	25.2	55.6	54.4	55.0	3.78	3.70	3.74
	-	В	Bottom	-	-	_	-	_	-	-	-	_	-	_	_	-	_	_	-
	_		urface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
<u> </u>			Middle	1.5	29.70	29.70	29.7	8.28	8.28	8.3	27.70	27.70	27.7	77.0	79.3	78.2	4.99	5.11	5.05
		-	+	1.5			29.1											3.11	
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>	-		urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/6/2015 20	0:01 Clo	udy M	Middle	1.5	27.10	27.10	27.1	8.07	8.07	8.1	25.33	25.33	25.3	65.9	63.9	64.9	4.54	4.41	4.48
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/6/2015 20	0:48 Fi	ne M	Middle	1.5	27.20	27.20	27.2	8.17	8.17	8.2	26.30	26.30	26.3	67.7	68.3	68.0	4.64	4.68	4.66
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Sı	urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/6/2015 8:	3:15 Clo	udy M	Middle	1.5	27.10	27.10	27.1	8.23	8.23	8.2	23.42	23.42	23.4	64.1	64.3	64.2	4.47	4.40	4.44
	-	В	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		urface	-	-	-	-	-	-	-	_	_	-	_	-	-	-	-	-
25/6/2015 1:	:55 Clo		Middle	1.0	27.50	27.50	27.5	8.10	8.10	8.1	20.39	20.39	20.4	53.7	54.0	53.9	3.78	3.80	3.79
	- 010	·		-	-	-	21.5	-	0.10	0.1	20.59	20.59	20.4	-	-	-	5.70	0.00	3.79
	-		Bottom				-										-	-	
	-		urface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/6/2015 2:	2:06 Clo	udy M	Middle	1.5	27.90	27.90	27.9	7.99	7.99	8.0	20.34	20.34	20.3	66.4	66.8	66.6	4.65	4.68	4.67
								-			-	-		-	-				

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



# Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Flood Tide

	Time	Weater	Samplin	g Depth	\/\/at	er Temr	perature		pН			Salinit	v	Г	O Satur	ation		DO	
Date	111110	Condition	Sampiii r			°C	Average	170	lue	Ανριασο	1/2	ppt			% lue		1/2	mg/L lue	Average
	_		Surface	-	va -	-	Average -	- Va	iue -	Average	va -	iue -	Average -	- va	iue -	Average -	va -	iue -	Average -
28/5/2015	20:15	Cloudy	Middle	1.0	27.10	27.10	27.1	8.12	8.12	8.1	14.66	14.66	14.7	53.9	52.7	53.3	3.95	3.87	3.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/5/2015	16:13	Fine	Middle	1.5	27.70	27.70	27.7	8.41	8.41	8.4	23.34	23.34	23.3	74.5	76.0	75.3	5.14	5.25	5.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/6/2015	18:05	Cloudy	Middle	1.5	26.50	26.50	26.5	8.29	8.29	8.3	26.93	26.93	26.9	46.4	46.5	46.5	3.21	3.21	3.21
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/6/2015	21:15	Cloudy	Middle	1.0	27.20	27.20	27.2	8.12	8.12	8.1	18.06	18.06	18.1	46.3	47.0	46.7	3.26	3.31	3.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/6/2015	20:01	Cloudy	Middle	1.0	27.10	27.10	27.1	7.98	7.98	8.0	22.62	22.62	22.6	51.4	53.2	52.3	3.62	3.70	3.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/6/2015	8:05	Fine	Middle	1.5	26.40	26.40	26.4	8.09	8.09	8.1	25.97	25.97	26.0	44.4	44.8	44.6	3.09	3.11	3.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2015	10:10	Fine	Middle	1.5	27.40	27.40	27.4	8.11	8.11	8.1	23.63	23.63	23.6	39.6	39.9	39.8	2.74	2.75	<u>2.75</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	ı	-	-	-	1	ı	-	-	1	1	ı	-	-	1	1	1
12/6/2015	15:50	Fine	Middle	1.5	27.80	27.80	27.8	8.29	8.29	8.3	14.23	14.23	14.2	47.5	47.3	47.4	3.45	3.43	3.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/6/2015	15:50	Fine	Middle	1.5	27.70	27.70	27.7	8.31	8.31	8.3	26.67	26.67	26.7	69.0	68.9	69.0	4.67	4.66	4.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
17/6/2015	19:43	Cloudy	Middle	1.0	27.10	27.10	27.1	8.17	8.17	8.2	26.57	26.57	26.6	64.6	67.5	66.1	4.43	4.63	4.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/6/2015	22:14	Fine	Middle	1.5	27.10	27.10	27.1	8.23	8.23	8.2	18.27	18.27	18.3	60.7	61.9	61.3	4.20	4.29	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/6/2015	8:00	Cloudy	Middle	1.5	27.30	27.30	27.3	8.43	8.43	8.4	16.02	16.02	16.0	59.7	60.7	60.2	4.33	4.41	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/6/2015	1:32	Cloudy	Middle	1.0	27.60	27.60	27.6	8.28	8.28	8.3	17.83	17.83	17.8	50.9	51.6	51.3	3.63	3.68	3.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/6/2015	0:50	Cloudy	Middle	1.0	28.20	28.20	28.2	8.31	8.31	8.3	18.72	18.72	18.7	64.2	65.0	64.6	4.78	4.83	4.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



# Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Flood Tide

	Time	Weater	Samplin	ng Depth	Wat	er Temr	erature		pН			Salini	tv	П	O Satur	ation		DO	
Date	Tille	Condition		n Depin		°C lue	Average	Va	lue	Average	Va	ppt	Average		% lue	Average	Va	mg/L ilue	Average
	_		Surface	_	- va	-	- Average	-	-	- Average	-	-	- Average	- va	-	- Average	- va	-	- Average
28/5/2015	_	Cloudy	Middle	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_		Bottom	_	_	_	-	_	-	_	_	_	_	_	_	_	_	_	_
	-		Surface	-	-	-	-	-	-	_	-	-	-	-	-	-	-	_	_
30/5/2015	_	Fine	Middle	_	_	_	-	_	-	_	_	_	_	_	_	_	_	_	_
	_		Bottom	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_		Surface	_	_	_	_	_	_	_	-	-	_	_	_	_	_	_	-
1/6/2015	_	Cloudy	Middle	_	_	-	-	_	-	_	-	-	_	_	_	_	-	-	_
	_	,	Bottom	_	_	_	-	_	-	_	_	_	_	_	-	_	_	_	_
	_		Surface	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-
3/6/2015	_	Cloudy	Middle	_	_	_	-	_	-	_	_	_	_	_	_	_	_	_	_
	_	,	Bottom	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_
	_		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/6/2015	_	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_		Surface	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_
8/6/2015	_	Fine	Middle	_	-	-	_	-	-	_	-	-	_	_	-	_	-	-	_
	_		Bottom	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_		Surface	_	-	_	-	-	-	_	_	-	_	_	_	_	_	_	_
10/6/2015	_	Fine	Middle	_			_	-	_	_	_	_	_	_	_	_		_	_
10.0.2	_		Bottom	_	_	_	_	-	_	_	_	-	_	_	_	_		_	_
	_		Surface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
12/6/2015	_	Fine	Middle	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_		Bottom	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
	_		Surface	_	-	-	_	-	-	_	-	-	_	_	-	-	-	-	-
15/6/2015	_	Fine	Middle	_	_	_	_	_	_	_	_	-	_	-	-	_	_	_	_
10.0.2	_		Bottom	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_
	_		Surface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
17/6/2015	_	Cloudy	Middle	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
	_		Bottom	_	-			-		_	_	_		_	_	_		-	_
	_		Surface	_	_	_	_	-	_	_	_	_		_	_	_	_	_	_
19/6/2015	_	Fine	Middle	_	-	-	-	-	-	_	-	-	_	-	-	_	-	-	-
	_		Bottom	_	-	-	_	-	-	_	_	_	_	-	_	_	-	-	_
	-		Surface	-	-	-	_	-	-	-	_	-	-	-	-	-	-	-	-
22/6/2015	_	Cloudy	Middle	_	-		_	-		_	_	_	_	-	-	_	_	-	_
	_	,	Bottom	_	-		_	-	-	_	_	-		-	-	_	_	-	_
	-		Surface	-	-	-	-	-	-	_	-	-	-		-	_	-	-	-
25/6/2015	-	Cloudy	Middle		-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
20,0/2010	-	Ciouuy	Bottom		-	-	-	-	-	-	-	-	-	-	-	_	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/6/2015		Cloudy																	
2//0/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-		-	-		-	-

Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.



### Water Monitoring Result at C6 - Excelsior Hotel Mid-Ebb Tide

	Tim-	\/\cat==	Com-II	ua Donii	18/	or Terr	orat::rc		ااء			Ca!!-''	h.		O 854	ration		DC	
Date	Time	Weater Condition	Samplin n			°C	perature	17-	pH -	Augreen		Salinit ppt			O Satur		.,.	DO mg/L	
	_		Surface		Va -	lue -	Average	Va -	lue -	Average	Va -	lue -	Average	Va	lue -	Average	Va -	ilue -	Average
28/5/2015	9:40	Fine	Middle	2	26.70	26.70	26.7	8.04	8.04	8.0	26.12	26.12	26.1	57.6	57.9	57.8	3.98	4.00	3.99
	-	_	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_		Surface	_	_	-	-	_	-	-	_	_	_	-	_	-	_	_	-
30/5/2015	11:25	Fine	Middle	2	27.70	27.70	27.7	8.07	8.07	8.1	23.62	23.62	23.6	55.5	55.6	55.6	3.83	3.83	3.83
	-		Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	_		Surface	-	_	_	_	-	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_	<u> </u>
1/6/2015	11:51	Cloudy	Middle	2	27.00	27.00	27.0	8.10	8.10	8.1	23.28	23.28	23.3	53.3	52.7	53.0	3.72	3.69	3.71
	-		Bottom		-	-		-	-	-	-	-		-	-	-	-	-	-
	_		Surface		_	_	_	-	_		_	_	_		_	_	_	_	_
3/6/2015	14:37	Fine	Middle	2	27.80	27.80	27.8	8.10	8.10	8.1	25.89	25.89	25.9	45.7	44.8	45.3	3.11	3.05	3.08
3/0/2013		i iiie			27.00		21.0			0.1			25.9				3.11	3.05	
	-		Bottom	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E 10 100 4 E	- 45.00	Classis	Surface	-	- 07.50	- 07.50	- 07.5	- 0.00	-	-	- 07.00	- 07.00			-	-		-	-
5/6/2015	15:22	Cloudy	Middle	2	27.50	27.50	27.5	8.03	8.03	8.0	27.62	27.62	27.6	52.0	51.7	51.9	3.52	3.60	3.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/6/2015	15:37	Fine	Middle	2	27.60	27.60	27.6	8.16	8.16	8.2	28.19	28.18	28.2	50.3	49.7	50.0	3.39	3.35	3.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2015	18:36	Fine	Middle	2	27.70	27.70	27.7	8.26	8.26	8.3	26.41	26.41	26.4	59.8	59.7	59.8	4.05	4.05	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/6/2015	9:14	Fine	Middle	2	27.60	27.60	27.6	8.20	8.20	8.2	23.26	23.26	23.3	68.4	68.7	68.6	4.73	4.75	4.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/6/2015	14:25	Fine	Middle	2	28.00	28.00	28.0	8.25	8.25	8.3	27.57	27.57	27.6	74.7	73.9	74.3	4.99	4.94	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	ı	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/6/2015	10:35	Fine	Middle	2	27.10	27.10	27.1	8.09	8.09	8.1	29.28	29.28	29.3	62.0	63.2	62.6	4.18	4.26	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/6/2015	14:34	Fine	Middle	2	29.10	29.10	29.1	8.14	8.14	8.1	27.07	27.07	27.1	64.9	63.0	64.0	4.30	4.18	4.24
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/6/2015	17:15	Fine	Middle	2	27.30	27.30	27.3	8.36	8.36	8.4	23.63	23.63	23.6	71.1	70.8	71.0	4.93	4.92	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/6/2015	14:05	Cloudy	Middle	2	27.70	27.70	27.7	8.25	8.25	8.3	24.26	24.26	24.3	78.1	79.2	78.7	5.35	5.43	5.39
	-	-	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/6/2015	19:25	Cloudy	Middle	1	28.00	28.00	28.0	8.18	8.18	8.2	21.36	21.38	21.4	76.7	77.1	76.9	5.28	5.30	5.29
1	-	<b>-</b> -	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Dottom	-	<u> </u>	<u> </u>	<u> </u>				<u> </u>	<u> </u>	<u> </u>						

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



# Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

	Tim	\\/aat==	Com-l'	na Donth	14/	or To-	norot: rc		ااء			Ca!!-''	24		)O 654	ration		D0	
Date	Time	Weater Condition		ng Depth n		°C	perature	.,	pH -	I Ayraar :	.,	Salinit ppt			OO Satur		.,	DO mg/L	
	_		Surface	_	Va -	lue -	Average	Va	lue -	Average	Va -	lue -	Average	Va	alue -	Average	Va	lue -	Average
28/5/2015	9:16	Fine	Middle	1.5	26.40	26.40	26.4	8.12	8.12	8.1	18.09	18.09	18.1	43.7	42.7	43.2	3.18	3.10	3.14
20/0/2010	-		Bottom	-	20.40	-	20.4	-	-	-	-	-	-	-	-	- 45.2	-	3.10	<u>5.14</u>
	_		Surface	_	_	_	_	<u> </u>	_	-	_	_	_	_	_	_	_	_	_
30/5/2015	11:10	Fine	Middle	1.5	27.40	27.40	27.4	8.24	8.24	8.2	23.60	23.60	23.6	61.6	61.2	61.4	4.27	4.25	4.26
00/0/2010	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	_		Surface	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
1/6/2015	11:38	Cloudy	Middle	1.5	26.70	26.70	26.7	8.26	8.26	8.3	22.00	22.00	22.0	46.4	45.7	46.1	3.28	3.23	3.26
	-		Bottom	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-
	_		Surface	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-
3/6/2015	14:21	Fine	Middle	1.5	27.10	27.10	27.1	8.13	8.13	8.1	25.74	25.74	25.7	46.9	46.8	46.9	3.22	3.22	3.22
0,0,2010	-		Bottom	-	-	-		-	-	-	-	-	-		-	-	-	-	-
	-		Surface		-	-	_	-	-		_				_	_		-	
5/6/2015	15:07	Cloudy	Middle	1.5	26.70	26.70	26.7	8.10	8.10	8.1	28.33	28.33	28.3	41.6	40.3	41.0	2.84	2.76	2.80
3/3/2013	-	Cloudy	Bottom	-	20.70	20.70	-	0.10	-	0.1	-	-	-	41.0	40.3	41.0		2.70	<u>2.80</u>
	-		Surface		_	-		-	-		-		-		_	_			-
8/6/2015	15:26	Fine	Middle	1.5	27.10	27.10	27.1	8.24	8.24	8.2	27.03	27.03	27.0	56.9	56.7	56.8	3.89	3.80	3.85
6/6/2013	15.20	i iiie		1.5			-	0.24	0.24	-	-		-		50.7	50.0	3.09	3.00	3.00
			Bottom		-	-						-		-					
40/0/0045	-	Fire	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2015	17:40	Fine	Middle	1.5	27.40	27.40	27.4	8.35	8.35	8.4	21.67	21.67	21.7	54.8	53.5	54.2	3.87	3.75	3.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/0/0015	-		Surface	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
12/6/2015	9:00	Fine	Middle	1.5	27.00	27.00	27.0	8.31	8.31	8.3	15.75	15.75	15.8	56.9	55.9	56.4	4.15	4.07	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/6/2015	14:20	Fine	Middle	1.5	27.20	27.20	27.2	8.24	8.24	8.2	26.94	26.94	26.9	68.0	66.4	67.2	4.60	4.47	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/6/2015	10:19	Fine	Middle	1.5	26.90	26.90	26.9	8.18	8.18	8.2	24.90	24.90	24.9	39.9	40.0	40.0	2.76	2.77	2.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/6/2015	14:04	Fine	Middle	1.5	27.40	27.50	27.5	8.25	8.24	8.2	22.73	22.73	22.7	47.4	46.6	47.0	3.29	3.24	3.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/6/2015	16:55	Fine	Middle	1.5	27.70	27.70	27.7	8.41	8.41	8.4	19.11	19.11	19.1	81.2	80.3	80.8	5.74	5.65	5.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/6/2015	13:40	Cloudy	Middle	1.5	27.60	27.60	27.6	8.30	8.30	8.3	23.74	23.74	23.7	61.1	61.7	61.4	4.21	4.26	4.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/6/2015	20:17	Cloudy	Middle	1.0	28.10	28.10	28.1	8.47	8.47	8.5	17.07	17.07	17.1	65.3	65.0	65.2	4.65	4.62	4.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				•			•												



# Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

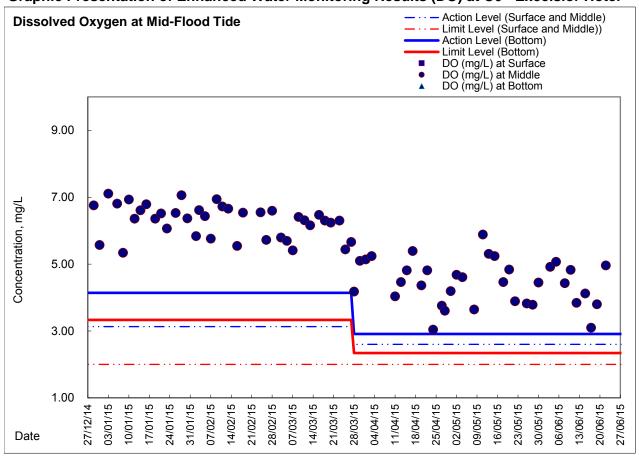
		10/	0"	. D II.	10/-/				-11			0 - 11 - 11	1		0.0-1				
Date	Time	Weater Condition		ng Depth n		°C	perature		<u>рН</u> -			Salinit ppt	-		O Satur			DO mg/L	_
	_			-	Va -	lue -	Average	Va -	lue -	Average	Va -	lue -	Average	Va -	lue -	Average	Va -	lue -	Average
28/5/2015		Fine	Surface																
20/3/2013	-	Tille	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00/5/00/5	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/5/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41010045	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/6/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	 	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/6/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	1	1	-	-	1	ı	-	-	-	-	-	-	-	1	1	-
12/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	-	-	-	-	·		-	-	-	-	-	-	-	-	·	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Ī	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/6/2015	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	<u> </u>	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/6/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	†	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/6/2015	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_		Bottom	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	-
			DOMOIII				_			_			_			_	_		<u> </u>

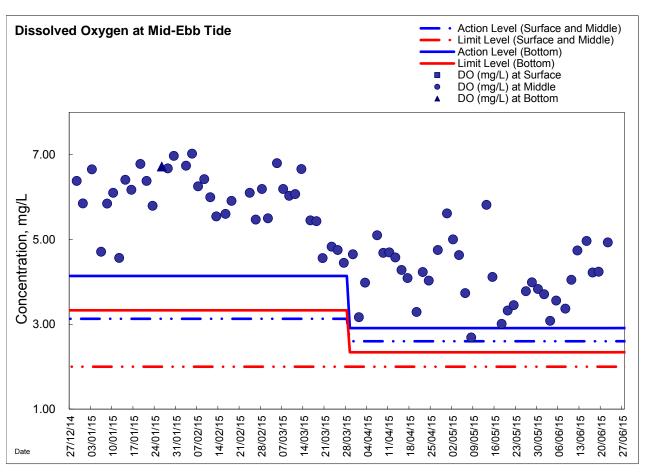
Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



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

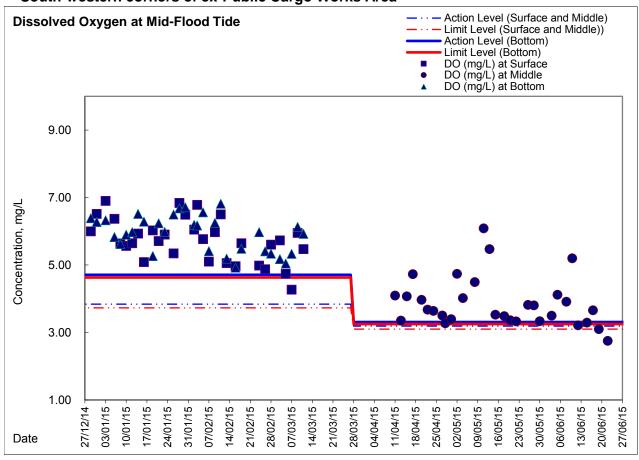


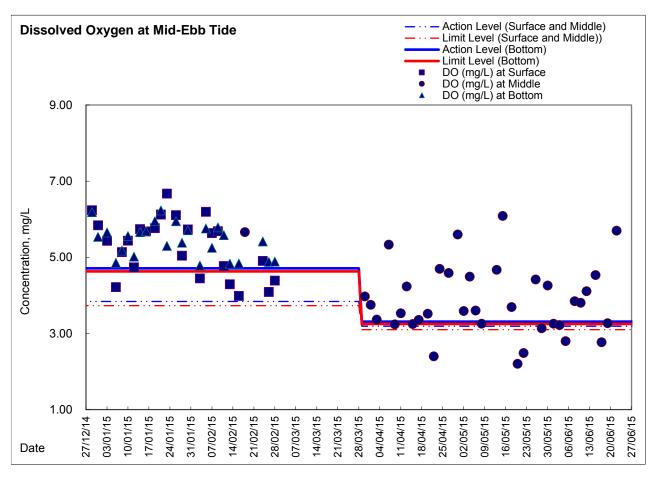




# Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW

- South-western corners of ex-Public Cargo Works Area

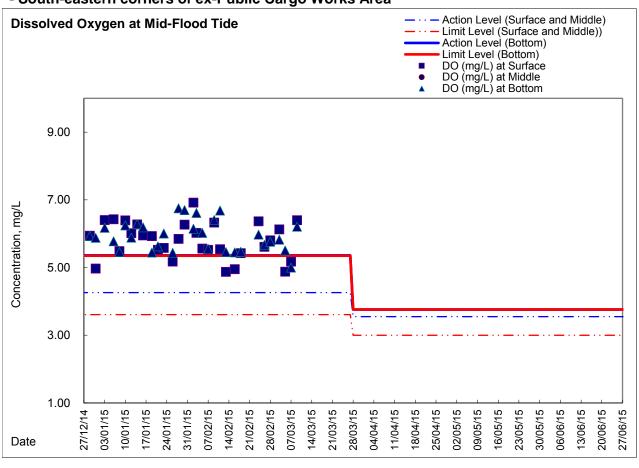


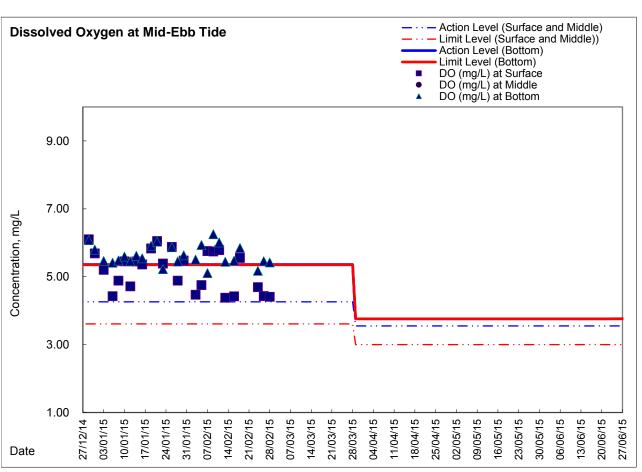




# Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE

- South-eastern corners of ex-Public Cargo Works Area





# Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Peal time Noise Data	PTN2a (Hong Kong Electric Centr	۵)			
Real-time Noise Data	RTN2a (Hong Kong Electric Centr 2/6/2015 12:01 64	6/6/2015 18:31 63	12/6/2015 13:01 61	18/6/2015 7:31 63	24/6/2015 14:01 75
Normal Day 07:00-19:00	2/6/2015 12:31 63	8/6/2015 7:01 61	12/6/2015 13:31 68	18/6/2015 8:01 60	24/6/2015 14:31 74
	2/6/2015 13:01 60	8/6/2015 7:31 62	12/6/2015 14:01 64	18/6/2015 8:31 66	24/6/2015 15:01 74
28/5/2015 7:01 62	2/6/2015 13:31 67	8/6/2015 8:01 57	12/6/2015 14:31 67	18/6/2015 9:01 64	24/6/2015 15:31 74
28/5/2015 7:31 62	2/6/2015 14:01 69	8/6/2015 8:31 69	12/6/2015 15:01 67	18/6/2015 9:31 67	24/6/2015 16:01 74
28/5/2015 8:01 72	2/6/2015 14:31 65	8/6/2015 9:01 70	12/6/2015 15:31 67	18/6/2015 10:01 71	24/6/2015 16:31 73
28/5/2015 8:31 74	2/6/2015 15:01 66	8/6/2015 9:31 69	12/6/2015 16:01 67	18/6/2015 10:31 72	24/6/2015 17:01 72
28/5/2015 9:01 72	2/6/2015 15:31 63	8/6/2015 10:01 66	12/6/2015 16:31 69	18/6/2015 11:01 73	24/6/2015 17:31 72
28/5/2015 9:31 72	2/6/2015 16:01 67	8/6/2015 10:31 72	12/6/2015 17:01 66	18/6/2015 11:31 68	24/6/2015 18:01 69
28/5/2015 10:01 71	2/6/2015 16:31 65	8/6/2015 11:01 71	12/6/2015 17:31 66	18/6/2015 12:01 65	24/6/2015 18:31 52
28/5/2015 10:31 71	2/6/2015 17:01 62	8/6/2015 11:31 48	12/6/2015 18:01 65	18/6/2015 12:31 65	25/6/2015 7:01 63
28/5/2015 11:01 72	2/6/2015 17:31 63	8/6/2015 12:01 63	12/6/2015 18:31 64	18/6/2015 13:01 72	25/6/2015 7:31 67
28/5/2015 11:31 66	2/6/2015 18:01 67	8/6/2015 12:31 67	13/6/2015 7:01 61	18/6/2015 13:31 72	25/6/2015 8:01 70
28/5/2015 12:01 62	2/6/2015 18:31 63	8/6/2015 13:01 72	13/6/2015 7:31 63	18/6/2015 14:01 72	25/6/2015 8:31 76
28/5/2015 12:31 63	3/6/2015 7:01 62	8/6/2015 13:31 67	13/6/2015 8:01 67	18/6/2015 14:31 73	25/6/2015 9:01 73
28/5/2015 13:01 66	3/6/2015 7:31 63	8/6/2015 14:01 68	13/6/2015 8:31 69	18/6/2015 15:01 73	25/6/2015 9:31 73
28/5/2015 13:31 67	3/6/2015 8:01 65	8/6/2015 14:31 66	13/6/2015 9:01 66	18/6/2015 15:31 73	25/6/2015 10:01 73
28/5/2015 14:01 67	3/6/2015 8:31 55	8/6/2015 15:01 70	13/6/2015 9:31 68	18/6/2015 16:01 64	25/6/2015 10:31 74
28/5/2015 14:31 67	3/6/2015 9:01 67	8/6/2015 15:31 69	13/6/2015 10:01 68	18/6/2015 16:31 69	25/6/2015 11:01 71
28/5/2015 15:01 63	3/6/2015 9:31 58	8/6/2015 16:01 68	13/6/2015 10:31 67	18/6/2015 17:01 71	25/6/2015 11:31 68
28/5/2015 15:31 65	3/6/2015 10:01 57	8/6/2015 16:31 65	13/6/2015 11:01 69	18/6/2015 17:31 73	25/6/2015 12:01 62
28/5/2015 16:01 66	3/6/2015 10:31 69	8/6/2015 17:01 65	13/6/2015 11:31 66	18/6/2015 18:01 69	25/6/2015 12:31 70
28/5/2015 16:31 62	3/6/2015 11:01 64	8/6/2015 17:31 64	13/6/2015 12:01 66	18/6/2015 18:31 67	25/6/2015 13:01 71
28/5/2015 17:01 65	3/6/2015 11:31 65	8/6/2015 18:01 67	13/6/2015 12:31 66	19/6/2015 7:01 62	25/6/2015 13:31 70
28/5/2015 17:31 62	3/6/2015 12:01 63	8/6/2015 18:31 67	13/6/2015 13:01 65	19/6/2015 7:31 65	25/6/2015 14:01 71
28/5/2015 18:01 64	3/6/2015 12:31 63	9/6/2015 7:01 61	13/6/2015 13:31 69	19/6/2015 8:01 68	25/6/2015 14:31 71
28/5/2015 18:31 63	3/6/2015 13:01 67	9/6/2015 7:31 62	13/6/2015 14:01 68	19/6/2015 8:31 72	25/6/2015 15:01 71
29/5/2015 7:01 62	3/6/2015 13:31 67	9/6/2015 8:01 66	13/6/2015 14:31 67	19/6/2015 9:01 72	25/6/2015 15:31 71
29/5/2015 7:31 63	3/6/2015 14:01 66	9/6/2015 8:31 69	13/6/2015 15:01 67	19/6/2015 9:31 73	25/6/2015 16:01 71
29/5/2015 8:01 67	3/6/2015 14:31 67	9/6/2015 9:01 70	13/6/2015 15:31 68	19/6/2015 10:01 70	25/6/2015 16:31 71
29/5/2015 8:31 71	3/6/2015 15:01 67	9/6/2015 9:31 69	13/6/2015 16:01 69	19/6/2015 10:31 70	25/6/2015 17:01 69
29/5/2015 9:01 73	3/6/2015 15:31 68	9/6/2015 10:01 69	13/6/2015 16:31 65	19/6/2015 11:01 72	25/6/2015 17:31 68
29/5/2015 9:31 71	3/6/2015 16:01 68	9/6/2015 10:31 68	13/6/2015 17:01 63	19/6/2015 11:31 70	25/6/2015 18:01 69
29/5/2015 10:01 70	3/6/2015 16:31 63	9/6/2015 11:01 69	13/6/2015 17:31 66	19/6/2015 12:01 64	25/6/2015 18:31 63
29/5/2015 10:31 73	3/6/2015 17:01 64	9/6/2015 11:31 62	13/6/2015 18:01 65	19/6/2015 12:31 63	26/6/2015 7:01 55
29/5/2015 11:01 68	3/6/2015 17:31 67	9/6/2015 12:01 66	13/6/2015 18:31 64	19/6/2015 13:01 71	26/6/2015 7:31 65
29/5/2015 11:31 67	3/6/2015 18:01 66	9/6/2015 12:31 53	15/6/2015 7:01 62	19/6/2015 13:31 73	26/6/2015 8:01 69
29/5/2015 12:01 63	3/6/2015 18:31 64	9/6/2015 13:01 62	15/6/2015 7:31 62	19/6/2015 14:01 70	26/6/2015 8:31 74
29/5/2015 12:31 64	4/6/2015 7:01 62	9/6/2015 13:31 69	15/6/2015 8:01 68	19/6/2015 14:31 71	26/6/2015 9:01 73
29/5/2015 13:01 63	4/6/2015 7:31 61	9/6/2015 14:01 68	15/6/2015 8:31 71	19/6/2015 15:01 71	26/6/2015 9:31 71
29/5/2015 13:31 68	4/6/2015 8:01 63	9/6/2015 14:31 68	15/6/2015 9:01 71	19/6/2015 15:31 73	26/6/2015 10:01 70
29/5/2015 14:01 57	4/6/2015 8:31 66	9/6/2015 15:01 66	15/6/2015 9:31 70	19/6/2015 16:01 70	26/6/2015 10:31 71
29/5/2015 14:31 55	4/6/2015 9:01 66	9/6/2015 15:31 66	15/6/2015 10:01 68	19/6/2015 16:31 72	26/6/2015 11:01 72
29/5/2015 15:01 62	4/6/2015 9:31 67	9/6/2015 16:01 65	15/6/2015 10:31 66	19/6/2015 17:01 70	26/6/2015 11:31 71
29/5/2015 15:31 57	4/6/2015 10:01 66	9/6/2015 16:31 67	15/6/2015 11:01 66	19/6/2015 17:31 69	26/6/2015 12:01 54
29/5/2015 16:01 67	4/6/2015 10:31 66	9/6/2015 17:01 70	15/6/2015 11:31 54	19/6/2015 18:01 68	26/6/2015 12:31 67
29/5/2015 16:31 66	4/6/2015 11:01 67	9/6/2015 17:31 66	15/6/2015 12:01 65	19/6/2015 18:31 67	26/6/2015 13:01 73
29/5/2015 17:01 65	4/6/2015 11:31 66	9/6/2015 18:01 66	15/6/2015 12:31 66	22/6/2015 7:01 62	26/6/2015 13:31 72
29/5/2015 17:31 64	4/6/2015 12:01 62	9/6/2015 18:31 65	15/6/2015 13:01 61	22/6/2015 7:31 63	26/6/2015 14:01 71
29/5/2015 18:01 64	4/6/2015 12:31 62	10/6/2015 7:01 63	15/6/2015 13:31 69	22/6/2015 8:01 65	26/6/2015 14:31 70
29/5/2015 18:31 63	4/6/2015 13:01 64	10/6/2015 7:31 62	15/6/2015 14:01 61	22/6/2015 8:31 74	26/6/2015 15:01 72
30/5/2015 7:01 58	4/6/2015 13:31 60	10/6/2015 8:01 61	15/6/2015 14:31 60	22/6/2015 9:01 73	26/6/2015 15:31 70
30/5/2015 7:31 59	4/6/2015 14:01 64	10/6/2015 8:31 70	15/6/2015 15:01 61	22/6/2015 9:31 72	26/6/2015 16:01 71
30/5/2015 8:01 64	4/6/2015 14:31 56	10/6/2015 9:01 68	15/6/2015 15:31 67	22/6/2015 10:01 72	26/6/2015 16:31 69
30/5/2015 8:31 67	4/6/2015 15:01 65	10/6/2015 9:31 61	15/6/2015 16:01 63	22/6/2015 10:31 72	26/6/2015 17:01 71
30/5/2015 9:01 66	4/6/2015 15:31 60	10/6/2015 10:01 64	15/6/2015 16:31 64	22/6/2015 11:01 72	26/6/2015 17:31 71
30/5/2015 9:31 58	4/6/2015 16:01 67	10/6/2015 10:31 66	15/6/2015 17:01 65	22/6/2015 11:31 69	26/6/2015 18:01 70
30/5/2015 10:01 54	4/6/2015 16:31 60	10/6/2015 11:01 59	15/6/2015 17:31 61	22/6/2015 12:01 66	26/6/2015 18:31 66
30/5/2015 10:31 66	4/6/2015 17:01 70	10/6/2015 11:31 67	15/6/2015 18:01 63	22/6/2015 12:31 64	27/6/2015 7:01 61
30/5/2015 11:01 62	4/6/2015 17:31 69	10/6/2015 12:01 65	15/6/2015 18:31 67	22/6/2015 13:01 72	27/6/2015 7:31 66
30/5/2015 11:31 67	4/6/2015 18:01 66	10/6/2015 12:31 66	16/6/2015 7:01 62	22/6/2015 13:31 71	27/6/2015 8:01 70
30/5/2015 12:01 60	4/6/2015 18:31 67	10/6/2015 13:01 62	16/6/2015 7:31 63	22/6/2015 14:01 72	27/6/2015 8:31 71
30/5/2015 12:31 60	5/6/2015 7:01 61	10/6/2015 13:31 63	16/6/2015 8:01 58	22/6/2015 14:31 72	27/6/2015 9:01 72
30/5/2015 13:01 67	5/6/2015 7:31 63	10/6/2015 14:01 70	16/6/2015 8:31 67	22/6/2015 15:01 71	27/6/2015 9:31 71
30/5/2015 13:31 63	5/6/2015 8:01 62	10/6/2015 14:31 70	16/6/2015 9:01 71	22/6/2015 15:31 71	27/6/2015 10:01 71
30/5/2015 14:01 67	5/6/2015 8:31 66	10/6/2015 15:01 68	16/6/2015 9:31 72	22/6/2015 16:01 72	27/6/2015 10:31 71
30/5/2015 14:31 63	5/6/2015 9:01 66	10/6/2015 15:31 65	16/6/2015 10:01 73	22/6/2015 16:31 72	27/6/2015 11:01 71
30/5/2015 15:01 66	5/6/2015 9:31 67	10/6/2015 16:01 67	16/6/2015 10:31 73	22/6/2015 17:01 73	27/6/2015 11:31 69
30/5/2015 15:31 60	5/6/2015 10:01 64	10/6/2015 16:31 69	16/6/2015 11:01 72	22/6/2015 17:31 71	27/6/2015 12:01 54
30/5/2015 16:01 62	5/6/2015 10:31 67	10/6/2015 17:01 68	16/6/2015 11:31 72	22/6/2015 18:01 68	27/6/2015 12:31 69
30/5/2015 16:31 66	5/6/2015 11:01 67	10/6/2015 17:31 66	16/6/2015 12:01 66	22/6/2015 18:31 66	27/6/2015 13:01 69
30/5/2015 17:01 66	5/6/2015 11:31 66	10/6/2015 18:01 70	16/6/2015 12:31 67	23/6/2015 7:01 65	27/6/2015 13:31 70
30/5/2015 17:31 57	5/6/2015 12:01 65	10/6/2015 18:31 67	16/6/2015 13:01 68	23/6/2015 7:31 66	27/6/2015 14:01 72
30/5/2015 18:01 66	5/6/2015 12:31 64	11/6/2015 7:01 61	16/6/2015 13:31 70	23/6/2015 8:01 56	27/6/2015 14:31 69
30/5/2015 18:31 62	5/6/2015 13:01 67	11/6/2015 7:31 63	16/6/2015 14:01 69	23/6/2015 8:31 65	27/6/2015 15:01 71
1/6/2015 7:01 59	5/6/2015 13:31 57	11/6/2015 8:01 62	16/6/2015 14:31 70	23/6/2015 9:01 68	27/6/2015 15:31 69
1/6/2015 7:31 60	5/6/2015 14:01 67	11/6/2015 8:31 69	16/6/2015 15:01 70	23/6/2015 9:31 71	27/6/2015 16:01 72
1/6/2015 8:01 66	5/6/2015 14:31 58	11/6/2015 9:01 67	16/6/2015 15:31 69	23/6/2015 10:01 71	27/6/2015 16:31 69
1/6/2015 8:31 60	5/6/2015 15:01 66	11/6/2015 9:31 64	16/6/2015 16:01 68	23/6/2015 10:31 72	27/6/2015 17:01 68
1/6/2015 9:01 59	5/6/2015 15:31 67	11/6/2015 10:01 60	16/6/2015 16:31 68	23/6/2015 11:01 72	27/6/2015 17:31 72
1/6/2015 9:31 41 1/6/2015 10:01 65	5/6/2015 16:01 70	11/6/2015 10:31 60 11/6/2015 11:01 62	16/6/2015 17:01 67	23/6/2015 11:31 69 23/6/2015 12:01 66	27/6/2015 18:01 72 27/6/2015 18:31 66
1/6/2015 10:31 61	5/6/2015 17:01 67	11/6/2015 11:31 66	16/6/2015 17:31 61 16/6/2015 18:01 62	23/6/2015 12:31 70	
1/6/2015 11:01 62	5/6/2015 17:31 66	11/6/2015 12:01 63	16/6/2015 18:31 66	23/6/2015 13:01 69	Normal Day 19:00-23:00,
1/6/2015 11:31 66	5/6/2015 18:01 69	11/6/2015 12:31 63	17/6/2015 7:01 61	23/6/2015 13:31 69	Sunday & Holiday
1/6/2015 12:01 60	5/6/2015 18:31 69	11/6/2015 13:01 66	17/6/2015 7:31 63	23/6/2015 14:01 70	07:00-23:00
1/6/2015 12:31 62	6/6/2015 7:01 61	11/6/2015 13:31 62	17/6/2015 8:01 67	23/6/2015 14:31 68	
1/6/2015 13:01 70	6/6/2015 7:31 63	11/6/2015 14:01 65	17/6/2015 8:31 69	23/6/2015 15:01 74	28/5/2015 19:01 62
1/6/2015 13:31 73	6/6/2015 8:01 68	11/6/2015 14:31 66	17/6/2015 9:01 69	23/6/2015 15:31 75	28/5/2015 19:06 61
1/6/2015 14:01 72	6/6/2015 8:31 65	11/6/2015 15:01 64	17/6/2015 9:31 68	23/6/2015 16:01 74	28/5/2015 19:11 62
1/6/2015 14:31 72	6/6/2015 9:01 64	11/6/2015 15:31 66	17/6/2015 10:01 71	23/6/2015 16:31 76	28/5/2015 19:16 53
1/6/2015 15:01 71	6/6/2015 9:31 66	11/6/2015 16:01 69	17/6/2015 10:31 71	23/6/2015 17:01 77	28/5/2015 19:21 55
1/6/2015 15:31 70	6/6/2015 10:01 61	11/6/2015 16:31 65	17/6/2015 11:01 71	23/6/2015 17:31 76	28/5/2015 19:26 52 28/5/2015 19:31 62
1/6/2015 16:31 71	6/6/2015 11:01 71	11/6/2015 17:01 63 11/6/2015 17:31 65	17/6/2015 11:31 65 17/6/2015 12:01 65	23/6/2015 18:01 76 23/6/2015 18:31 74	28/5/2015 19:36 46
1/6/2015 17:01 72	6/6/2015 11:31 67	11/6/2015 18:01 60	17/6/2015 12:31 66	24/6/2015 7:01 63	28/5/2015 19:41 49
1/6/2015 17:31 72	6/6/2015 12:01 64	11/6/2015 18:31 66	17/6/2015 13:01 68	24/6/2015 7:31 66	28/5/2015 19:46 51
1/6/2015 18:01 73	6/6/2015 12:31 65	12/6/2015 7:01 63	17/6/2015 13:31 68	24/6/2015 8:01 70	28/5/2015 19:51 47
1/6/2015 18:31 65	6/6/2015 13:01 66	12/6/2015 7:31 63	17/6/2015 14:01 67	24/6/2015 8:31 76	28/5/2015 19:56 55
2/6/2015 7:01 61	6/6/2015 13:31 69	12/6/2015 8:01 67	17/6/2015 14:31 70	24/6/2015 9:01 75	28/5/2015 20:01 46
2/6/2015 7:31 62	6/6/2015 14:01 70	12/6/2015 8:31 56	17/6/2015 15:01 67	24/6/2015 9:31 74	28/5/2015 20:06 54
2/6/2015 8:01 54	6/6/2015 14:31 69	12/6/2015 9:01 57	17/6/2015 15:31 69	24/6/2015 10:01 76	28/5/2015 20:11 57
2/6/2015 8:31 68	6/6/2015 15:01 69	12/6/2015 9:31 67	17/6/2015 16:01 68	24/6/2015 10:31 75	28/5/2015 20:16 58
2/6/2015 9:01 69	6/6/2015 15:31 70	12/6/2015 10:01 65	17/6/2015 16:31 70	24/6/2015 11:01 75	28/5/2015 20:21 54
2/6/2015 9:31 70	6/6/2015 16:01 73	12/6/2015 10:31 66	17/6/2015 17:01 67	24/6/2015 11:31 74	28/5/2015 20:26 54
2/6/2015 10:31 68	6/6/2015 16:31 73	12/6/2015 11:01 68	17/6/2015 17:31 63	24/6/2015 12:01 69	28/5/2015 20:31 52
	6/6/2015 17:01 72	12/6/2015 11:31 61	17/6/2015 18:01 63	24/6/2015 12:31 68	28/5/2015 20:36 61
2/6/2015 11:01 66	6/6/2015 17:31 69	12/6/2015 12:01 64	17/6/2015 18:31 67	24/6/2015 13:01 73	28/5/2015 20:41 62
2/6/2015 11:31 67	6/6/2015 18:01 67	12/6/2015 12:31 64	18/6/2015 7:01 62	24/6/2015 13:31 74	28/5/2015 20:46 62
			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·

Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)	_		_
28/5/2015 20:51 61	30/5/2015 21:56 59	31/5/2015 15:01 59	1/6/2015 20:06 53	3/6/2015 21:11 61	5/6/2015 22:16 62
28/5/2015 20:56 62 28/5/2015 21:01 62	30/5/2015 22:01 58 30/5/2015 22:06 59	31/5/2015 15:06 60 31/5/2015 15:11 59	1/6/2015 20:11 53 1/6/2015 20:16 62	3/6/2015 21:16 48 3/6/2015 21:21 51	5/6/2015 22:21 40 5/6/2015 22:26 61
28/5/2015 21:06 62	30/5/2015 22:10 59	31/5/2015 15:16 58	1/6/2015 20:10 62	3/6/2015 21:21 51	5/6/2015 22:31 61
28/5/2015 21:11 59	30/5/2015 22:16 59	31/5/2015 15:21 59	1/6/2015 20:26 62	3/6/2015 21:31 52	5/6/2015 22:36 61
28/5/2015 21:16 62	30/5/2015 22:21 59	31/5/2015 15:26 60	1/6/2015 20:31 62	3/6/2015 21:36 61	5/6/2015 22:41 61
28/5/2015 21:21 62 28/5/2015 21:26 61	30/5/2015 22:26 59 30/5/2015 22:31 59	31/5/2015 15:31 60 31/5/2015 15:36 60	1/6/2015 20:36 61 1/6/2015 20:41 49	3/6/2015 21:41 62 3/6/2015 21:46 62	5/6/2015 22:46 61 5/6/2015 22:51 61
28/5/2015 21:31 61	30/5/2015 22:36 59	31/5/2015 15:41 59	1/6/2015 20:46 52	3/6/2015 21:51 61	5/6/2015 22:56 61
28/5/2015 21:36 44	30/5/2015 22:41 59	31/5/2015 15:46 60	1/6/2015 20:51 61	3/6/2015 21:56 55	6/6/2015 19:01 55
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Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)	_		_
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Real-time Noise Data 23/6/2015 20:21 62	RTN2a (Hong Kong Electric Centr 25/6/2015 21:26 62	<u>e)</u> 27/6/2015 22:31 61	29/5/2015 0:21 55	30/5/2015 1:26 57	31/5/2015 2:31 55
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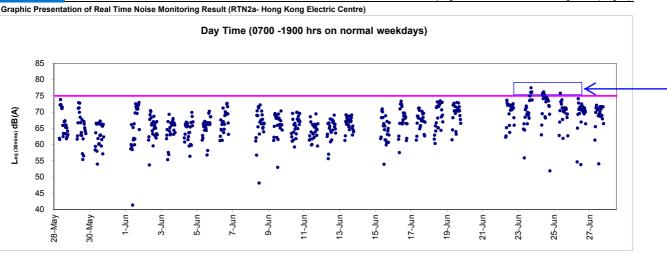
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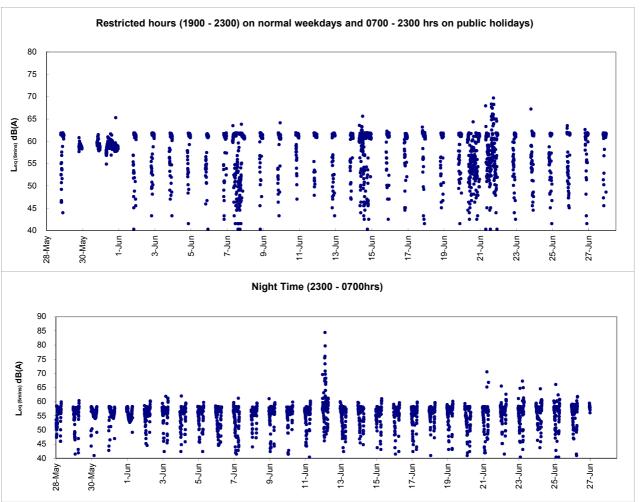
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22/6/2015 2:46 56	23/6/2015 3:51 57	24/6/2015 4:56 56	25/6/2015 6:01 53	26/6/2015 23:06 58
22/6/2015 2:51 57	23/6/2015 3:56 57 23/6/2015 4:01 58	24/6/2015 5:01 65	25/6/2015 6:06 54	26/6/2015 23:11 59 26/6/2015 23:16 59
22/6/2015 2:56 56 22/6/2015 3:01 56	23/6/2015 4:01 58 23/6/2015 4:06 57	24/6/2015 5:06 60 24/6/2015 5:11 46	25/6/2015 6:11 55 25/6/2015 6:16 55	26/6/2015 23:16 59 26/6/2015 23:21 59
22/6/2015 3:06 56	23/6/2015 4:11 57	24/6/2015 5:16 57	25/6/2015 6:21 56	26/6/2015 23:26 58
22/6/2015 3:11 57	23/6/2015 4:16 57	24/6/2015 5:21 58	25/6/2015 6:26 56	26/6/2015 23:31 58
22/6/2015 3:16 57 22/6/2015 3:21 56	23/6/2015 4:21 57 23/6/2015 4:26 57	24/6/2015 5:26 58 24/6/2015 5:31 58	25/6/2015 6:31 57 25/6/2015 6:36 58	26/6/2015 23:36 57 26/6/2015 23:41 58
22/6/2015 3:26 56	23/6/2015 4:26 57 23/6/2015 4:31 58	24/6/2015 5:31 56 24/6/2015 5:36 52	25/6/2015 6:36 58 25/6/2015 6:41 59	26/6/2015 23:46 58
22/6/2015 3:31 56	23/6/2015 4:36 58	24/6/2015 5:41 49	25/6/2015 6:46 59	26/6/2015 23:51 57
22/6/2015 3:36 57	23/6/2015 4:41 56	24/6/2015 5:46 48	25/6/2015 6:51 61	26/6/2015 23:56 56
22/6/2015 3:41 57	23/6/2015 4:46 67	24/6/2015 5:51 53	25/6/2015 6:56 61	27/6/2015 0:01 58
22/6/2015 3:46 57 22/6/2015 3:51 56	23/6/2015 4:51 60 23/6/2015 4:56 55	24/6/2015 5:56 51 24/6/2015 6:01 53	25/6/2015 23:01 59 25/6/2015 23:06 58	27/6/2015 0:06 56 27/6/2015 0:11 57
22/6/2015 3:56 56	23/6/2015 5:01 50	24/6/2015 6:06 60	25/6/2015 23:00 58 25/6/2015 23:11 59	27/6/2015 0:11 57
22/6/2015 4:01 56	23/6/2015 5:06 43	24/6/2015 6:11 57	25/6/2015 23:16 58	27/6/2015 0:21 57
22/6/2015 4:06 56	23/6/2015 5:11 46	24/6/2015 6:16 57	25/6/2015 23:21 58	27/6/2015 0:26 56
22/6/2015 4:11 57 22/6/2015 4:16 57	23/6/2015 5:16 58 23/6/2015 5:21 57	24/6/2015 6:21 57 24/6/2015 6:26 58	25/6/2015 23:26 57 25/6/2015 23:31 57	27/6/2015 0:31 58 27/6/2015 0:36 58
22/6/2015 4:10 57	23/6/2015 5:26 50	24/6/2015 6:31 58	25/6/2015 23:36 58	27/6/2015 0:30 36 27/6/2015 0:41 55
22/6/2015 4:26 42	23/6/2015 5:31 58	24/6/2015 6:36 59	25/6/2015 23:41 57	27/6/2015 0:46 56
22/6/2015 4:31 58	23/6/2015 5:36 48	24/6/2015 6:41 61	25/6/2015 23:46 56	27/6/2015 0:51 56
22/6/2015 4:36 57 22/6/2015 4:41 56	23/6/2015 5:41 46 23/6/2015 5:46 50	24/6/2015 6:46 59 24/6/2015 6:51 60	25/6/2015 23:51 57 25/6/2015 23:56 58	27/6/2015 0:56 55 27/6/2015 1:01 56
22/6/2015 4:41 56	23/6/2015 5:51 65	24/6/2015 6:56 60	26/6/2015 0:01 57	27/6/2015 1:06 55
22/6/2015 4:51 57	23/6/2015 5:56 60	24/6/2015 23:01 60	26/6/2015 0:06 56	27/6/2015 1:11 57
22/6/2015 4:56 57	23/6/2015 6:01 56	24/6/2015 23:06 58	26/6/2015 0:11 59	27/6/2015 1:16 56
22/6/2015 5:01 58 22/6/2015 5:06 57	23/6/2015 6:06 56 23/6/2015 6:11 56	24/6/2015 23:11 58 24/6/2015 23:16 58	26/6/2015 0:16 55 26/6/2015 0:21 56	27/6/2015 1:21 54 27/6/2015 1:26 55
22/6/2015 5:11 57	23/6/2015 6:16 61	24/6/2015 23:10 38	26/6/2015 0:26 54	27/6/2015 1:20 55
22/6/2015 5:16 57	23/6/2015 6:21 61	24/6/2015 23:26 57	26/6/2015 0:31 56	27/6/2015 1:36 55
22/6/2015 5:21 58	23/6/2015 6:26 59	24/6/2015 23:31 58	26/6/2015 0:36 55	27/6/2015 1:41 57
22/6/2015 5:26 58 22/6/2015 5:31 57	23/6/2015 6:31 60 23/6/2015 6:36 59	24/6/2015 23:36 57 24/6/2015 23:41 60	26/6/2015 0:41 52 26/6/2015 0:46 54	27/6/2015 1:46 53 27/6/2015 1:51 54
22/6/2015 5:36 58	23/6/2015 6:41 60	24/6/2015 23:41 60 24/6/2015 23:46 57	26/6/2015 0:51 53	27/6/2015 1:56 52
22/6/2015 5:41 48	23/6/2015 6:46 60	24/6/2015 23:51 56	26/6/2015 0:56 53	27/6/2015 2:01 52
22/6/2015 5:46 58	23/6/2015 6:51 60	24/6/2015 23:56 56	26/6/2015 1:01 52	27/6/2015 2:06 50
22/6/2015 5:51 50 22/6/2015 5:56 50	23/6/2015 6:56 60 23/6/2015 23:01 58	25/6/2015 0:01 57 25/6/2015 0:06 55	26/6/2015 1:06 50 26/6/2015 1:11 58	27/6/2015 2:11 53 27/6/2015 2:16 48
22/6/2015 6:01 54	23/6/2015 23:06 59	25/6/2015 0:00 55 25/6/2015 0:11 58	26/6/2015 1:16 49	27/6/2015 2:10 40 27/6/2015 2:21 52
22/6/2015 6:06 52	23/6/2015 23:11 59	25/6/2015 0:16 54	26/6/2015 1:21 47	27/6/2015 2:26 50
22/6/2015 6:11 53	23/6/2015 23:16 59	25/6/2015 0:21 54	26/6/2015 1:26 51	27/6/2015 2:31 57
22/6/2015 6:16 55 22/6/2015 6:21 58	23/6/2015 23:21 58 23/6/2015 23:26 58	25/6/2015 0:26 54 25/6/2015 0:31 54	26/6/2015 1:31 51 26/6/2015 1:36 50	27/6/2015 2:36 48 27/6/2015 2:41 49
22/6/2015 6:26 63	23/6/2015 23:31 58	25/6/2015 0:36 50	26/6/2015 1:41 39	27/6/2015 2:46 48
22/6/2015 6:31 61	23/6/2015 23:36 58	25/6/2015 0:41 53	26/6/2015 1:46 58	27/6/2015 2:51 42
22/6/2015 6:36 59 22/6/2015 6:41 60	23/6/2015 23:41 57	25/6/2015 0:46 55 25/6/2015 0:51 51	26/6/2015 1:51 58 26/6/2015 1:56 58	27/6/2015 2:56 51 27/6/2015 3:01 51
22/6/2015 6:41 60 22/6/2015 6:46 59	23/6/2015 23:46 56 23/6/2015 23:51 57	25/6/2015 0:51 51 25/6/2015 0:56 48	26/6/2015 1:56 58 26/6/2015 2:01 50	27/6/2015 3:01 51 27/6/2015 3:06 58
22/6/2015 6:51 60	23/6/2015 23:56 58	25/6/2015 1:01 51	26/6/2015 2:06 47	27/6/2015 3:11 58
22/6/2015 6:56 61	24/6/2015 0:01 58	25/6/2015 1:06 47	26/6/2015 2:11 50	27/6/2015 3:16 58
22/6/2015 23:01 58	24/6/2015 0:06 58 24/6/2015 0:11 58	25/6/2015 1:11 52 25/6/2015 1:16 58	26/6/2015 2:16 58 26/6/2015 2:21 58	27/6/2015 3:21 39
22/6/2015 23:06 57 22/6/2015 23:11 58	24/6/2015 0:11 58 24/6/2015 0:16 57	25/6/2015 1:16 58 25/6/2015 1:21 50	26/6/2015 2:21 58 26/6/2015 2:26 58	27/6/2015 3:26 42 27/6/2015 3:31 58
22/6/2015 23:16 58	24/6/2015 0:21 58	25/6/2015 1:21 50 25/6/2015 1:26 58	26/6/2015 2:31 56	27/6/2015 3:36 47
22/6/2015 23:21 61	24/6/2015 0:26 56	25/6/2015 1:31 55	26/6/2015 2:36 59	27/6/2015 3:41 58
22/6/2015 23:26 58 22/6/2015 23:31 56	24/6/2015 0:31 56 24/6/2015 0:36 57	25/6/2015 1:36 66 25/6/2015 1:41 58	26/6/2015 2:41 56 26/6/2015 2:46 54	27/6/2015 3:46 39 27/6/2015 3:51 58
22/6/2015 23:36 56	24/6/2015 0:36 57 24/6/2015 0:41 56	25/6/2015 1:41 58 25/6/2015 1:46 55	26/6/2015 2:46 54 26/6/2015 2:51 50	27/6/2015 3:51 58 27/6/2015 3:56 58
22/6/2015 23:41 55	24/6/2015 0:46 54	25/6/2015 1:51 43	26/6/2015 2:56 58	27/6/2015 4:01 58
22/6/2015 23:46 57	24/6/2015 0:51 55	25/6/2015 1:56 51	26/6/2015 3:01 57	27/6/2015 4:06 58
22/6/2015 23:51 55 22/6/2015 23:56 56	24/6/2015 0:56 55 24/6/2015 1:01 55	25/6/2015 2:01 49 25/6/2015 2:06 40	26/6/2015 3:06 58 26/6/2015 3:11 58	27/6/2015 4:11 58 27/6/2015 4:16 58
23/6/2015 0:01 55	24/6/2015 1:06 46	25/6/2015 2:06 40 25/6/2015 2:11 58	26/6/2015 3:11 56 26/6/2015 3:16 57	27/6/2015 4:16 56 27/6/2015 4:21 57
23/6/2015 0:06 56	24/6/2015 1:11 52	25/6/2015 2:16 58	26/6/2015 3:21 57	27/6/2015 4:26 58

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After checking with Contractor of HY/2009/19, pile cap breaking works was conducted on 23, 24 June 2015; and pile cap excavation works was conducted 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented for the breaking works by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers.

# Appendix 6.1

**Event Action Plans** 

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

EVENT		AG	CTION	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. 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)	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	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)

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EVENT		AC	CTION	
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> <li>5. Carry out analysis of Contractor's working procedures;</li> <li>6. Discuss with the IEC, Contractor and ER on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	Discuss amongst ER, ET, and Contractor on the potential remedial actions;     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.  (The above actions should be taken within 2 working days after the exceedance is identified)	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> <li>The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>

Event / Action Dian for Construction Air Quality

EVENT		ACTION		
EVENI	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
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				
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 IEC within 3 working days of notificatio 3. Implement the agreed proposals;     Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
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 t IEC within 3 working days of notification 3. Implement the agreed proposals;     Resubmit proposals if problem still not under control;     Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 workin 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.	<ol> <li>Carry out investigation to identify the source/reason of exceedance;</li> <li>Rectify any unacceptable practice</li> <li>Implement more mitigation measures if necessary;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>
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.	<ol> <li>Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks;</li> <li>Rectify any unacceptable practice;</li> <li>Formulate remedial actions;</li> <li>Ensure remedial actions properly implemented;</li> <li>If exceedance continues, consider what more/enhanced mitigation measures shall be implemented;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>

### Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N179	5-Jun-15	10:35	M6 - HK Baptist Church Henrietta Secondary School	68	Leq(30-min)	when one documented complaint was received.	65	Action taken / to be taken: Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.  Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.  No construction work was conducted under Contract HY/2009/19 around the concerned location during the time of measurement 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.



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N182	16-Jun-15	10:40	M6 - HK Baptist Church Henrietta Secondary School	68	Leq(30-min)	when one documented complaint was received.	65	Action taken / to be taken: Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.  Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.  No construction work was conducted under Contract HY/2009/19 around the concerned location during the time of measurement 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.



Ref. No	). [	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10		9-Jun-15	15:35	M6 - HK Baptist Church Henrietta Secondary School		Leq(30-min)	when one	65	Possible reason:  Action taken / to be taken:  Remarks / Other Obs:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.  Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure.  No construction work was conducted under Contract HY/2009/19 around the concerned location during the time of measurement 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.
										monitoring. It is concluded that the exceedance was not due to project but to traffic hoise hearby.

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Defen	ID-4-	T: 4-1	lı #	D 41-	Demonstrum (Ulmit)	Manager	A -4: 1 1	Limit Lavad	F-11	
Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)		Action Level		Follow-up action	Describle in colleges to the construction of all observe
X_10D513	28-May-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.14	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine work was conducted at Ex-WPCWA on the monitoring date and upstream discharge at the concerned location were consistently observed. In view of no marine work activity was conducted and no
										exceedance on the subsequent monitoring, it was considered the exceedance was not related to Project.
X_10D514	5-Jun-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.80	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine work was conducted at Ex-WPCWA on the monitoring date and upstream discharge at the concerned location were consistently observed. In view of no marine work activity was conducted and no exceedance on the subsequent monitoring, it was considered the exceedance was not related to Project.
X_10D515	8-Jun-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.10	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine work was conducted at Ex-WPCWA on the monitoring date and upstream discharge at the concerned location were consistently observed. In view of no marine work activity was conducted and no exceedance on the subsequent monitoring, it was considered the exceedance was not related to Project.
X_10D516	10-Jun-15	Mid-flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.75	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine work was conducted at Ex-WPCWA on the monitoring date and upstream discharge at the concerned location were consistently observed. In view of no marine work activity was conducted and no exceedance on the subsequent monitoring, it was considered the exceedance was not related to Project.
X_10D517	17-Jun-15	Mid-ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.77	3.19	3.10	Possible reason:	Possible in relation to the upstream organic discharge.
									Action taken/ to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checking with contractor works and review previous monitoring data.
									Remarks/ Other Obs:	No marine work was conducted at Ex-WPCWA on the monitoring date and upstream discharge at the concerned location were consistently observed. In view of no marine work activity was conducted and no exceedance on the subsequent monitoring, it was considered the exceedance was not related to Project.
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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C630	10-Jun-15	Mid-ebb	C7	DO(mg/l)	4.04	3.02	2.44	Possible reason:	Temporary water pipe midification works for the diverted cooling water supplies system.
				Turbidity	31.36	11.35	12.71	Action taken/ to be taken:	Immediate repeated in-situ measurement had conducted to confirm the exceedances. Checking with contractor works and review previous monitoring data.
				SS	73.50	18.42	27.54		No marine works was conducted in the vicinity of the water quality monitoring station under Contract HY/2009/15 on the monitoring date. While water pipe modification works for the diverted seawater intake was conducted under Contract HY/2010/08 on the monitoring date. Contractor clarified the seawater supplies to respective cooling water intake pump station for Windsor House was temporary suspended. In addition, no further exceedance was recorded on 17 July 2015 after the resumption of water supplies. In view of the above, the respective cooling water intake was considered not affected by project works.

Appendix 9.1

Complaint Log

# Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	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).	'	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 <sup>th</sup> 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	A public complaint and enquiry regarding loud noises emanated 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 <sup>th</sup> Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status						
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the		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.	Closed						
	23330	233384048)		hours 1900 to 0800 and request to reduce the noise level.	2)	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.							
					3)	No further complaints were received in the reporting month. The complaint is considered closed.							
100731	31/7/2010	Mr. Lee received by ICC (CC Case:		Complaint on the noise nuisance due to the dredging works.	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed						
	1-250702681)	1-250702681)	1-250702681)	1-250702681)	1-250702681)	1-250702681)	1-250702681)	1-250702681)		Three construction plants were operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
					3)	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.							
					4)	It is considered as invalid from the EP and CNP point of view. $ \\$							
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	1)	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.	Closed						
			works area adjacent to the Harbour Height during the period from 0700 to 2200.	2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 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.							



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status	
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	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	
						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	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed	
					2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.		
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.		
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed	
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.		
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.		
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City		Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint:  • It was referred to the filling operation at North Point	Closed	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spotlight 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.  2) 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;  3) 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;  4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.  5) 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;  6) 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.	<ol> <li>The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</li> <li>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.</li> <li>It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</li> <li>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</li> <li>The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint		tcome	Status
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.	1) 2) 3)	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.  It is considered as invalid complaint under this Project.	Closed
Vict Mar	6/2011 Mr. Law from Victoria Centre Management Office	Victoria Centre Management Office  Generating from the discharge point — Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.  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.	Closed		
					3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
					4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylonwire 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.	Closed
					4)	Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	',	ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) 2) 3)	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.  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
					5)	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.  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 2, Victoria Centre by ICC no. 1- 304013959	North Point	Reclamation work was 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 to the vicinity of the residents in early morning	1) 2) 3)	It was referred by AECOM to ET on 8 August 2011 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 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.  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.	Closed
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	2)	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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826 26/08/2011	26/08/2011	Grand Hyatt and a complainant by ICC	nuisa y nuisa work and	nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1)	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	
					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
						<ul> <li>An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul>	

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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					team), contractor of HY/200911 and HY/2009 IECon 29 August 2011. Inspection report of it submitted to RSS on 19 September 2011.	
					<ul> <li>Daily cleaning near the water intake was con twice a day by contractor HY/2009/19.</li> </ul>	ducted
					<ul> <li>In response to City Garden request, the cont have set up the temporary garbage defender function and collect the floating refuses, but of eliminate all refuses, in particular the refuse of from the seabed</li> </ul>	in cannot
					<ol> <li>According to the complaint letter from Cayley Pro the outcomes of the preventive measures were n complying wih their expectation.</li> </ol>	
					During on-site inspection, floating refuses observ occasionally outside the garbage defender. No co- could be made for the source of these floating ref the other hand, some of the refuses were observ- floating behind the garbage defender during inve-	onclusion fuses. On ed
					<ol> <li>All daily cleaning actions had been taken by cont minimize floating refuse inside the construction s</li> </ol>	
					It was noted that the cooling water intake was ac to the public. As such, fish breeding and fishing a were observed even though a notice has already Also, tripping of rubbish by the passers-by could a lot of rubbish accumulated around the intake po	ctivities hoisted. result in
					Referring to the record provided by CPML, there lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the put activities.	t
					7) Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded dur Water Quality Monitoring. It is consider the cause complaint is not related to project and environme issue in this project as well. No more complaint re after ad-hoc inspection	of this ntal
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) RSS notified ET to carry out investigation on 17 (2011. 2) ET confirmed with the Resident Site Staff that the of the excavator was within site area of Contract HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The pincluding the excavator have been checked before	location no.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.	
					After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.	
					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.	<ol> <li>ET confirmed with the Resident Site Staff that         <ul> <li>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.</li> <li>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.</li> </ul> </li> <li>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.</li> </ol>	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
	·				from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	1) RSS notified ET on 8 March 2013 2) 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.  3) 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.	WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014.  ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and	Interim Report was submitted to EPD on 20 June 2014.



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need.  5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	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



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14  EPD complaint received by ET on 10 November 2014	Construction site at old Wan Chai Ferry Pier	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.	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). 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.  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).  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.  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 onsite. 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.	Interim investigation report submitted to EPD on 17 November 2014.  EPD advised no comment on the interim report and case closed on 1 Dec 2014.

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Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02)  ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.  According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated.  In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair.  Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating onsite 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	Interim report submitted to EPD on 9 February 2015

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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	moored 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 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 away from site on 15 June 2015,17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly	

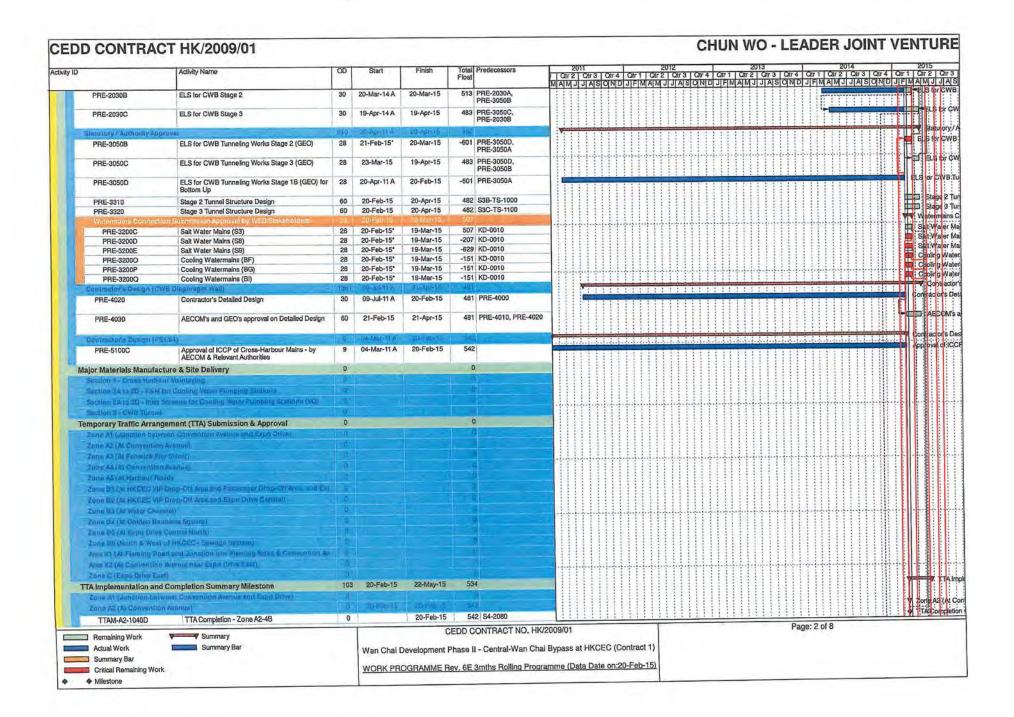


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 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.	

