

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 (November 2013)

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-05/356/2009, FEP-06/356/2009 AND FEP-07/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- NOVEMBER 2013 -

CLIENTS:

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and

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Raymond Dai Environmental Team Leader

DATE:





Ref.: AACWBIECEM00 0 4689L.13

13 December 2013

AECOM Asia Company Limited 11/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road Shatin, New Territories Hong Kong By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (November 2013) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 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 November 2013 received by email on 13 December 2013.

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

c.c. HyD CEDD AECOM Lam Mr. Jones Lai Mr. Robert Tsoi Mr. Francis Leong / Mr. Stephen Lai Mr. Raymond Dai by fax: 2714 5289 by fax: 2577 5040 by fax: 2691 2649 by fax: 2882 3331

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Lam Geotechnics Limited

EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –November 2013 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-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring findings and information recorded during the period October 2013 to November 2013. The cut-off date of reporting is at 27th 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: Marine Works (at Wan Chai)
 - Further rock filling from HATS at East side in order to extend the work area.
 - Concreting at base slab of bay 8 and bay 9. Wall and roof slab construction work and he box culvert.
 - Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue.
 - First panel at temporary bulk head wall and C1/C2 interface wall
 - Installation of end plates to block the existing intakes P7 & P9.
 - Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at HKCEC north & northwest.
- Cooling main laying works along Expo Drive East in Zone C2-1 and C1-3.
- Salt watermain laying works along west of Convention Avenue, J/O Convention Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near Grand Hyatt Hotel in Zone A1-5C, A1-5A3.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220).
- Installation of pre-bored H-pile in CWB Stage 3.
- Construction of the Common D-wall.
- Filling of the existing open water channel from CH100 to CH206. Further filling to P7 & P9.
- Demolition of the Promenade Deck. Installation of sheet pile for demolition of P5 Pump house and the works for tie-back.
- Installation of ELS at first layer for Stage 1.



- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Modification of existing covered walkway along Expo Drive East.
 - Modification of road junction between Expo Drive and Expo Drive East.
 - Mainline of P8 discharge mains was tested. The leakage portion near Gate No.1 had been fixed.
 - The 60-day trial operation for P7 Cooling Water Pumping Station.
 - Rectification works of the special movement joint for P8 discharge main at CHBH152m. Defected special movement joint was delivered off site for repairing works.
 - Backfilling between CHAI 80 and CHAI 160, and CHAG 150m and CHAG 210m (Except the combined area).
 - Installation of 3 standpipes and the Water Tightness Test of Salt Water Intake Culvert.
 - For DN800 pipe, horizontal gate valve installation. Beforehead, epoxy coating and flange adaptor installation.
 - The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
 - Stoplog installation at Bay 6 of Box Culvert N1.
 - The remedial works at Bay 6 of Box Culvert N1.
 - Modifying the existing ELS for the construction of Manhole No. FRP-N-MH2.
 - DSD had accepted the Box Culvert N1 Bay 1 to Bay 6. Another site inspection for stoplog removal trial was conducted with DSD.
 - The Wall of FRP-N-MH2 construction and beforehead, the 1050mm FRP pipe Installation between Bay 4 and Bay 5.
 - Water infilling to Box Culvert N1 for subsequent waternightness test. Remedial works to stop leakage at 1050mm FRP pipe.
 - Backfilling for 1050mm FRP installation.
 - Remaining connection between FRP-N-MH2 and SLO-03.
 - Excavation to the formation level for the Temporary Covered Walkway footing (GL5) in the vicinity of Ferry Pier. Sand replacement test.
 - Re-grouting works for the Eastern Bulkhead Wall.
 - Proof drilling for re-grouting works for the Eastern Bulkhead Wall.

Hung Hing Road Flyover Diversion (Stage 1):

- Pavement works at Wan Shing Street next to HEC station entrance.
- All road markings and traffic sign installation.
- Implementation of HHR Flyover Diversion (Stage 1).

WCR4/TWCR4 Reclamation:



- Public fill at WCR4/TWCR4.
- Seawall blocks installation at WCR4/TWCR4.
- Geotextile at WCR4/TWCR4 area.
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Construction of EVA
 - Maintenance dredging
- v. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
 - Sheet piling works
- vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 - D-wall and Barrette Construction
 - Removal of strut at ELS will commence
 - Construction works for Box Culvert T1
 - Removal of marine platform
 - Construction of pile cap, pier & cross head (Marine)
 - ELS, EVB and Cut & Cover Tunnel
 - Installation of dewatering well
 - Laying of 1500 pipe
 - Launching of segments
 - Extraction of temporary pile from marine section
 - Construction of bridge truss TA1
 - Demolition of parapet at IEC link
 - Construction of King Post at ELS
- vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
 - Site preparation works
 - Site survey
 - ELS for box culvert La at Lung King Street
 - Dredging
 - Preparation works for abandoning watermains at Lung King Street
 - Seawall rock mound formation
- viii. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted



Noise Monitoring

- 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.
- x. No action and 3 limit level exceedances at M6 HK Baptist Church Henrietta Secondary School were recorded on 5, 18 and 26 November 2013 in this reporting month. The exceedances were concluded as non-project related.

Real-time Noise Monitoring

- xi. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- xii. 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.
- xiii. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.
- xiv. 24-hour real time noise monitoring was conducted at RTN2a Hong Kong Electric Centre. Limit level exceedances were recorded at RTN2a-Electric Centre during restricted hours on 11 November 2013. After checking with contractor, no construction activity was conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by nearby IEC traffic.

Air Quality Monitoring

- xv. Due to electricity interruption, the 24hr TSP monitoring at CMA5a was rescheduled from 14 November 2013 to 15 November 2013.
- xvi. 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.
- xvii. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xviii. 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; CMA5a Children Garden opposite to Pedestrian Plaza; MA1e and MA1w International Finance Centre eastern and western wing on every six days basis.

Water Quality Monitoring

xix. Due to out of order of the lighting system on 4 November 2013, water quality monitoring at RW21-P789 during flood tide was cancelled.



- xx. Since marine dredging works was commenced under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08 September.
- xxi. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.
- xxii. 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.
- xxiii. 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.
- xxiv. 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 were remains unchanged.
- xxv. 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 was completed on 6 Feb 2012 water quality monitoring.
- water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- xxvii. 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.
- xxviii. 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.
- xxix. 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.
- xxx. 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.
- xxxi. 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.

xxxii. Water quality monitoring at 11 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table I*.

	Water		Water Mid-flood				Mid-ebb						
Contract no.	Monitoring	DO		Turbidity		SS		DO		Turbidity		SS	
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	C1	0	0	0	0	0	1	0	0	0	0	0	0
	WSD19	0	0	2	4	0	0	1	0	1	3	0	1
	P1	0	0	0	0	0	0	0	0	1	0	0	0
HK/2012/08	P3	1	0	0	0	0	0	0	0 0 0 0 0 0	0	0	0	0
	P4	0	0	0	0	0	0	0		0	0	0	
	P5	0	0	0	1	0	0	0	0	0	0	0 0	0
HK/2009/02 Monitoring started on	WSD21	3	0	2	1	2	0	3	1	2	1	0	1
Monitoring started on 8 Feb 2012	WSD9	0	0	1	0	0	0	0	0	1	1	0	1
	WSD17	0	0	5	4	1	0	1	0	2	1	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	1	0	0	0	0	0	0	0	0	0	0	0
Total		5	0	10	10	3	1	5	1	7	6	0	3

 Table I
 Summary of Water Quality Monitoring Exceedances in Reporting Month

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
- xxxiii. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the **Section 6.4**.
- xxxiv. 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*.

			Mid-flood		-ebb
Contract no.	Water Monitoring Station	DO		DO	
		AL	LL	AL	LL
	C6	0	0	0	0
HY/2009/15	C7	9	0	3	0
111/2009/13	Ex-WPCWA SW	0	4	0	7
	Ex-WPCWA SE	3	5	2	8
	12	9	5	15	

Table IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances inReporting Month

- xxxv. There were 17 action level exceedances and 24 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the **Section 6.4**.
- xxxvi. 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.
- xxxvii. 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.

Complaints, Notifications of Summons and Successful Prosecutions

xxxviii. There was no environmental complaint received in this reporting month.

Site Inspections and Audit

xxxix. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15 HK/2010/06, 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.

Future Key Issues

xl. 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> <u>HKCEC</u>

Marine Works

- Import rock fill from HATS to extend the coastline at East of Area 8.
- Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9.
- D-wall construction at Stage 3.
- Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Capping works for Shui On (Disconnect and Capping the Existing Mains of CHA and CHB).
- Salt watermain laying works for the works area in Zone A1-5B, A1-5A3 and A1-5A2 near Grand Hyatt hotel.
- Salt watermain laying works at Harbour Road would go further north to Zone A5-3, A5-4 and A5-6.
- Cooling main laying works along Expo Drive East and night works.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link. There are total 103 nos.
 H-piles in stage 2.
- Installation of pre-bored H-pile in CWB Stage 3.
- Construction of the south Common D-wall.
- Demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.

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

- Special movement joint rectification works for P8 discharge mains at CHBH152m.
- Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- The connection with the existing DN600 salt watermains at Hung Hing Road.
- The water tightness test for Salt Water Intake Culvert.
- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Wet test of the WSD Salt Water Pumping Station and connection with existing



saltwater system at Hung Hing Road.

- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and the associated testing for handing over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.
- Rectifying the defects in movable ramps.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Utility installation works and commence EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier.
- Construction of Temporary Covered Walkway footing at GL5 in the vicinity of Ferry Pier.
- Design verification works of the Eastern Bulkhead by the CSD Designer for substantial handing over to Section IXA of the Works.
- The seawall blocks installation and filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4.

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

- Construction of EVA
- Maintenance dredging

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line

• Sheet piling works

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

- Removal of strut at ELS will commence
- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500¢ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1



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

- Site survey
- Dredging
- ELS for box culvert La at Lung King Street
- Works for abandoning watermains at Lung King Street
- Seawall rock mound formation
- Filling for reclamation
- Caisson seawall units installation

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

• Dredging works



Lam Geotechnics Limited

1 Introduction

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 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-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of October 2013 to November 2013. The cut-off date of reporting is at 27th 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** *Site Inspection* 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. <u>Figure 2.1</u> shows the locations of these Schedule 2 DPs.

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

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

- 2.3.1. Due to the multi-contract nature of the Project, 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*.



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date	
HK/2009/01	Wan Chai Development Phase II –	DP3, DP6	23 July 2010	
Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre		DP1, DP2	25 August 2011	
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010	
	East	DP1	26 April 2011	
HY/2009/11	Wan Chai Development Phase II and 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	
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)	
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	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	5 March 2013	
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013	

Table 2.	2 Details	of Individual	Contracts	under ti	he Proiect
Table 2.		or marviauar	001111 4013	under u	

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
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Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	DMEngineer'sPrincipalMr. FrankieRepresentativeResidentFanfor WDIIEngineer			2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint	Contractor under Contract no. HK/2009/01	Joint Venture Board Representative	Mr. PL Yue	2162 9909	2587 1878
Venture		Deputy Site Agent	Mr Andy Yu	9648 4896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr Kenneth Chan	9160 3850	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
		Environmental Supervisor	Fan Chun Wai	6487 4488	
Chun Wo –	,		Mr. David Lau	3658-3022	2827 9996
CRGL Joint Venture	Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China	Contractor under	Project Director	K C Cheung	3557 6399	2566 2192
State Constructi on Engineerin g (HK) Ltd.	Contract no. HY/2009/15	Site Manager	J H Chen	3557 6368	
		Contractor's Representative	Andrew Wong	3557 6358	
		Head of Construction Manager	Roger Cheung	3557 6371	
		Senior Construction Manager	Gene Cheung	3557 6395	
		Environmental Officer	Mr. Daniel Sin	3557 6347	
Gammon	Contractor under	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
-Leader JV	Contract no. HK/2010/06	Site Agent	Mr. Eric Yip	2529 2068	
		Environmental Officer	Clement Pang	9735 9200	
		Environmental Supervisor	Jacky Cheung	9779 2292	



Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo – CRGL –	Contractor under Contract no.	Project Manager	Mr. Rayland Lee	3758 8879	
MBEC_ Joint	HY/2009/19	Site Agent	Paul Yu	9456 9819	
Venture		Environmental Engineer	Mr. Calvin Leung	9286 9208	
		Environmental Manager /	Mr. M.H. Isa	9884 0810	
		Environmental Officer			
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
		Construction Manager (Land)	Eric Fong	6191 9337	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China	Contractor	Project Director	Andrew Tse	9137 1811	2877 1522
State- Leader JV	under Contract	Project Manager	Victor Wu	9193 8871	
	no. HK/2012/08	Deputy Project Manager	George Cheung	9268 1918	
		Site Agent	Paul Lui	9095 7922	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Ching Man, Chan	6050 4919	
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	C.M. Wong	3557 6464	
		Environmental Supervisor	Louis Lam Tsz Kwan	3557 6470	
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:

Marine Works (at Wan Chai)

- Further rock filling from HATS at East side in order to extend the work area.
- Concreting at base slab of bay 8 and bay 9. Wall and roof slab construction work and he box culvert.
- Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue.
- First panel at temporary bulk head wall and C1/C2 interface wall
- Installation of end plates to block the existing intakes P7 & P9.
- Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at HKCEC north & northwest.
- Cooling main laying works along Expo Drive East in Zone C2-1 and C1-3.
- Salt watermain laying works along west of Convention Avenue, J/O Convention Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near Grand Hyatt Hotel in Zone A1-5C, A1-5A3.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220).
- Installation of pre-bored H-pile in CWB Stage 3.
- Construction of the Common D-wall.
- Filling of the existing open water channel from CH100 to CH206. Further filling to P7 & P9.
- Demolition of the Promenade Deck. Installation of sheet pile for demolition of P5 Pump house and the works for tie-back.
- Installation of ELS at first layer for Stage 1.
- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Modification of existing covered walkway along Expo Drive East.
 - Modification of road junction between Expo Drive and Expo Drive East.
 - Mainline of P8 discharge mains was tested. The leakage portion near Gate No.1 had been fixed.
 - The 60-day trial operation for P7 Cooling Water Pumping Station.
 - Rectification works of the special movement joint for P8 discharge main at CHBH152m. Defected special movement joint was delivered off site for repairing



works.

- Backfilling between CHAI 80 and CHAI 160, and CHAG 150m and CHAG 210m (Except the combined area).
- Installation of 3 standpipes and the Water Tightness Test of Salt Water Intake Culvert.
- For DN800 pipe, horizontal gate valve installation. Beforehead, epoxy coating and flange adaptor installation.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- Stoplog installation at Bay 6 of Box Culvert N1.
- The remedial works at Bay 6 of Box Culvert N1.
- Modifying the existing ELS for the construction of Manhole No. FRP-N-MH2.
- DSD had accepted the Box Culvert N1 Bay 1 to Bay 6. Another site inspection for stoplog removal trial was conducted with DSD.
- The Wall of FRP-N-MH2 construction and beforehead, the 1050mm FRP pipe Installation between Bay 4 and Bay 5.
- Water infilling to Box Culvert N1 for subsequent waternightness test. Remedial works to stop leakage at 1050mm FRP pipe.
- Backfilling for 1050mm FRP installation.
- Remaining connection between FRP-N-MH2 and SLO-03.
- Excavation to the formation level for the Temporary Covered Walkway footing (GL5) in the vicinity of Ferry Pier. Sand replacement test.
- Re-grouting works for the Eastern Bulkhead Wall.
- Proof drilling for re-grouting works for the Eastern Bulkhead Wall.

Hung Hing Road Flyover Diversion (Stage 1):

- Pavement works at Wan Shing Street next to HEC station entrance.
- All road markings and traffic sign installation.
- Implementation of HHR Flyover Diversion (Stage 1).

WCR4/TWCR4 Reclamation:

- Public fill at WCR4/TWCR4.
- Seawall blocks installation at WCR4/TWCR4.
- Geotextile at WCR4/TWCR4 area.
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Construction of EVA
 - Maintenance dredging



- 2.4.6. For Contract no. HK/2010/06, the principal work activities in this reporting month included:
 - Sheet piling works
- 2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - D-wall and Barrette Construction
 - Removal of strut at ELS will commence
 - Construction works for Box Culvert T1
 - Removal of marine platform
 - Construction of pile cap, pier & cross head (Marine)
 - ELS, EVB and Cut & Cover Tunnel
 - Installation of dewatering well
 - Laying of 1500 pipe
 - Launching of segments
 - Extraction of temporary pile from marine section
 - Construction of bridge truss TA1
 - Demolition of parapet at IEC link
 - Construction of King Post at ELS
- 2.4.8. For Contract no. HK/2012/08, the principal work activity in this reporting month included:
 - Site preparation works
 - Site survey
 - ELS for box culvert La at Lung King Street
 - Dredging
 - Preparation works for abandoning watermains at Lung King Street
 - Seawall rock mound formation
- 2.4.9. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted
- 2.4.10. 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> <u>HKCEC</u>

Marine Works

• Import rock fill from HATS to extend the coastline at East of Area 8.



- Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9.
- D-wall construction at Stage 3.
- Outfall construction for discharge pipes at Expo Drive East.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Capping works for Shui On (Disconnect and Capping the Existing Mains of CHA and CHB).
- Salt watermain laying works for the works area in Zone A1-5B, A1-5A3 and A1-5A2 near Grand Hyatt hotel.
- Salt watermain laying works at Harbour Road would go further north to Zone A5-3, A5-4 and A5-6.
- Cooling main laying works along Expo Drive East and night works.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link. There are total 103 nos.
 H-piles in stage 2.
- Installation of pre-bored H-pile in CWB Stage 3.
- Construction of the south Common D-wall.
- Demolition of the HKCEC Pump home.
- ELS for Stage 1 CWB.

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

- Special movement joint rectification works for P8 discharge mains at CHBH152m.
- Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit.
- All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations.
- The connection with the existing DN600 salt watermains at Hung Hing Road.
- The water tightness test for Salt Water Intake Culvert.
- Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Wet test of the WSD Salt Water Pumping Station and connection with existing saltwater system at Hung Hing Road.
- Outstanding works at WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and the associated testing for handing over to DSD
- Drainage re-diversion from temp 1800 dia. drain to the completed Box Culvert N1.
- ABWF works in Ferry Pier.



- Rectifying the defects in movable ramps.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Utility installation works and commence EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier.
- Construction of Temporary Covered Walkway footing at GL5 in the vicinity of Ferry Pier.
- Design verification works of the Eastern Bulkhead by the CSD Designer for substantial handing over to Section IXA of the Works.
- The seawall blocks installation and filling works at WCR4/TWCR4 after abandonment of existing temp 1800 dia. drain at WCR4

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

- Construction of EVA
- Maintenance dredging

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line

• Sheet piling works

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

- Removal of strut at ELS will commence
- Construction works for Box Culvert T1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- ELS, EVB and Cut & Cover Tunnel
- Installation of dewatering well
- Laying of 1500 pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1

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

- Site survey
- Dredging
- ELS for box culvert La at Lung King Street
- Works for abandoning watermains at Lung King Street



Lam Geotechnics Limited

- Seawall rock mound formation
- Filling for reclamation
- Caisson seawall units installation

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

• Dredging 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/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
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	Valid
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	Valid
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-10/364/2009/B	26 July 2013	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:



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

3.1.3. 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 3.4 and Table 3.5.

11172003/01					
Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status	
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid	
1 ennit	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 non-piling equipment	GW-RS0501-13	9 May 2013	11 May 2013 to 8 Nov 2013	Expired	
	GW-RS0510-13	14 May 2013	15 May 2013 to 13 Nov 2013	Expired	
	GW-RS0579-13	29 May 2013	29 May 2013 to 26 Nov 2013	Replace by GW-RS0797-13	
	GW-RS0797-13	16 Jul 2013	18 Jul 2013 to 15 Jan 2014	Replace by GW-RS0937-13	
	GW-RS0626-13	13 Jun 2013	15 Jun 2013 to 12 Dec 2013	Replaced by GW-RS1083-13	
	GW-RS0631-13	14 Jun 2013	14 Jun 2013 to 13 Dec 2013	Valid	
	GW-RS0651-13	21 Jun 2013	22 Jun 2013 to 20 Dec 2013	Valid	
	GW-RS0773-13	16 Jul 2013	20 July 2013 to 19 Jan 2014	Replaced by GW-RS0807-13	
	GW-RS0807-13	24 Jul 2013	25 Jul 2013 to 21 Jan 2014	Replaced by GW-RS1153-13	
	GW-RS0856-13	7 Aug 2013	10 Aug 2013 to 1 Feb 2014	Valid	

Table 3.4 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
	GW-RS0883-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Valid
	GW-RS0937-13	23 Aug 2013	25 Aug 2013 to 22 Feb 2014	Valid
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
	GW-RS1083-13	27/Sep/2013	29 Sep 2013 to 26 Mar 2014	Replaced by GW-RS1246-13
	GW-RS1091-13	7 Oct 2013	8 Oct 2013 to 7 Apr 2014	Valid
	GW-RS1094-13	7 Oct/ 013	8 Oct 2013 to 7 Apr 2014	Valid
	GW-RS1114-13	11 Oct 2013	13 Oct 2013 to 12 Apr 2014	Valid
	GW-RS1153-13	21 Oct 2013	23 Oct 2013 to 20 Apr 2014	Replaced by GW-RS1265-13
	GW-RS1211-13	4 Nov 2013	9 Nov 2013 to 8 May 2014	Valid
	GW-RS1246-13	8 Nov 2013	10 Nov 2013 to 7 May 2014	Valid
	GW-RS1265-13	14 Nov 2013	16 Nov 2013 to 12 May 2014	Valid
	GW-RS-1270-13	13 Nov 2013	14 Nov 2013 to 13 May 2014	Valid
	GW-RS1324-13	19 Nov 2013	22 Nov 2013 to 18 May 2014	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	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

Table 3.5 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 2.8	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
Condition 2.9	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
	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



EP Condition	Submission	Date of Submission
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	Noise Management Plan	10 Jun 2011
Condition 2.11	Landscape Plan	31 Oct 2013

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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no.
HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	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
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0437-13	26 Apr 2013	1 May 2013 to 29 Oct 2013	Expired
	GW-RS0467-13	06 May 2013	17 May 2013 to 16 Nov 2013	Expired
	GW-RS0517-13	20 May 2013	27 May 2013 to 26 Nov 2013	Expired
	GW-RS0521-13	20 May 2013	22 May 2013 to 21 Nov 2013	Expired
	GW-RS0530-13	20 May 2013	28 May 2013 to 27 Nov 2013	Expired
	GW-RE0508-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired
	GW-RS0525-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired
	GW-RS0538-13	21 May /2013	30 May 2013 to 29 Nov 2013	Expired



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0539-13	23 May 2013	6 June 2013 to 5 Dec 2013	Cancelled
	GW-RS0554-13	23 May 2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0586-13	27 May 2013	28 May 2013 to 22 Nov 2013	Cancelled
	GW-RS0633-13	14 June 2013	16 June 2013 to 13 Dec 2013	Cancelled
	GW-RS0739-13	09 July 2013	17 July 2013 to 16 Jan 2014	Valid
	GW-RS0708-13	03 July 2013	03 July 2013 to 01 Jan 2014	Valid
	GW-RS0846-13	30 July 2013	01 Aug 2013 to 25 Jan 2014	Cancelled
	GW-RS0857-13	2 Aug 2013	15 Aug 2013 to 14 Feb 2014	Valid
	GW-RS0945-13	29 Aug 2013	11 Sep 2013 to 10 Mar 2014	Valid
	GW-RS0993-13	6 Sep 2013	20 Sep 2013 to 19 Mar 2014	Valid
	GW-RS1027-13	10 Sep 2013	15 Sep 2013 to 9 Mar 2014	Valid
	GW-RS1002-13	12 Sep /2013	25 Sep 2013 to 24 Mar 2014	Valid
	GW-RS1078-13	30/9/2013	18 Oct 2013 to 17 Apr 2014	Valid
	GW-RS1119-13	11/10/2013	16 Oct 2013 to 15 Apr 2014	Valid
	GW-RS1128-13	8/10/2013	11 Oct 2013 to 6 Apr 2014	Valid
	GW-RS1197-13	4/11/2013	10 Nov 2013 to 9 May 2014	Valid
	GW-RS1254-13	12/11/2013	17 Nov 2013 to 16 May 2014	Valid
	GW-RS1256-13	12/11/2013	22 Nov 2013 to 21 May 2014	Valid
	GW-RS1240-13	7/11/2013	28 Nov 2013 to 27 May 2014	Valid
	GW-RE1199-13	6/11/2013	30 Nov 2013 to 29 May 2014	Valid
	GW-RS1258-13	12/11/2013	17 Nov 2013 to 6 May 2014	Valid
	GW-RS1261-13	12/11/2013	13 Nov 2013 to 6 May 2014	Valid
	GW-RS1325-13	27/11/2013	30 Nov 2013 to 29 May 2014	Valid
	GW-RS1337-13	27/11/2013	29 Nov 2013 to 26 May 2014	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Cancelled
	WT00006757-2010	28 May 2010	31 May 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 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
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/14-014	20 May 2013	29 May 2013 to 28 Nov 2013	Expired
	EP/MD/14-098	26/11/2013	29 Nov 2013 to 28 May 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-069	03 Oct 2013	6 October 2013 to 5 November 2013	Cancelled

Table 3.7 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



EP Condition	Submission	Date of Submission
	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
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.18	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</u> <u>Section)</u>

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under EP-356/2009 are shown in *Table 3.8* and *Table 3.9*.