# Appendix 10.1

**Construction Programme of Individual Contracts** 

ID	Activity Name	OD	Start	Finish	-	II B							•	,,,,	514	***	-		ADE	-n	JOI	NI	VEN	1
	1	00	Start	Prisn	Floa		Ta	2011 r 2   Qtr	3   Qtr	4 Qtr	1 Ctr	2012 2   QI	3 Qtr	4 0	tr 1 T C	201 tr 2	Otr 3 T	Otr 4	Otr 1	Ofr 2	10113	Ott A	Oted I	01
K/2009/01 -Revised Works	Programme Updated (Data Date: 20-Jan-1/	1926	6 04-Mar-11 A	18-Aug-15	42	8	MIAIN	MIJIA	SION	DJF	MAIN	JJ	ASON	DJ	FMA	MJ.	AS	OND	JFM	AMJ	JAS	OND	Qtr 1	M
Key Dates (Contractual)		48	20-Feb-15	02-Apr-15	58	9	11						H		111	11		11		H			111	
KD-0300	Completion of Section 3 of Works - CWB, Slip Roads 2 & 3 & Works in Area 8	0	281 30-15	11-Mar-15*		0 KD-0305, PRE-4050																		Maj
KD-0400B	Completion of Outstanding Works for Section 4 - Salt Watermains	0		02-Apr-15	50	TTAM-86-1030B, TTAM-A2-1040D, TTAM-A3-1090B, TTAM-A5-1050B,																	• 0	Con
KD-0610	Completion of Section 6A of Works - Gov't Offices cooling water discharge	0		20-Feb-15*	-122	TTAM-B6-1090B. TTAM-B6-1090B. TTAM-C2-1100B. TTAM-X3-1000B, KD-0615, TTAM-C2-1100B	-									<u> </u>							<b>G</b> CO	ple
KD-0620	Completion of Section 6B of Works - Great Eagle Centre cooling water discharge	0		20-Feb-15*	-122	2 KD-0625, TTAM-C2-1100B, TTAM-X2-1020B, TTAM-C2-1100B																	• • • • • • • • • • • • • • • • • • • •	ple
KD-0630	Completion of Section 6C of Works - China Resources Bldg cooling water discharge	0		20-Feb-15*	-122	TTAM-C2-1100B, TTAM-X2-1020B, KD-0635, TTAM-C2-1100B																	<b>G</b> OI	ple
KD-0800	Completion of Section 8 of Works - Works in Area 6	0		20-Feb-15*	-105	KD-0805												Ш					Ш	
KD-1200	Completion of Section 12 of Works - Works in Area	0		20-Feb-15*	-316	KD-1205												Ш					Con	ple
KD-1300	Completion of Section 13 of Works - Works in Area	0		20-Feb-15*	-29	KD-1305	H		$\mathbb{H}$	+++	+++	#		-	₩.		44	444	444	44.	44	Ш	Gor	1
Landscaping in the state than	int Works	0			-		111		111							111	11		111	111	111	Ш	110"	Diel
Key Dates (Forecast Compl	etion)	135	20-Feb-15	18-Jun-15	501		111			111	111			11	Ш		11				111	Ш		1
KD-0406B	Completion of Outstanding Works for Section 4 - Salt Watermains & Works in Area 3	0	70-15	20-Feb-15	542	\$11-4030, \$4-2520, \$4-4060, \$4-4000, \$4-1500, \$4-4070, \$4-4050, \$4-2500,						***************************************											<b>↓</b> Gor	
KD-0615	Completion of Section 6A of Works - Gov't Offices cooling water discharge	0		18-Jun-15	-241	S4-4080, S4-4010, S6-1030, S6A-2010,	#	+++	H	##	H	<b>!!</b> -	44	44	<b>.</b>		ij.			444	44.	IJ.		
KD-0625	Completion of Section 6B of Works - Great Eagle Centre cooling water discharge	0		18-Jun-15	-241	S6A-2030B S6B-2000, S6-1030, S6B-2020B																		
KD-0635	Completion of Section 6C of Works - China Resources Bldg cooling water discharge	0		18-Jun-15	-241	S6C-2000, S6-1030, S6C-2020B																		
KD-0805	Completion of Section 8 of Works - Works in Area 6	0		22-May-15	-196	S8-3000			Ш															
KD-1205	Completion of Section 12 of Works - Works in Area 10	0		28-Feb-15*	0	TTAM-A4-1050C, S12-1000, TTAM-A4-1020B, VO106-1000,																	- Con	plet
KD-1305	Completion of Section 13 of Works - Works in Area 11	0		28-Feb-15*	0	VO106-1000A S3A-TS-1050, S13-1000, S13-3000, S13-2000, VO106-2000, VO106-2000A																	Col	plet
Conducining & Cambinshian Possession of Site	nt Works	0			- 4																			
Preliminaries			04-Mar-11 A	21-Apr-15	481			111	Ш				Ш		11									
PRE-2000G	D-Wall Construction for CWB Tunnel (Stage 3)	60	05-Nov-13 A	20-Feb-15*	-426	PRE-2000E		ļļ.ļ.															9 10 24	Pre! Vieri
Remaining Work	Cimpain							111				Ш								M			D-W	il c
Actual Work  Summary Bar  Critical Remaining Work	Summary Bar		Wan Chai De			NTRACT NO. HK/200 Central-Wan Chai By		HKCE	C (Co	ntract 1	)						F	age:	1 of 8				andi I	



	Activity Name	OD	Start	Finish	Total	Predecessors		2011			2012	CH							
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TTAM-A3-1030	TTA Completion - Combination of Zone A3-5D &	JE SE	18/MV 15	(Indian-1)	167			110	3,40	- I IW A	M U U A	SIGNIO	JIFIMIA	MAIA	ISION	DIJFI	LMAN	JASON	DIJIFIMA
	A3-4D (Sewer)	0		19-Mar-15	-195	S8-1030			1111				1111	111		111			
TTAM-A3-1040	TTA Implementation - Zone A3-2C (Sewer)	0	19-Mar-15		-195	TTA-A3-6050,		111					1111	111					
TTAM-A3-1050	TTA Completion - Zone A3-2C (Sewer)	0		26-Apr-15	-	TTAM-A3-1030		111						111		111			12
TTAM-A3-1060	TTA Implementation - Zone A3-2D (Sewer)	0	26-Apr-15	EO-MPI-13	-196	S8-1040 TTA-A3-6060,	1111	111				1111	1111			111			
TTAM-A3-1070	TTA Completion - Zone A3-2D (Sewer)	0		16-May-15		TTAM-A3-1050										111	1111		
TTAM-A3-1090B	TTA Completion - Zone A3-5C - Salt Water	0		26-Mar-15		S8-1050 S4-2520, S4-2120					TITI	TITI	TITT			Tir	iiii	TITH	
TTAM-A4-1120B	TTA Completion - Zone A4-2C	3.	St. Autolic	CO-April 16	-207							1111				111		11111	H
Zone As (Al Harbour Ro	nut)	0	102-Apr-15	02-Apr-15	-207	S4-1000, S4-1520				1111						111			
TTAM-A5-1050B	TTA Completion - Zone A5-6	0		02-Apr-15	500	S4-1100, S4-1510,		1-1-4		+	1.1.1.1	4-1-4-1	4444	144.	.i.i.i	44.		4444	
Zons B1 (ACHKCEC VIR	Ozop-Off Jana and Passanger Deop-Off Ann. and Est	No. of London				S4-1520	411					1111	1111						
SOUR BY THE PEC AID	Drop-Off Area and Expe Stree Cartroll									HIII						111		111111	
Zone B3 (At Water Chan Zone B4 (At Golden Base	nul):	0			- 11		111	111			1111			111					
Zone HS (Al Espo Drive	Seriod North	0			-14														
Zone 55 (North & Warr )	r PKCED - Smirgir System)	6												m	111	TIT	Tit	TITI	
Army of Pluming Rand &	W Harbour, Road & Dansentton Manuel	13	Celebrath.	(Effective)	THE														
TTAM-X3-1000B TTAM-X3-1010B	TTA Completion - Zone X1-1 TTA Completion - Zone X1-2	0		09-May-15		S6A-1200, S9-5500A			HH		Ш					111	111		
TTAM-X3-1020B	TTA Completion - Zone X1-3	0		09-May-15 22-May-15		S9-5500B, S6A-1210	-1.1.1.	111					IIII						
Arms X2 (Junction butwo	onFlaming Road and Convention Avegue	0		EE-Widy-15	430	S9-5500C, S6A-1220													
TTAM-C3-1000B	TTA Completion - Zone C3-1	n	25 mag att	22 No. 15	450		111								111				
	The only easi - Zone os-1	0		22-May-15	17	S6B-1220, TTAM-C3-1000A,		Ш			Ш						111		
ial Pit Construction Sch	edule	0				S6C-1600, S6A-1240													
ection 1 of the Works - C	cross Harbour Watermains, Works in Area 1 & 2	0			0			J.J.J.	11.1.1	1.1.1.1					111.		111		
Bullmarine Section (CHA	© CH(B)	2			100		111								111				
CHAIR CHR SOUTE 116	D (Wan Chai Sidn)																		
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Testing & Commission					_ "												111		
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Actual Work	Summary Bar		Non Chair												Page	: 3 of 8			
Summary Bar Critical Remaining Work						Central-Wan Chai By													
Milestone		7	WORK PROG	RAMME Rev.	6E 3mt	hs Rolling Programm	e (Data	Date o	n:20-Fe	b-15)									

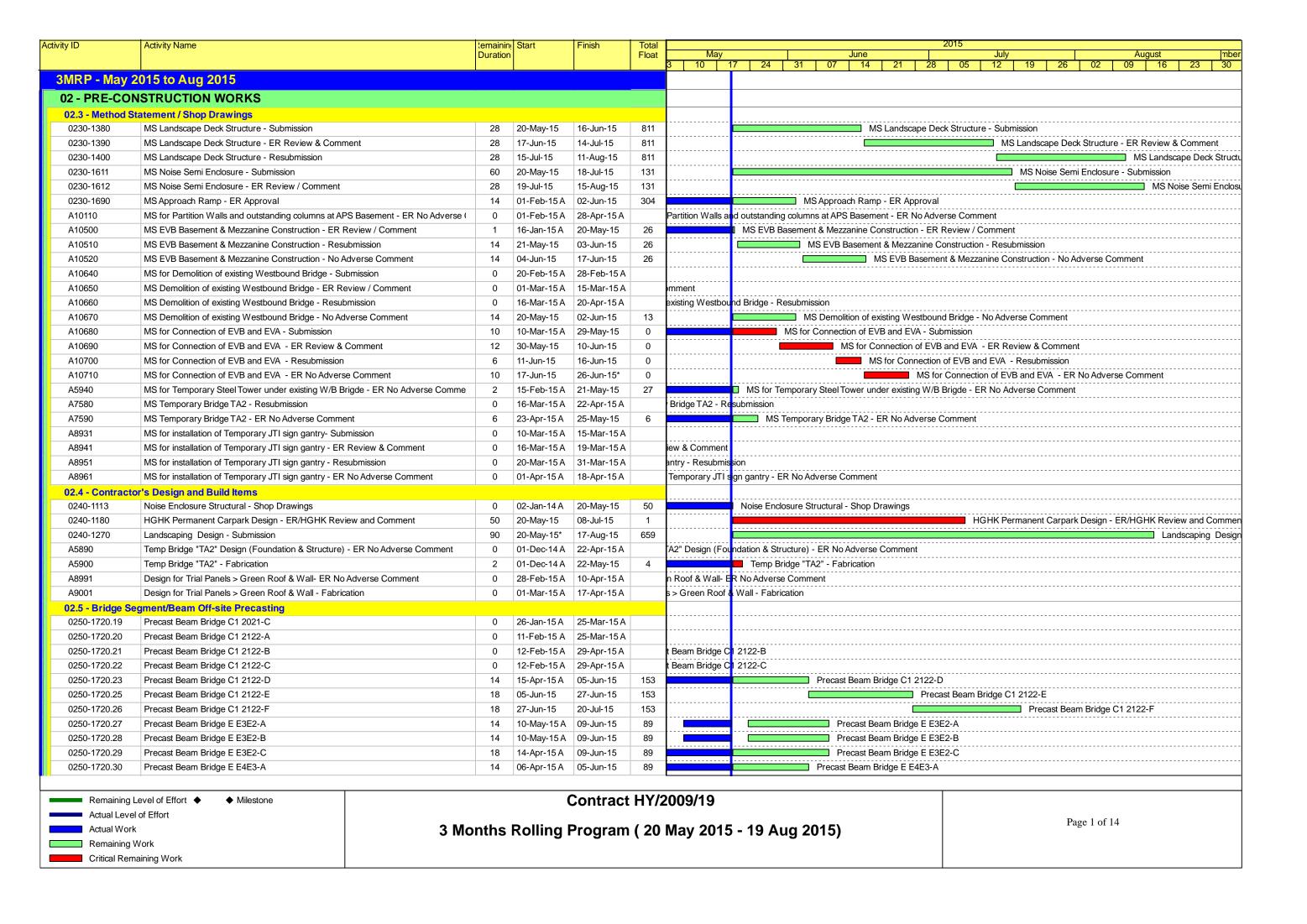
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ID	Activity Name	OD	Start	Finish	Total Float	Predecessors	I Qtr 2	Qtr 3	Qtr 4	Otr 1	Qtr 2 Q	Str 3 1	Qtr 4	Otr 1	Qtr 2	Olr 3	Otr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Otr 1	Otr 2	J
ESM Works		Ú,			- 1																			
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EAM Works		0.			- (1														111	Ш				
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	orks for Sections 2A, 2B, 2C & 2D (LV Switch Board at H	0 452	27-Jun-14 A	25-Jul-15	458			111		111	111	111								V		-	#	-
	Vorks - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8 Works (Steps 1 : CH2947 - CH3045)	452	27-Jun-14A	10-Rap-15	400																	V	ИВ	Tu
Pipo Prie Wall	**************************************	0.1						TIT	111	Ti	Tit								TII	m				
	amation Works (Matino Channigo : CHG - CHT20)				- 0						111	111	111	111					111					
	ndation Works (CH29)? - CH3065 / CH0 - CH120)	Ē			l.						111	111	111	111	111				111					
Contract of the Contract of th	Works at Stage 1A (Top Down Method : CH2947 - CH2988)	0			0			111		111	111	111	111						111	111	1111			
A STANISH OF THE RESIDENCE OF THE RESIDE	Works at Stage 18 (Bottom Up Method : CH2988 - CH3045)	0						++++	4			+++		++-				111	111	1-1-1-	1111			
	wation Works (C)(2947 - Ch 3045) Works at Stage 1A (For Top Slab Construction : CH2947 - C	0		-				111								Н		Ш	111	111	1 111			П
The second second second second	Works at Stage 1A & 1B (For Bottom Slab Construction : C)	0			-			111				111	111				111	111	111	111	1 111			
The second secon	nel Structure Works (Bay 1 to Bay 7   Ch2847 - Ch 3045)	1	18- mi 15 A		206		111								411				111	111	1 111	4-4	tage	e 1 -
	icture at Stage 1A (Top Slab Construction : CH2947 - CH2988	) 0		200				111										1.1.1	1.1.1	1.1.1	1.11			
Tunnel Sire	icture at Stage 1A & 18 (CH2947 - CH3045)	30	19-Jan-15 A	10 May-15	180	Maria Carlos Car						111	111				111	111	111	111		TI	uh n ar ki	ne S
S3A-TS-	2080 Backfilling to formation level for Stage 1B (CH 80 to CH 120)	30	19-Jan-15 A	10-Mar-15	183	S3A-TS-1060, S3A-TS-2000														Ш				
Stoom 2 - Belle	Works (Singe 2 - ch3045 - Ch3129) Invation Works (Marine Challuge   CH120 - CH225)	452	A Formacks	Sin-Jun Tin-	425																			
Stage 2 - Fau	ndation Works (Battom Up Method - CH3045 - CH3129   CH1	120	27-110-16A	125-200-45	Jac		.i.i.i					1.1.		.11.				1.1.1	1.1.1	V	.)(4)		111	7 S
S3B-FW-10	(~5,0mPD)	170	27-Jun-14 A	10-Jun-15	386	S3B-FW-1040B, S3B-TS-2000A																	Щ	
The state of the later of the l	syation Works (For Bottom Slab Constitution : CH8045 - CH	. 22	19-Dec-14 A	27-May-15	220	9 S3C-EW-1010E	-111							11				111		111	1 111			3 <b>1</b> 2 H
S3B-EW-10	10	32	06-Nov-14A	27-May-15	-10	9 S3B-EW-1000E	-																	. 10
S3B-EW-10	Ch3129	35	00-100-1474	27-May-10	00.	000-211-10002																v		4
S3B-TS-10	AB STITEMEN WORKS (Bay 7 to Sey TO 1 CH3(W5 - CH3(V8))  Bay 9 Base Slab	14	27-Jan-15 A	05-Mar-15	-14	1 S3B-TS-1020			H	itt	III	Ti					T	Til		m	Till		11 10	918
S3B-TS-10	40 Bay 10 Base Slab	14	03-Jun-15	16-Jun-15	38	1 S3B-EW-1000E	- 11										111	111		111	1 11			0
S3B-TS-10			09-Feb-15A	15-Mar-15		1 S3B-TS-1010, S3B-TS-1020, S3B-TS-1030																	Ret	nora
S3B-TS-10	60 Bay 7 & 8 Wall	14	16-Mar-15	29-Mar-15	-14	1 S3B-TS-1050						11					111						i ii	y
S3B-TS-10		14	21-Mar-15	03-Apr-15	-14																		- B	
S3B-TS-10	80 Construction of Exhaust Duct (CH2988 - CH3045)	45	11-Jun-15	25-Jul-15	38	6 S3B-FW-1040C																		1
Remaining Wor	k Summary			C	EDD C	CONTRACT NO. HK	2009/01										Pag	ge: 4 t	8 10					
Actual Work	Summary Bar		Wan Chai D	evelopment F	hase I	I - Central-Wan Cha	i Bypass	at HKC	C (Co	ntract	1)													
Summary Bar																								
Critical Remain	ing Work		WORK PRO	GRAMME R	ev. 6E	3mths Rolling Progr	amme (D	ata Date	on:20	-r-eb-1	51													

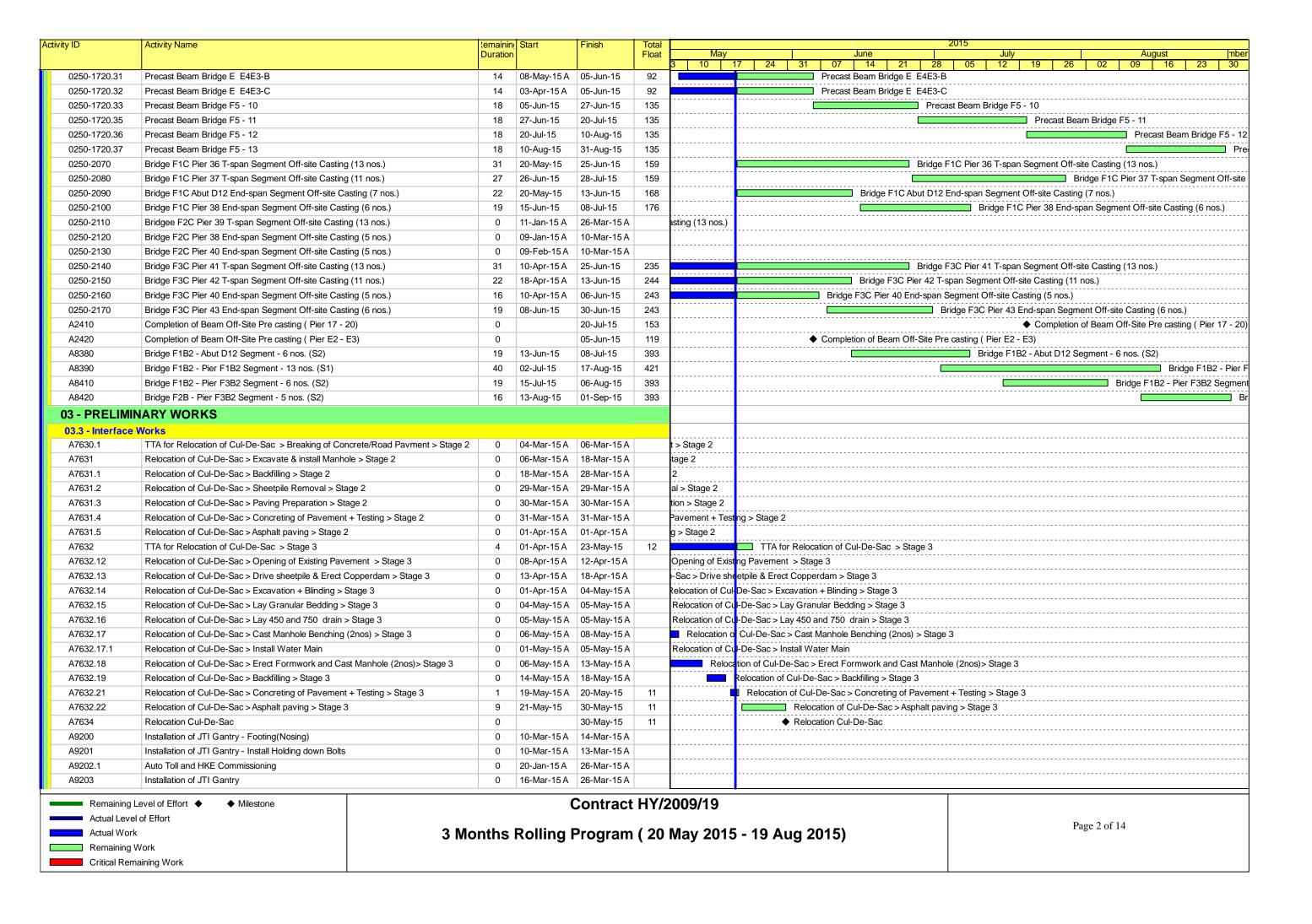
Activity Name	JOINT VEN
SSB-TS-1000   Beadling of Education Side From Jon 19 - Sept D   10   SA-April 5   12-Jun 15   -14   SSB-TS-1000	14
Sale 1-9-1100   Conference of Company   Comp	JASOND JEM
SSB-TS-1100   Buy Y & B Wall and CHYO Date Stab   10   30-Mart-15   30-Apr-15   4-99   53817-1-100   53817-1-1100   53817-1-	
SSB-TS-1150 Buy 7 & B. CHVID Wall Stem and Buy 7 to 8 Tory Sibb 10 06-Apr-15 19-Apr-15 494 SSB-TS-1110 SSB-TS-1140 Buy 9 CHVID Wall Stem and Buy 9 Top Sibb 10 06-Apr-15 19-Apr-15 494 SSB-TS-1110 SSB-TS-1140 SSB-TS-1140 Construction of Enhant Day 10 Top Sibb 11 14-Apr-15 23-Apr-15 499 SSB-TS-1110 SSB-TS-1160 SSB-TS-1160 Construction of Enhant Day 10 Top Sibb 14 13-Jun-15 2-Apr-15 149 SSB-TS-1110 SSB-TS-1160 SSB-TS-1160 Construction of Enhant Day 10 Top Sibb 14 13-Jun-15 2-Apr-15 149 SSB-TS-1100 SSB-TS-1160	
Sab-Ts-1140	
SSB-TS-1160  Construction of Sip Road 2 & 3 Base Slab  14 13-Jan-15 25-Jun-16 -141 SSB-TS-1100 SSB-TS-1000 SSB-TS-1100 SSB-TS-1000 SSB-TS-1100 SSB-TS-1100 SSB-TS-1000 SSB-TS-1000 SSB-TS-1100 SSB-TS-1000 SSB-TS-10000 SSB-TS-1000 SSB-TS-1000 SSB-TS-1000 SSB-TS-1000 SSB-TS	
SSB-TS-1600 Construction of Silh group 2 & 3 Base Sibb 14 13-Abr-15 26-Abr-15 -141 SSB-TS-1000 SSB-TS-	
Contriction of Exhaust Duct (CH9045 - CH3129)   48	
SSC-EW-1010E   SSC-EW-1010E   SSC-EW-1010E   SSC-EW-1010E	
Sape   Securition   Sape   Securition   Sape   Securition   Securities   Securiti	
Discharge Pipelines Outstall and Sewall Construction   0	
Demothtion Works - Stage 2	
Demoltion Works - Stage 3	
Single 1 Foundation Works   Charge	
Single 3   Foundation Works   Cost 23   Critical 23   Cr	141111111
Stock   Excession   Works   Stock	
Signature   Stage 3   Signature   Signatur	
S3C-EW-1010   Excavation to -4.0 mPD (approx 26,600m3)   96   18-Dec-14A   31-Mar-15   -236   S3C-FW-1040B, PRE-2030C, S3C-EW-1010B   Installation of Dewatering Well (45nos.) and Pumping Test   45   12-Dec-14A   08-Apr-16   -242   PRE-2030C, S3C-EW-1010E   S3C-EW-1010E   Excavation to -16mPD (approx 55,000m3)   80   07-Apr-15   25-Jun-15   -242   S3C-EW-1010   S3C-EW-1010   S3C-EW-1010   S3C-EW-1010B   S3C	
Including strut/waling Installation   Section   Sectio	
S3C-EW-1010B	
SSC-EW-1010E   Excavation to -16mPD ( approx 55,000m3)   80   07-Apr-15   25-Jun-15   -242   S3C-EW-1010, S3C-EW-1010B	
Except   Construction   Stage 3A & 3B   For Bottom Stab Construction   Cit   Color	
Tunnel Structure at Stage 3A (Top Stab Construction (CH3165 - CH3246)   0   0   0	
Tunnel Structure at Stage 3A (Fop State Construction a CH3185 - CH3246) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
S3C-TS-2000   Bay 11 Slip Road 3 Sump Pit Base Slab   14   06-Jun-15   19-Jun-15   329   S3C-EW-1010E   S3C-E	
S3C-TS-2000F   Bay 11 CWB Base Slab   14   27-May-15   09-Jun-15   330   S3C-EW-1010E   S3B-EW-1030	
S3C-TS-2000F   Bay 11 CWB Base Slab   14   27-May-15   09-Jun-15   330   S3C-EW-1010E	
S3C-TS-2090A Bay 20 CWB & Slip Road 2 Base Slab and Slip 14 19-Jun-15 02-Jul-15 355 S3C-EW-1010E  S3C-TS-2160 Backfilling up to Formation Level of Cooling Mains & 15 08-May-15 20-May-15 -241 S9-1050, S9-1040B, Construction of Surface Drainage incl. strut/waling	
Construction of Surface Drainage Incl. strut/waling	
tion 4 of the Works - Salt Water Mains, Works in Area 3 8 20-Mar-15 26-Mar-15 598	
autr4 or the Works - Salt Water Mains, Works in Area 3 8 20-Mar-15 26-Mar-15 598	100
Remaining Work ▼ Summary CEDD CONTRACT NO. HK/2009/01 Page: 5 of 8	and the state of t
Actual Work Summary Bar  Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)  WORK PROGRAMME Rev. 6E 3mths Rolling Programme (Data Date on:20-Feb-15)	

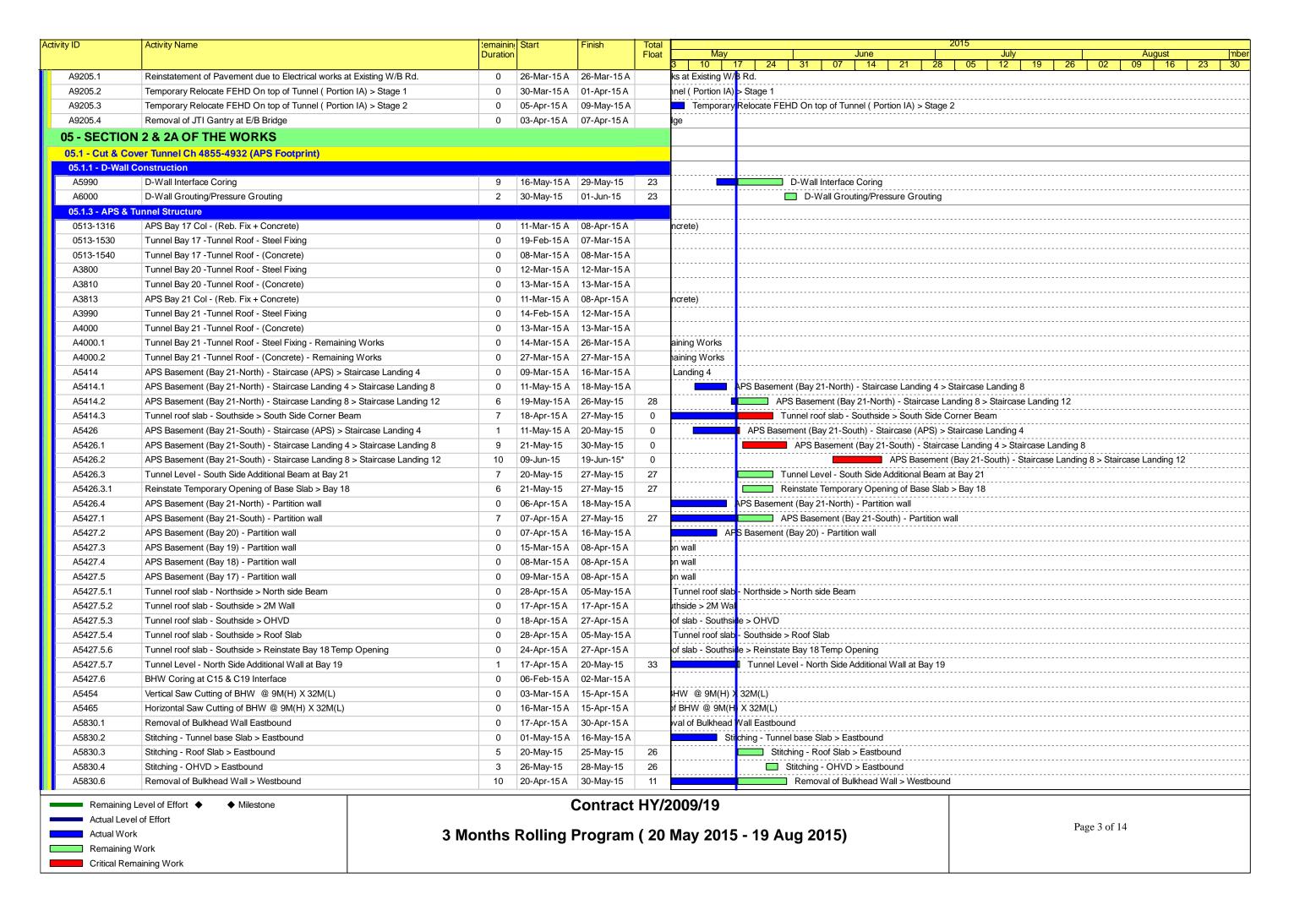
	CT HK/2009/01	OD	Start	Finish	Total	Predecessors	2011	2012		IN WO			2014	200	2015
			Clar	1 81101	Float	11000000000	MAMJJASOND	Qtr1 Qtr2 Q	Tr3 Qtr4 Qtr	1 Qtr 2 Q	ASOND	Qtr 1 C	Otr 2 Otr	3 Otr 4	JFMAM
S4-1520	Connection to Existing Mains (S8B)	7	20-Mar-15	26-Mar-15	-207	S4-1510, TP-1210,		*****			rititi	1111	HH	HHH	Tist Con
SB (ONASO) Salt Waterm	alma & Sower	375	NAME OF	and American	-502	TP-1200, PRE-3200D									V 59 (
Testing and Commits \$4-2520	Connection to Existing Mains (S9)	7	20-Mar-15	26-Mar-15	507	S4-2510, PRE-3200E,									Test
Stormwater Drainage		0				TP-1110									
	Provisioned Gooting Water Pumping Stations Works in Area 7 & Pipe Pile Wall P2	0										IIII			
	- Cooling Water Discharge System (3 nos. Govt T	455	20-Jan-14 A	17-Jun-15	-241							V	++++	++++	+++
S6A-1100	Over CWB - CHBF (92m)	7	21-May-15	27-May-15	-	S3C-TS-2160, S9-1050			111111			1111			
S6A-1200	Zone X1-1 - CHBF (11m)	21	19-Apr-15	09-May-15*	-223	TTAM-X3-1030A, TTAM-X3-1000A, S4-1000									
S6A-1210	Zone X1-2 - CHBF (5m)	21	19-Apr-15	09-May-15* 22-May-15*		TTAM-A4-1120B S6A-1230						Hill			
S6A-1220 S6A-1230	Zone X1-3 - CHBF (7m)  Zone X1-4A- CHBF (21m) & S3 (21m) Connection Point	21	02-May-15 20-Jan-14 A	01-May-15		TTAM-X3-1030A						-			
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-236	TTAM-C3-1000A									
Testing a Commission	mg	21	-27-Hay-15	17-syreth	- 24										
S6A-2010	CCTV & Pressure Test of CHBF	7	28-May-15	03-Jun-15	-241	\$6A-1100, \$6A-1050, \$6A-1040, \$6A-1200, \$6A-1020, \$6A-1030, \$6A-1240, \$6A-1210,									
S6A-2020	Cleaning & Sterilization of CHBF	7	04-Jun-15	10-Jun-15	-241	S6A-1010, S6A-1230. S6A-2010							1111	111111	11 111
S6A-2030A	Future Connection to Existing Mains (CHBF) at temporary water channel	7	11-Jun-15	17-Jun-15		S6A-2020									
S6A-2030B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	S6A-2020, S6A-2010, TP-1310, TP-1350, S6A-2030A, PRE-3200O									
ection 6B of the Works	- Cooling Water Intake & Discharge System (Gre	344	22-Jun-14 A	17-Jun-15	-24	The state of the s						IIII.	V	1.1.1.1.1	
S6B-1100	Over CWB - CHBG (92m)	7	21-May-15	27-May-15	4	S3C-TS-2160, S9-1050						1111		11111	
S6B-1220	Zone C3-1 - CHBG (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-23	TTAM-C3-1000A									
S6B-2000	CCTV & Pressure Test of CHBG	7	28-May-15	03-Jun-15	-24	S6B-1020, S6B-1220,							1111		
						S6B-1200A, S6B-1210, S6B-1200, S6B-1020A, S6B-1000, S6B-1010, S6B-1030, S6B-1050,									
S6B-2010	Cleaning & Sterilization of CHBG	7	04-Jun-15	10-Jun-15		1 S6B-2000						444		4.1.1.1.	
S6B-2020A	Future Connection to Existing Mains (CHBG) at temporary water channel	7	11-Jun-15	17-Jun-15		1 S6B-2010									
S6B-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-24	1 S6B-2020A, PRE-3200						1111	IIII		
SHE DO BOT OF SHEET OF SHEET	s - Cooling Water Discharge System (China Resou			17-Jun-15	-24								V	TITI	
S6C-1100	Over CWB - CHBI (100m)	7 t 60	21-May-15	27-May-15	_	1 S3C-TS-2160, S9-1050 6 TTAM-C3-1000A	41111111111						114	11110	
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Poin	1 60	22-Jun-14 A	22-May-15	-23	1 1AW-03-1000A		44444		4444	$\mathbb{H}\mathbb{H}$	444	44.		
Thing comments	100							44:222							
Remaining Work	V Summary			C	EDD C	ONTRACT NO. HK/2	109/01				Pag	ge: 6 of 8	3		
Actual Work	Summary Bar		Wan Chai F	evelopment F	hase I	I - Central-Wan Chai I	ypass at HKCEC (Co	ontract 1)							
Summary Bar	k					3mths Rolling Program									