Table 3.8 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 breakwater removal works at Eastern Breakwater of CBTS	GW-RS0798-13	18 Jul 2013	19 Jul 2013 to 18 Jan 2014	Cancelled
Construction Noise Permit (CNP) for concreting works at Eastern Breakwater of CBTS	GW-RS0921-13	20 Aug 2013	20 Aug 2013 to 18 Feb 2014	Valid
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS0705-13	28 Jun 2013	02 Jul 2013 to 31 Dec 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for maintenance dredging	GW-RS1232-13	6 Nov 2013	6 Nov 2013 to 30 Apr 2014	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 (Dumping by Vessel)	7011761	21 Jun 2013	17 Jul 2013 to 16 Oct 2013	Expired
	7011761	25 Sep 2013	17 Oct 2013 to 16 Jan 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-034	16 Jul 2013	24 Jul 2013 to 23 Jan 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal and Type 2 – Confined Marine Disposal)	EP/MD/14-076	23 Oct 2013	24 Oct 2013 to 23 Nov 2013	Expired
	EP/MD/14-093	19 Nov 2013	24 Nov 2013 to 23 Dec 2013	Valid
Dumping Permit (Type 3 – Special Treatment / Disposal contained in Geosynethetic Containers)	EP/MD/14-080	12 Nov 2013	13 Nov 2013 to 12 Dec 2013	Valid

Table 3.9 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	Condition 2.8 Silt Curtain Deployment Plan	
	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



FEP Condition	Submission	Date of Submission
	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
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.6. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 3.1*.

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wanchai Bypass over</u> <u>MTR Tsuen Wan Line</u>

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2010/06 under EP-356/2009 is shown in *Table 3.10* and *Table 3.11*.

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0017-13	19 June 2013	6 Jul 2013 to 5 Jan 2014	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G25 33-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 Nov 2011	31 July 2016	Valid`

Table 3.10Cumulative Summary of Valid Licences and Permits under Contract no.HK/2010/06

Table 3.11Summary of submission status under EP-356/2009 and FEP-05/356/2009Condition



EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	29 April 2013
Condition 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Revised Silt Curtain Deployment Plan	31 August 2011
	Revised Silt Curtain Deployment Plan	22 October 2012
	Revised Silt Curtain Deployment Plan	26 November 2012
	Revised Silt Curtain Deployment Plan	28 January 2013
Condition 2.9	Silt Screen Deployment Plan	11 April 2011
Condition 2.23	Noise Management Plan	11 March 2011

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island</u> <u>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 3.12*.

<u>Table 3.12</u> 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/B	20 Sep 2012	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0503-13	21-May-12	20-Nov-13	Cancelled
	GW-RS1125-13	13-Oct-13	10-Apr-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0767-13	11-Jul-13	10-Jan-14	Valid
Construction Noise Permit (CNP) (For Segment Launching at Portion III)	GW-RS1009-13	09-Sep-13	08-Mar-14	Cancelled
	GW-RS1176-13	25-Oct-13	22-Apr-14	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0528-12	26-May-13	25-Nov-13	Valid



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For IEC)	GW-RS0706-13	11-Jul-13	10-Jan-14	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1099-13	21-Oct-13	20-Apr-14	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0724-13	08-Jul-13	07-Jan-14	Cancelled
	GW-RS1179-13	25-Oct-13	22-Apr-14	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Cancelled
	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (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	-
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-019	10 Jun 2013	09 Dec 2013	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-067	02 Oct 2013	01 Nov 2013	Expired
	EP/MD/14-097	25 Nov 2013	24 Dec 2013	Valid

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>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 EP-356/2009 are shown in *Table 3.13* and *Table 3.14*.

<u>Table 3.1</u>3 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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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
Construction Noise Permit	GW-RS0703-13	3 Jul 2013	4 Jul 2013 to 2 Jan 2014	Valid
	GW-RS0824-13	29 Jul 2013	30 Jul 2013 to 28 Jan 2014	Valid
	GW-RS0896-13	19 Aug 2013	20 Aug 2013 to 18 Feb 2014	Cancelled
	GW-RS1175-13	23 Oct 2013	25 Oct 2013 to 21 Apr 2014	Cancelled
	GW-RS01086-13	30 Sep 2013	2 Oct 2013 to 26 Mar 2014	Valid
	GW-RS1231-13	8 Nov 2013	11 Nov 2013 to 28 Feb 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-008	23 May 2013	24 Nov 2013	Supersede d by EP/MD/14- 082
	EP/MD/14-082	29 Oct 2013	31 Dec 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/14-078	24 Oct 2013	24 Nov 2013	Expired
Type 2 – Confined Marine disposal)	EP/MD/14-094	19 Nov 2013	24 Dec 2013	Valid

Table 3.14Summary of submission status under EP-356/2009 and FEP-06/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted to EPD on 25 Nov 2013
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Deposited to EPD on 19 Aug 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD 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 EP-356/2009 are shown in Table **3.15** and **Table 3.16**.

Table 3.15Cumulative 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
Water Discharge Licence	WT0001651-2013	9 Jul 2013	31 Jul 2018	Valid

Table 3.16Summary of submission status under EP-356/2009 and FEP-07/356/2009Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan	28 Nov 2013
Condition 2.9	Silt Screen Deployment Plan	29 Nov 2013
Condition 2.23	Noise Management Plan	21 Nov 2013
Condition 2.24	Landscape Plan	18 Nov 2013



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	

Table 4.1 Noise Monitoring St	ation

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 FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

District	Station	Description	
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot	
North Point	RTN2	Oil Street Community Liaison Centre	
North Point	RTN2a	Electric Centre	

Table 4.2 Real Time Noise Monitoring Station

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_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time



periods, $L_{eq (5 minutes)}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

- 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.

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre Causeway	
СМАЗа	CWB PRE Site Office * Causeway Bay	
CMA4a	Society for the Prevention of Cruelty to Animals Wan Chai	
CMA5a	Children Playgrounds opposite to Pedestrian Plaza Wan Chai	
CMA6a	WDII PRE Site Office * Wan Chai	

Table 4.3 Air Monitoring Station



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

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 *Figure 4.1* 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 6.1.</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 4 WSD salt water intakes and 8 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.

Station Ref.	Location	Easting	Northing
WSD Salt Water In	ntake		
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD21	Wan Chai 836220.8 815		815940.1
Cooling Water Int	ake		
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		816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue	835895.2	816215.2

 Table 4.4
 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
	Tower / Immigration Tower)		
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	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.

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

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

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).

<u>SAMPLER</u>

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.

<u>SALINITY</u>

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* <u>4.1</u>.

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

 Table 4.6
 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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 qualting 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 *Figure 2.1* and *Figure 4.1*. 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. HK/2010/06 Wan Chai Development Phase II Central-Wan Chai Bypass over MTR Tsuen Wan Line
 - Contract no. HY/2009/19- Cental- 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

<u>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 and Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line</u>

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.2* below.

Table 5.2 Noise Monitoring Station for Contract nos. HK/2009/01, HK/2009/02 andHK/2010/06

Station	Description	
M1a	Harbour Road Sports Centre	

- **5.1.2.** Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.3. No exceedance was recorded in this reporting period. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*

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



Shelter Section)

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 5.3* below.

Table 5.3	Table 5.3 Noise Monitoring Station for Contract no. H 1/2009/15		
Station Description			
M2b	Noon Gun Area		
МЗа	Tung Lo Wan Fire Station		

 Table 5.3
 Noise Monitoring Station for Contract no. HY/2009/15

5.1.5. Noise monitoring results measured in the period of daytime and restricted hour are reviewed and summarized. No exceedance was recorded in this reporting period. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</u>

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

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

Station	Description	
МЗа	Tung Lo Wan Fire Station	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

 Table 5.4
 Noise Monitoring Station for Contract no. HY/2009/19

- 5.1.7. Three limit level exceedances were recorded on 5, 18 and 26 November 2013 at M6 HK Baptist Church Henrietta Secondary School in the reporting month.
- 5.1.8. Major traffic noise observed during monitoring on 5, 18 and 26 November 2013 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 5.1.9. 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>

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 land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong



Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

- 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 Limit level exceedances were recorded at RTN2a-Electric Centre during restricted hours on 11 November 2013. After checking with contractor, no construction activity was conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by nearby IEC traffic.
- 5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

District	Station	Description
Tin Hau	RTN1	FEHD Hong Kong Transport Section Whitfield Depot
North Point	RTN2	Oil Street Community Liaison Centre
North Point	RTN2a	Electric Centre

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

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

- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012
- 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

5.3.1 Due to electricity interruption, the 24hr TSP monitoring at CMA5a was rescheduled from 14 November 2013 to 15 November 2013.

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

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 5.7* below. No exceedance was recorded in the reporting month.

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza
CMA6a	WDII PRE Site Office

 Table 5.7
 Air Monitoring Stations for Contract no. HK/2009/01



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 *Appendix 5.3*.

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

5.3.2. 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 5.8* below. No exceedance was recorded in the reporting month.

 Table 5.8
 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.3. 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 5.9* below.

Table 5.9 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

5.3.3 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 Tunnal (North Point Section) and Island Eastern Corridor Link

5.3.4. The proposed division of air monitoring stations are summarized in Table 5.10 below. No exceedance was recorded in the reporting month.

 Table 5.10 Air Monitoring Stations for Contract no. HY/2009/19

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

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 *Appendix 5.3*.



5.4 Water Monitoring Results.

- 5.4.1. Due to out of order of the lighting system on 4 November 2013, water quality monitoring at RW21-P789 during flood tide was cancelled.
- 5.4.2. Since marine dredging works was commenced under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08.
- 5.4.3. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.
- 5.4.4. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations
- 5.4.5. 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.
- 5.4.6. 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.
- 5.4.7. 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;
- 5.4.8. 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.
- 5.4.9. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.10. 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.
- 5.4.11. 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.

- 5.4.12. 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.
- 5.4.13. 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.
- 5.4.14. 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.
- 5.4.15. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations.
- 5.4.16. 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.

Table 5.11 Water Monitoring Stations for contracts with respect to remaining DP3work 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 ¹	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6 ⁴ , C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring described in 4.6.3)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring described in 4.6.3)	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.

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

5.4.17. 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 5.12* below.

Table 5 12	Water Monitoring	Stations for	Contract no	HK/2000/01
Table 5.12	water womtoring	j Stations ior	Contract no.	HR/2009/01

Station Ref.	tation Ref. Location Easting				
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 station were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

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

5.4.18. 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 5.13* below.

Station Ref.	Location	Easting	Northing					
WSD Salt Water Intake								
WSD21	Wan Chai	836220.8	815940.1					
WSD9	Tai Wan	837921.0	818330.0					
WSD17	Quarry Bay	839790.3	817032.2					
Cooling Water Intake								
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0					

Table 5.13Water Monitoring Stations for Contract no. HK/2009/02

Remarks:

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

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



5.4.19. 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 5.14* below.

 Table 5.14
 Water Monitoring Stations for Contract no. HK/2010/06

Station Ref.	Location	Easting	Northing					
WSD Salt Water Intake								
WSD19	Sheung Wan	833415.0	816771.0					
Cooling Water Inta	ke							
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</u> <u>Section)</u>

- 5.4.20. 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.
- 5.4.21. 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 5.15 below.
- 5.4.22. 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 5.15 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.

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

- 5.4.23. 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. The proposed division of water monitoring stations are summarized in *Table 5.16* below.
- 5.4.24. 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.



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- 5.4.25. 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.
- 5.4.26. 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.
- 5.4.27. 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.
- 5.4.28. 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.
- 5.4.29. 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 <u>Appendix 5.4</u>.



	Water	Vater Mid-flood					Mid-ebb						
Contract no.	Monitoring	D	0	Turb	oidity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	C1	0	0	0	0	0	1	0	0	0	0	0	0
	WSD19	0	0	2	4	0	0	1	0	1	3	0	1
	P1	0	0	0	0	0	0	0	0	1	0	0	0
HK/2012/08	P3	1	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	1	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on	WSD21	3	0	2	1	2	0	3	1	2	1	0	1
8 Feb 2012	WSD9	0	0	1	0	0	0	0	0	1	1	0	1
	WSD17	0	0	5	4	1	0	1	0	2	1	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	1	0	0	0	0	0	0	0	0	0	0	0
Total		5	0	10	10	3	1	5	1	7	6	0	3

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

- 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
- 5.4.30. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the <u>Section 6.4</u>.
- 5.4.31. 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*.



		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
HY/2009/15	C6	0	0	0	0	
	C7		0	3	0	
	Ex-WPCWA SW	0	4	0	7	
	Ex-WPCWA SE	3	5	2	8	
Total		12	9	5	15	

- 5.4.32. There were 17 action level exceedances and 24 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the <u>Section 6.4</u>.
- 5.4.33. 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 since One of the the continuously monitored. Details of additional DO monitoring results can be referred in <u>Appendix 5.4a.</u>
- 5.4.34. 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

5.5 Waste Monitoring Results

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

5.5.1. Inert C&D waste was disposed and non- inert C&D waste was recycled of 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	6790.52	37416.995	TKO137, TM38



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
disposed, m ³			
Inert C&D materials recycled, m ³	0	5104.5	N/A
Non-inert C&D materials disposed, m ³	41.78	1500.84	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	0	10050	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	0 (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (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</u> <u>Wan Chai East</u>

5.5.3. Inert C&D waste and Non-inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	669.125	241800.025	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	49.93	1206.4	SENT Landfill
Non-inert C&D	N/A	N/A	N/A

 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
materials recycled, m ³			
Chemical waste disposed, kg	1400	10236	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	184167 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	0	129320 (Bulk volume)	East of Sha Chau

5.5.4. There are no marine Sediment Type1- Open Sea Disposal and there are no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

5.5.5. No Inert C&D waste and no non- inert C&D waste were 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	
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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	NIL	141579.2	Tuen Mun Area 38
m ³	NIL	65216	TKO137 FB
Inert C&D materials recycled,	NIL	304	ex-PCWA
m ³	NIL	111.9	TS4
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A
Chemical waste disposed, kg	NIL	8,200	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk Volume)	100208 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	4100 (Bulk Volume)	222765 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	1140	8190 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 2 – Confined Marine Disposal), m3	0 (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau



5.5.6. There was no marine sediment Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	12567.88	TM38
Inert C&D materials recycled, m ³	NIL	267	HK/2009/01
Non-inert C&D materials disposed, m ³	0	369.48	SENT/TKO137SF
Non-inert C&D materials recycled, T	0	60.58	Recyclers
Chemical waste disposed, L	0	2600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	3,891 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	0	12,586 (Bulk Volume)	East Sha Chau

 Table 5.22
 Details of Waste Disposal for Contract no. HK/2010/06

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

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

5.5.9. Inert C&D waste was disposed of and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.23.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	28999.86	271394.77	TM38
Inert C&D materials recycled, m ³	0	51347.97	N/A
Non-inert C&D materials	46.37	484.65	N/A

 Table 5.23 Details of Waste Disposal for Contract no. HY/2009/19



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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
disposed, m ³			
Non-inert C&D materials recycled, kg	19.04	303.6	N/A
Chemical waste disposed, L	0.15	0.77	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m ³	0	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	0	4976.00	

5.5.10. 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.

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

5.5.11. Inert C&D waste was disposed and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.24.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	1175	TM38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	0	20	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), m ³	9298	23108	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	14549	95335	South of The Brothers (from 27 Aug 2013 onwards)

 Table 5.24 Details of Waste Disposal for Contract no. HK/2012/08

5.5.12. There was marine sediment Type 1 – Open Sea Disposa and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

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



5.5.13. No Inert C&D waste and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in *Table 5.25*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	Nil	Nil	N/A
Inert C&D materials recycled, m ³	NII	NIL	N/A
Non-inert C&D materials disposed, m ³	Nil	Nil	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	Nil	Nil	N/A

Table 5.25 Details of Waste Disposal for Contract no. HY/2010/08



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

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

6.1.1 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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

<u>Contract no. HK/2010/06 - Wan Chai Development Phase II – Central – Wanchai Bypass over</u> <u>MTR Tsuen Wan Line</u>

6.1.4 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

6.1.5 Three limit level exceedances were recorded on 5, 18 and 26 November 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 5, 18 and 26 November 2013, traffic noise was major contribution in the noise monitoring and exceedances were not related to the Project.

6.2 Real-time noise Monitoring

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

6.2.1 Limit level exceedances were recorded at RTN2a-Electric Centre during restricted hours on 10 November 2013. After checking with contractor, no construction activities were conducted at the concerned location by the Contractor during the recorded period. As such, the exceedances were considered as non-project related and contributed by nearby IEC traffic.

6.3 Air Monitoring

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

6.3.1 No exceedance was recorded in the reporting month.

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

6.3.2 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

6.3.3 No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

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

- 6.4.1 There was DO, turbidity and SS exceedance recorded at WSD19 on 28, 30 October, 1,4,13 and 15 November 2013 during flood tide and ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedances was considered not project related.
- 6.4.2 There was DO exceedance recorded at P3 on 1 November 2013 during flood tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.
- 6.4.3 There was turbidity exceedance recorded at P5 on 11 November 2013 during flood tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.
- 6.4.4 There were occasionally SS exceedances recorded at C1 on 15 November during flood tide. Confirmed with Contractor, silt screen was in proper condition. In view of no marine work was conducting in the vicinity of the monitoring locationon that day and the view that no further exceedance was recorded in the next consecutive monitoring and the silt screen was in proper condition, the exceedance was considered not project related.
- 6.4.5 There was turbidity exceedance recorded at P1 on 19 November 2013 during ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.

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

6.4.6 There were DO exceedances recorded at WSD21 on 28 October 2013, 1, 8, 11 and 23 November during Flood and Ebb tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. Additional water diffuser system installed at monitoring station WSD21 was observed operating during monitoring. In view of no marine activitie was conducted during monitoring, the exceedances was considered not project related.



- 6.4.7 There were occasionally turbidity and SS exceedances at WSD21 on 30 October, 6, 13, 15, 23 and 25 November during flood and ebb tide in this reporting month. Confirmed with Contractor, in view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
- 6.4.8 There were DO, turbidity and SS exceedances at WSD17 recorded on 30 October 1, 4, 8, 13, 15, 19, 21, 23 October 2013 during flood and ebb tide in this reporting month. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. In view that no marine work was conducted on those day, the exceedances was considered not project related.
- 6.4.9 There were occasionally turbidity exceedances at WSD9 recorded on 30 October 2013 and 4 November 2013 during flood and ebb tide in this reporting month. Confirmed with Contractor, in view of no marine works was conducted on that day and since WSD9 was located at the downstream of the Project, the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.

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

- 6.4.10 There were occasionally DO exceedances at Ex-WPCWA SE and Ex-WPCWA SW recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at ex-WPCWA. The exceedances were possible in relation to the accumulation of organic particles discharge from culvert near monitoring station and considered not related to the Projects works.
- 6.4.11 There were occasionally DO exceedances at C7 recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at C7. The exceedances were possible in relation to the low flow near the intake and considered not related to the Projects works.

<u>Contract no. HK/2010/06 - Wan Chai Development Phase II – Central – Wanchai Bypass over</u> <u>MTR Tsuen Wan Line</u>

6.4.12 No exceedance was recorded in this reporting month.

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

6.4.13 No exceedance was recorded in this reporting month.

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



- 6.4.14 There was DO, turbidity and SS exceedance recorded at WSD19 on 28, 30 October, 1,4,13 and 15 November 2013 during flood tide and ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedances was considered not project related.
- 6.4.15 There was DO exceedance recorded at P3 on 1 November 2013 during flood tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.
- 6.4.16 There was turbidity exceedance recorded at P5 on 11 November 2013 during flood tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.
- 6.4.17 There was turbidity exceedance recorded at P1 on 19 November 2013 during ebb tide, confirmed with Contractor, silt screen was in proper condition. Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation measures including framed silt curtain was confirmed in place. The exceedance was considered not project related.

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 project-related non-compliance 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 Monthly EM&A report (October 2013) of Central Reclamation Phase III (CRIII), remaining soft landscaping work behind GPO boundary wall and remaining footpath construction at Edinburgh Place were performed in the November 2013 reporting month. 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 Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains and Cooling Watermains Installations, tunnel works at Wan Chai East. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ELS work and tunnel water proofing works at TS4 and cut and cover tunnel construction at TPCWAE. Bridge construction and tunnel works at Central Interchange, ELS segment launching works and IEC parapet demolition at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were excavation at TPCWAE, tunnel works at Central and ELS work at North Point and tunnel works at Wan Chai East in the reporting month.
- 7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting month.. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact 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, HK/2010/06, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.2. Five site inspections for Contract no. HK/2009/01 was carried out on 30 October, 6, 13, 21, 27 November 2013 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

ltem	Date	Observations	Action taken by Contractor	Outcome
131106_02	6-Nov-13	•	removed	Completion as observed on 13 Nov 2013
131106_02	6-Nov-13	prior to discharge into public drainage (Convention Avenue)	was installed for	Completion as observed on 13 Nov 2013

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

8.0.3. Four site inspections for Contract no. HK/2009/02 was carried out on 31 October 2013, 7, 11, 14, and 20 November 2013 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
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Item	Date	Observations	Action taken by Contractor	Outcome
131031_01	31-Oct-13	Drip tray should be provided for preventing leakage of chemical on the ground (tunnel)		Completion as observed on 7 Nov 2013
131107_01	7-Nov-13	Worn textile and sand bag should be properly maintained to prevent damage and become floating debris (between well A well C)	The worn textile was repaired	Completion as observed on 11 Nov 2013
131120_01	20-Nov-13	Muddy trail was observed , wheel washing should be conducted more properly. (Gate 2)	The muddy trail was cleaned away	Completion as observed on 28 Nov 2013

8.0.4. Five site inspections for Contract no. HY/2009/15 was carried out on 29 October 2013, 5, 12, 19 and 26 November 2013 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.

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

ltem	Date	Observations	Action taken by Contractor	Outcome
131029_01	29_Oct-13	Provide tarpaulin sheet for	Tarpaulin sheet	Completion as



ltem	Date	Observations	Action taken by Contractor	Outcome
		excavated material transfer to barge (TS2)	was provided for excavated material transfer	observed on 5 Nov 2013
131029_02	29_Oct-13	Improve the pipe connection to prevent leakage and clear the leaked oil as chemical waste (TS2/Ex-PCWA)	No further leakage was observed	Completion as observed on 5 Nov 2013
131105_01	5-Nov-13	Provide protection/ embarkment to prevent construction runoff to nearby water (TS1)	Sandbag was provided	Completion as observed on 7 Nov 2013
131112_01	12-Nov-13	Muddy water was observed discharged to nearby water (TS2)	No further muddy water discharge was observed	Completion as observed on 19 Nov 2013
131112_02	12-Nov-13	Provide drip tray to chemical containers and leaked oil shall be cleared as chemical waste	Containers have been removed	Completion as observed on 26 Nov 2013
131112_03	12-Nov-13	Wastewater treatment plant on-site should be ensure operating for effective collection of surface effluent from drainage channel	Wastewater treatment was reconnected and operating	Completion as observed on 19 Nov 2013
131119_01	19-Nov-13	Proper connect the drainage pipe to treatment tank/ sediment tank for proper treatment prior to discharge to prevent surface overflow of effluent.		Completion as observed on 26 Nov 2013

- 8.0.5. Five site inspections for Contract no. HK/2010/06 was carried out on 28 October, 4, 11, 21 and 25 November 2013 in reporting month. No observation is found in the reporting month.
- 8.0.6. Five site inspections for Contract no. HY/2009/19 was carried out on 30 October 2013, 6, 14, 21 and 27 November 2013 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.4*.