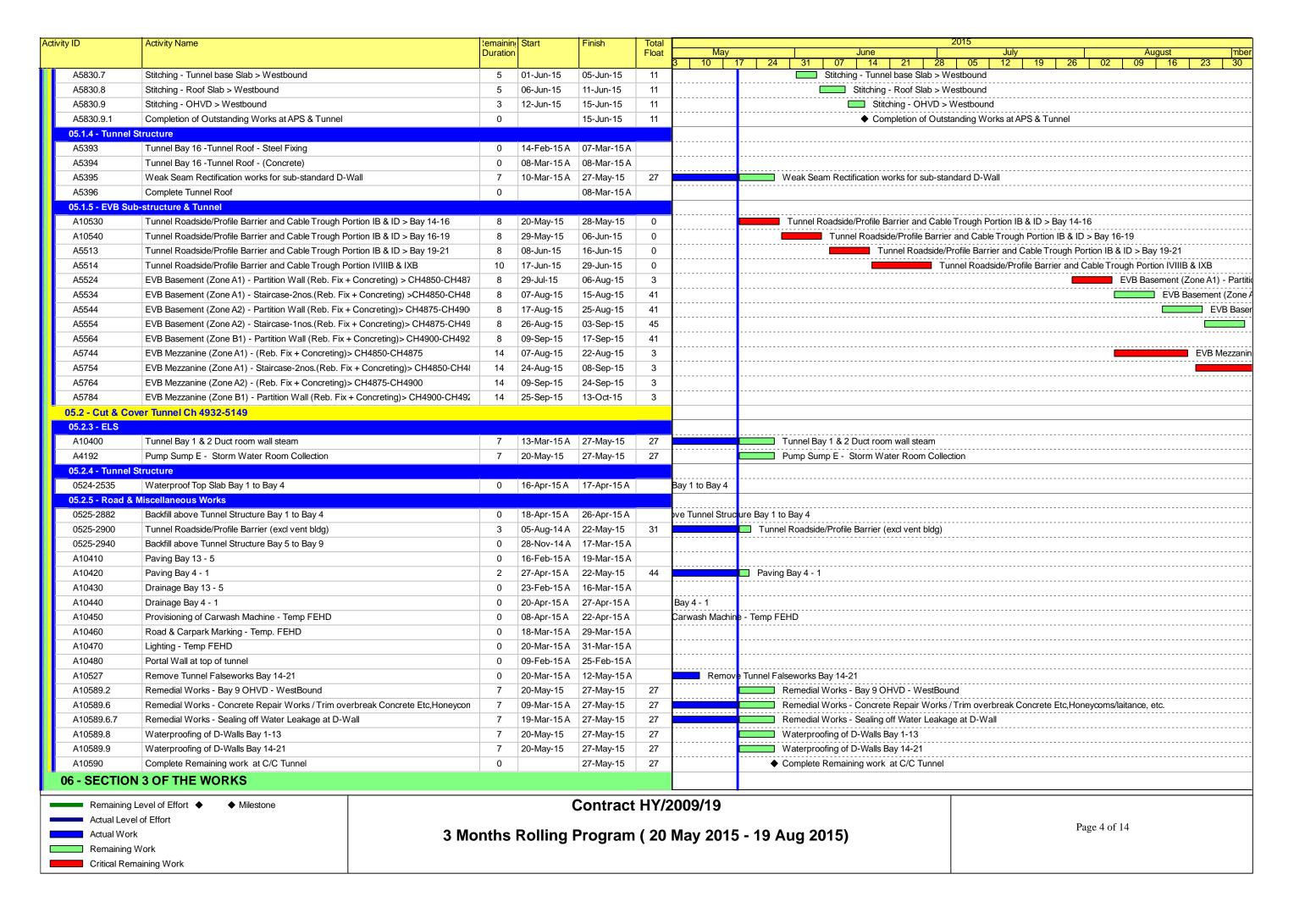
	Activity Name	TOD	Start	1 60-11	1	The same of the sa				2.4.03	HUN V			i oon	41 A
		00	Start	Finish	Tota Floa	Predecessors	201   Qtr 2	Otra I Otra	Qtr 1   Qtr	2012 2   Qtr 3   Otr	4 Qtr 1   Qtr 2	2013	4 0-112	2014	
S6C-2000	Pressure Test of CHBI	7	28-May-15	03-Jun-15	-241	S6C-1030, S6C-1600, S6C-1040, S6C-1100,	MAMJ	JASOND	JFIMAIM	JJASON	DJFMAM	JASON	DJFMA	MJ JAS	Otr 4 C
						S6C-1020A, S6C-1020A, S6C-1020,									
S6C-2010	Cleaning & Sterilization of CHBI	7	04-Jun-15	10-Jun-15	-941	S6C-1050, S6C-1300, S6C-2000	1111	11111		HIIIII	1111111				
S6C-2020A	Future Connection to Existing Mains (CHBI) at temporary water channel	7	11-Jun-15	17-Jun-15		S6C-2010	1111								
S6C-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	PRE-3200Q, S6C-2010, S6C-2020A, S6C-2000,									
ommon Works for Sec	tions 6A, 6B & 6C	30	22-May-15	21-Jun-15	420	TP-1330	4444								
Dockson Cortal Com	(A)(C)(A)	0	SELECT TO	Er dan-15	HEU		1111	HIIII	11111				ATTI	THEFT	
S6-1030	Connection of the Completed Cooling Mains to Precast Outfall Unit	0		22-May-15	-250	S6C-1600, S6A-1240,									
S6-1040	Reinstatement of Existing Seawall after Connection	30	23-May-15	21-Jun-15	420	S6B-1220, S6-1010 S6-1030									
ection 7 of the Works	Trial Bored Piles in Area 5			21,520,19		00-1000									
ADMS Installation		0			0		1111							11111	
Trial Borod (Hint)		10			- 3								THIT	TITT	TT
Testing & Commission		0			-0		Hill		11111						
ction 8 of the Works -	Works in Area 6 (Utilities other than Watermains	583	10-Jan-14 A	22-May-15	-228									11111	
S8-1030	Zone A3-5D & A3-4D	23	10-Jan-14 A	19-Mar-15	-228	TTAM-A3-1020	III.								
S8-1040	7			12 mar-10	-220	1 12W-M3-1020							11111	1:111	
S8-1050	Zone A3-2C Zone A3-2D	23	19-Mar-15	26-Apr-15	-228	TTAM-A3-1040			11111				11111	111111	
S8-2500	CCTV Survey	23	26-Apr-15	15-May-15		TTAM-A3-1060	1111		11111				11111		
S8-3000	Connection with Upstream Existing Manhole & Abandon Used Pipe	7	15-May-15 16-May-15	16-May-15 22-May-15		S8-1000, S8-1050 S8-2500									
ction 9 of the Works -	Remaindar of the Works	214	07-Sep-14 A						illii					HIIII	11
Box Duhert Construction	in .	MAD	U7-58p-14 M	21-Jul-15	390								Tilli	-	
S9-1030	Construction of Precast Bay 1	76	25-Sep-14 A	03-Mar-15	-208	DW3-1020AA.							HIII	4 4 4	
S9-1040A	Installation of Sheet Pile / ELS and Construction for	180	07-Sep-14 A	20-Apr-15	120.21	EDE-1010A									14
	Bay 7	100	01-0ep-14X	20-Api-15	-220	S3C-FW-1040B						11111			
S9-1040B	Installation of Sheet Pile / ELS and Construction for Bay 2	180	11-Oct-14 A	20-Apr-15	-226	S9-1040A, S3C-FW-1050E.									
** ****						S9-1030	HHI	Hill					HIII		
S9-1050	Construction of Bay 3 to Bay 6 incl. top slab waterproofing works	75	20-Jan-15 A	05-May-15	-241	S9-1020, S3C-TS-1100,	1	****	titit			++++	++++		
S9-1060	Permanent Diversion of Storm Water to New	5	06-May-15	10-May-15		S9-1010 S9-1050									
S9-1070	Provided Box Culvert  Backfill the Temporary Water Channel from East to	-													
	West (BG/BI Connection Point at Water Channel)	15	13-May-15	27-May-15		S9-1050, S6C-1100, S6B-1100, S6A-1100, S9-1060									
S9-2000		02	211ba-16	D-AFIG	30	The state of the s									
12.53	Backfill up to Formation Level for Reprovision of Expo Drive East	10	28-May-15	06-Jun-15	-35	S6C-1100, S6B-1100, S6A-1100						11111			
S9-2000A	Permanent UU Connection/Change Over	60	21-May-15	20-Jul-15	-	S3C-TS-2160			4-1-4-4-4			4444			1.11
S9-2010	Construction of New Road and Surface Drainage	45	07-Jun-15	21-Jul-15		S9-2000									
Videoworke in Arte E		Al	05-W	Objects:	10-25										
Self Waller Malner 124	SSA & SSB)	31 7	-19 Mar 15	(Panta)		Common Towns									11
	Zone X1-1 - S3 (5m)	0		09-May-15	-201	S6A-1200									
Remaining Work	Summary			CEI	DD CON	NTRACT NO. HK/2009	01		- 1			Pan	e: 7 of 8		
Actual Work	Summary Bar		Wan Chai D-						770			, ag	010		
Summary Bar			wan onai Dev	elopment Pha	ase II -	Central-Wan Chai Byp	iss at HK	CEC (Contr	act 1)						
Critical Remaining Work			WORK PROG	RAMME Rev	. 6E 3m	ths Rolling Programm	(Data D	ate on 20-Fe	eb-15)						
Milestone						· respecting	- ulu D	ale on EU-Ft	00-101						

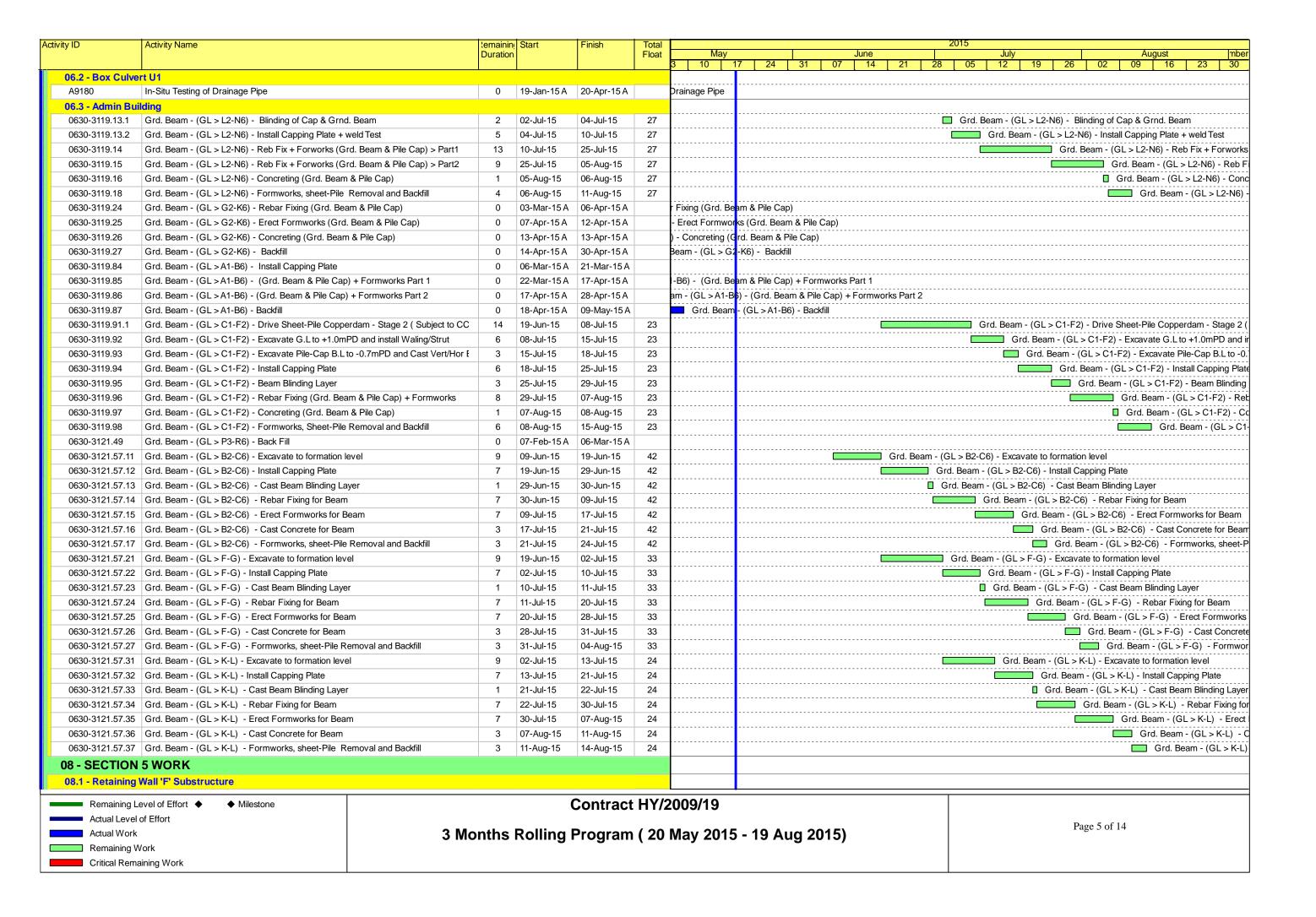
	Activity Name	OD	Start	Finish	Total	Predecessors	- 2	2011		T		2012					2013					2014				20
				3.000	Float	T	MAM.	Otr 3	Otr 4	Qtr D J F	M A N	2 Q	ASC	Qtr 4	QIT 1	Qtr a	1 1 1 v	r3 C	ON D	JF	M A N	M11	A S	ON D	Otr 1	MAIN
S9-5500B	Zone X1-2 - S3 (5m)	0		09-May-15		S6A-1210	111	111		111	11		11	111	11	111	::									4 77.
S9-5500C	Zone X1-3 - S3 (5m)	D		22-May-15		S6A-1220	411	111			11	111	11				11		11		11	111		111		112
S9-5510	Over CWB - S3 (92m)	0		27-May-15		S6A-1100	111	111	111	111	11	111	::	111	11	111	11	11	11	111	11	111	111	111		1
\$9-5530	Pressure Test of S3	7	28-May-15	03-Jun-15	424	S9-5500A, S9-5500D, S9-5500C, S9-5500B, S9-5510, S9-5520																				
\$9-5540	Cleaning & Sterilization of S3	7	04-Jun-15	10-Jun-15	424	\$9-5530		111			11		11				11	11			11		iii			Fr. 4 4 51 6
S9-5550	Connection to Existing Mains (S3)	7	11-Jun-15	17-Jun-15	424	PRE-3200C, S9-5540	1	111	111	11	11	111		111		17	11	11			11		111			
\$9-5600	Over CWB - S5A (30m)	20	27-May-15	12-Jun-15	79	S9-5510 ·	111	111	111	111	11	111	11	111	11	111	11	11	11		11		111			1 1
59-5610	Pressure Test of S5A	7	13-Jun-15	19-Jun-15	65	S9-5600	141	111		111	11	1 : 1	11	111	11	111	11	11	11	1 1 1	11	11	111	111		111
S9-5700	Over CW8 - S5B (30m)	20	27-May-15	12-Jun-15	-	S9-5600	141	111	111	111		111	11	111	11	111	11	11	11.	111	1.3	11	111	111		1 1
S9-5710	Pressure Test of S5B	7	13-Jun-15	19-Jun-15	65	S9-5700	-1-1-1	4.1.4	1-4-1			4-1-4		1.4.	44.	1.1.			4-1-	3-1-4		4.4.	4-1-1		de la	
France Walter Million			DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	07.1445	500	D00 4400	111	111	111	11	11	111	11	111	11	111	11	11	11	111	11	11	111		1 1	
S9-7000 S9-7010	Over CWB - F3 (100m) Pressure Test of F3	7	28-May-15	27-May-15 03-Jun-15		S6A-1100 S9-7000, S9-7040,	111	111	111	11		111	11	111	11	111	11	11	1		11	11	111		1 1	1 1
59-7010	Pressure lest of P3	,	20-May-15	0a-0un-15	424	S9-7050, S9-7070, S9-7060												-								
S9-7020	Cleaning & Sterilization of F3	7	04-Jun-15	10-Jun-15	424	S9-7010	111	111	111	11	111	111	11	111	11	111	11	11	11	111	11	11	11/	111		10
S9-7030	Connection to Existing Mains (F3) at Zone C1-3	7	11-Jun-15	17-Jun-15	424	\$9-7020, PRE-3200C									11	11		11	11			11.	11			11
S9-7040	Zone X1-1 - F3 (5m)	0		09-May-15	449	S6A-1200	++++	+++	111	++	111	111	**	111	11	111	1	++	++	1	•	***	1111	111	1	-
S9-7050	Zone X1-2 - F3 (5m)	0		09-May-15	-	S6A-1210	111	111	111	11	111	111	11	111	11	111	11	11	11	111		11	111			4.4
S9-7060	Zone X1-3 - F3 (5m)	0		22-May-15		S6A-1220	11:	111	111	11	111	111	11	111	11	111		11	11			11	111	111		113
\$9-7070	Zone C1-5, C1-7 & C1-9 - Expo Drive East - S3 (20m)	0		27-May-15		S6A-1100																				-
ction 11 of the Wor	ks - SCL Protection Works	0			0		111	111	111					111				11	11	1 1			11.			11
Foundation Works		TO L			- 0	-	111	TIT	111	111						11		11	11							
Ensevation Works		10							111	11	111	111		111		11		11	11	11:	11:	11	11	111	1	
Structural Works		100					111	111	111	11	111	111	Hi	111	11	11		11	11			11	11	111	1	
	ks - Works in Area 10 (other than Section 4)	40	24-Nov-14 A	31-Mar-15	-32		111	111	111	11		1 :		111		110			11			11	11.	-		→ 5
VO106-1000A	Backfilling for Kiu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-32	VO106-1000	1111	111	111	11	111	11		111	11	11			11	111	111	11	11			B
		1	0.000	1		S. C. March	1.1.1	111	1.1.	1.1.	111	11.		1.1.1	.4.3.	14.	1.1.1		1.1.				dej.	J. J.	.i	
ction 13 of the Wor	ks - Works in Area 11 (other than Section 11)	40	24-Nov-14 A	31-Mar-15	-32		111	111	111	11	111	11		111	11	11		1 1	11	11		11		H	: 1	Com
S13-3000	Completion of Backfilling to +5.0mPD	0		20-Feb-15		VO106-2000	333	111	111		111	11				11		11	11	111		11	11	111	1.0	B
VO106-2000A	Backlilling for Klu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-32	VO106-2000																				- B
ection 1A of the Wor	rks - Landscape Softworks in Areas 2 & 4	0						111				11		11		11		11	11		111					111
ection 1B of the Wo	rks - Establishment Works in Areas 2 & 4	0			C		111				1		1.1.1	14.	111	11	1.1.	11	4.1.	1.1.	1.1.1		4.4.	1.444		
ection 9A of the Wo	rks - Landscape Softworks in Area 9	180	20-Feb-15	18-Aug-15	-3		111	111	111		111	11		111		11		11	11	11			11	111		
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	20-Feb-15	18-Aug-15	-3	PRE-2130, PS-P4, EDE-1050																				
ection 9B of the Wo	rks - Establishment Works in Area 9	0					111		111	111	111	11		11	111	11		11	11	11			11	111		111
ection 10 of the Wo	rks - Protection and Preservation of Existing Trees	0				0	111		11	111	111	1.1	111	1.1	111	11	111	11	11	1:	:::	: : :	1:	111	111	1.3
Remaining Work	▼ Summary			C	EDD C	ONTRACT NO. HK/2	09/01						-						Pag	je: 8	of 8					
Actual Work Summary Bar Critical Remaining V	Summary Bar					I - Central-Wan Chai 3mths Rolling Progra																				