Table 8.4 Summary of Environmental Inspections for Contract no. HY/2009/19

ltem	Date	Observations	Action taken by	Outcome
			Contractor	
131030_01	30-Oct-13	The wheel washing runoff should be properly collected to wastewater treatment plant to avoid runoff to public drainage and public road (Watson Road)	Wheel washing was collected onto nearby treatment plant	Completion as observed on 6 Nov 2013

- 8.0.7. Four site inspections for Contract no. HK/2012/08 were carried out on 5, 12, 19 and 26 November 2013 in this reporting period. No observation is found in the reporting month.
- 8.0.8. Four site inspections for Contract no. HY/2010/08 was carried out on 31 October 2013, 7, 14, 21 and 28 November 2013 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/2012/08



ltem	Date	Observations	Action taken by Contractor	Outcome
131107_01	7-Nov-13	Enhance the embankment for works area adjacent to prevent construction surface runoff. Review the method for collecting the surface effluent (Victoria Park Road)		Completion as observed on 14 Nov 2013
131107_02	7-Nov-13	Clear the leaked oil as chemical waste (Victoria Park)	Leaked oil was cleared	Completion as observed on 14 Nov 2013
131121_01	21-Nov-13	Clear the leaked oil and contaminated soil as chemical waste	The leaked oil was cleared	Completion as observed on 28 Nov 2013
131121_02	21-Nov-13	Provide watering to haul road	Watering to haul road was provided	Completion as observed on 28 Nov 2013
131128_01	28-Nov-13	Provide drip tray to oil drums	Drip trays were provided	Completion as observed on 05 Dec 2013



9. Complaints, Notification of Summons and Prosecution

- 9.0.1. No environmental complaint was received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.3. 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	28
November 2013	0

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. 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 were remains unchanged.
- 10.0.3. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 10.0.4. 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.
- 10.0.5. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 were implemented with respect to HK/2009/02 for the water quality monitoring scheduled on 8 Feb 12 onwards;
- 10.0.6. 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.
- 10.0.7. Water quality monitoring at 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, and conclude if any water deterioration had been identified during the 4-week water quality monitoring.
- 10.0.8. 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.
- 10.0.9. 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.



- 10.0.10. 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.
- 10.0.11. 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.
- 10.0.12. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

Contract No.	Key Construction Works	Recommended Mitigation Measures
Contract No. HK/2009/01	 Marine Works Import rock fill from HATS to extend the coastline at East of Area 8. Construction of RC structure proposed box culvert wall and roof slab at bay 8 and bay 9. D-wall construction at Stage 3. Outfall construction for discharge pipes at Expo Drive East. Cooling Watermains, Salt Watermains and Sewer (On Land) Capping works for Shui On (Disconnect and Capping the Existing Mains of CHA and CHB). Salt watermain laying works for 	 To conform the installation and setting as in the silt screen deployment plan Frequency spray water on the dry dusty road and on the surface of concrete breaking To cover the dusty material or stockpile by impervious sheet To space out noisy equipment and position as far as possible from sensitive receiver. To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum Daily visual inspection of silt
	 Capping works for Shui On (Disconnect and Capping the Existing Mains of CHA and CHB). 	 should be throttled down to a minimum Daily visual inspection of silt screen and silt curtain to ensure its

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



Contract No.	Key Construction Works	Recommended Mitigation Measures
	 Cooling main laying works along Expo Drive East and night works. Tunnel Works Installation of pre-bored H-pile in CWB Stage 2 Atrium Link. There 	
	 are total 103 nos. H-piles in stage 2. Installation of pre-bored H-pile in CWB Stage 3. Construction of the south Common D-wall. Demolition of the HKCEC Pump home. ELS for Stage 1 CWB. 	
HK/2009/02	 Special movement joint rectification works for P8 discharge mains at CHBH152m. Hatch box replacement for P7 intake mains and cable relocation works for subsequent construction of 8x8 pit. All outstanding works for handing over P7, P8 and P9 Cooling Water Pumping Stations. The connection with the existing DN600 salt watermains at Hung Hing Road. The water tightness test for Salt Water Intake Culvert. Removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station. Wet test of the WSD Salt Water 	 To cover the dusty material or stockpile by impervious sheet; Frequency spray water on the dry dusty road and on the surface of concrete breaking To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission To conform the installation and setting as in the silt screen and silt curtain deployment plan Movable noise barrier shall be deployed for demolition works Daily visual inspection of silt screen and silt curtain deployment and resubmit associate plans to EPD Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.



Contract No.	Key Construction Works	Recommended Mitigation Measures
	with existing saltwater system at	
	Hung Hing Road.	
	Outstanding works at WSD Salt	
	Water Pumping Station.	
	Box Culvert N1 & Drain FRP-N	
	and the associated testing for	
	handing over to DSD	
	Drainage re-diversion from temp	
	1800 dia. drain to the completed	
	Box Culvert N1.	
	ABWF works in Ferry Pier.	
	Rectifying the defects in movable	
	ramps.	
	 Most of the individual T&C of 	
	E&M equipment at Ferry Pier	
	Utility installation works and	
	commence EVA construction	
	extending from P7 Cooling Water	
	Pumping Station to the Ferry	
	Pier.	
	Construction of Temporary	
	Covered Walkway footing at GL5	
	in the vicinity of Ferry Pier.	
	Design verification works of the	
	Eastern Bulkhead by the CSD	
	Designer for substantial handing	
	over to Section IXA of the Works.	
	The seawall blocks installation	
	and filling works at	
	WCR4/TWCR4 after	
	abandonment of existing temp	
	1800 dia. drain at WCR4	
	Construction of EVA	
HY/2009/15		 Daily visual inspection of silt screen and silt curtain to ensure its
	Maintenance dredging	operation properly
		 Implement silt screen and silt curtain in accordance with the associated plans submitted to



Contract No.	Key Construction Works	Recommended Mitigation Measures
		EPD.
HK/2010/06	Sheet piling works	• To conform the installation and setting as in the silt screen and silt curtain deployment plan
		• To space out noisy equipment and position as far as possible from sensitive receiver.
		Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2009/19	D-wall and Barrette Construction	To conform the installation and
	Removal of strut at ELS will commence	setting as in the silt screen and silt curtain deployment plan
	Construction works for Box	
	Culvert T1	
	Removal of marine platform	
	Construction of pile cap, pier &	
	cross head (Marine)	
	• ELS, EVB and Cut & Cover	
	Tunnel	
	Installation of dewatering well	
	 Laying of 1500φ pipe 	
	Launching of segments	
	Extraction of temporary pile from marine section	
	Construction of bridge truss TA1	
	Demolition of parapet at IEC link	
	Construction of King Post at ELS	
HK/2012/08	Site survey	To conform the installation and
	Dredging	setting as in the silt screen and silt
	 ELS for box culvert La at Lung 	curtain deployment plan
	King Street	 To space out noisy equipment and position as far as possible from
	 Works for abandoning watermains 	sensitive receiver.
	at Lung King Street	 Daily visual inspection of silt screen and silt curtain to ensure its
	 Seawall rock mound formation 	operation properly
	 Filling for reclamation 	
	5	

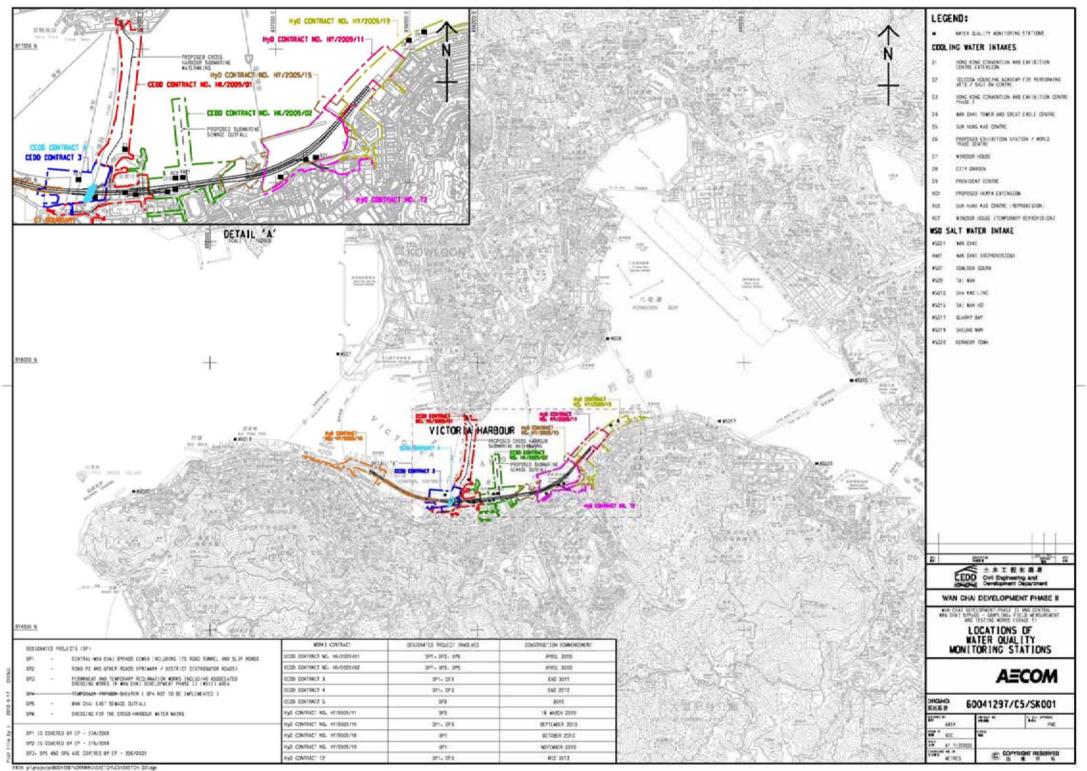


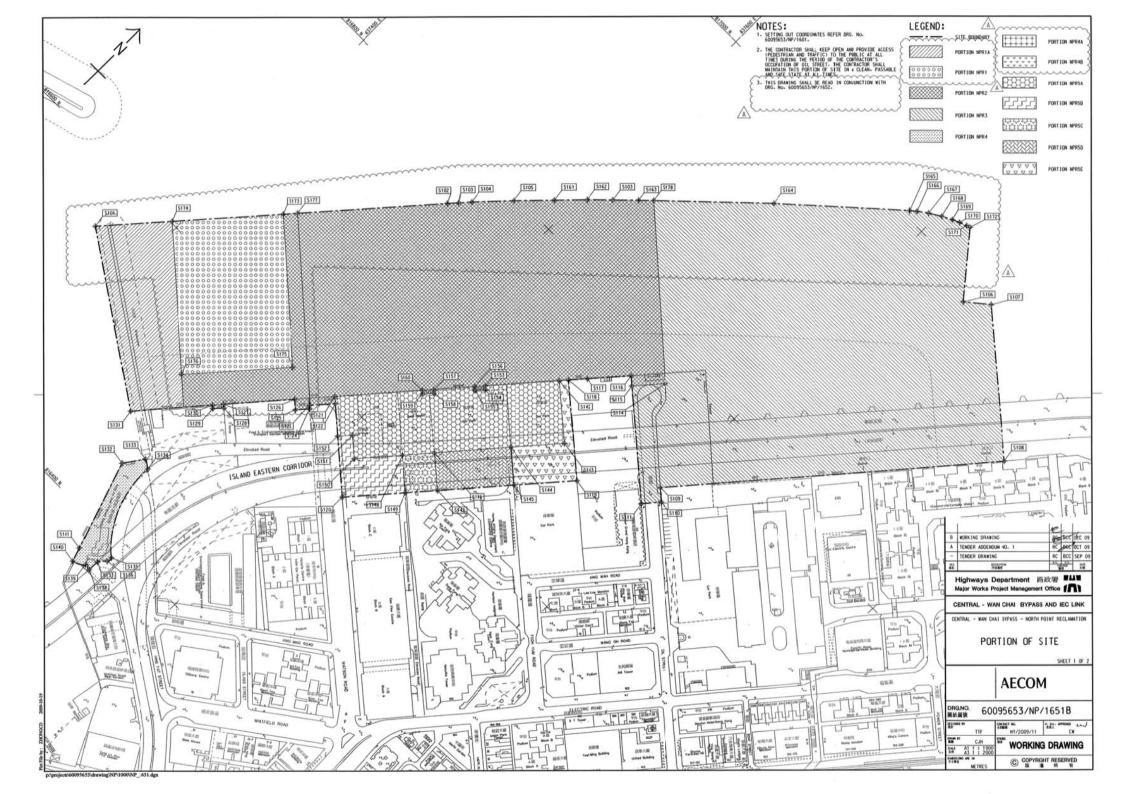
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/08	Dredging works	 To conform the installation and setting as in the silt screen and silt curtain deployment plan Daily visual inspection of silt screen and silt curtain to ensure its operation properly

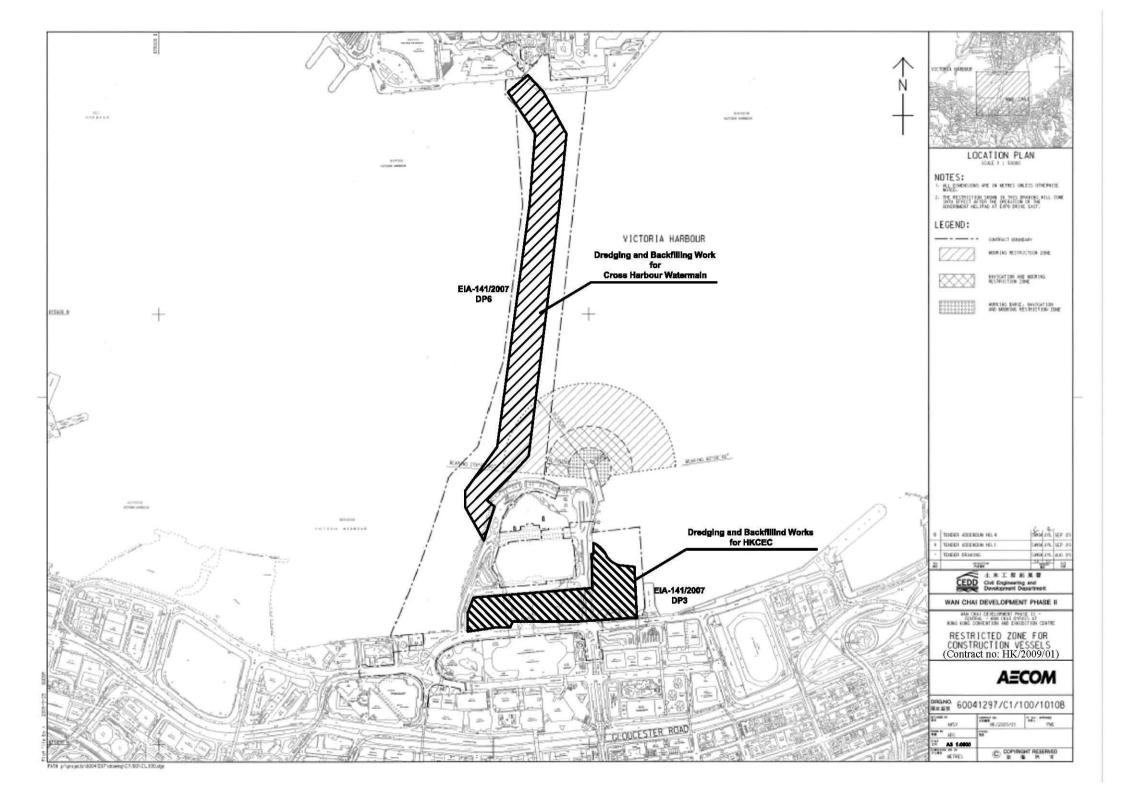


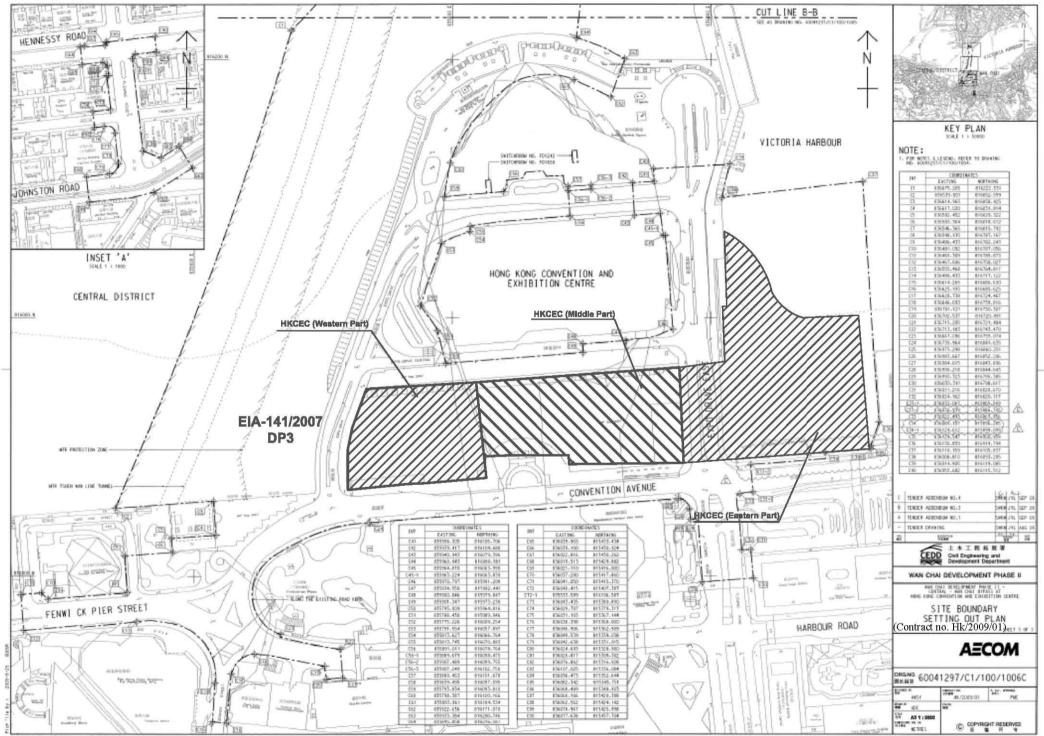
Figure 2.1

Project Layout

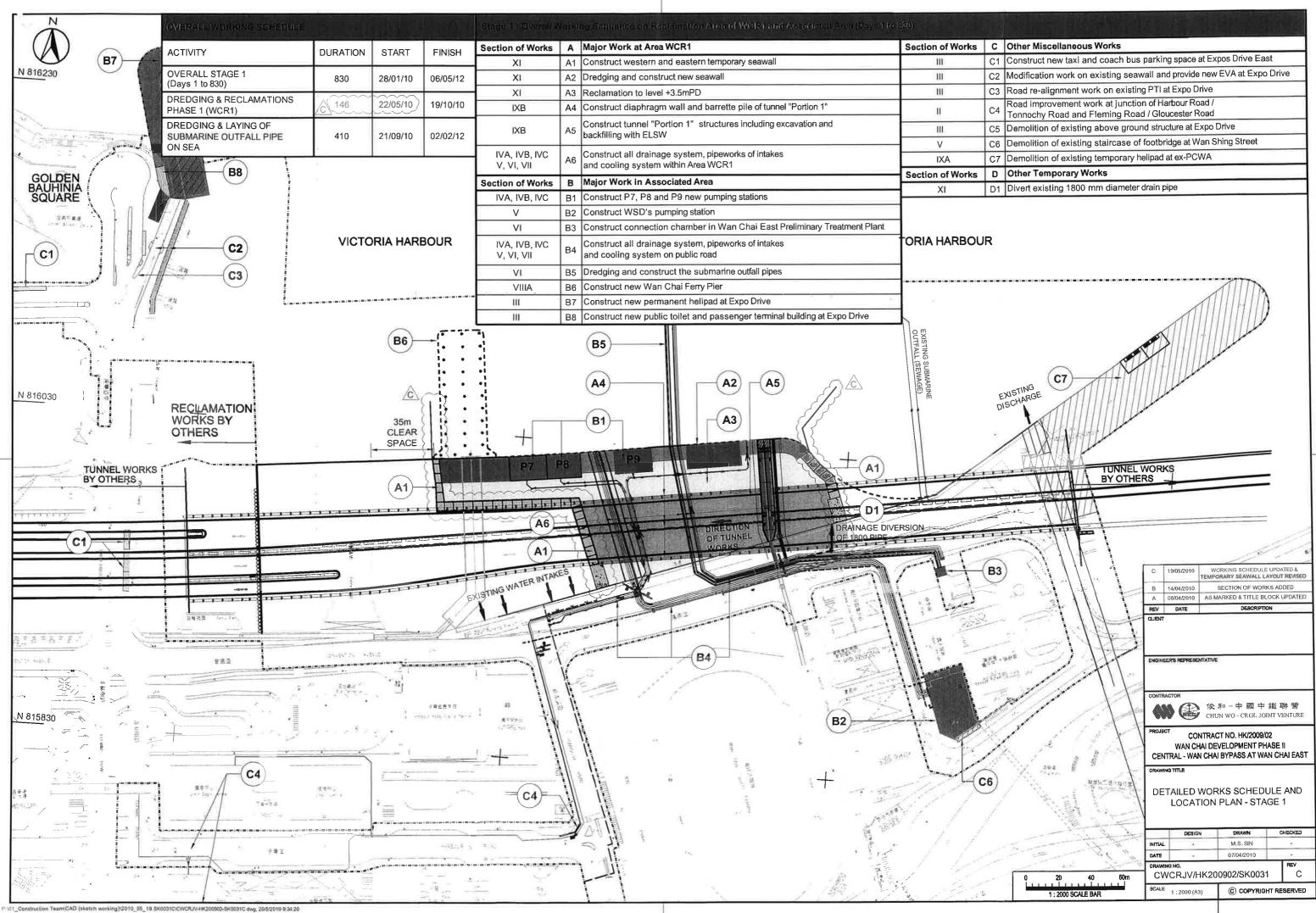




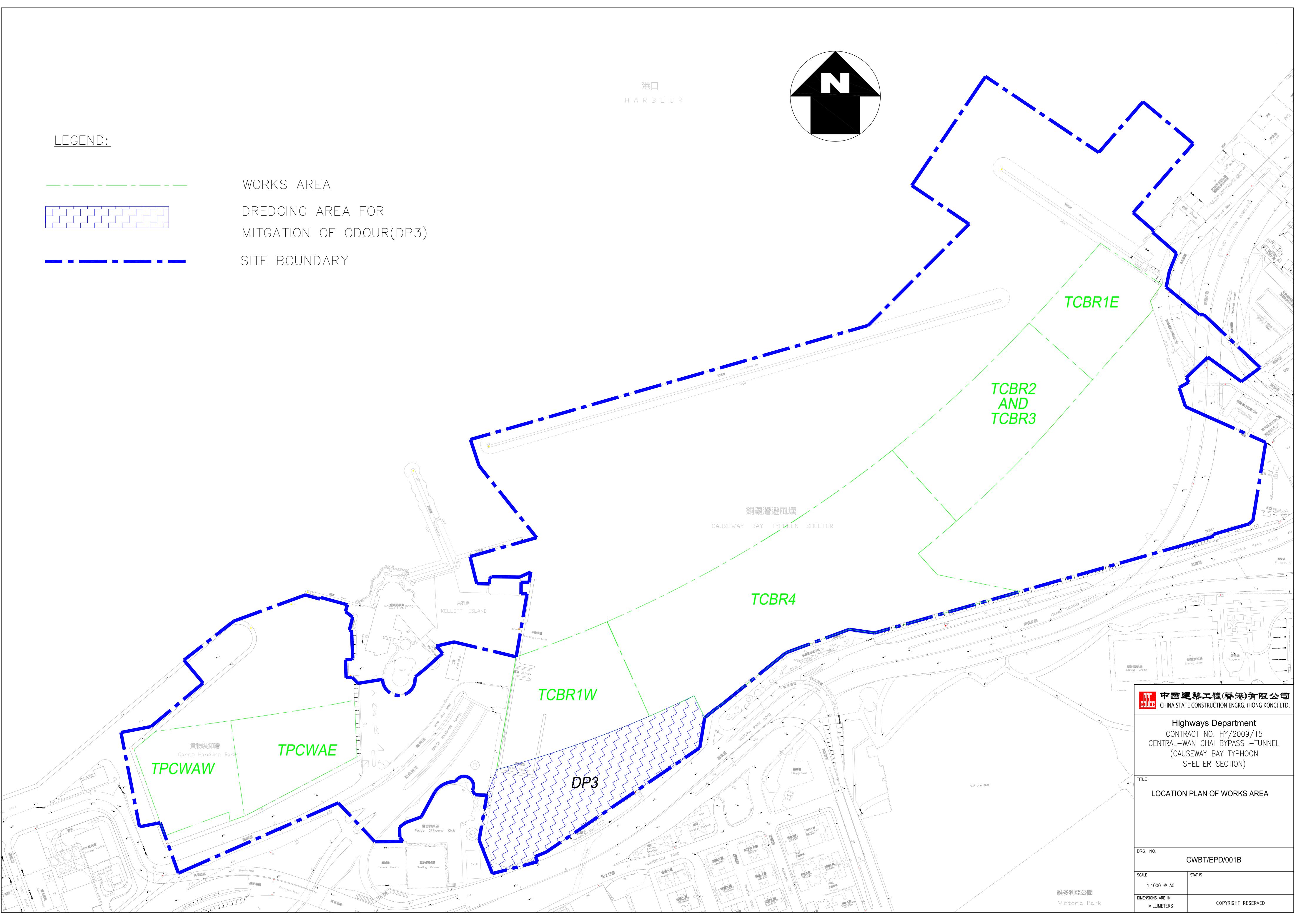


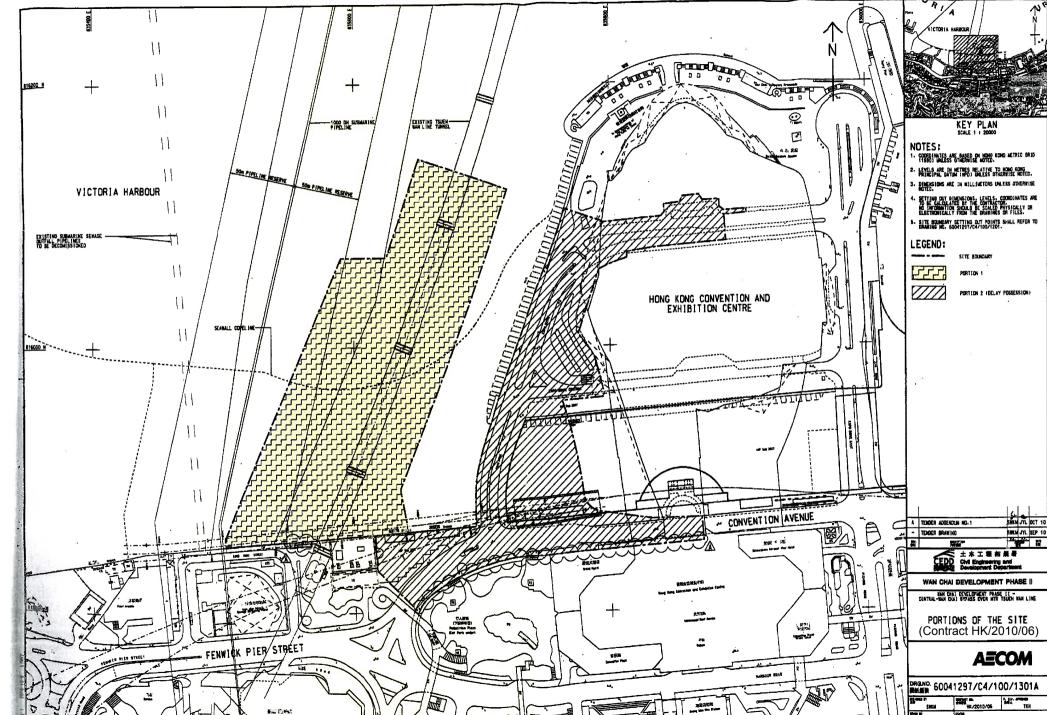


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С	Other Miscellaneous Works
C1	Construct new taxi and coach bus parking space at Expos Drive East
C2	Modification work on existing seawall and provide new EVA at Expo Drive
C3	Road re-alignment work on existing PTI at Expo Drive