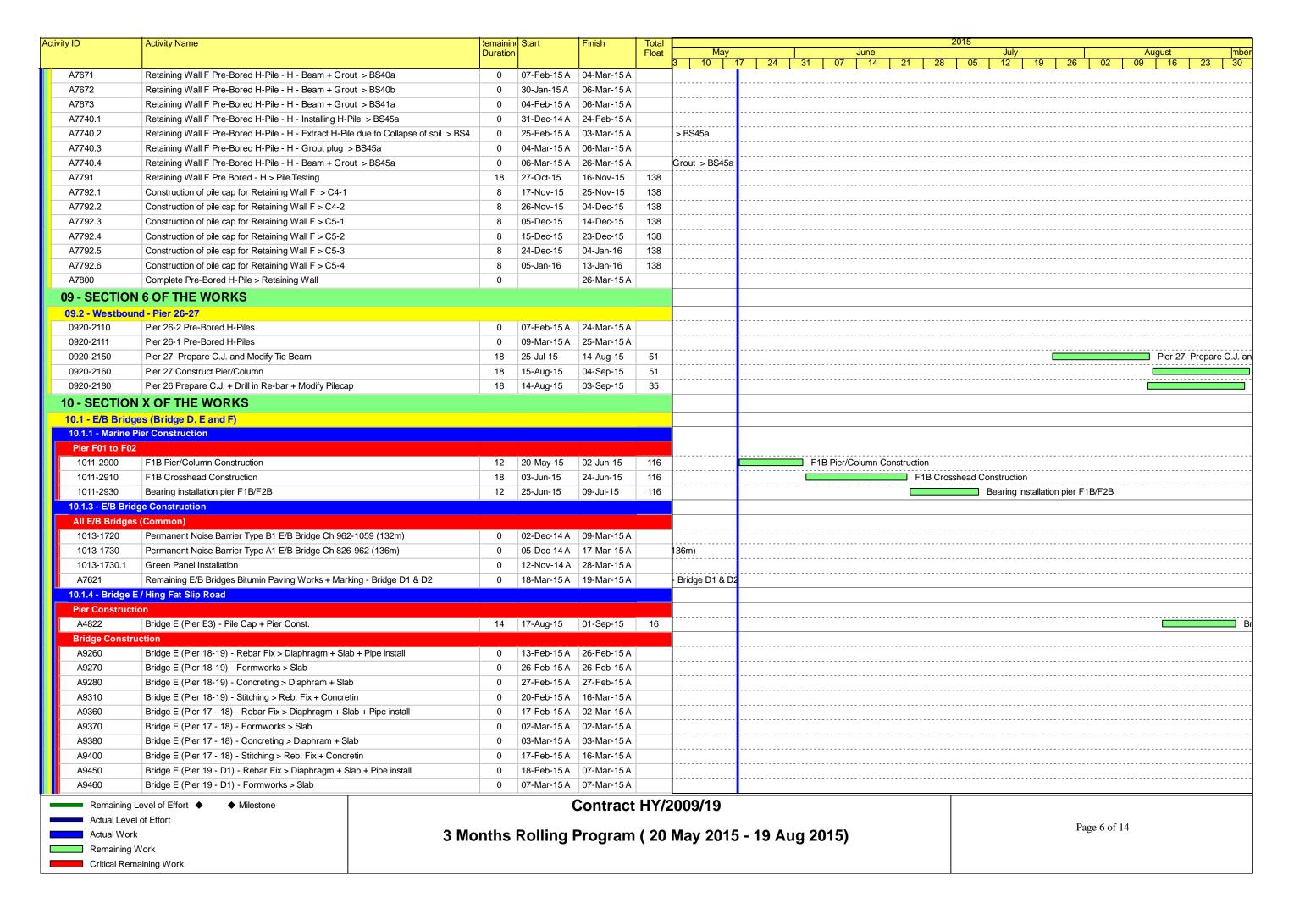


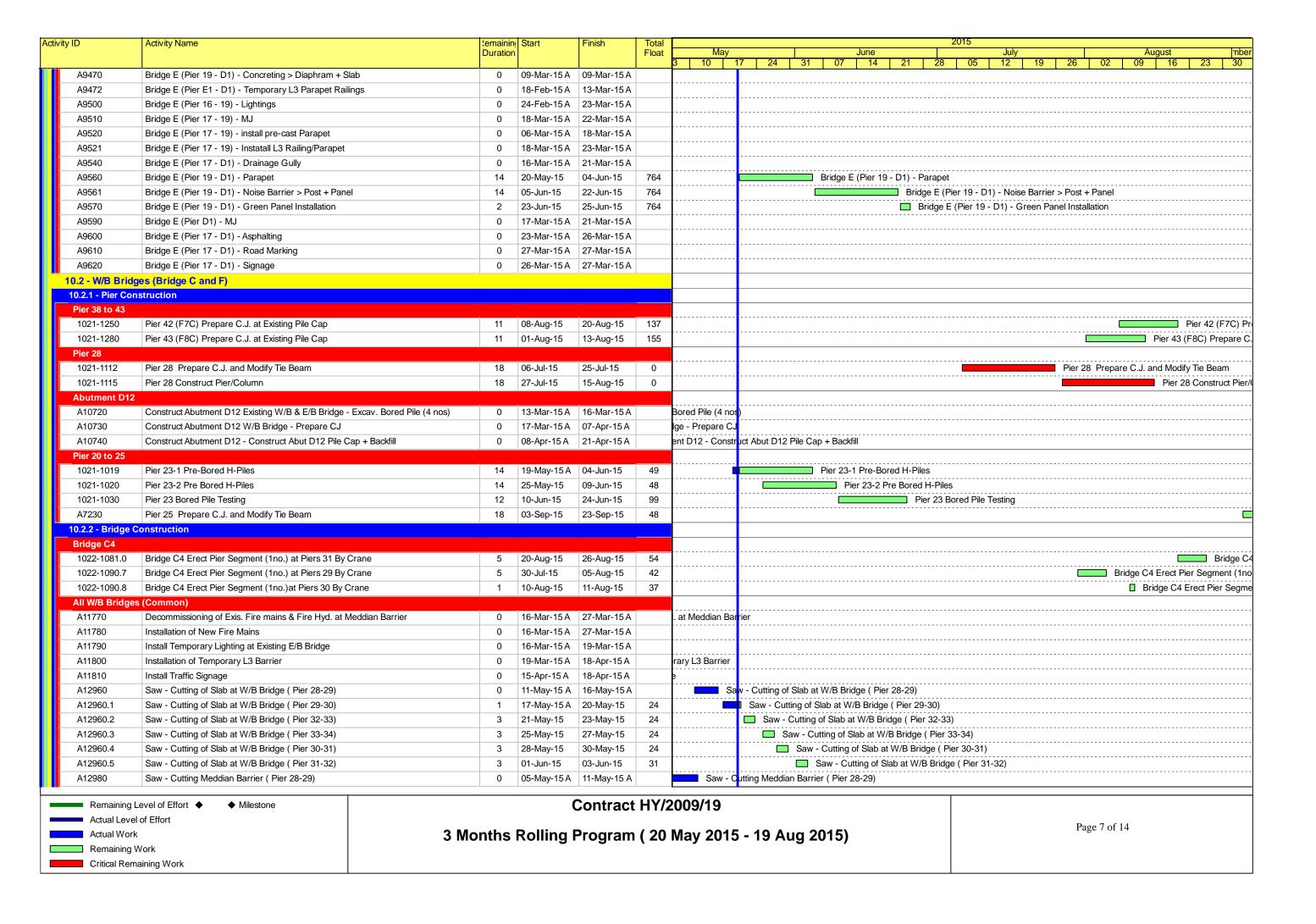


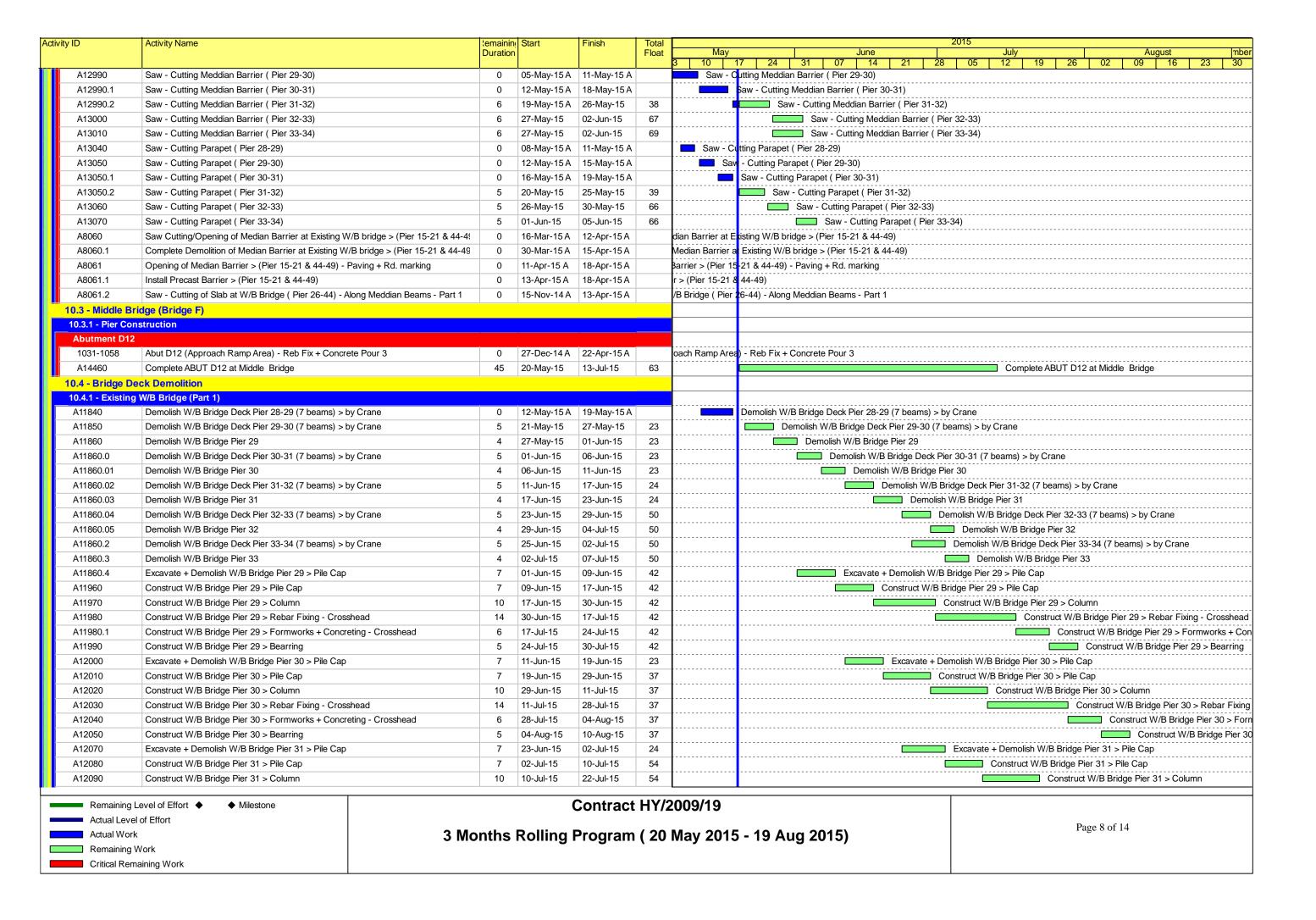


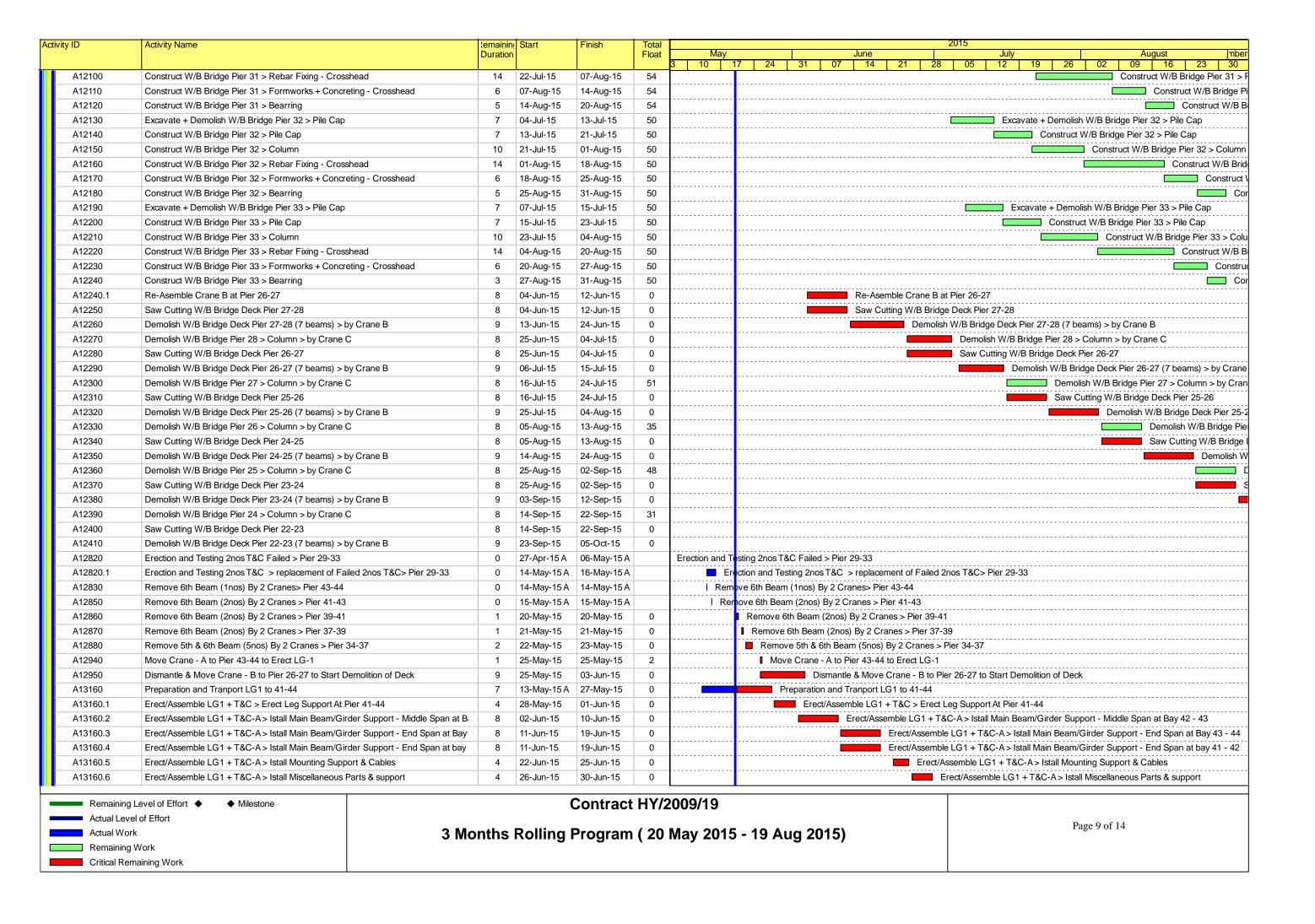


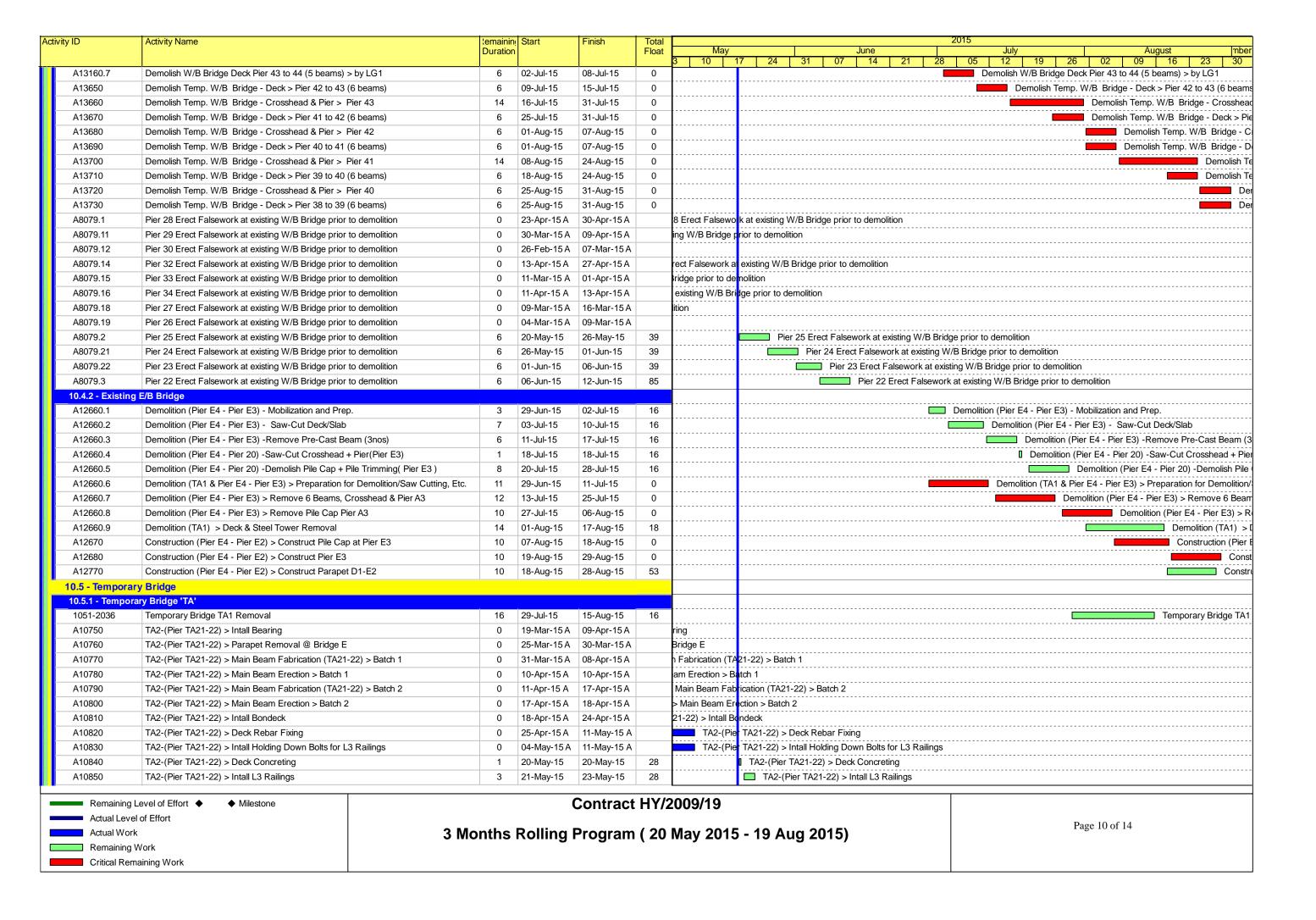


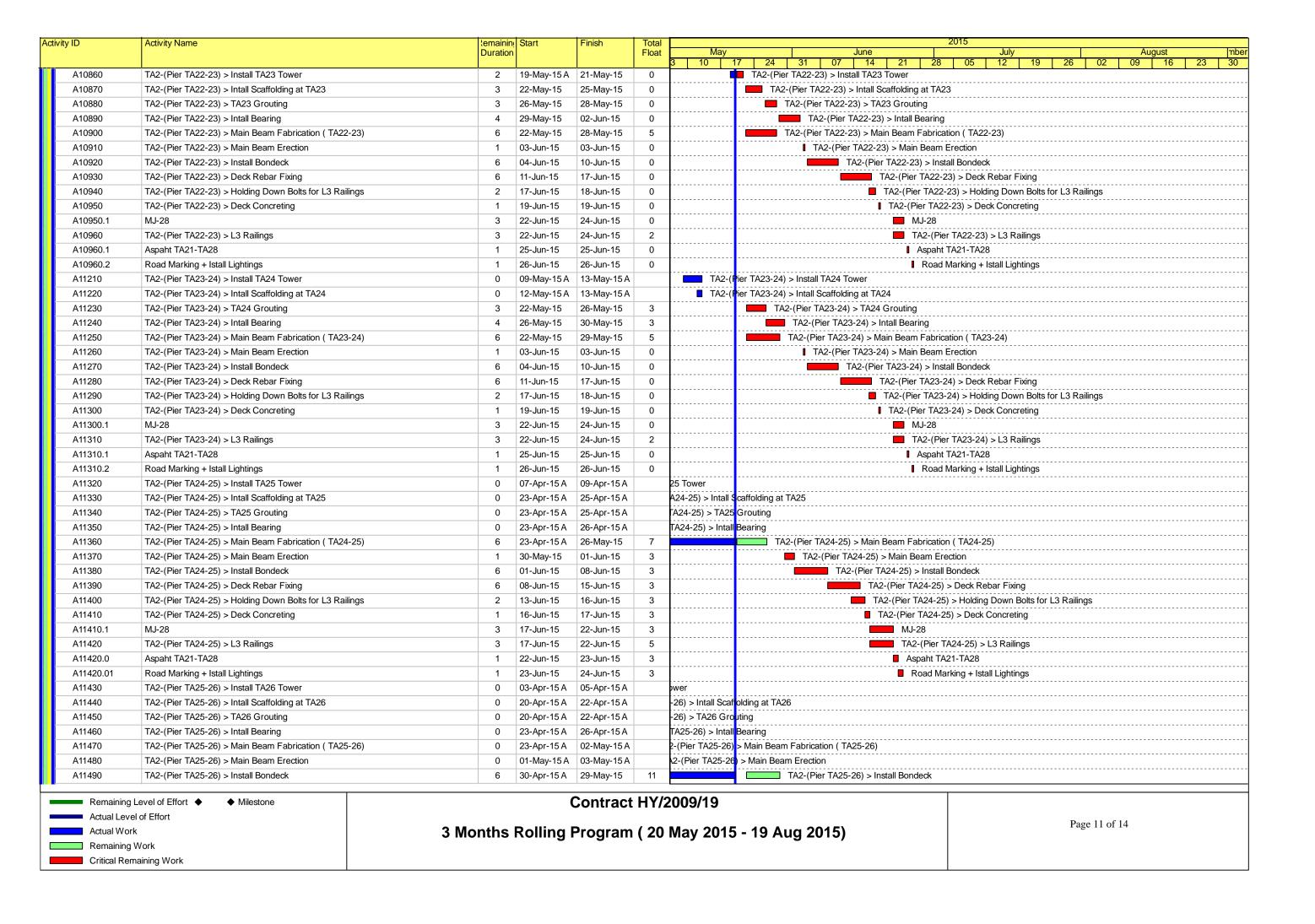


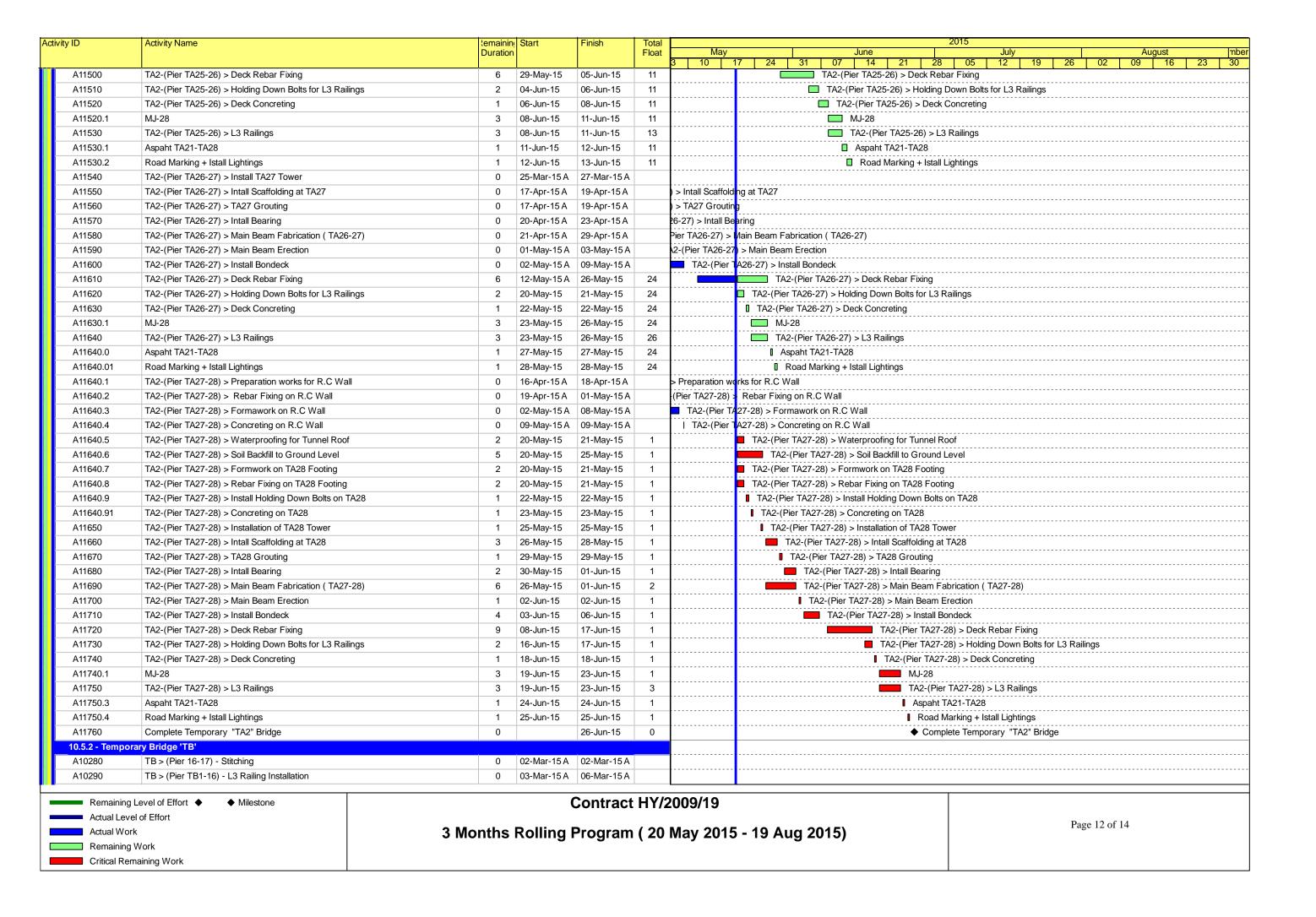


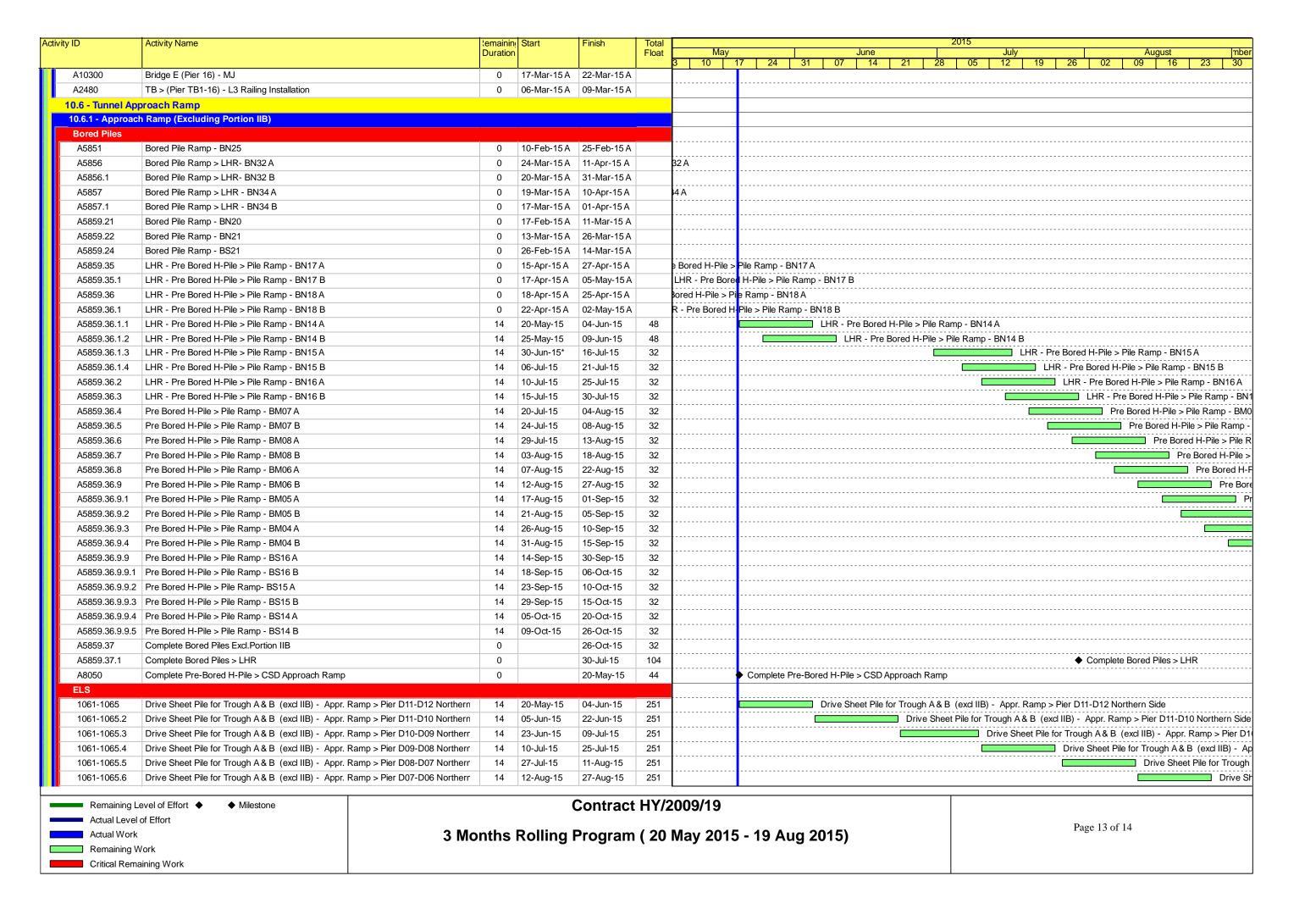


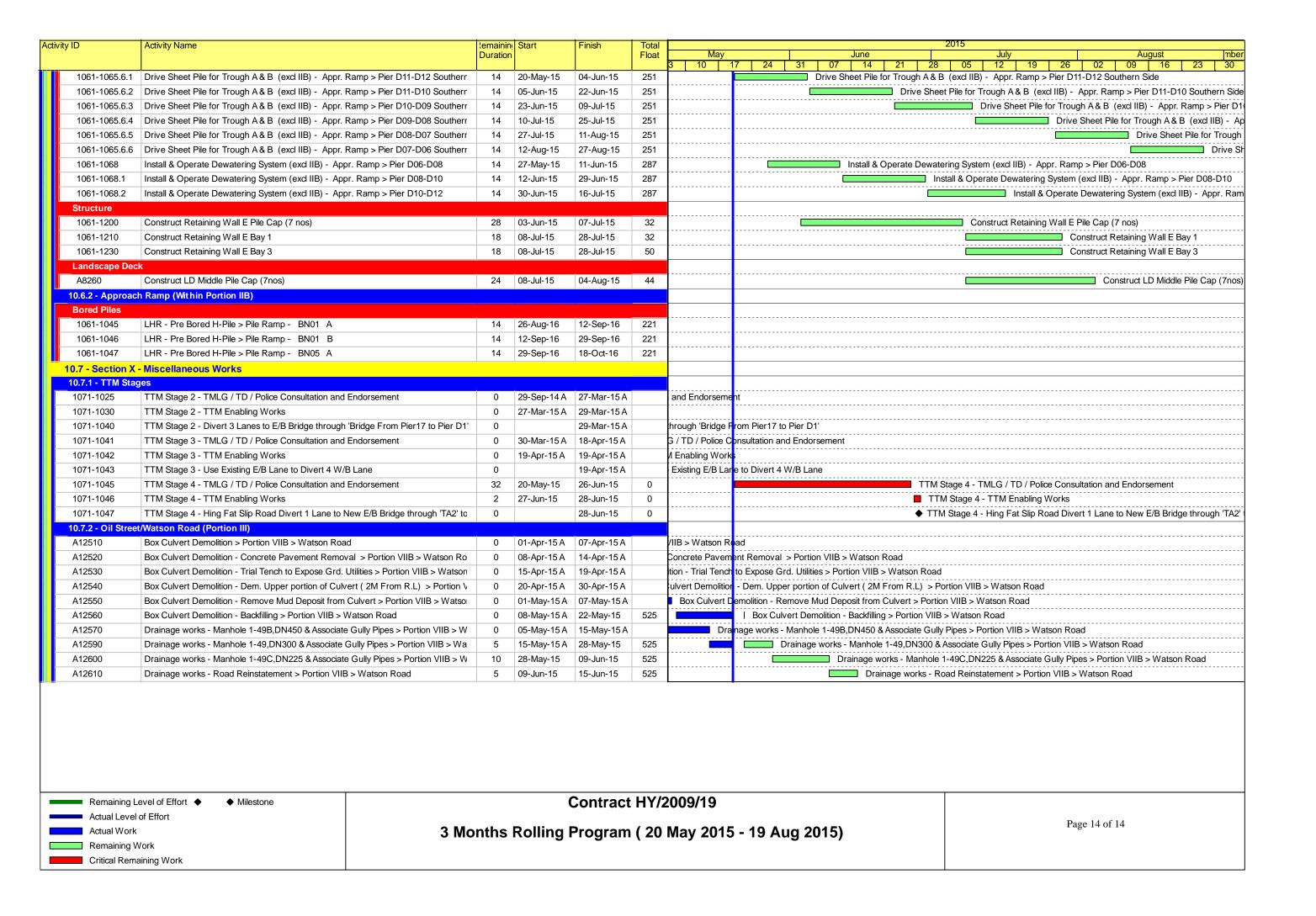












Vorks Programme Rev. M (DD:20-Sep-12) Ventilation Adit - Based on Alternative Metho f Breakwater einstatement works -west side		Original Duration	Start	Finish	Total Float	Q4	Q1	Q2	2015 Q3	Q4	Q1	2016 Q2	Q3
Ventilation Adit - Based on Alternative Methor f Breakwater einstatement works - west side	od				100	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Ventilation Adit - Based on Alternative Methor f Breakwater einstatement works - west side	od												1770
f Breakwater einstatement works -west side													
einstatement works -west side	7d/wk-1												
	7d/wk-1			1000		_							
einstatement works east side		60d	21-Feb-14 08 A	30-Sep-14 18	-85d	Reinstateme	nt works -west sid	•					
	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstateme	nt works east side						
ompletion of Section 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	Od		30-Sep-14 18	-86d	<ul> <li>Completion of</li> </ul>	f Section 3 (KD8)	in EVA Area (Alterna	tive Method)				
TS2 - OHVD and Cable Trough/Maintenance V	Walkway	5											
Cable Trough/Maintenance Walkway													
Cable Trough Construction					-		1						
S2 - OHVD/ Cable trough	7d/wk-1	40d	20-May-14 08 A	30-Sep-14 18	-85d	TS2 - OHVD	/ Cable trough						
ompletion of Section 3 - TS1/TS2 Area (below-6mpd) KDB)	7d/wk-2	0d	100000000000000000000000000000000000000	30-Sep-14 18	-86d	Completion of	f Section 3 - TS1	TS2 Area (below -6r	mod) KD8)	1			
									1,100				
Control of the Paris Annual Control of the Control						1							
And advanced of the control													
II and Reclamation at TZ6													
stallation of seawall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d	Installation of	seawall blocks (Q	y: 245 nos.)					
oil Backfilling up to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d	Soil Backfilling	up to -2,45mPD	(Qty:3,000 cu.m.)		1			
tilities installation for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	I: Utilities install	ation for Mined Tu	nnel		1			
oil backfilling up to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	1 Soil backfilling	up to ground lev	el (Qty:2,000 cu.m.)		1			
te clearance	7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site dearand	e		i				
andover to MTR	7d/wk-2	Od	100000000000000000000000000000000000000	30-Sep-14 18	-305d	Handover to	MTR						
porary Reclamation at TS4/MF4	1 10 10 1			la e	1 22.2					-			
									1				
	-				-								
	7d/wk-2	21d	29-Aug-14 08 A	23-Sep-14 18	-340d	D-Wall horizon	ntal cutting (Qty: 6	2 pcs.)					
- P4, ME4-D12 to ME4-D18 & P3)													
arine removal of temporarly reclamation and seawall blocks (ones C )	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d	Marine remo	val of temporarly	reclamation and sea	wall blocks (Zone	es C )			
-Wall vertical cutting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall vert	ical cutting (Qty: 1	5 pcs.)					
-Wall horizontal cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall hor	izontal cutting (Qt	y: 20 pcs.)	1				
_ [1 of 18								Prepared by William	Caluza	1			-
of Effort		F		. 16 1 1 4 1			Date	Revision	T STORY SHOWS	Approved			
China Stat	e Construc	tion En	gineering (Hong	nong) Ltd			26-Sep 1st sub	mission		ine	中南津郊下	理(草藻)	有阿小
	Van Chai B	y Pass -	Tunnel ( Cause	way Bay Typ	hoon Sh	elter Section)				chite			
aining Work	VODVC 5	noce	ANNE DEV								2007		C. C. C. C. C.
	Sable Trough Construction  32 - OHVD/ Cable trough  Size OHVD/ Cable tr	Sable Trough Construction  32 - OHVD/ Cable trough  7d/wk-1  7d/wk-2  ME4 Area (Portion 14A, 14B, 15, 23)  val of Temporary Reclamation  5 at TZ6  Il and Reclamation at TZ5  Stallation of seawall blocks (Qty: 245 nos.)  7d/wk-2  Il Backfilling up to -2.45mPD (Qty:3,000 cu.m.)  7d/wk-2  filities installation for Mined Tunnel  7d/wk-2  filities installation for Mined Tunnel  7d/wk-2  reclamation at TS4/ME4  20, D & F - TS4-D33 to D-26, SCL2 & ME4-D19 to D13)  -Wall horizontal cutting (Qty: 62 pcs.)  7d/wk-2  -P4, ME4-D12 to ME4-D10 & P3)  arine removal of temporarly reclamation and seawall blocks  7d/wk-2  -Wall horizontal cutting (Qty: 15 pcs.)  7d/wk-2  -Wall horizontal cutting (Qty: 20 pcs.)	Sable Trough Construction  32 - OHVD/ Cable trough  33 - OHVD/ Cable trough  34 - OHVD/ Cable trough  35 - OHVD/ Cable trough  36 - OHVD/ Cable trough  37 - TS1/TS2 Area (below -6mpd) KD8)  75 - OHVD/ Cable trough  76 - OHVD/ Cable trough  77 - O	### ### ##############################	Table Trough Construction  32 - OHVD/ Cable trough  32 - OHVD/ Cable trough  33 - OHVD/ Cable trough  34 - OHVD/ Cable trough  35 - OHVD/ Cable trough  36 - OHVD/ Cable trough  37 - OHVD/ Cable trough  38 - OHVD/ Cable trough  39 - Sep-14 18  ME4-Area (Portion 14A, 14B, 15, 23)  Wal of Temporary Reclamation  30 - Sep-14 18  Wet Area (Portion 14A, 14B, 15, 23)  Wal of Temporary Reclamation  30 - Sep-14 18  Wal of Temporary Reclamation  30 - Sep-14 18  Wal and Reclamation at T26  Stallation of seawall blocks (Qty; 245 nos.)  7d/wk-2 6d 15 - Sep-14 08 A 26 - Sep-14 18  28 - Sep-14 18  28 - Sep-14 18  Wal backfilling up to -2.45mPD (Qty; 3,000 cu.m.)  7d/wk-2 1d 27 - Sep-14 08 27 - Sep-14 18  Wal backfilling up to ground level (Qty; 2,000 cu.m.)  7d/wk-2 2d 28 - Sep-14 08 29 - Sep-14 18  Wal backfilling up to ground level (Qty; 2,000 cu.m.)  7d/wk-2 1d 30 - Sep-14 08 30 - Sep-14 18  Wall borizontal cutting (Qty; 20 pcs.)  7d/wk-2 2d 29 - Aug-14 08 A 23 - Sep-14 18  Wall horizontal cutting (Qty; 20 pcs.)  7d/wk-2 21d 31 - Aug-14 08 A 02 - Oct-14 18  Ones C)  Wall vertical cutting (Qty; 15 pcs.)  7d/wk-2 5d 08 - Oct-14 08 10 - Oct-14 18  Wall horizontal cutting (Qty; 20 pcs.)  7d/wk-2 5d 08 - Oct-14 08 10 - Oct-14 18  China State Construction Engineering (Hong Kong) Ltd  Cork  Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typ	### Page 1   April 1985   April	TS2 - OHVD/ Cable trough   Todwk-1   40d   20-May-14 08 A   30-Sep-14 18   -85d   Todwk-2   Od   30-Sep-14 18   -85d   Todwk-2   Od   30-Sep-14 18   -85d   Todwk-2   Od   Todwk-2   Od	### Today Construction    20-May-14 08 A   30-Sep-14 18   -850     TS2 - OHVD/ Cable trough   Td/wk-1   40d   20-May-14 08 A   30-Sep-14 18   -850     TS2 - OHVD/ Cable trough   TS2 -	Total   Tota	April   Apri	22 - OHVD/Cable trough	22 - OH/OF Cable trough   7-divided   140d   20-May-14 08 A   30-Sep-14 18   -85d   -85d	22 - OH/O/C cable trough   7dwise   40d   20-May-14 08A   30-Sep-14 18   -85d   17dwise   17d

				Duration	Start	a comme	Total		-		115			2016	
Stanp 7 17 ou	nes C & F - ME4 Do	6 to D01, SCL1 & TS4-D25)		Duranon			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A-4000	Marine removal of (Zones C & E)	temporarly reclamation and seawall blocks	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	of temporarly re	clamation and seav	vall blocks (Zone	sC&E)			
A-3090	Hole coring (Qty: 4-	4 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cutti	ing (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	■ D-Wall vertice	al cutting (Qty: 27	pcs.)					1
A-4020	D-Wall horizontal o	utting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d	D-Wall horiz	ontal cutting (Qty	37 pcs.)					
Stage 9 (Zoo	ne I - TS4-D01 to TS	4-D08)					-	1				1			
A-3050	Remaining remova	of temporary reclamation (Zone I)	7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 18	-342d	Remaining remo	wal of temporary	reclamation (Zone				9	
A-3060	Hole coring (Qty: 2		7d/wk-2	5d						redamation (Zone				3	1
A-3070	1 2 0 - 5 7 7 7 7 7		4.00000		02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	The state of the						
	D-Wall vertical cutti		7d/wk-2	3d	07-Od-14 08	09-Oct-14 18	-342d	D-Wall vertica	cutting (Qty: 14)	pcs.)				3	-
A-3080	D-Wall horizontal o	utting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hor	zontal cutting (Qt	y: 24 pcs.)					
Stage 8 (Zor	nes G & K - TS4-D2	4 to TS4-D15 )													
A-4040	Relocation of RHK	C floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating pont	toon					1
A-4050	Hole coring (Qty: 2	7 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Qt	y: 27 nos)					8	-
A-4060	Marine removal of (Zone G & K)	temporary reclamation and seawall blocks	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	oval of temporary	reclamation and se	eawall blocks (Zo	ne G & K)		0.000	
A-4070	D-Wall vertical cutti	ing (Qty. 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d		tical cutting (Qty:						
A-4080	D-Wall horizontal or	utting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d		rizontal cutting (C						
Stage 10 (Ze	one J - TS4-D09 to T			120		17.02.11.0			recorner conting (c	cry, 20 pus.)				5	
														-	
A-4090	Land removal of ter	mporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	of temporary re	clamation (Zone J)					
A-5000	Hole coring (Qty: 3)	2 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	■ Hole coring	(Qty: 32 nos)						1
A-5010	Marine removal of	temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d	Marine re	moval of tempora	ry reclamation (Zor	ne J)				
A-5020	D-Wall vertical cutti	ng (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall v	ertical cutting (Qt	y: 20 pcs.)					
A-5030	D-Wall horizontal co	utting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	norizontal cutting	(Qty: 26 pcs.)					
Stage 13 - Ph	ase 3 Mooring					10.00			100000000000000000000000000000000000000			-			
A-5050	Final trimming of se	a bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Eight trim	iming of sea bed I	lovel					
A-5060	Phase 3 Mooring	7.913.218	7d/wk-2	6d	and was	1	(2.20)			evei					
			1772	77	06-Nov-14 08	11-Nov-14 18	-347d	Phase 3							
A-5040		xisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d	Reinst	atement of exisiting	g seawall (Zones I	& J)				
	-provisioning of Je	tty													1
S6_5258	Provision of Mobile is completed)	Crane (until permanent re-provision of Jetty	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d		Provision of Me	obile Crane (until pe	ermanent re-prov	rision of Jetty is	completed)		
A-6010	BA8 submission and superstructure	d consent for commencement of	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submiss	ion and consent fo	or commencement	of superstructure				
Summar	y Bar	2 of 18							Pr	epared by William 0	Caluza	1		-	1
	evel of Effort	Chi Ci-	to Constant	tion F	deserve di	. Kanalini			Date	Revision	Checked Ap	proved			
Actual W		Cnina Sta	te Construc	uon Eng	gineering (Hong	rong) Ltd		26-	Sep 1st submis	ssion			क्षेत्र विकास का	- 程/三 24 V	
Remainin	ng Work	Contract No. HY/2009/15 - Central V	Wan Chai B	y Pass -	Tunnel ( Cause	way Bay Typi	hoon She	elter Section)						工程(香港)	
Critical R	temaining Work						1 300 100	_	-				CHINA SIAIE CONSTI	OCTION ENGINEERING	HONG KONG
◆ Milestone		1	NORKS P	ROGR	AMME REV.	M		-							