C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
C5	Demolition of existing above ground structure at Expo Drive
C6	Demolition of existing staircase of footbridge at Wan Shing Street
C7	Demolition of existing temporary helipad at ex-PCWA
D	Other Temporary Works
D1	Divert existing 1800 mm diameter drain pipe





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Figure 2.2

Project Organization Chart



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

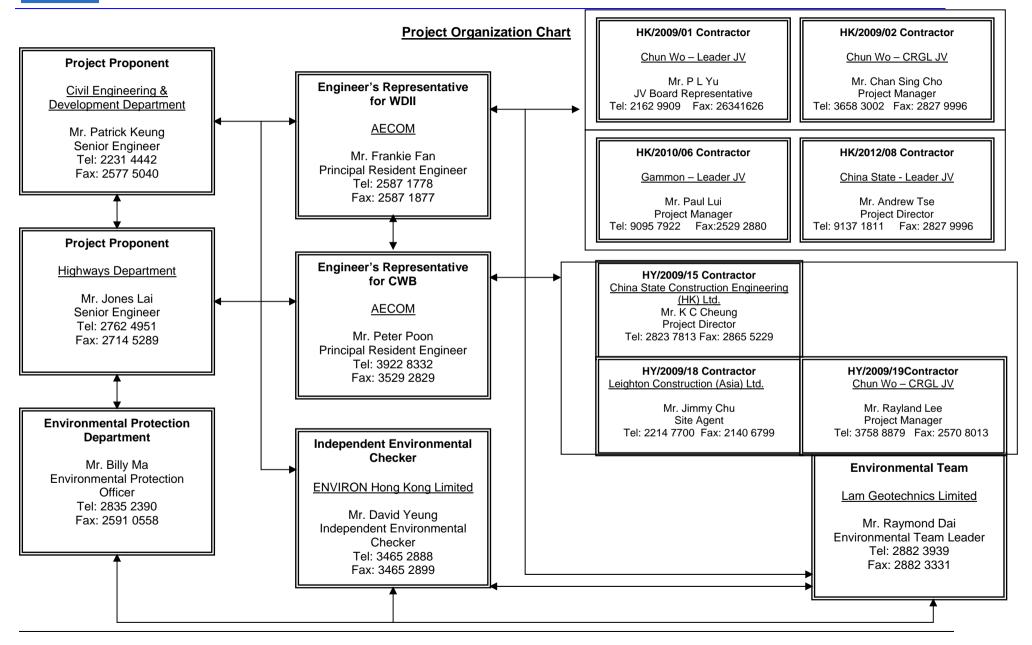
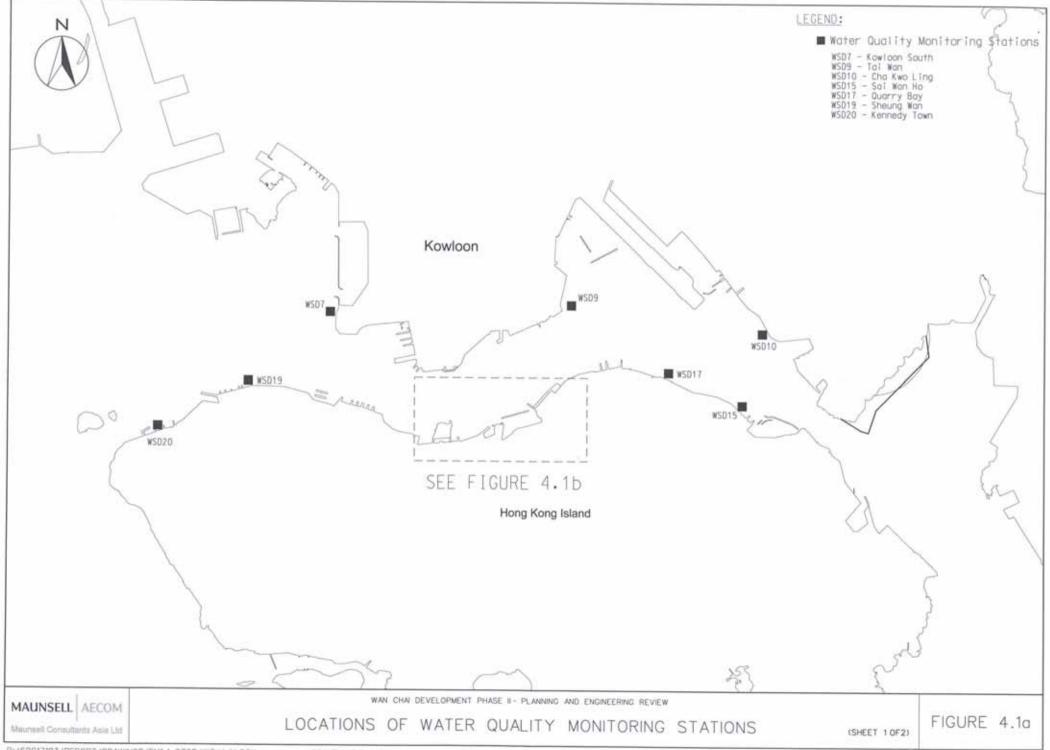