vity ID	Activity Name	Calendar	Original	Start	Finish	Total				2015				2016	
A ROLD	Cubalisains of a forman and		Duration			Float	Q4		Q1 Q2	Q3		Q4	Q1	Q2	Q3
A-6012	Submission of performance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submiss	sion o	of performance report	§ .	-			75	
A-6020	Erection of working platform for jetty beams and reinstate the floating portoon	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	■ Erec	ction o	of working platform for jetty bean	s and reinstate	the floating	portoon			
A-6040	BA10 submission for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BA1	0 sub	omission for authorized signatory	and subcontra	ctor				
A-6030	Jetty beams construction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d	■ Je	etty b	eams construction						
A-6052	Construction of floating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Cor	struction of floating pontoon	Ē	1				
A-6050	BA13 submission + 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	_	<b>=</b> E	BA13 submission + 14-day cube	est results					
A-6060	E&M and accessories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d		8	E&M and accessories installatio	n.					
A-6070	Handover to RHKYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d			Handover to RHKYC		8				
Stage 11 - C	onstruction of TZ4			1				+			-				
A-6080	South side - laying rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	South side	lavin	g rockfill and levelling stone (Qt	550 ev av					
A-6090	South side - install seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Oct-14 18	-339d	San San San								
A-7000	South side - general fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Oct-14 08					tall seawall blocks (Qty: 255 nos	.)					
A-7010	North side - laying rockfill and levelling stone (Qty: 1,550 cu.m)			2007	13-Oct-14 18	-339d			neral fill (Qty. 2,000 cu.m.)						
		7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d			laying rockfill and levelling stone		u.m)				
A-7020	North side - install seawall blocks (Qty. 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	■ North	n side	- install seawall blocks (Qty: 255	nos.)					
A-7030	North side - general fill (Qty:2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 North	h side	- general fill (Qty:2,000 cu.m.)						
A-7040	Handover to contract TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Hand	dove	to contract TS3/SR8						
TS4/ME4, Re	emoval of Temporary Reclamation														
S26875	Completion of Section 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Cor	mplet	ion of Section 2 (With ME4 optio	n) (KD7)				,	
S26890	Completion of Section 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Cor	mplet	ion of Section 7B (ME4) (KD13)						
TS4 - OHVD	/ Cable Trough							+			-				
S5_6185	TS4 (incl, TS4+) - OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d			TS4 (ind. TS4+) - OHV	Slab - Area C	(access thro	ough temp	opening at TZ4)		
S5_6190	opening at TZ4) TS4 (incl. TS4+) - Cable Trough (access through temp. opening	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d				+	1		temp, opening at	T74)	
S5_69850	at 124)  Completion of Section 5 - TS4/ME4 Area (KD10), below	7d/wk-2	Od	The second	02-Nov-15 18*	0d	1				1			S4/ME4 Area (KD	10\ b=b==
Works in T	PCWAE Area (Portion 20A, 20B)			_	3,77, 10,75		-	4				P Comple	noti of Section 5 - 1	S4/ME4 Area (KD	10), below-,
1000		-									İ				
	Temporary Reclamation														
Removal of	Temporary Reclamation & Form TZ5														
S87670	Remove general fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove ge	enera	fill /sea wall block						
S67675	Diaphragm wall saw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d	Diaphragn	m wa	I saw cutting (1st D Wall cut on :	3 Jun 2014)					
S67755	Form TZ5	7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d	Form TZ5	5.							
Summa	ry Bar 3 of 18								Prepared by Willian	n Caluza		T			
	aval of Effort			10.0000 111	20			Da			Approved	1			
Actual V	China Stat	e Construc	tion Eng	ineering (Hong	Kong) Ltd			26-S	ep 1st submission				-	- 30/ - 30/ -	
Remaini	ing Work Contract No. HY/2009/15 - Central V	Van Chai B	Pass -	Tunnel ( Cause	way Bay Typh	hoon She	elter Section)					Sien		工程(香港)列	
Critical F	Remaining Work						The state of	-					CHINA SIATE CONSTR	UCTION ENGINEERING (	HONG KONG)
<ul> <li>Mileston</li> </ul>		VORKS D	ROGR	AMME REV.	M		-	_				4			

ivity ID	Activity Name	Calendar	Original	Start	Finish	Total			2	015			2016	
S67685	Achievement of KD5	741.1.0	Duration		40.0	Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		7d/wk-2	0d		16-Oct-14 18	-323d	<ul> <li>Achievement</li> </ul>	of KD5	į.					
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	Od		27-Oct-14 18	-322d	◆ Complete F	Reinstatement o	f Vertical Seawall (n	ear PRE Office)				
Reinstate M	fucking Out Access Shaft "C"													
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	0d	26-Mar-16 08	1	-102d							Start reinstate	
S67225	works)  Cast slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d								
S67230	Removal of vertical shaft and backfilling	7.57.77		LOUIS NAT	1	11.000			1				Cast slab	opening at top
	Control of the second s	6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d			1					Removal of ve
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d			1					Reinstateme
TPCWAE - C	DHVD / Cable Trough			-Hie-					1					
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	0d			1		TPCW	AE - Cable Troud	gh (access through	temp opening
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od							AT Area A (access	
S5_59840	opening at TZ5 & Portion 19)  Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od		02-Nov-15 18*	Od	1							
	-20mPD	1 di Wit-E	ou .		02-1404-10-10	ou					◆ Comple	etion of Section 5	- TPCWAE Area (F	(D10), below -:
Works in I	FPCWAW A rea													
TPCWAW - 1	Temporary Reclamation						16							
Temporary I	Reclamation -						1		1					-
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	■ TPCWAW -	place levelling s	tone and tamping, S	South side				
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d			block to +4 at Sout	-				
S6_9465	nos. @ 50 nos/day)  TPCWAW - place levelling stone and tamping, North side				1230120				1		s. @ 50 nos/day	2		
		7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d	TPCWAL	N - place levell	ng stone and tampi	ng, North side				
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d	TPCV	VAVV - place sea	wall blocks to +4 No	orth side (Qty:672 n	os @ 50 nos/da	y)		
56_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Noy-14 08	01-Dec-14 18	-122d	TPC	WAW - Genera	al fill to +2 within the	seawall				
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d	■ TP	CWAW - place	: seawall blocks to +4	at the temporary of	pening			
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall.	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d			naining General fill t					
TPCWAW - I	Diaphragm Wall				100000000000000000000000000000000000000	-		7.07.00	naming Centeral IIII	- wallet die sea	100			
Diaphragm	vyali						1		1					1
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d	1	Site inves	tigation					
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d	-	Install gu	ide wall				1	ŧ
S6_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d		Curtain	grout along proposi	ed diaphragm wall				į
56_9382	Set up bentonite silo/plants and equipments	7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d			ntonite silo/plants ar				1	
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d				II T	Oct up be						1
		- 0.010	100	30-Jan-15 08	14-Apr-15 18	-141d			Diaphragm v	vall construction (34	panels @ 3 par	nels/ week)		1
56_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install she	ar pins on diaphrag	n wall			
Summa	ry Bar 4 of 18								repared by William	Caluza			SX.	1
	evel of Effort China State	Construc	tion Eng	ineering (Hon	g Kong) Ltd			ate Sep 1st subm	Revision	Checked App	roved			
Actual V	VOIK							in audin	NotUII		779	中國連邦	工程(香港	)有阻公
	ing Work Contract No. HY/2009/15 - Central W	an Chai By	Pass -	runner ( Caus	eway Bay Typi	noon Shelt	er Section)				conce		STRUCTION ENGINEERIN	
◆ Mileston		ORKS P	ROGR	AMME REV	М									

	Activity Name	Calendar	Original Duration	Start	Finish	Total				2	015			2016	
S6_9355	Install king posts	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	Float	Q4	Q1		Q2	Q3	Q4	Q1	Q2	Q3
					2016332	-133d				Install king	posts				
S6_8970	Diaphragm Wall Pile test	7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d				Diaphrag	gm Wall Pile test				
56_9375	Carry out contact/fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d				Carry out o	contact/fissure gr	outing			
TPCWAW- E	LS Works						1		-			-			
ELS Works								-			-				
S6_9360	Install dewatering wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d				Install dewa	atering wells and	niezometere			
S6_9365	Install inclinometers inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d					clinometers insid				
S6_8975	Carry out pumping tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d									
S6_8980	1st Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1				1000			1		it pumping tests				
			10d	06-May-15 08	15-May-15 18	-141d	1		1	1st La	yer - D Wall cor	c over break if any	Soft Excavation		
S6_9260	Submit pumping test report	7d/wk-1	1d	06-May-15 08	06-May-15 18	-137d			1	1 Submit p	pumping test rep	ort			
S6_8985	1st Layer - install lateral support	7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			1	1st L	ayer - install late	eral support			
S6_8990	Install vibrating wire strain gauge	7.d/wk-1	10d	16-May-15 08	26-May-15 18	-141d			1	Insta	all vibrating wire	strain gauge			
S6_8995	2nd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d			1	2nd	Layer - D Wall	conc over break if ar	y & Soft Excavation		
S6_9000	2nd Layer - install lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d			1	■ 2r	nd Layer - install	lateral support			
S6_9005	3rd Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d			- 1	<b>3</b>	: rd Layer - D Wa	I conc over break if	any & Soft Excavati	on	
\$6_9010	3rd Layer - install lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d						Il lateral support			
S6_9015	4th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d					4th Layer - D V	Vall conc over break	if any & Soft Excav	ation	
S6_9020	4th Layer - install lateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d						stall lateral support	1		
S6_9025	5th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d					5th Layer -	D Wall conc over br	eak if any & Soft Ex	cavation	
\$6_9030	5th Layer - install lateral support	7d/wk-1	10d	27-Jun-15 08	07-Jul-15 18	-141d			1	10	5th Layer -	nstall lateral support			
S6_9035	6th Layer - D Wall conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d			8		6th Layer	- D Wall conc over	break if any & Soft	Excavation	
S6_9040	6th Layer - install lateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			8		6th Laye	er - install lateral sup	port	1	
TPCWAW - R	OCK EXCAVATION								-			1		-	
S6_6180	Rock excavation to formation	7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d						Rock o	xcavation to formati	00	
S6_9370	Install tie back anchor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d			1		Insta	I tie back anchor to			- 44\
S6_9415	Portion 11) Install tie back anchor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d			1			tie back anchor to D			SII 117
\$6_9055	Provide Access to WDII Contractor for demolition of bulkhead at Portion 11	7d/wk-2	Dd		10-Nov-15 18	-133d			1					ontractor for demolit	tion of bulkbe
TPCWAW- CO	CT RC Structure											7,000			non or supplie
TPCWAW-C									- 1						
11010111-0	or rong.														
Summar										ared by William			-		
Actual Le	China Stat	e Construc	tion Eng	ineering (Hon	g Kong) Ltd			Date 26-Sep 1st		Revision	Checked A	pproved			
Actual W	/ork						2.00	20-зер.,, 150	SGDITIISSIC	/II		700	中國連第二	程(春港)角	<b>下阻公司</b>
Remaini		Van Chai B	Pass -	Tunnel ( Caus	eway Bay Typi	noon Shelter	Section)							CTION ENGINEERING (H	
Milestone	Remaining Work	VORKS D	ROCP	AMME REV	M										
₩ WINESTON	· · · · · · · · · · · · · · · · · · ·	- OILIO F	ROGR	AMINIE REV.	. 1/1										

tivity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	F. St St St.	the second	21	015			2016	
S6_9070	TPCWAW Construct tunnel base slab	7d/wk-1	1000000	22 0-1 45 00	44 5 - 45 45		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		/ d/wk-1	50d	23-Oct-15 08	11-Dec-15 18	-141d						PCWAW Constru	ct tunnel base sla	b
S6_9075	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d	13					TPCWA	W Construct tunn	el wall + OHV
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (incl. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d		1				TP	CWAW - external	waterproofing
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d							CWAW King post	
TPCWAW - F	Removal of Temporary Reclamation			1000000		1							CANANA Usid bost	luau transier
	A STATE OF THE PARTY OF THE PAR													
	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion 11 (concurrent activities)	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d		1					Backfilling/Remov	al of ELS/ Re
S6_9105	Remove general fill/ seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08	30-Mar-16 18	-120d		1					Remove gener	al fill/ seawall
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d	1	1					Saw	cut diaphrag
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	0d		23-May-16 18	-121d						1		
TPCW/NW/ C	Cable Trough/ Maintenance Walkway				20 1000	12.19							♦ Con	npletion of Se
S6_9085	TPCWAW - Cable Trough (access through temp. opening at Portion 19)	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d		1					TPCWAW - Cat	ble Trough (a
S6_9135	Completion of Section 5 - TPCWAW Area (KD10), below -20mPD	7d/wk-2	0d		25-Mar-16 18	-144d		1					Completion of S	ection 5 - TP
Works in V	Nan Chai PCWA (Portion 11)				-									
Initial Works	s & Utilities Works			_		-			_					
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation of	f Hanedina						
	The state of the s		100		10000000	1000								
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock mou	nd					
54_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	Carry ou	Site Investigation f	or BW1/BW2					
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	0d		07-Nov-14 18	-61d	♦ BW1/B\	V2 Engineers confir	mation of provision	nal Barrettes				
Allow Acces	ss to WDII													1
S4_2785	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	Od	1	10-Nov-15 18	-132d					◆ Comple	ete Section 4 - Por	tion 11 (KD9)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	Dd		10-Nov-15 18	-129d								
		TSOME !	ou.		10-1404-13 10	-1290					◆ Keturn	Portion 11 to WDI		
75 34 10 10 10	Mined Tunnel (Portion 16, 17, 18)													
SR8 (Tunnel	Excavation + Lining)													
From West (	(TPCWAE)													
Heading Ex	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statuto	ory holiday)					1							
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m	7d/wk-1a	16d	03-Sep-14 08 A	28-Sep-14 18	164d	SR8 Heading Ex	cavation From We	st. CH 4095- 410	7 = 8m @2d/m				
Bench Exec	@2d/m avation (1.5d-2d/m, 20m separation with heading)							1						
Section Automatic														
A8700	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	7d/wk-1a	20d	08-Sep-14 08 A	24-Sep-14 18	148d	SR8 Bench Exca	vation From West,	CH 4055- 4065 =	10m				
Summa									pared by William					
Actual L	Level of Effort China State	e Construc	tion Eng	ineering (Hon	g Kong) Ltd			Date -Sep 1st submiss	Revision ion	Checked App				
	ning Work Contract No. HY/2009/15 - Central V	Van Chai B	y Pass -	Tunnel ( Caus	eway Bay Tvp	hoon Shel	Contract Con					中国運祭: CHINA STATE CONSTRI		
	Remaining Work										10000	CHINA SIATE CONSTRI	OCTION ENGINEERING	HUNG KONG
<ul><li>Mileston</li></ul>	ne V	VORKS P	KUGR	AMME REV	. IVI			*						

ID	Activity Name	Calendar	Original	Start	Finish	Total	2015 2016
			Duration			Float	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SR8 Bench Excavation From West, CH 4065- 4075 = 10m
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-Od-14 08	04-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4075- 4085 = 10m
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d	SR8 Bench Excavation From West, CH 4085- 4095 = 10m
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d	SRB Bench Excavation From West, CH; 4095- 4100 = 5m
From East (1	TS4)			-			
Heading Ex	ccavation (2d/m, 24h/day work shift, 7d/week, no work on statu	tory holiday)				-	
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Excavation From East CH 4115- 4107 = 8m @2d/m
Bench Exca	avation (1.5d/m, 20m separation with heading)				-		
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 0B	09-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m
A8470	SR8 Bench Excavation From East, CH 4135-4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR8 Bench Excavation From East, CH 4135- 4125 = 10m
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	Od	SR8 Bench Excavation From East, CH 4125- 4115 = 10m
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	Od	SR\$ Bench Excavation From East, CH 4115- 4100 = 15m
Tunnel Linin	ng Works				1		
From West	- Base Slab (10m/bay, 10m separation with benching excavation	on)				_	
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab
A8530	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	■ SR8, From West,CH 4025 - 4035 = 10m/bay, base slab
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d	■ SR8, From West,CH 4035 - 4045 = 10m/bay, base slab
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d	SR8, From West, CH 4045 + 4055 = 10m/bay, base slab
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a	8d	05-Nov-14 08	12-Nov-14 18	160d	■ SR8, From West, CH 4055 - 4065 = 10m/bay, base slab
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d	■ SR8, From West, CH 4065 - 4075 = 10m/bay, base slab
200						1	
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	7d/wk-1a	8d	05-Dec-14 08	12-Dec-14 18	148d	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18	150d	■ SR8, From West, CH 4085 - 4095 = 10m/bay, base slab
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d	■ SR8, From West, CH 4095 - 4105 = 10m/bay, base slab
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d	R8, From West, CH 4105 - 4115 = 10m/bay, base slab
From West	t - Lining (5m/bay, 10m separation with base slab)						
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From West, CH 3995 - 4000 = 1bay, lining
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	7d/wk-1a	9d	05-Oct-14 08	13-Oct-14 18	137d	SR8, From West, CH 4000 - 4005 = 1bay, lining
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d	■ SR8, From West, CH 4005 - 4010 = 1bay, fining:
A8590	SR8. From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d	SR8, From West, CH 4010 - 4015 = 1bay, lining
Summa	any Bar 7 of 18						Prepared by William Caluza
	and of Effort	ate Construc	tion En	gineering (Hor	a Kona) Ltd		Date Revision Checked Approved
Actual V	Work						26-Sep 1st submission 中國連算工程(香港)有限公
	ning Work Contract No. HY/2009/15 - Central	Wan Chai B	y Pass	- Tunnel ( Caus	seway Bay Typ	hoon Sh	helter Section) CHINA STATE CONSTRUCTION ENGINEERING (HONG KOI
Critical	Remaining Work	MODKE	PACE	RAMME REV	***		

D	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	04	0.1		2015	0.5			2016	
A8595	SR8, From West, (	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	Q4 SR8, Fr	Q1 om West, CH 40	Q2 015 - 4020 = 11	bay, lining	Q3	Q4	Q1	Q2	Q3
A8600	SR8, From West, (	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	■ SR8, F	rom West, CH	4020 - 4025 =	1bay, lining					
A8605	SR8, From West, (	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d		From West, CH							
A8610	SR8, From West, (	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	■ SR8	From West, Cl	H 4030 - 4035	= 1bay, linir	ng				
A8615	SR8, From West, (	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	I SR	B, From West, C	H 4035 - 4040	0 = 1bay, lini	ing				
A8620	- Inches	CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d		8, From West,	1						
A8625	SR8, From West, (	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d		R8, From West,	1						
A8630	SR8, From West, (	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d		SR8, From Wes							
A8635	4.715.00	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d									
A8640		CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From We							
			1 1 1 1 1 1			1			SR8, From W	The	-31					
A8645		CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From V	Vest, CH 4065	- 4070 = 11	bay, lining				
A8647	SR8, From West,	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From	West, CH 407	0 - 4075 = 1	1bay, lining				
A8648	SR8, From West,	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From	West, CH 40	75 - 4080 =	1bay, lining				
A8649	SR8, From West,	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From	n West, CH 40	080 - 4085 =	= 1bay, lining				
A8651	SR8, From West,	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, Fro	m West, CH 4	1085 - 4090	= 1bay, lining				
A8652	SR8, From West,	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d		SR8, Fr	om West, CH	4090 - 409	5 = 1bay, lining				ļ
A8653	SR8, From West,	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		■ SR8, F	rom West, CH	1 4095 - 410	00 = 1bay, linin	9			
A8654	SR8, From West,	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		■ SR8,	From West, Cl	H 4100 - 41	05 = 1bay, linir	ng			
From East -	Base Slab (10m/ba	y, 10m separation with benching excava-	tion)							Ī						
A9775	SR8 From East, (	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	0d	■ SE	88 From East,	CH 4149,5- 41	145 = 4.5m,	base slab				
A9780	SR8 From East, (	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	Od		SR8 From East,	CH 4145-4	135 = 10m/	bay, base slab				
A9785	SR8 From East, (	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From Eas	st, CH 4135 -	4125 = 10n	n/bay, base sla	b			Ī
A9786	SR8 From East, (	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d		SR8 From E	ast, CH 4125	- 4115 = 10	Om/bay, base s	lab		1	1
From East -	- Lining (5m/bay, 10)	m separation will) base slab)		-					-		1	1		-		
A9820	From East, SR8 C	H 4149,5 - 4145 = 4,5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	0d		From East, SR8	3 CH 4149.5 -	4145 = 4,5	m,1 bay, fining				
A9815	From East, SR8 C	H 4145 - 4140 = 1bay, lining	7d/wk-1a	5d	23-Dec-14 08	28-Dec-14 18	6d		From East, SF	8 CH 4145 - 4	4140 = 1bay	, lining				i i
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	5d	29-Dec-14 08	03-Jan-15 18	6d			SR8 CH 4140					Ī	
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	5d	04-Jan-15 08	08-Jan-15 18	6d		From East,							ii i
7,000	Trom Edat, Onto O	114100-4100-1003, mmg	74/1/14	Ju	104541141000	00-0011-10-10	50		E Promissi,	510 511 4155	14150-15	ay, iming				in in
		8 of 18								Prepared by W	filliam Cal-	19				
Summar Actual L	ry Bar evel of Effort			Al	almandan (t)	- (f)   f		_	ate	Revision		Checked Appr	oved			
Actual V		China	State Construc	tion En	gineering (Hon	g Kong) Ltd		26-	Sep 1st subm	ission			nor	中南道	界工程(香港)	<b></b> 有阳公
	ing Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	eway Bay Typ	hoon Shelter	Section)					shilts		NSTRUCTION ENGINEERIN	
Critical I	Remaining Work		Contractor of the		AMME REV						-					

ity ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float				2015			2016	
A9870	From East, SR8 CH 4130 - 4125 = 1 bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	10000	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
						6d		1	st, SR8 CH 4130 -					
A9800	From East, SR8 CH 4125 - 4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d	at the	■ From E	st, SR8 CH 4125 -	4120 = 1bay, lining				
A9860	From East, SR8 CH 4120 - 4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d	1	■ From I	ast, SR8 CH 4120	- 4115 = 1bay, lining				
A9855	From East, SR8 CH 4115 - 4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d	1	8 From	East, SR8 CH 4115	5 - 4110 = 1bay, lining				
A9850	From East, SR8 CH 4110 - 4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d	1	B From	East, SR8 CH 411	0 - 4105 = 1bay, lining				
OHVD(10m	n/bay) / Utility Trough				NAME OF STREET	1300	1	1000000		12-17,			1	
A8570		74.4	1001				1							
00	SR8 Tunnel OHVD and utility trough =, 167= 17 bays @ 10m/bay @ 7d/bay	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d				SR8 Tunnel OHVD a	and utility trough	1 = 167= 17 bays @	@ 10m/bay @ 7d/bay	
EB Outer Tu	unnel Excavation													
From West (	(TPCWAE)													
Outer Bend	ch Excavation (1,5d - 2d/m, 20m separation with heading)		-					+	1				-	
A9550	EB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	EB, Outer	Bench From W	est, CH 4035- 4045	5 = 10m				
A9555	EB, Outer Bench From West, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	EB.O	uter Bench From	West, CH 4045-4	1055 = 10m (2d/m)				
A9560	EB, Outer Bench From West, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d				1				
			- 1		1	17.325				55- 4065 = 10m (2d/m)				
A9565	EB, Outer Bench From West, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d		EB, Outer Ber	ch From West, CH	4065- 4075 = 10m (20	d/m)			
A9520	EB, Outer Bench From West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Oute	Bench From West	CH 4075- 4085 = 10n	n (2d/m)			
A9545	EB, Outer Bench From West, CH 4085- 4095 = 10m 1.5d/m)	7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d		EB, Or	ter Bench From W	est, CH 4085- 4095 =	10m 1.5d/m)			
From East (	TS4)		-										-	
Outer Benc	ch Excavation (1.5d-2d/m, 20m separation with heading)	_						-	-					
A9605	EB, Outer Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	40 No. 1440	400-1			1					
1,7,7,7,7				2 7 2 2	18-Nov-14 18	120d	1		om East, CH 4147.					
A9610	EB, Outer Bench From East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d		EB, Outer Benc	From East, CH 41	45- 4135 = 10m (2d/m	)			
A9615	EB, Outer Bench From East, CH 4135- 4125 = 10m (2d/m)	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	120d		EB, Outer E	ench From East, C	H 4135- 4125 = 10m (2	2d/m)			
A9620	EB, Outer Bench From East, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Ou	er Bench From Eas	st, CH 4125- 4115 = 10	m (2d/m)			
A9625	EB, Outer Bench From East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d	1	EB,	Outer Bench From	East, CH 4115- 4105	= 10m (2d/m)			
A9630	EB, Outer Bench From East, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d			EB Outer Bench F	rom East, CH 4105- 40	195 = 10m /1 5	t/m)		
ER /Inner Tu	unnel Excavation + Lining)	1-10.15		1	1	10000		10 10	DD, Dater Dericary	1011) Edst, 011 4100-40	- 10111 (1.00			
From West (	(TPCWAE)						1							
Inner Head	ling Excavation (2d/m, 24h/day work shift, 7d/week, no work	on statutory holi	day)											
A8805	EB,Inner Heading From West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB,Inr	er Heading Fro	n West, CH 3992-	4005 = 13m @3d/m				
A8815	EB,Inner Heading From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od	E	Inner Heading	From West, CH 40	005+ 4015 = 10m @2d/	m			
0.00	9 of 18									9			1	
Summa Actual L	ayol of Effort				5			Date	Prepared by Willia Revision	Checked Appr	oved			
Actual V	China	State Construc	tion Eng	gineering (Hon	g Kong) Ltd		2	6-Sep 1st sul	mission		anc.	中南津知	丁醇(蒸饼)3	- BE /
	ning Work Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Cause	eway Bay Typ	hoon Shelt	ter Section)				cáliko		工程(香港)引 RUCTION ENGINEERING (F	
	Remaining Work	WORKS	BOOD	ARRIVE DEV								The second second		North
<ul> <li>Mileston</li> </ul>	ne	WURKS	KUGK	AMME REV.	. IVI						- 1			

ity ID	Activity Name	Calendar	Original	Start	Finish	Total			2	015			2016	
A8820	EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	740-4-4-	Duration	00 No. 41 00	147.0	Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
		7d/wk-1a	20d	28-Nov-14 08	17-Dec-14 18	0d		B,Inner Headir	g From West, , CH	4015- 4025 = 10	m @2d/m			- 40
A8780	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	18-Dec-14 08	08-Jan-15 18	0d		EB,Inner He	eading From West,	CH 4025- 4035 =	10m @2d/m			
A8810	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	09-Jan-15 08	28-Jan-15 18	0d		EB,Inne	r Heading From We	st CH 4035- 40	45 = 10m @2	d/m		
A8785	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	29-Jan-15 08	17-Feb-15 18	0d			nner Heading From			200		
A8790	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	18-Feb-15 08	12-Mar-15 18	Od			EB,Inner Heading F	N .		2.1		
A8795	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	13-Mar-15 08	01-Apr-15 18	0d					4.00			1
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a							EB,Inner Head		1			
A8825		00.119.23	20d	02-Apr-15 08	22-Apr-15 18	0d			EB,Inner H	eading From We	st. CH 4075-	4085 = 10m @ 20	d/m	
4.000	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d	23-Apr-15 08	13-May-15 18	0d			EB,Inn	er Heading From	West, CH 408	85-4095 = 10m @	2d/m	
Inner Benc	th Excavation (1.5-2d/m, 20m separation with heading)										-			-
A8765	EB, Inner Bench From West, CH 3992- 4005 = 13m (2d/m)	7d/wk-1a	26d	DB-Nov-14 08	03-Dec-14 18	23d	EB.	Inner Bench Fr	om West, CH 3992-	4005 = 13m (2d	m)			
A8770	EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d		EB, Inner Be	nch From West,CH	4005- 4015 = 10r	n:			
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d			Bench From West,					
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d								
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d						nner Bench From W		į.			
A8745		7		18-Feb-15 08	07-Mar-15 18	11d	1		B, Inner Bench Fro					1
-141904	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d		100	EB, Inner Bench	From West,CH 4	045-4055 = 1	10m		į
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d	1		EB, Inner Be	ench From West,	H 4055- 406	5 = 10m		
A8755	EB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d			EB, Inner	Bench From We	st,CH 4065-4	1075 = 10m		
A8760	EB, Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Dd			EB, In	ner Bench From	West CH 407	5- 4085 = 10m	1	
A8761	EB, Inner Bench From West, CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d			■ EB	Inner Bench Fro	m West CH 4	085- 4095 = 10m		
From East (	TS4)		-				-			W-174-140.0	11	200 10111		
Inner Head	ing Excavation (3d/m, 24h/day work shift, 7d/week, no work on s	tatutory holic	favl											
A8835	EB, Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @			00.1								_ (		
	30/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	0d	1	EB,Inner H	eading From East, C	H 4147.5 to 414	5 = 2,5m, @ 3	d/m		
A8850	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	Od		EB,In	ner Heading From E	ast, CH 4145- 4	35 = 10m, @	3d/m		
A8830	EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	Dd		<b>-</b>	B,Inner Heading Fr	om East, CH 413	5- 4125 = 10n	n @2d/m		
A8840	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	0d			EB,Inner Headin	g From East, CH	4125- 4115 =	10m @2d/m		
A9910	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	Od			EB,Inner He					
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	0d						- 4095 = 10m @20	1/m	
Inner Benci	h Excayation (1.5d-2d/m, 20m separation with heading)								Lo,nine	Treating From E	4 100-	4030 = 10m @20	um .	
A8860		7.10												
MODOU	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d			EB,Inner Bench Fro	m East, CH 4147	5 - 4145 = 2.5	5m		
Summa									repared by William (					
Actual L	evel of Effort China State	e Construct	ion Eng	ineering (Hone	g Kong) Ltd			ep 1st subm	Revision	Checked Ap	proved			
	ing Work Contract No. HY/2009/15 - Central W	lan Chai Pu	Dace 1	Tunnel / Cause	num Dev Turk	oon Challes C		- Fire (sar ampli)			_NA	中國建	架工程(唇港)	有阻公
	Remaining Work	an Chai By	rass -	unner ( Cause	eway Bay Typh	oon Shelter Sect	uon)				Hill	CHINA STATE CO	INSTRUCTION ENGINEERING	CHONG KONG
		www.colon.id.lim		AMME REV.	6.0									

y ID	Activity Name	Calendar	Original Duration	Start	Finish	Total				2	015				2016	
A8865	EB,Inner Bench From East, CH 4145- 4135 = 10m	746.4.4	The same of	10 Her 17 05	00.11	Float	Q4	Q1		Q2	Q3	Q4		Q1	Q2	Q3
1,100,000		7d/wk-1a	15d	12-Mar-15 08	26-Mar-15 18	11d				EB,Inner Bench	From East, CH 4	145- 4135 = 10	0m			
A8870	EB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	28-Mar-15 08	12-Apr-15 18	10d			=	EB,Inner Ber	ch From East, Cl	1 4135- 4125	= 10m			
A8855	EB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	5d				EB,Inner	Bench From Eas	t. CH 4125- 4	115 = 10m			
A8875	EB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	09-May-15 08	23-May-15 18	Od			1		nner Bench From					
A9915	EB,Inner Bench From East, CH 4105-4095 = 10m	7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	0d			1				100			
Tunnel Linis	The state of the s	7 Grane 1G	100	2-may-13 00	00-001-10 10	oq			1	E 6	B,Inner Bench Fr	om East, CH 4	105-4095	= 10m		
	The state of the s											1				
From West	Base Stab (10m/bay, 10m separation with benching excav	ation)			- 3											
A8900	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d		EB From W	est, Base	Slab CH 3990 -	3995 = 1 bay					
A8890	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d		■ EB Fr	om West	t. Base Slab CH	3995 - 4005 = 10	m/bav				
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d					CH 4005 - 4015					
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d					1000								
				13-Feb-15 08	25-Feb-15 18	14d			EBF	om West, Base :	Slab CH 4015 - 4	025 = 10m/bay	y .			
A8915	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d			E É	B From West, Ba	se Slab CH 4025	- 4035 = 10m	vbay			
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d			-	EB From Wes	t, Base Slab CH	1035 - 4045 =	10m/bay			
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d			1	■ EB From	Nest, Base Slab	CH 4045 - 405	55 = 10m/bi	ay		
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d				■ EB Fro	m West, Base Sla	b CH 4055 - 4	4065 = 100	n/nav		
A8880	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	5d										
A8885									1		From West, Base					
	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d			-	<b>=</b> E	B From West, B	ase Slab CH 4	075 - 4085	= 10m/bay		
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	0d					EB From West,	Base Slab CH	4085 - 40	95 = 10m/bay		
From East	Base Slab (10m/bay, 10m separation with benching excav-	tion)	-									t				
A9905	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d			1	EB From E	ast, Base Slab Cl	4149.5 - 414	5 = 4.5m			
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d			-	■ FB Fro	m East, Base Sla	CH 4145 - 4	135 = 10m	lhav		
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d										
		1000		1	100000					■ 58	From East, Base	Slab CH 4135	5 - 4125 = 1	10m/bay		
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	0d			- 1		EB From East, B	ise Slab CH 4	125 - 4115	= 10m/bay		
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Od			-		EB From East,	Base Slab CH	4115 - 411	05 = 10m/bay		
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od			-		EB From Eas	st, Base Slab C	CH 4105 - 4	4095 = 10m/bay		
Lining (5m	/bay, 15m separation with base slab)								-					- +	-	
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d			FR From	West Lining Ch	3990 - 3995 = 1	hau			1	
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d			1			7.				
1,000											CH 3995 - 4000					
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d			EB F	From West, Linin	g CH 4000 - 400	5 = 1bay				
Summa	ry Bar 11 of 18					100				ared by William	Caluza				1	
	evel of Effort China	State Construc	tion End	ineering (Hon	g Kong) Ltd			Date 1st		Revision	Checked Ap	proved				
Actual V	Vork						_	26-Sep 1st	SUPPLIES	on	-	0.00	ा यंग्र	西達起丁	程(香港)引	字明/S
	ing Work Contract No. HY/2009/15 - Cen	tral Wan Chai By	Pass -	Tunnel ( Caus	eway Bay Typh	oon Shelter	Section)					rbit.			ION ENGINEERING	
Critical I     Mileston	Remaining Work	WORKER	POCE	AMME REV												
	le l	VVURNOP	ハレロベ	AWINE KEV.	19/1											

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float	1			015			2016	
A9050	ER From West Lini	ing CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d T	Q4	Q1	EB From West, Lir	Q3	Q4	Q1	Q2	Q3
							V 72 11 17								
A9055	EB From West, Lini	ing CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West,	Lining CH 4010 -	4015 = 1bay			
A9060	EB From West, Lini	ing CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d	-		EB From West	t Lining CH 4015	- 4020 = 1bay			
A9070	EB From West, Lini	ing CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			■ EB From We	est, Lining CH 402	0 - 4025 = 1bay			
A9075	EB From West, Lini	ing CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			■ EB From W	Vest Lining CH 40	025 - 4030 = 1bay	y.		
A9080	EB From West, Lini	ing CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			■ EB From	West, Lining CH	4030 - 4035 = 1b	ay		
A9085	EB From West, Lini	ing CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			■ EB From	West, Lining CH	4035 - 4040 = 1	bay		
A9015	EB From West, Lini	ing CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	į.		■ EB Fro	om West, Lining C	CH 4040 - 4045 =	1bay		
A9020	EB From West, Lin	ing CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			■ EBF	rom West, Lining	CH 4045 - 4050	= 1bay		
A9025	EB From West, Lini	ing CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			■ EB	From West, Linin	g CH 4050 - 405	55 = 1bay		
A9030	EB From West, Lin	ing CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d	1			B From West, Lin	ing CH 4055 - 40	060 = 1bay		
A9035	EB From West, Lin	ing CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d				EB From West, Li	ning CH 4060 - 4	4085 = 1bay		
A9040		ing CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West,	1			
A9045		ing CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od				EB From Wes	1 -			
A8955		ing CH 4075 - 4080 = 1bay		10d	30-Jun-15 08	10-Jul-15 18	0d				EB From We				
			7d/wk-1a	-	11-Jul-15 08		Od			1			080 - 4085 = 1bay		
A8960		ing CH 4080 - 4085 = 1bay	7d/wk-1a	5d	1.50	15-Jul-15 18						Y			
A8970	EB From West, Lin	ing CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d						4085 - 4090 = 1bay		
A8975	EB From West, Lin	ing CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d				EB From	West, Lining CH	4090 - 4095 = 1bay		
A8980	EB From West, Lin	ing CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ EB From	West, Lining Ch	H 4095 - 4100 = 1bay		
A8985	EB From West, Lin	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd		1		B EB From	m:West, Lining C	CH 4100 - 4105 = 1bay	1	
A8990	EB From West, Lin	ring CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Od	1			■ EB Fro	West, Lining	CH 4105 - 4110 = 1ba	y	
A8995	EB From West, Lin	ring CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d				■ EB Fr	rom West, Lining	CH 4110 - 4115 = 16	ay	
A9000	EB From West, Lin	ning CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d				■ EBF	rom West, Lining	CH 4115 - 4120 = 1	bay	
A9010	EB From West, Lin	ning CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	0d	1			B EB	From West, Linin	g CH 4120 - 4125 =	1bay	
A8965	EB From West, Lin	ning CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Od				1 EE	From West, Lini	ing CH 4125 - 4130 =	1bay	
A8935	EB From West, Lin	ning CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd	E			1 E	B From West, Lin	ning CH 4130 - 4135	= 1bay	
A8940	EB From West, Lin	ning CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	0d					EB From West, L	ining CH 4135 - 4140	= 1bay	
A8945		ning CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od			į		EB From West, I	Lining CH 4140 - 414	5 = 1bay	
A8950		ning CH 4145 - 4149.5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Od	İ			i.		Lining CH 4145 - 41		
70000	ED FIORIT WEST, LI		I di ante la	94	1.00 -1000	15 556 10 10	1-24	·		i .	-		1 2 2 3 3 3 3 1		
Summa		12 of 18							Date	Prepared by William Revision	Checked A	pproved			
	Level of Effort	Chir	na State Constru	ction En	gineering (Ho	ng Kong) Ltd			26-Sep 1st subr	CASE ADDRESS AT		-	advertise and	- 20 / 20 20 1	
Actual		Contract No. 119/19996/45 Co.	nter ( Man Chair	u Deec	Tuenet / Com	numar Pay To	boon Shelle	or Contion				03150	中國建築工		
	ning Work	Contract No. HY/2009/15 - Ce	nual wan Chai E	y Pass .	· runner ( Caus	seway bay Typ	moon Snelte	er Section)				TO HELD	CHINA STATE CONSTRU	CTION ENGINEERING	HONG KON
	Remaining Work		MODKE	POGE	AMME DE	/ M									
◆ Milesto	one		WORKS	PROGR	RAMME REV	. M					-				
									I .						

ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	-				115			2016	
OHVD(10m	/bay) / Utility Trough	-				11000	Q4	Q	1	Q2	Q3	Q4	Q1	Q2	Q3
A9095	EB From West OHVD and utility trough =, 167= 17 bays @	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od			1				and any a		
WR Outer Tu	10m/bay @ 7d/bay				02 1107 10 10							EB Fron	West OHVD and	d utility trough =, 16	7= 17 bays @
									2						
From West (															
Outer Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work or	statutory hol	iday)												-
A9651	WB, Outer Heading From West, CH 4085- 4092.5 = 7.5m @ 2d/m	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer H	leading From	West, CH 4	1085- 4092,5 =	7.5m @ 2d/m			1	
Outer Benc	ch Excavation (1.5d-2d/m, 20m separation with heading)													-	
A9680	WB, Outer Bench From West, CH 4025-4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d	■ WB O	iter Bench Fr	nm West C	H 4025- 4035	= 10m				
A9665	WB, Outer Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d									
A9670										L, CH 4035- 40	1	1			
	WB, Outer Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	- V	/B, Outer Ber	nch From W	est, CH 4045-	4055 = 10m			1	
A9675	WB, Outer Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d		WB, Outer I	Bench From	West, CH 405	5- 4065 = 10m			į	
A9700	WB, Outer Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d	1	WB, Out	ter Bench Fr	rom West, CH	4065- 4075 = 1	0m			
A9701	WB, Outer Bench From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d		■ WB, 0	Outer Bench	From West, 0	CH 4075- 4082.	5 = 7.5m		-	
From East (T	TS4)				A			-	-						
Outer Head	fing Excavation (2d/m, 24h/day work shift, 7d/week, no work on	statutory holi	(Neh	_			1					4			
A9730	WB, Outer Heading From East, CH 4105- 4092.5 = 12.5m	7d/wk-1a		30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer H	eading From	Fast CH 41	105, 4092 5 =	12 5m @2d/m				
Outer Benc	@2d/m th Excavation (1.5d-2d/m, 20m separation with heading)							100		33 /200	and Gram				
A9740	WB, Outer Bench From East, CH 4136-4135 = 1m														
		7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	I WB, Oute	Bench From	n East, CH 4	136- 4135 = 1	m			1	
A9770	WB, Outer Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	WB, O	iter Bench Fr	rom East, CH	H 4135- 4125	= 10m				
A9745	WB, Outer Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	28-Od-14 08	11-Nov-14 18	168d	■ WB,	Outer Bench	From East,	CH 4125- 411	5 = 10m				
A9750	WB, Outer Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d	■ v	/B, Outer Ben	nch From Ea	st, CH 4115- 4	105 = 10m	1			
A9755	WB, Outer Bench From East, CH 4105-4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d		WB, Outer B	Bench From	East, CH 410	5- 4095 = 10m				
A9760	WB, Outer Bench From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d	1	WB, O	Outer Bench (	From East, Ch	4095-4082.5	= 12.5m			ì
NB (Inner Tu	unnel Excavation + Lining)						1	1	-						
From West (	TPCWAE						1		-1						
	ing Excavation (2-3d/m, 24h/day work shift, 7d/week, no work o		P.A. A												
		n statutory no	maay)									-			
A9130	WB,Inner Heading From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	0d	WE	Inner Headir	ng From We	est, CH 3993-	4005 = 12m @3	ld/m			
A9135	WB,Inner Heading From West,CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	Od		WB,Inner He	eading From	West,CH 400	5- 4015 = 10m	@2d/m		1	
A9140	WB,Inner Heading From West, CH 4015- 4025 = 10m @2d/m	7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d		WB,Inne	er Heading F	rom West, Ch	4015-4025 =	10m @2d/m			
Summar	ry Bar 13 of 18								Prepare	ed by William (	Caluza	-			1
Actual Le	evel of Effort China Sta	te Construc	tion En	gineering (Hon	a Kona) I td			Date	Rev	vision	Checked A	Approved			
Actual W	Vork					Late.		26-Sep 1st	t submission			000	中国連建	工程(喜港)	有阻公司
Remaining Critical R	ing Work Contract No. HY/2009/15 - Central Remaining Work	Wan Chai By	Pass -	Tunnel ( Caus	eway Bay Typh	hoon Sh	elter Section)					cauto	CHINA STATE CONSTR	UCTION ENGINEERING	CHONG KONG) LT
Milestone		MODECD	POCE	AMME REV	8.6										

	Activity Name	Calendar	Original Duration	Start	Finish	Total Float		20	15		2016	
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	Od Od	Q4	Q1 Q2  WB,Inner Heading From West	Q3 Q4		Q2	Q3
A9105				0.510.7710.0								
	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	Od		WB.Inner Heading From V	Vest, CH 4035- 4045 = 10m (	@2d/m		
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	0d		WB Inner Heading Fro	om West, CH 4045- 4055 = 1	0m @2d/m		
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	0d		WB,Inner Heading	From West, CH 4055- 4065	= 10m @ 2d/m		
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	0d		WB,Inner Hea	ding From West, CH 4065-	1075 = 10m, @ 2d/m		
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	Od		WB,Inner	Heading From West, CH 40	75- 4085 = 10m @ 2d/m		
Inner Beno	h Excavation (1,5d-2d/m, 20m separation with heading)		_									
A9180	WB,Inner Bench From West, CH 3993- 4005 = 12m	7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inner Bench From West, C	H 3993- 4005 = 12m			
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		WB,Inner Bench From Wes	t, CH 4005- 4015 = 10m			
A9190	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d		WB Inner Bench From	West CH 4015- 4025 = 10m			
A9185	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d			rom West, CH 4025- 4035 =			
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d						
A9160									th From West, CH 4035- 404			
	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d			Bench From West; CH 4045-	Tours I here.		
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od		WB,lnr	ner Bench From West, CH 4	055- 4065 = 10m		
A9170	WB,Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	0d		■ WB	Inner Bench From West, Ch	1 4065- 4075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	0d			VB,Inner Bench From West,	CH 4075- 4085 = 10m		
From East (	TS4)											
Inner Head	ing Excavation (2d/m, 24h/day work shift, 7d/week, no work on s	tatutory holis	day)	-			_			-		_
A9210	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 08	02-Feb-15 18	6d		WB,Inner Heading From Ea	st, CH 4135- 4125 = 10m @	2d/m		
			20d	03-Feb-15 08	25-Feb-15 18	6d		WB, Inner Heading From	m Fast CH 4125-4115 = 10	n @2d/m		
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	/d/wk-1a		CLAPS WINE	F. 7 11 12 10				The state of the s			
	WB Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	204	26 Feb 15 08	17-Mar-15-19	EA .		vvb,inner heading		down coulder		
A9230	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	26-Feb-15 08	17-Mar-15 18	6d			From East, CH 4115- 4105 =			
A9230 A9232	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	6d 6d			From East, CH 4115- 4105 =			
A9230	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a						WB,Inner Head		95 = 10m @2d/m		
A9230 A9232 A9225	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	6d		WB,Inner Head	ling From East, CH 4105- 40	95 = 10m @2d/m		
A9230 A9232 A9225	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a 7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	6d		WB,Inner Head	ling From East, CH 4105- 40	95 = 10m @2d/m - 4085 = 10m @2d/m		
A9230 A9232 A9225 Inner Benc	WB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  th Excavation (1.5d-2d/m, 20m separation with heading)	7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d	18-Mar-15 08 08-Apr-15 08	07-Apr-15 18 27-Apr-15 18	6d 6d		WB,Inner Head WB,Inner Head WB,Inner Bench	ling From East, CH 4105-40	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m		
A9230 A9232 A9225 Inner Bene A9235	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  h Excavation (1.5d-2d/m, 20m separation with heading)  WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18	6d 6d 16d		WB,Inner Head WB,Inner Head WB,Inner Bench	ling From East, CH 4105- 40 Heading From East, CH 4095 From East, CH 4135- 4125	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  th Excavation (1.5d-2d/m, 20m separation with heading)  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18	6d 6d 16d 11d		WB,Inner Head WB,Inner Bench WB,Inner Bench	ling From East, CH 4105-40 deading From East, CH 4095 From East, CH 4135-4125 ench From East, CH 4125-4	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m		
A9230 A9232 A9225 Inner Benc A9235 A9240 A9245	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  th Excavation (1.5d-2d/m, 20m separation with heading)  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18	6d 6d 16d 11d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench	ling From East, CH 4105-40 Heading From East, CH 4095 From East, CH 4135-4125 ench From East, CH 4125-4 er Bench From East, CH 411 nner Bench From East, CH 41	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m 1105- 4095 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  ME,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4105- 4105 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 16d 11d 6d 6d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench	fing From East, CH 4105-40 feading From East, CH 4095 From East, CH 4135-4125 ench From East, CH 4125-4 er Bench From East, CH 411 nner Bench From East, CH 466 fB,Inner Bench From East, CH 466	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m 1105- 4095 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa	WB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB, Inner Bench From East, CH 4135- 4125 = 10m  WB, Inner Bench From East, CH 4125- 4115 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18	6d 6d 16d 11d 6d 6d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench	ling From East, CH 4105-40 leading From East, CH 4095 From East, CH 4135-4125 ench From East, CH 4125-4 er Bench From East, CH 411 nner Bench From East, CH 4 (B,Inner Bench From East, CH 4) Caluza	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m 1105- 4095 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa	WB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB, Inner Bench From East, CH 4135- 4125 = 10m  WB, Inner Bench From East, CH 4125- 4115 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m  Ary Bar  Level of Effort  China Stat	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 16d 11d 6d 6d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench	fing From East, CH 4105-40 feading From East, CH 4095 From East, CH 4135-4125 ench From East, CH 4125-4 er Bench From East, CH 411 nner Bench From East, CH 466 fB,Inner Bench From East, CH 466	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m 105- 4095 = 10m H 4095- 4085 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa Actual L Actual L	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m  WB,Inner Heading From East, CH 4195- 4085 = 10m @2d/m  WB,Inner Bench From East, CH 4135- 4125 = 10m  WB,Inner Bench From East, CH 4125- 4115 = 10m  WB,Inner Bench From East, CH 4105- 4095 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  WB,Inner Bench From East, CH 4095- 4085 = 10m  In Bar Level of Effort  Nork	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d 15d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 16d 11d 6d 6d 6d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench	From East, CH 4105-40 Reading From East, CH 4095 From East, CH 4135-4125 Ench From East, CH 4125-4 Er Bench From East, CH 411 Inner Bench From East, CH 416 Inner Bench From East, CH 416 Caluza Checked Approved	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m H 4095 - 4085 = 10m H 4095 - 4085 = 10m		
A9230 A9232 A9225 Inner Bene A9235 A9240 A9245 A9247 A9250 Summa Actual \ Remain	WB, Inner Heading From East, CH 4115- 4105 = 10m @2d/m  WB, Inner Heading From East, CH 4105- 4095 = 10m @2d/m  WB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB, Inner Heading From East, CH 4095- 4085 = 10m @2d/m  MB, Inner Bench From East, CH 4135- 4125 = 10m  WB, Inner Bench From East, CH 4125- 4115 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4105- 4095 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m  WB, Inner Bench From East, CH 4095- 4085 = 10m  Ary Bar  Level of Effort  China Stat	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	20d 20d 15d 15d 15d 15d 15d	18-Mar-15 08 08-Apr-15 08 18-Mar-15 08 08-Apr-15 08 28-Apr-15 08 14-May-15 08 29-May-15 08	07-Apr-15 18 27-Apr-15 18 01-Apr-15 18 22-Apr-15 18 13-May-15 18 28-May-15 18 12-Jun-15 18	6d 6d 16d 11d 6d 6d 6d 6d		WB,Inner Head WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench WB,Inner Bench	From East, CH 4105-40 Reading From East, CH 4095 From East, CH 4135-4125 Ench From East, CH 4125-4 Er Bench From East, CH 411 Inner Bench From East, CH 416 Inner Bench From East, CH 416 Caluza Checked Approved	95 = 10m @2d/m - 4085 = 10m @2d/m = 10m 115 = 10m 5- 4105 = 10m 105- 4095 = 10m H 4095- 4085 = 10m		

y ID	Activity Name		Calendar	Original Duration	Otali	Finish	Total Float					)15			2016	
Tunnel Lini	ng Works			Sur duol1	-		Toat	Q4	-	Ω1	Q2	Q3	Q4	Q1	Q2	Q3
		10m separation with benching excavat	ionl													
A9295		ase Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d						in an			
A9320		ase Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a		04-Feb-15 08		10201	I I	11/5		West, Base Slab C					
A9255			113730	10d		13-Feb-15 18	30d	1			rom West, Base Sla					
25,007		ase Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d				VB From West, Bas					
A9260		ase Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d				WB From West,	Base Slab CH 40	15 - 4025 = 10n	n/bay		
A9265		ase Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d				■ WB From W	lest, Base Slab Cl	H 4025 - 4035 =	10m/bay		
A9300	WB From West, B	ase Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 08	09-May-15 18	20d				■ WB Fro	m West, Base Sla	6 CH 4035 - 404	15 = 10m/bay		1
A9325	WB From West, B	ase Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d				■ WB	From West, Base	Slab CH 4045 -	4055 = 10m/bay	1	1
A9305	WB From West, B	ase Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d				■ V	VB From West, B	ase Slab CH 40	55 - 4065 = 10m/b	ay	i
A9310	WB From West, B	ase Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	0d					WB From Wes	, Base Slab CH	4065 - 4075 = 10n	n/bay	
A9315	WB From West, B	ase Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od					WB From We	est, Base Slab C	H 4075 - 4080 = 5	m	
From East	Base Slab (10m/bay,	10m separation with benching excavati	on)				- 7	Ti-	1					+		
A9960	WB From East, Ba	se Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d				■ WB From	n East, Base Slab	CH 4135 - 4125	= 10m/bay		
A9955	WB From East, Ba	se Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d				■ WB F	rom East, Base S	Slab CH 4125 - 4	115 = 10m/bay		
A9950	WB From East, Ba	se Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d				■ W	B From East, Bas	e Slab CH 4115	- 4105 = 10m/bay		
A9945	WB From East, Ba	se Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	Vi.						105 - 4095 = 10m/t		
A9940	WB From East, Ba	ise Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d	i i						4095 - 4085 = 10r		
A9941	WB From East, Ba	ise Slab CH 4085 - 4080 = 5m	7d/wk-1a	10d	05-Jul-15 08	14-Jul-15 18	- Bd	1						H 4085 - 4080 = 5	T	
Lining (5m	/bay. 10m separation	with base slah)					-	1	-		1	- WBTTOME	an, pase out o	114005 - 4000 - 5	"	
A9430		ining CH 3990 - 3995 = 1bay	740.4.4-	7.4	44.5-45.00	Too Est Jean	1 200			200						
			7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d	I i			From West, Lining					
A9470	1333	ning CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d	1		■ W	B From West, Lining	g CH 3995 - 4000	= 1bay			
A9435	WB From West, Li	ining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d	1		■ V	VB From West, Lini	ing CH 4000 - 400	05 = 1bay			
A9360	WB From West, L	ining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d	1			WB From West, Li	ning CH 4005 - 4	010 = 1bay			
A9365	WB From West, Li	ining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d				WB From West, L	lining CH 4010 -	1015 = 1bay			
A9370	WB From West, Li	ning CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d	1		1	WB From West,	Lining CH 4015	4020 = 1bay			
A9375	WB From West, Li	ining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	I i			WB From Wes	st, Lining CH 4020	4025 = 1bay			
A9380	WB From West, L	ining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d				■ WB From We	est, Lining CH 400	25 - 4030 = 1bay			
A9385	WB From West, L	ining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d	1			■ WB From V	: Vest, Lining CH 4	030 - 4035 = 1ba	ву		
Summa	no. Par	15 of 18						1	1	Dr	repared by William (	Caluza				_
	Level of Effort	200	C+++ C						Date		Revision	Checked Ap	proved			
Actual 1		China	State Construc	tion Eng	gineering (Hor	ig Kong) Ltd			26-Sep	. 1st submis	ssion		nae	中国诗	一提(電学)	3-RH -
Remain	ning Work	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel ( Caus	seway Bay Typi	noon Shel	ter Section)	-	+			00 1 40		工程(唇涎): TRUCTION ENGINEERING	
Critical	Remaining Work	ENTERNANCE AND STORY				21.072			-	1		+		CHINA SIMIE CONS	INCCION ENGINEERING	THOME KOP
<ul> <li>Milesto</li> </ul>	ne		WORKS P	ROGR	AMME REV	. M							-			

ID	Activity Name	Calendar	Original	Start	Finish	Total			20	015				2016	
			Duration			Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
A9390	WB From West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	5.		■ WB From	West, Lining C	4035 - 40	40 = 1bay	-		
A9330	WB From West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d	1		■ WB From	m West, Lining	CH 4040 - 4	045 = 1ba	y		
A9335	WB From West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			■ WB Fr	om West, Lining	CH 4045 -	4050 = 16	ay		
A9340	WB From West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d			■ WBF	rom West, Linir	g CH 4050	- 4055 = 1	bay		
A9345	WB From West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 0B	27-May-15 18	30d				From West, Lin					
A9350	WB From West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d				B From West, L					
A9355	WB From West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	5d	04-Jun-15 08	08-Jun-15 18	30d				/B From West,					
A9415	WB From West, Lining CH 4070 - 4075 = 1bay			11-Jul-15 08		1	14				1				
		7d/wk-1a	5d		15-Jul-15 18	0d						30000	) - 4075 = 1bay		
A9475	WB From West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d	Nê .			■ WB From	n West, Lini	ng CH 407	5 - 4080 = 1bay		
A9440	WB From West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	0d	3			■ WB Fro	m West, Lin	ning CH 40	80 - 4085 = 1bay		
A9445	WB From West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od				■ WB Fr	om West, L	ining CH 4	085 - 4090 = 1bay		
A9450	WB From West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	0d	1			■ WBF	rom West,	Lining CH	1090 - 4095 = 1ba	1	
A9455	WB From West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	0d	į			1 WB	rom West	Lining CH	4095 - 4100 = 1b	зу	
A9420	WB From West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			1 WB	From Wes	t, Lining Ci	H 4100 - 4105 = 11	pay	
A9425	WB From West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	0d	1			s w	3 From We	st, Lining C	H 4105 - 4110 = 1	bay	
A9460	WB From West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od	l i			8 W	B From W	est, Lining	CH 4110 - 4115 =	Ibay	
A9465	WB From West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Od					VB From V	est, Lining	CH 4115 - 4120 =	1bay	
A9395	WB From West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Od					WB From 1	Nest, Linin	g CH 4120 - 4125	= 1bay	
A9400	WB From West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	101				WB From	West, Lini	ng CH 4125 - 413	) = 1bay	
A9405	WB From West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	8			1			ing CH 4130 - 413		
A9410	WB From West, Lining CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od	1						ning CH 4135 - 41		
	pay) / Utility Trough	18.00,18		11 Supp. 15 Su	0.494.10.03	-						77.000, 2	11119 011 4100 - 41	50.0 - 10ay	
-						-	1					755.5	authan a sa		
A9480	WB From West OHVD and utility trough =, 153= 16 bays @ 10m/bay @ 7d/bay	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od						WB From	West OHVD and	utility trough =, 15	3= 16 bays @
completion of	f KD10- Section 5														
A8445	KD10- Section 2: Completion of Mined Tunnel Works (orig. Target KD10- 2 Nov 2015)	7d/wk-2	0d		02-Nov-15 18*	0d					•	KD10- Se	ction 2: Completio	n of Mined Tunnel	Works (orig. 7
iterface wo	orks with other Contracts		Ψ.		-										
5_60115	Handover TZ6 to MTR	7d/wk-2	Od		30-Sep-14 18	-249d	♦ Handover Ta	Z6 to MTR				9 1			
6_5283	Handover TZ4 to CWB(T2)	7d/wk-2	Dd		10-Nov-14 18	-290d	♦ Han	dover TZ4 to CWB(T	2)						
65_5275	Provide access to CWB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	♦ Pr	ovide access to CWB	(CC) Contractor	- TS1 & TS2					
	16 of 18							Dec.	pared by William	Calma					
Summary Actual Lo	y Dai								Revision	Checked	Approved				
Actual Le	Clilia	tate Construc	tion En	gineering (Hor	ng Kong) Ltd			26-Sep 1st submis				-		30 / TE 3# \	2-107 /1 =
Remainin		I Wan Chai R	v Pass -	Tunnel / Caus	seway Bay Typ	hoon She	elter Section)						中國建築2 CHINA STATE CONSTRU		
	Remaining Work	Ondi D	, , , ,	. Limet ( Sub	,, iyp					-		-	THINA STATE CONSTRU	CHON ENGINEERING	INONG KONG) LI
Milestone		WORKS P	ROGE	RAMME REV	. M					-11					
		WORKS P	ROGE	RAMME REV	/. M										

ty ID	Activity Name	Calendar	Original	Start	Finish	Total			20	15				2016	
			Duration			Float	Q4	Q1	Q2	Q3	(	24	Q1	Q2	Q3
5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined Tunnel	7d/wk-2	0d		31-Mar-16 18*	-124d								Provide access to provide a	o CWB (CC)
ge and	Section Completion										1			î	
5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	0d		30-Sep-14 18*	-86d	♦ KD8 - Complete	tion of Section 3, (	1326d)						
5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	Dd		16-Oct-14 18*	-323d	♦ KD5 - Achie	evernent of Stage	5, (1152d)		1				
D_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d		17-Nov-14 18*	-353d	♦ KD1:	3 - Completion of S	Section 7B, (1152d)					į .	
D_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	Od		17-Nov-14 18*	-297d	♦ KD7	- Completion of Se	ection 2, (1152d)						
CD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	Od		10-Nov-15 18*	-132d					1.04	♦ KD9 - C	ompletion of Sec	tion 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	0d		25-Mar-16 18	-144d								KD10 - Completi	on of Section f
KD_5750	KD11 - Completion of Section 5, (1949d)	7d/wk-2	Od		23-May-15 18*	-121d								♦ KD11	- Completion
ortion Ha	andover Date														
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	Od	_	28-Oct-14 18*	-50d	Portion H	landover - Portion	IV(4), KD8 +28						
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	0d	-	28-Oct-14 18*	-50d	Portion I	Handover - Portio	n V (5), KD8 +28	i				4	
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	1	28-Oct-14 18*	-50d	◆ Portion I	Handover - Portion	N (6), KD8 +28						
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	Od		28-Od-14 18*	-50d	Portion I	Handover - Portion	n XIIIB (13B), KD8 +	28					
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	0d	1	28-Od-14 18*	-50d	Portion I	landover - Portior	n XXII (22), KD8 +28	В					
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	1	28-Oct-14 18*	-50d	♦ Portion	landover - Portion	n III (3), KD8 +28		1				
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	Dd		15-Dec-14 18*	-79d		Portion Handove	er - Portion XIIIA (13	A), KD7 +28					
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Od	+	15-Dec-14 18*	-79d		Portion Handove	er - Portion VIII (8), I	KD7 +28					
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	1	15-Dec-14 18*	-79d		Portion Handove	er - Portion XIVA (14	A), KD7 +28					
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	0d	-	15-Dec-14 18*	-79d		Portion Handove	er - Portion XV (15),	KD7 +28					
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Od		15-Dec-14 18*	-79d		Portion Handove	er - Portion XXIII (23	s), KD7 +28					
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	-	30-Nov-15 18*	0d						♦ Po	rtion Handover -	Portion XVIII (18), k	D10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	4	27-Dec-15 18*	Od	3						Portion Hando	ver - Portion XI (11)	KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	0d	-	22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2	0d	-	22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2		1	22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d	l l				÷			<ul> <li>Portion Ha</li> </ul>	ndover - Porti
CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d	1		1					Portion Ha	ndover - Porti
CD_5780	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2			22-Apr-16 18*	-52d								Portion Ha	ndover - Porti
CD_3760	Land and activity to be set to the	TOTAL							Prepared by William	Calum					V 000 0
Actual Remai	Level of Effort  Work  Ining Work  Remaining Work  Contract No. HY/2009/15 - Central	Wan Chai E	By Pass			hoon Sh		Date 26-Sep 1st subr	Revision	Checked	Approved	03050		工程(唇来)	

Activity Name	Calendar			Finish				2	015			2016	
		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od					1		•	Portion Hando
Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d							٠	Portion Hando
Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Od		20-Jun-16 18	Od	i i						•	Portion Hando
Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	Od		20-Jun-16 18	0d	1			1			•	Portion Hando
Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	0d		20-Jun-16 18	0d						L U	٠	Portion Hando
	Portion Handover - Portion VII (7), KD11 +28  Portion Handover - Portion XII (12), KD11 +28  Portion Handover - Portion X (10), KD11 +28  Portion Handover - Portion XXA (20A), KD11 +28	Portion Handover - Portion VII (7), KD11 +28         7d/wk-2           Portion Handover - Portion XII (12), KD11 +28         7d/wk-2           Portion Handover - Portion X (10), KD11 +28         7d/wk-2           Portion Handover - Portion XXA (20A), KD11 +28         7d/wk-2	Duration   Portion Handover - Portion VII (7), KD11 +28   7d/wk-2   0d	Duration	Duration	Duration   Float	Duration   Portion Handover - Portion VII (7), KD11 +28   7d/wk-2   0d   20-Jun-16 18   0d	Duration   Float   Q4   Q1	Duration   Portion Handover - Portion VII (7), KD11 +28   7d/wk-2   0d   20-Jun-16 18   0d	Duration   Float   Q4	Duration   Float   Q4   Q1   Q2   Q3   Q4	Duration   Float   Q4   Q1   Q2   Q3   Q4   Q1	Duration   Float   Q4   D1   Q2   Q3   Q4   Q1   Q2

Summary Bar

Actual Level of Effort

Actual Work

Remaining Work

Critical Remaining Work

Milestone

18 of 18

China State Construction Engineering (Hong Kong) Ltd

Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel ( Causeway Bay Typhoon Shelter Section)

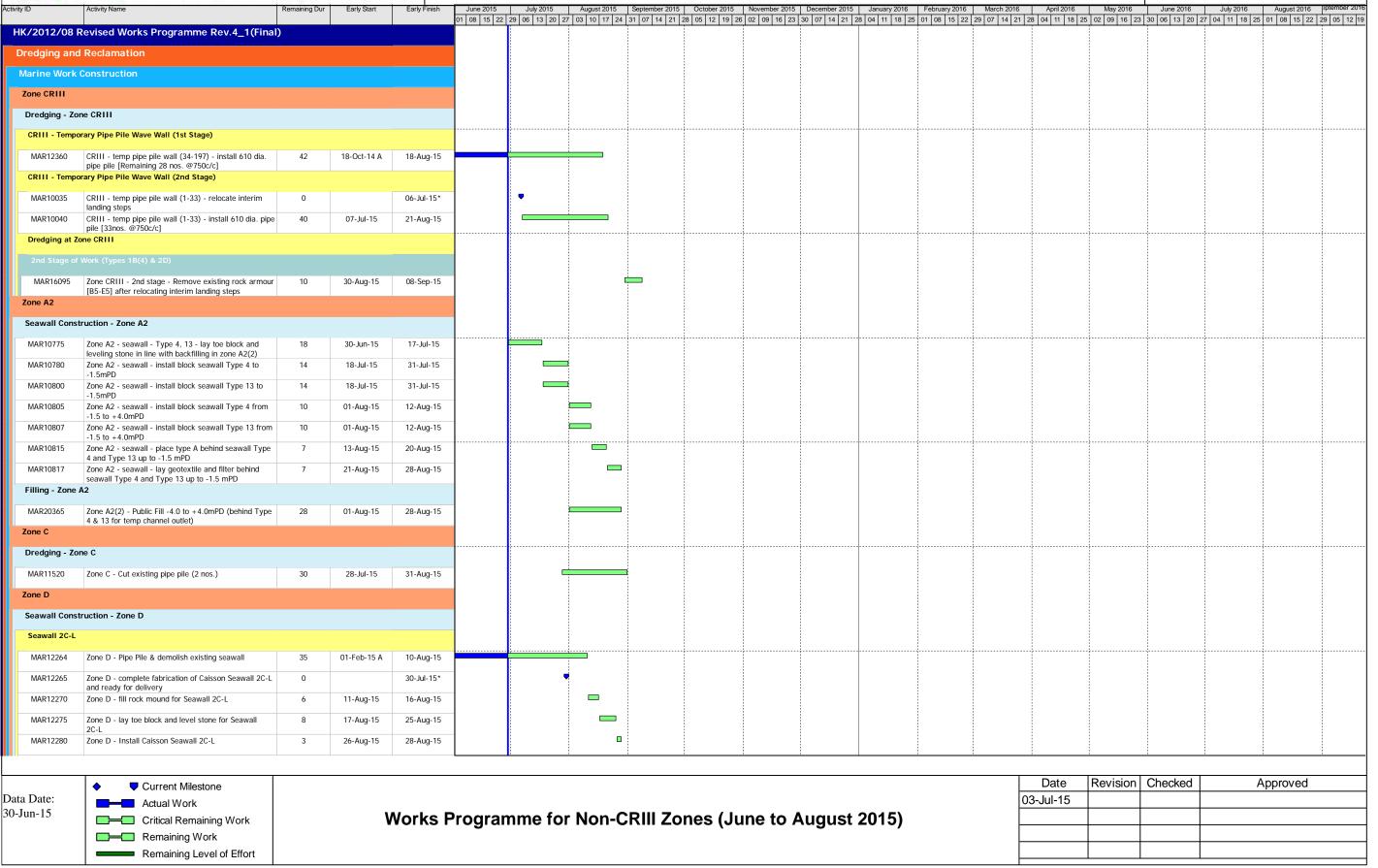
WORKS PROGRAMME REV. M

Date	Revision	Checked	Approved
26-Sep	1st submission		

中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG-LTD.



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ANDRA							Central - Wall C	June 2016 July 2016 Acquist 2015 RDIRMARY ZUTE						
tivity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015 01 08 15 22	July 2015 29 06 13 20 27	August 2015   September 2015   October 2015   7   03   10   17   24   31   07   14   21   28   05   12   19   2	November 2015 6 02 09 16 23	December 2015   January 2016   February 2016	March 2016 2 29 07 14 21 2	April 2016 May 2016 28 04 11 18 25 02 09 16 23	June 2016 30 06 13 20 27 0	July 2016 04 11 18 25 01	August 2016 **ptember**  08   15   22   29   05   1
Seawall 2C-R														
MAR12245	Zone D - fill rock mound for Seawall 2C-L	6	28-Aug-15	02-Sep-15										
MAR12250	Zone D - complete fabrication of Caisson Seawall 2C-R and ready for delivery	0		30-Jul-15*		•								
Works for Sec	ction Completion													
Construction														
Section II - MV	B Structure													
MVB Substruc	ture - ELS & Structural Works for Portion A													
MVB Substruc	ture - ELS for Portion A													
SII11080	Sec II - MVB A - Install Strut L7 at -20mPD	14	02-Jul-15*	17-Jul-15										
SII11100	Sec II - MVB A - Excavation down to -24.45mPD	12	17-Jul-15	30-Jul-15										
MVB Substruc	ture - Structural Works for Portion A											<u> </u>		
	Sec II - MVB A - Construct B3M slab, column and wall	73	31-Jul-15	27-Oct-15										
<u> </u>	ture - ELS & Structural Works for Portion B													
	ture - ELS for Portion B													
SII11680	Sec II - MVB B: Excavation down to -18.5mPD	7	02-Jul-15*	09-Jul-15										
SII11700	Sec II - MVB B: Install Strut L7 at -17.5mPD	8	10-Jul-15	18-Jul-15										
SII11720	Sec II - MVB B: Excavation down to -22.5mPD	7	20-Jul-15	27-Jul-15										
SII11740	Sec II - MVB B: Install Strut L8 at -21.5mPD	8	28-Jul-15	05-Aug-15										
SII11740 SII11760	Sec II - MVB B: Excavation down to -25.45mPD	7		_										
		,	06-Aug-15	13-Aug-15										
	ture - Structural Works for Portion B							<u> </u>						
	Sec II - MVB B: Construct B3 slab, column and wall	85	14-Aug-15	24-Nov-15										
	ture - Piling Works													
MVB C - Prebo														
	Sec II - MVB C - construct prebored H-piles	35	22-Aug-15	03-Oct-15										
	WB Tunnel & Slip Road Structures and Facilities													
CWB CRIII &	A1													
	A1 - Pumping Test Preparation/ Pumping Test													
SIIA11240	Sec II A - CWB A1 - install dewater/ recharge / observation well	17	11-May-15 A	20-Jul-15										
SIIA10780	Sec II A - CWB CRIII - pumping test (CRIII, A1)	10	20-Jul-15	30-Jul-15										
CWB CRIII - E	LS & Tunnel Structure													
CWB CRIII -	ELS													
SIIA10820	Sec II A - CWB CRIII: Shoring & Excavation	42	18-Apr-15 A	18-Aug-15										
SIIA10960	Sec II A - CWB CRIII: Demolish Bulkhead at West End	45	19-Aug-15	12-Oct-15										
CWB CRIII - 1	Funnel Structure													
SIIA10840	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay	45	19-Aug-15	12-Oct-15										
SIIA10880	Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay	45	19-Aug-15	12-Oct-15										
CWB A1 - ELS	& Tunnel Structure													
CWB A1 - ELS	Remaining													
							<u>i i i i i i i i i i i i i i i i i i i </u>	<u> </u>	<u>                                     </u>	<u> </u>	<u>i                                      </u>	<u> </u>	<u> </u>	i



# 中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE

### CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

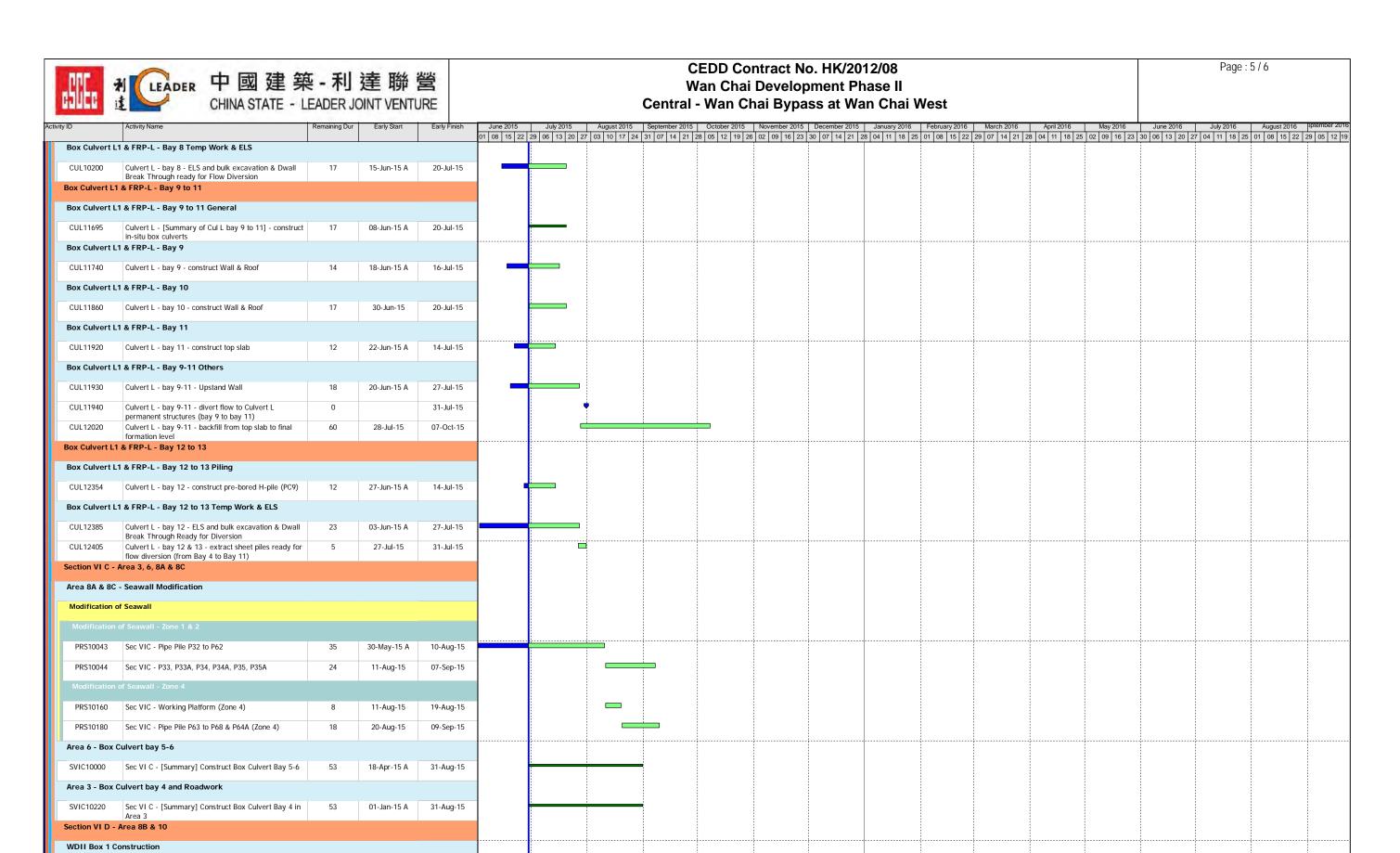
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DUMEN	CHINA STATE - L	EADER J	OINT VENTO	IKE			Central - W	ian Cna	ai Bypass at v	van Chai v	vesi				
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015	July 2015 August 2015	September 2015 Oc	ctober 2015	November 2015   December 20	15 January 2016	February 2016   March 2016   01   08   15   22   29   07   14   21   21	April 2016 May 2016	June 2016	July 2016 August 2	016   sptember 2016
SIIA11286	Sec IIA - CWB A1 : Shoring & Excavation (Remaining)	37	07-Jul-15	18-Aug-15	01 00 13 22	29 00 13 20 27 03 10 17 2	4 31 07 14 21 20 00	7 12 19 20 0	22 03 10 23 30 07 14 2	1 20 04 11 10 23	01 00 13 22 29 07 14 21 2	0 04 11 10 23 02 03 10	23 30 00 13 20 2	7 04 11 10 23 01 00 13	22 29 03 12 19
CWB A1 - Tu	unnel Structure Remaining														
SIIA13045	Sec II A - CWB A1: Pile head + trough + base & wall	45	19-Aug-15	12-Oct-15		_		_							
CWB A1 - Ot	+ OHVD unit (1st bay) her Works														
SIIA15480	Culvert L - [Summary] Bay 9 to Bay 11 on top of CWB	27	08-Jun-15 A	31-Jul-15											
SIIA15500	A1 and divert flow  Zone A2(2) - Public Fill -4.0 to +4.0mPD (behind Type		01-Aug-15	28-Aug-15	-										
CWB A2(2)	4 & 13 for temp channel outlet)		0171ag 10	20 / (49 10											
	Dwall & Piling														
		00	01.4 45	00.4			_								
SIIA13500	Sec II A - CWB A2 : backfill to +4.0mPD	28	01-Aug-15	28-Aug-15											
SIIA15260	Sec II A - CWB A2 : Predrilling for Dwall & piles	40	29-Aug-15	16-Oct-15											
SIIA15280	Sec II A - CWB A2 : Ground treatment	40	29-Aug-15	16-Oct-15											
CWB B (& A2	(1))														
CWB B - Dwa	II & Piling														
SIIA11540	Sec II A - CWB B (&A2(1)) : Construct pre-bored H-pile	27	30-Apr-15 A	31-Jul-15											
SIIA11560	Sec II A - CWB B: Ground treatment to Stop End (MTR CWL)	53	15-Jun-15 A	31-Aug-15			=								
SIIA11565	Sec II A - CWB B: Sheetpile Bulkhead Wall for "Delink"	21	07-Aug-15	31-Aug-15			=								
CWB B - Pum	ping Test Preparation														
SIIA11580	Sec II A - CWB B: Dwall sonic test / interface core	47	13-Jun-15 A	24-Aug-15											
SIIA11600	Sec II A - CWB B: Dwall precaution grout / fissure	47	13-Jun-15 A	24-Aug-15											
SIIA11620	grout / grout curtain Sec II A - CWB B: Install dewatering/ recharging/	40	14-Jul-15	28-Aug-15			•								
CWB C (W)	observation well														
CWB C(W) - E	Owall Construction														
SIIA11960	Sec II A - CWB CW: Ground treatment to Stop End	53	16-Jun-15 A	31-Aug-15			=								
SIIA11980	(MTR TWL) Sec II A - CWB CW: D-wall contact grout / fissure	40	14-Jul-15*	28-Aug-15			<b>3</b>								
SIIA12000	grout Sec II A - CWB CW: Dwall sonic test / interface core	40	14-Jul-15	28-Aug-15			<b>-</b>								
CWB C(W) - F	Pumping Test Preparation / Pumping Test														
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/	40	14-Jul-15	28-Aug-15			•								
CWB C (E)	observation wells														
	nabling Work - Dwall Construction														
CWB C(E) - E	Owall Construction														
SIIA12980	Sec II A - CWB CE: ground pre-treatment	26	30-Mar-15 A	30-Jul-15											
SIIA13000	Sec II A - CWB CE: construct Guide Wall	20	01-Apr-15 A	23-Jul-15											
SIIA13010	Sec II A - CWB CE: construct barrette (1.2m thk)	93	07-Apr-15 A	19-Oct-15											
SIIA13020	Sec II A - CWB CE: construct Dwall (1.5m thk) (on	103	29-Apr-15 A	31-Oct-15											
	rock)		·												
SIIA13030	Sec II A - CWB CE: construct temp Dwall (1.2m)  Work - Dwall Construction	80	28-Jul-15	31-Oct-15											
		400	10 5-1 45 4	21.0 : 45											
SIIA15520	Remaining [7 panels]	103	18-Feb-15 A	31-Oct-15											
	umping Test Preparation/ Pumping Test														
SIIA13085	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	30	28-Jul-15	31-Aug-15											
CWB D - Slip	Road 1														
					-	-	•		· · · · · · · · · · · · · · · · · · ·		-	-	•	-	



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MARK	CHINA STATE - LI	EADER J	OINT VENT	JKE			Central -	wan Chai Bypas	s at wa	in Chai west					
Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015	July 2015 August 2015	September 2015 31 07 14 21 29	October 2015   November 2015	December 2015	January 2016   February 2016   March 2016   8	April 2016 May 2016	June 2016 June 2	uly 2016	August 2016   3	ptember 2016
CWB D - Slip	Road 1 - Dwall Construction & Piling				0. 30 10 22		- 1 01 17 21 20	20 00 10 23	-   0.   17   21   2	2   10   20   31   00   10   22   23   01   14   21   2		25 00 10 20 21 04	25 01	10 10 22 29	100 12 19
SIIA12260	Sec II A - CWB SR1: ground pre-treatment	27	17-Jan-15 A	31-Jul-15											
SIIA12280	Sec II A - CWB SR1: Guide Wall	30	10-Feb-15 A	08-Aug-15											
SIIA12305	Sec II A - CWB SR1: construct Permanent DWall (1.2m	58	07-Apr-15 A	05-Sep-15			_								
SIIA12310	thk) Sec II A - CWB SR1: construct pre-bored H-pile	42	19-Aug-15	08-Oct-15				_							
SIIA12320	Sec II A - CWB SR1: Temp. Cut-off Wall at Both Ends	45	15-Aug-15	08-Oct-15	-			_				- <del></del>			
SIIA12340	Sec II A - CWB SR1: Ground treatment to Stop End	32	29-Aug-15	07-Oct-15		_		<b>_</b>							
	(MTR CWL)  Road 1 - Pumping Test Preparation/ Pumping Test														
SIIA12360	Sec II A - CWB SR1: Grout curtain / contact grout for	38	17-Aug-15	30-Sep-15											
SIIA12380	Dwall  Sec II A - CWB SR1: Dwall sonic test / interface core	38	17-Aug-15	30-Sep-15	_										
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/	38	24-Aug-15	08-Oct-15											
	observation wells  Road D11 & Part of Road P2, Area 4, Implement 1st		24-Aug-13	08-001-13				_							
		Stage ITA													
Roadwork &	Ountes														
General	Con III and the desired a selection of the control	101	01.14. 15.1	01 N - 15											
SIII10040	Sec III - roadwork & utilities - storm water drain & subsoil drain	121	01-May-15 A	21-Nov-15											
SIII10060	Sec III - roadwork & utilities - Watermain & Irrigation Mains	100	07-Jul-15*	03-Nov-15											
SIII10080	Sec III - roadwork & utilities - gas main and valve chamber	100	17-Jul-15	13-Nov-15											
SIII10100	Sec III - roadwork & utilities - HEC cable duct and catchpit	100	27-Jul-15	23-Nov-15											
SIII10120	Sec III - roadwork & utilities - sub-base	100	06-Aug-15	03-Dec-15					l						
SIII10140	Sec III - roadwork & utilities - Road kerb	100	15-Aug-15	12-Dec-15											
SIII10160	Sec III - roadwork & utilities - flexible pavement	100	26-Aug-15	23-Dec-15											
SIII10180	Sec III - roadwork & utilities - Road Lighting, TCSS Ducts &Traffic Signs	100	26-Aug-15	23-Dec-15											
Section VI A -	Box Culvert La, L1 & FRP-L Construction														
Sec VI C - Bo	x Culvert La bay 4 (North)														
CUL11652	Sec VI C - Culvert L - bay 4 (north half) - excavate to formation level	18	25-Jul-15	14-Aug-15											
CUL11655	Sec VI C - Culvert L - bay 4 (north half) - place	10	15-Aug-15	26-Aug-15											
Box Culvert L	granular fill and lay geotextile filter  1 & FRP-L Construction (Bay 5 - Bay 7)														
Box Culvert	_1 & FRP-L - Bay 5 to 7 Structure														
Box Culvert I	.1 & FRP-L - Precast Unit Fabrication (Pile Cap)														
CUL10866	Sec VI C - Culvert L - bay 5-7 - PC1 to PC6 Construct	13	02-Jun-15 A	15-Jul-15											
Box Culvert L	precast Pile Cap  1 & FRP-L - Precast Unit Fabrication (Box Structure)											<del> </del>			
CUL10870	Sec VI C - Culvert L - bay 5, 6 & 7 - Construct precast	17	18-Apr-15 A	20-Jul-15											
CUL10872	culvert units with Bulkhead  Sec VI C - Culvert L - bay 4b - Construct precast	16	16-Jul-15	03-Aug-15	_										
CUL10873	culvert units with Bulkhead  Sec VI C - Culvert L - bay 4b, 5-7 - dismantle	8	04-Aug-15	12-Aug-15	_										
Box Culvert I	formwork and curing for precast culvert units  1 & FRP-L - Precast Unit Installation														
CUL10864	Sec VI C - Culvert L - bay 5-7 - Demolition of Piling	9	30-May-15 A	10-Jul-15								- <del></del>			
CUL10865	Platform Sec VI C - Culvert L - bay 5-7 - Install precast pile	12	11-Jul-15	24-Jul-15	-										
CUL10874	caps PC1 to PC6 Sec VI C - Culvert L - bay 5-7 - Demolition of Temp	16	25-Jul-15	12-Aug-15	_										
CUL10875	Platform & Cofferdam ready for towing precast culvert  Sec VI C - Culvert L - bay 5-7 ( & Bay 4b) - install	16	13-Aug-15	31-Aug-15	-										
	precast culvert units & Touch Up  1 & FRP-L - Bay 8	.0	.5 / ldg 15	5.7.dg 15											
Jox Guivert L	Lattice Buy 0											<u> </u>			



WDII Box 1 Submission and Approval / Material Procurement

1 structure
Section VII - Remainder Works
Landing Steps Construction

PCU60410 Sec VI D - WD II Box 1 - Prepare Subcontract for Box

60

08-Aug-15

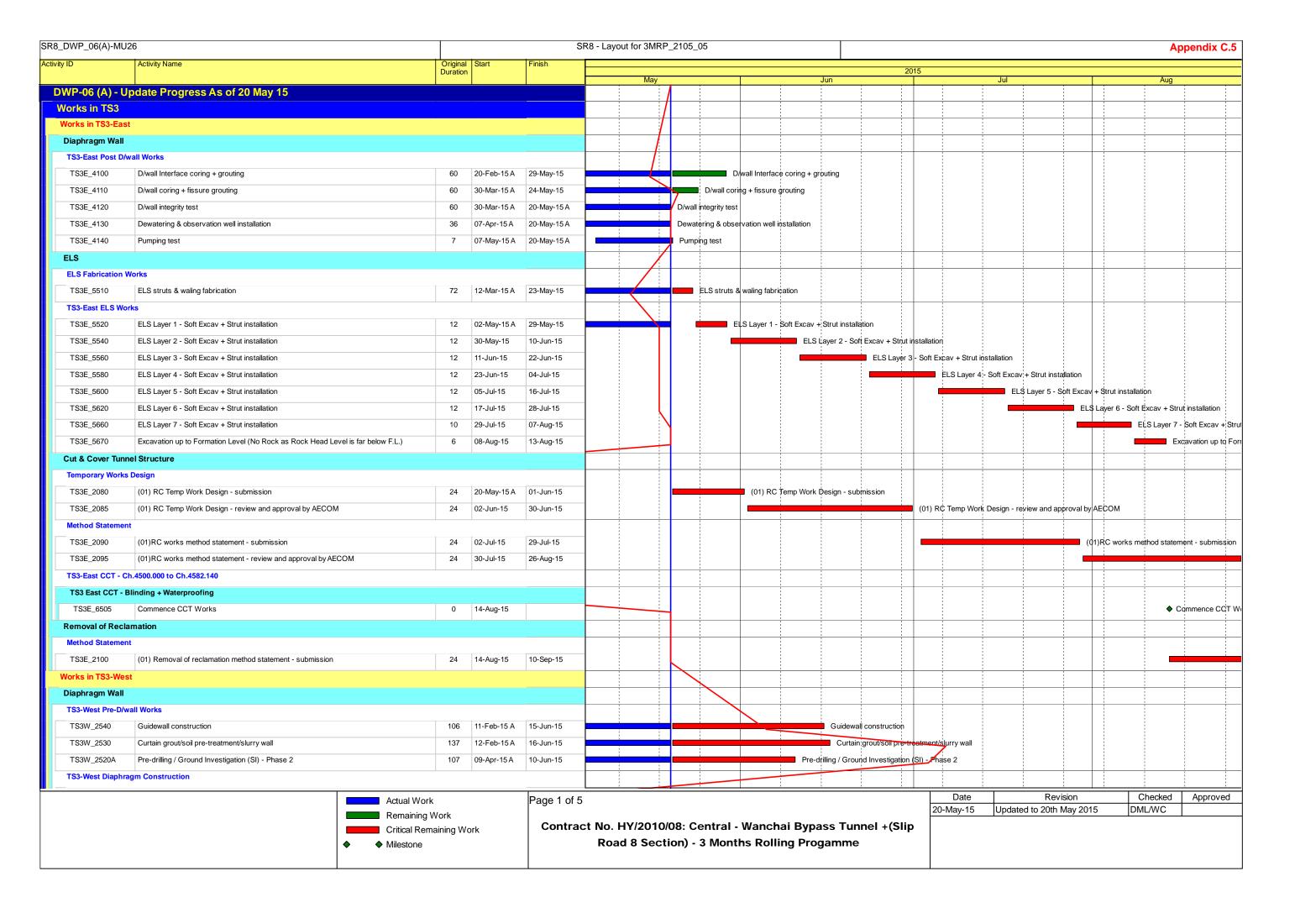
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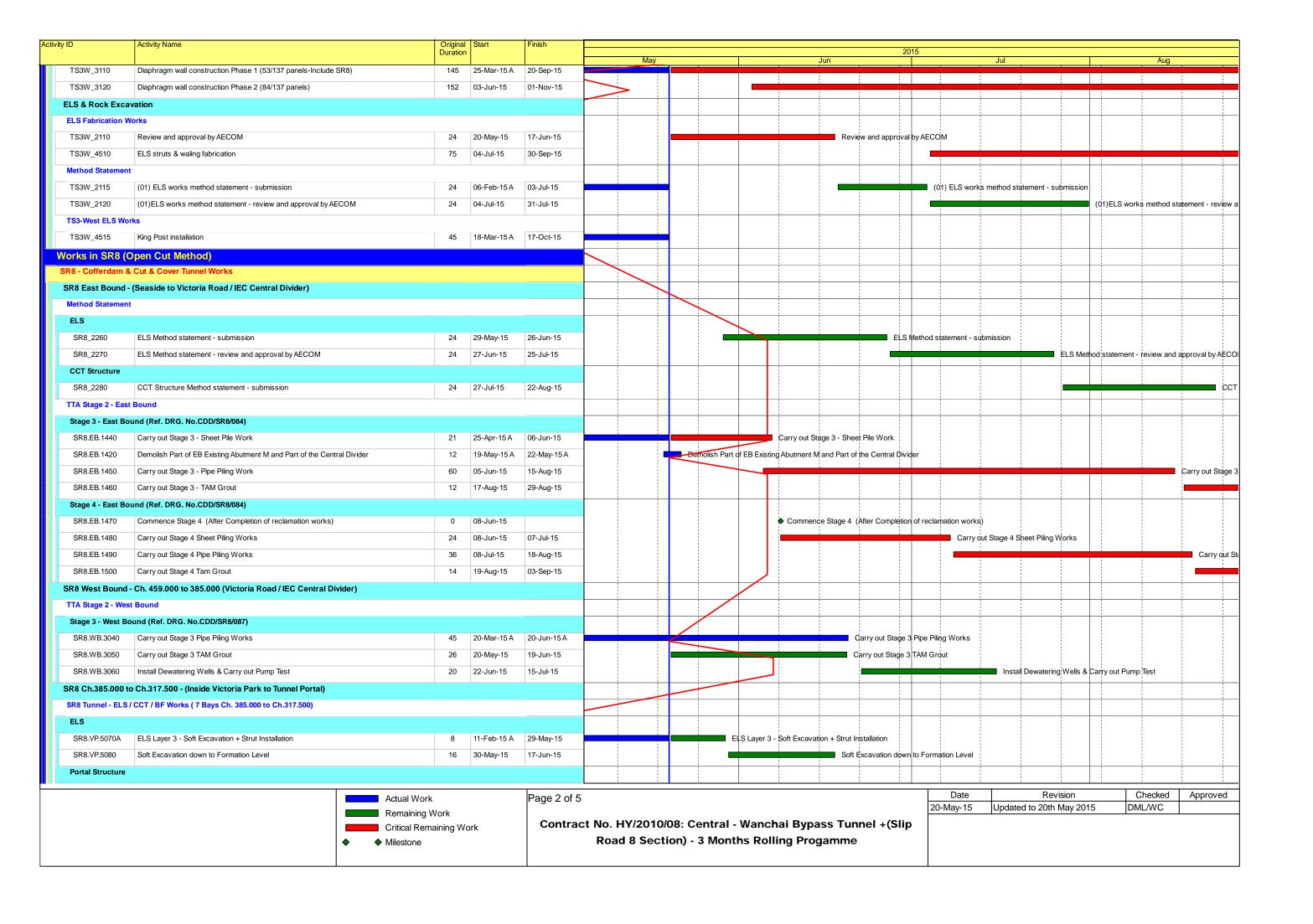


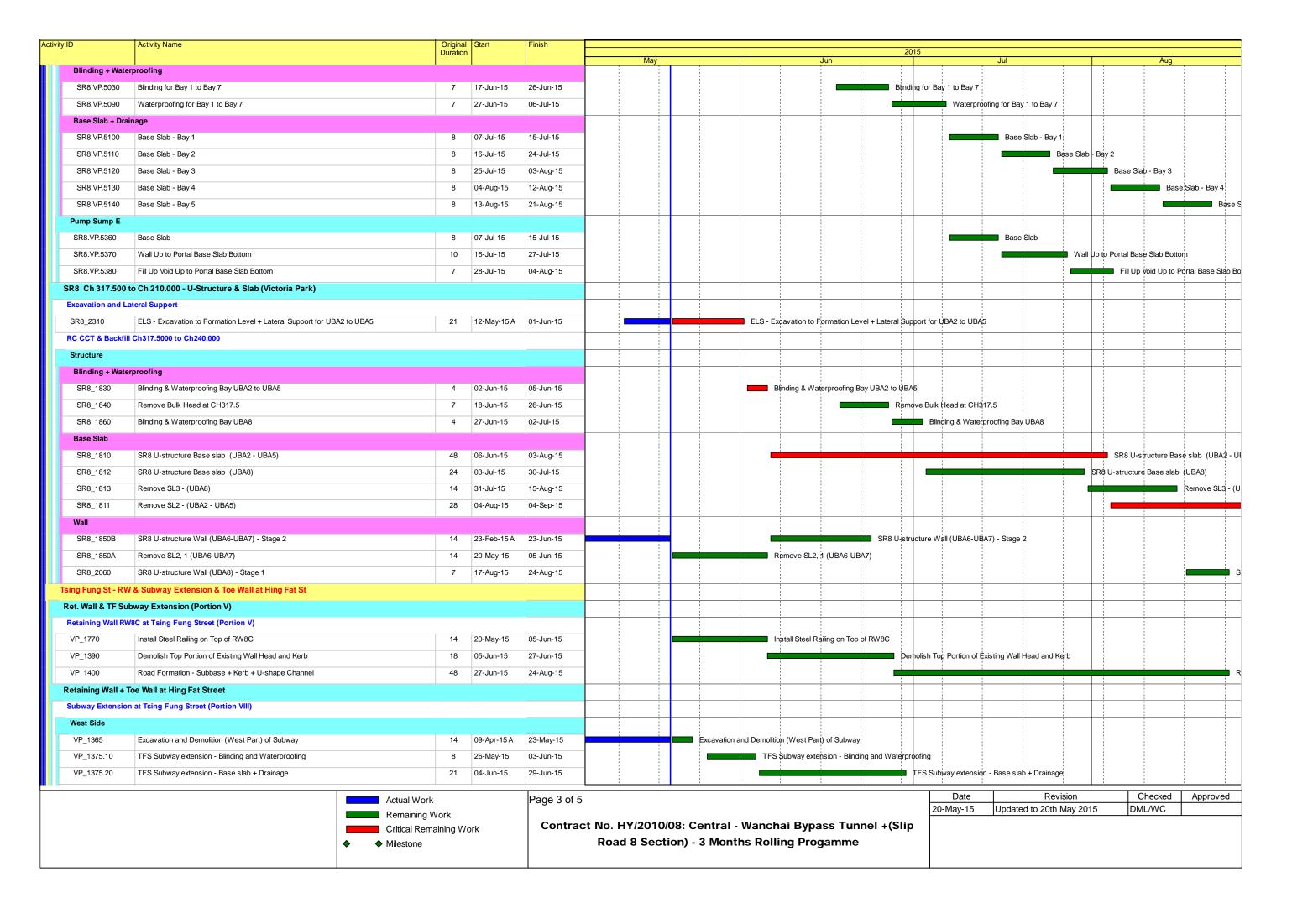


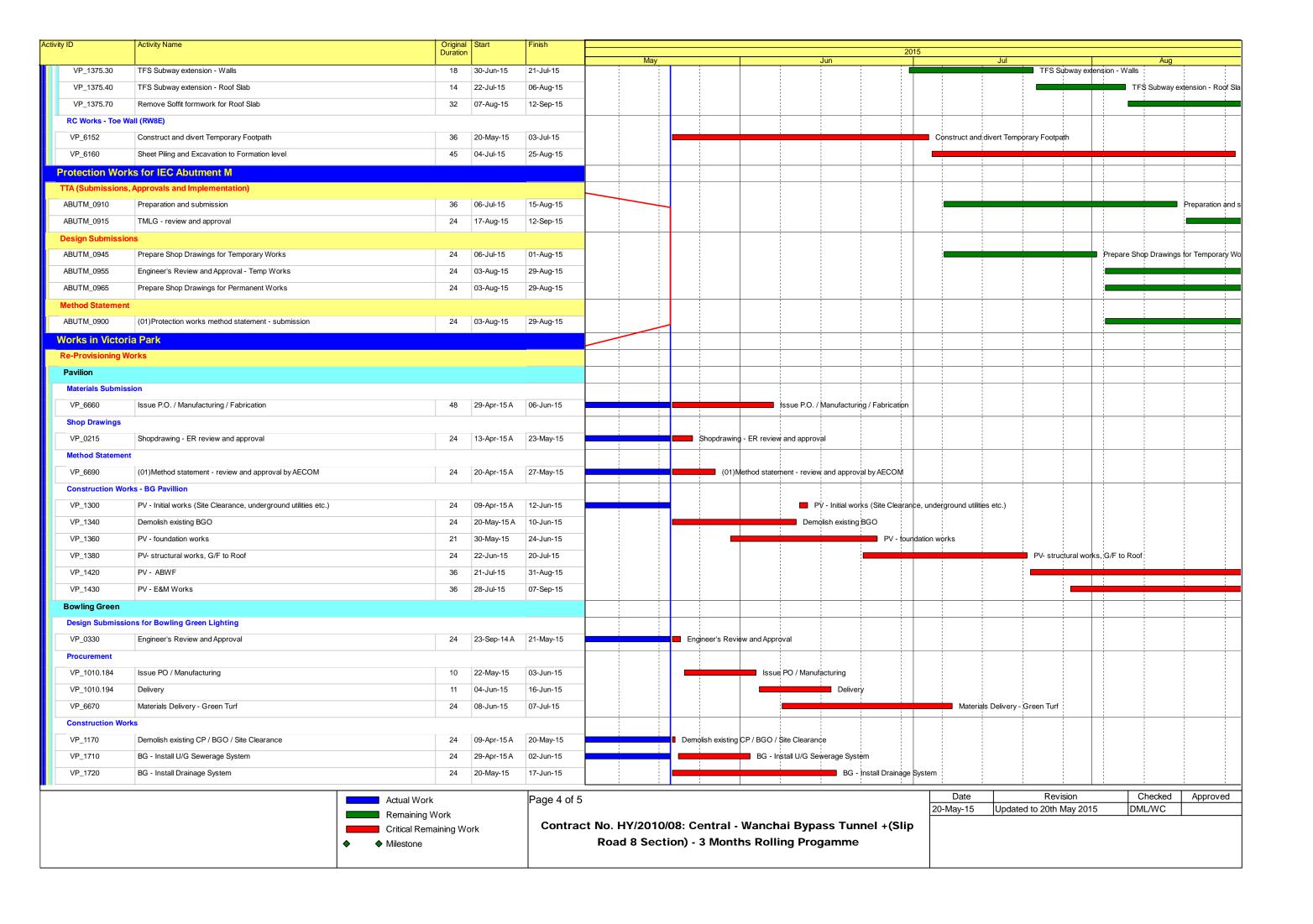
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				June 2015	July 2015	August 2015	September 2015 Octo	DEI 2013   NOVEL	nber 2015 December	ZUID   January	2016   February	2016 March 2016	April 2016	May 2016	June 2016	July 2016	August 2016 Pptember 20
				01 08 15 22	29 06 13 20 27	7 03 10 17 24	31 07 14 21 28 05	12 19 26 02 0	9 16 23 30 07 14	21 28 04 11	18 25 01 08 1	5 22 29 07 14 2	28 04 11 18 2	25 02 09 16 23	30 06 13 20	27 04 11 18 25	01 08 15 22 29 05 12
Sec VII - Landing Steps - form temporary access from landing steps to Fleet Acade	5	10-Jun-15 A	06-Jul-15														
Interim Landing Steps and Construct Permanent So	eawall at CRI	Ш															
Sec VII - remove interim landing steps - install silt curtain	3	19-Aug-15	21-Aug-15														
Sec VII - remove interim landing steps - break and remove seawall coping	3	22-Aug-15	25-Aug-15														
Sec VII - remove interim landing steps - open cut behind interim landing steps	3	26-Aug-15	28-Aug-15														
Sec VII - remove interim landing steps - protect open cut slope	2	29-Aug-15	31-Aug-15			[											
tection & Preservation of Trees																	
ing Works						1											
Sec X - Protection & Preservation of Trees	753	31-Jan-13 A	21-Jul-17		k I				:		1	-		1	1	:	
i	Sec VII - remove interim landing steps - install silt curtain Sec VII - remove interim landing steps - install silt curtain Sec VII - remove interim landing steps - break and remove seawall coping Sec VII - remove interim landing steps - open cut behind interim landing steps Sec VII - remove interim landing steps - protect open cut slope tection & Preservation of Trees  ng Works	Sec VII - remove interim landing steps - install silt curtain  Sec VII - remove interim landing steps - install silt curtain  Sec VII - remove interim landing steps - break and remove seawall coping  Sec VII - remove interim landing steps - open cut behind interim landing steps  Sec VII - remove interim landing steps - protect open cut slope  tection & Preservation of Trees  ng Works	Sec VII - remove interim landing steps - install silt curtain  Sec VII - remove interim landing steps - install silt curtain  Sec VII - remove interim landing steps - break and remove seawall coping  Sec VII - remove interim landing steps - open cut behind interim landing steps  Sec VII - remove interim landing steps - open cut 22-Aug-15  Sec VII - remove interim landing steps - protect open 22-9-Aug-15  cut slope  tection & Preservation of Trees  ng Works	Sec VII - remove interim landing steps - break and seawall at CRIII  Sec VII - remove interim landing steps - break and seawall coping  Sec VII - remove interim landing steps - break and seawall coping  Sec VII - remove interim landing steps - open cut seawall coping  Sec VII - remove interim landing steps - open cut seawall coping  Sec VII - remove interim landing steps - open cut seawall coping  Sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - remove interim landing steps - protect open sec VII - 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Activity ID	Activity Name	Original		Finish			2015	
		Duration			May	Jun	Jul	Aug
VP_1730	BG - Install Irrigation System	24	04-Jun-15	03-Jul-15			BG - Install Irrigation System	
VP_1740	BG - Install Conduit and Lighting System	36	18-Jun-15	31-Jul-15				BG - Install Conduit and Lighting System
VP_1450	BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles)	36	15-Jul-15	25-Aug-15	1			
VP_1745	Test & Commission - Lighting System	16	01-Aug-15	19-Aug-15				Test & Col
Mooring Cor	mponents Upkeep (CBTS and ATS)							
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17				
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	09-Dec-15				
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	21-Jan-17				
Works for Pu	ublic Works Regional Laboratory (North Lantau)							
Maintenance a	and Upkeep of New PWRL (Portion XVII)				\			
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17				

Actual Work

Remaining Work

Critical Remaining Work

Milestone

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Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-May-15	Updated to 20th May 2015	DML/WC	