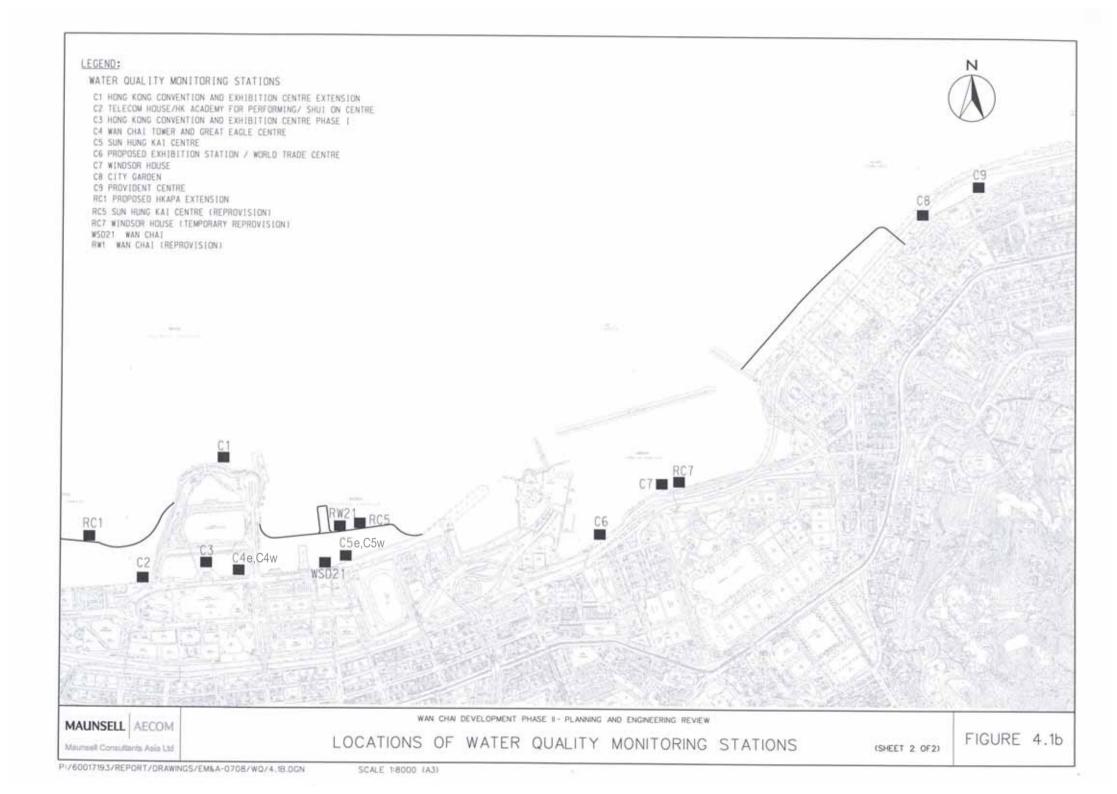
Figure 4.1

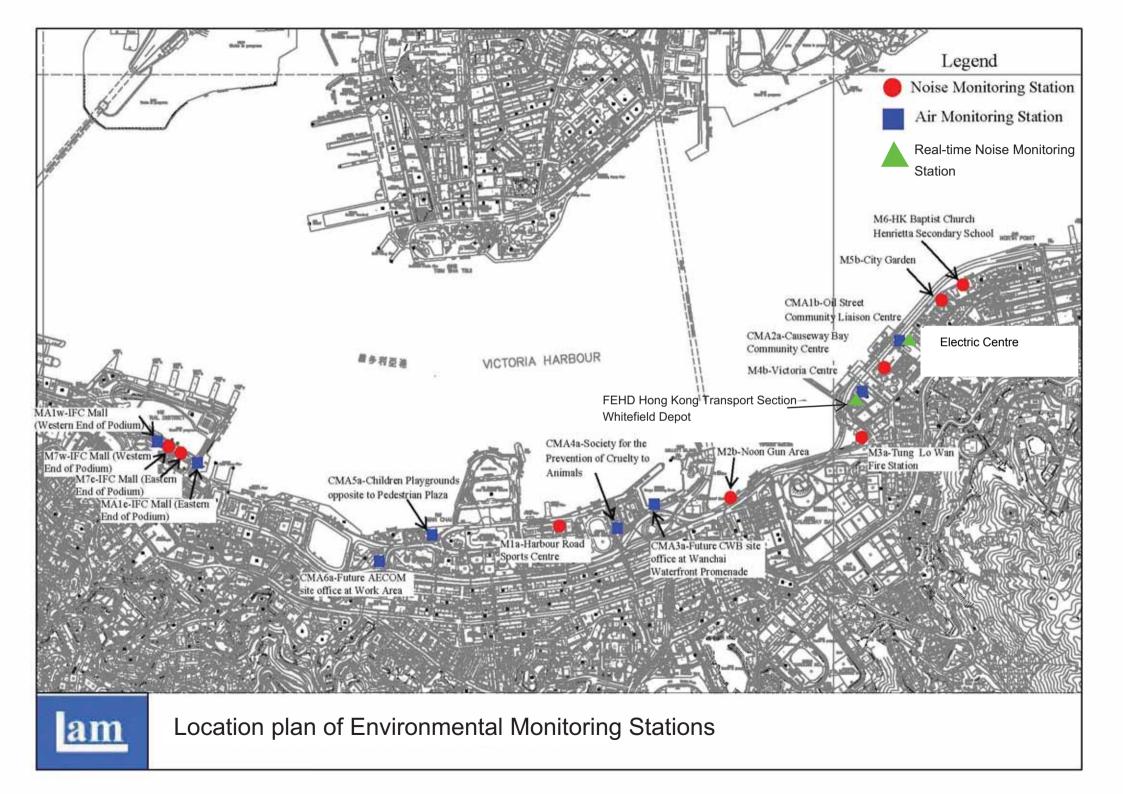
Locations of Monitoring Stations

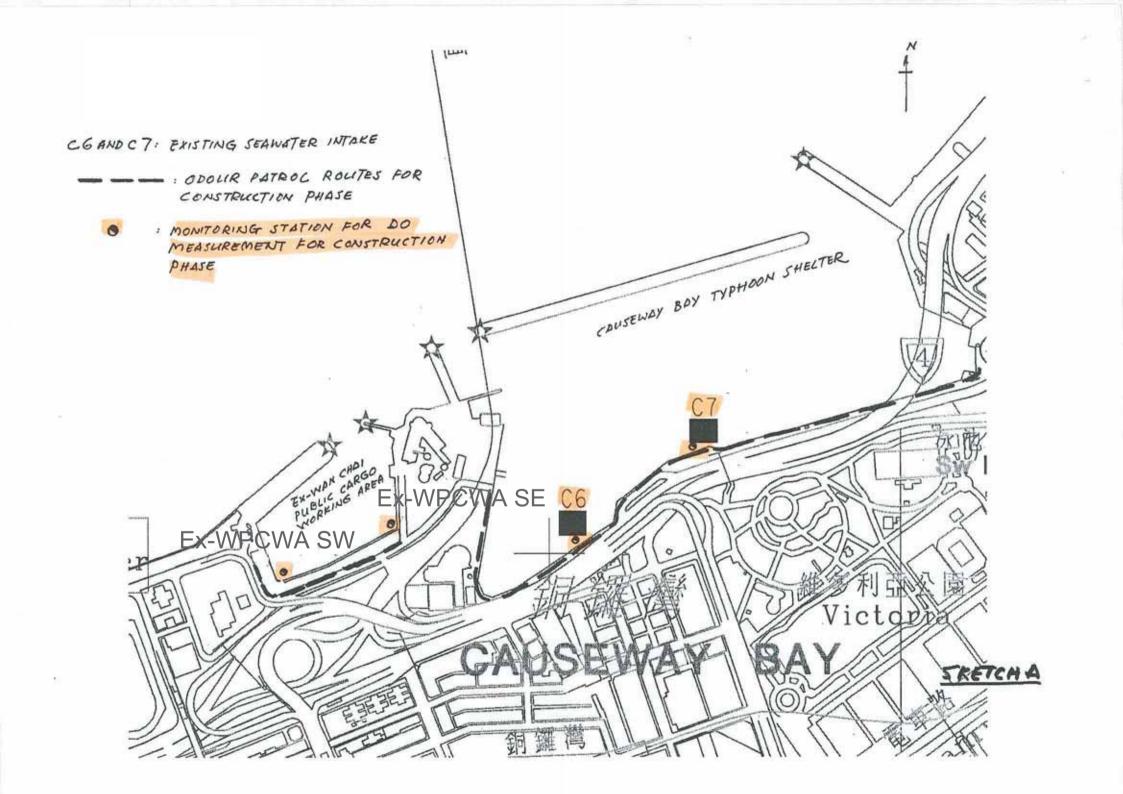


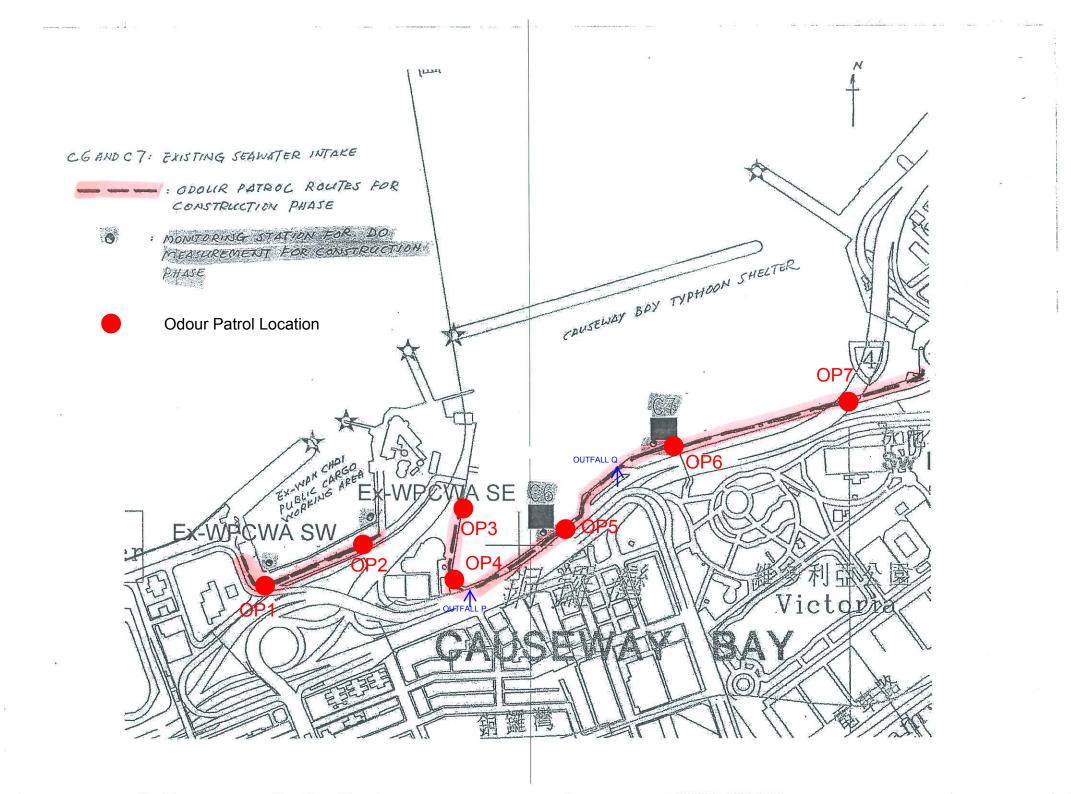
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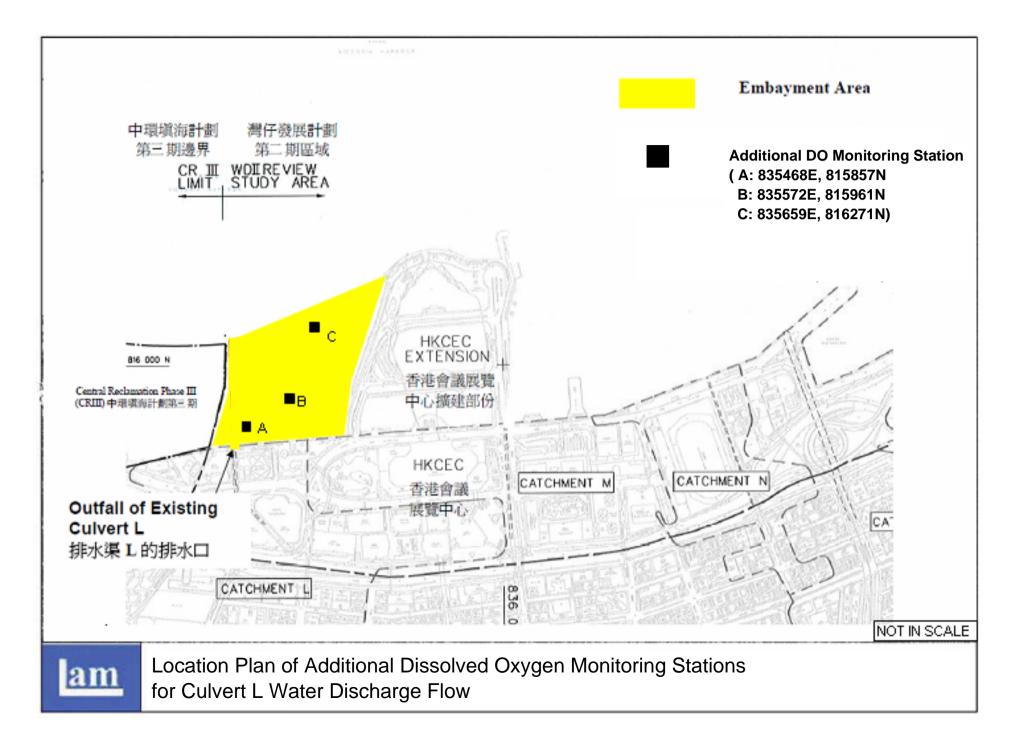
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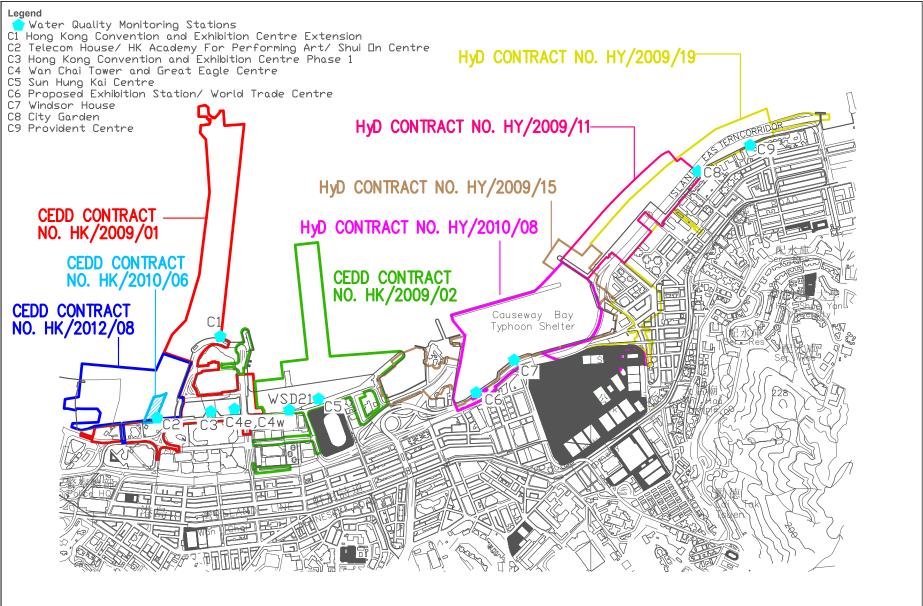




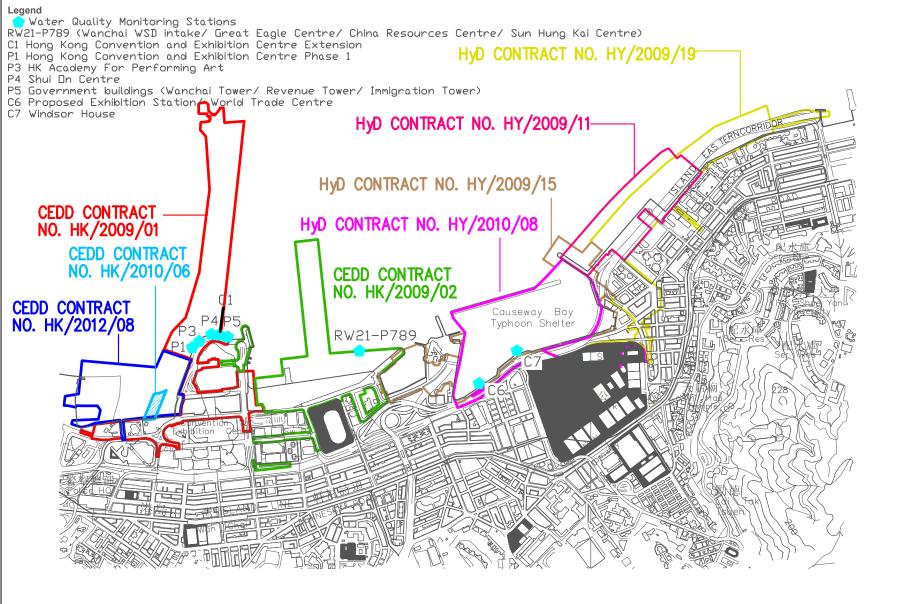




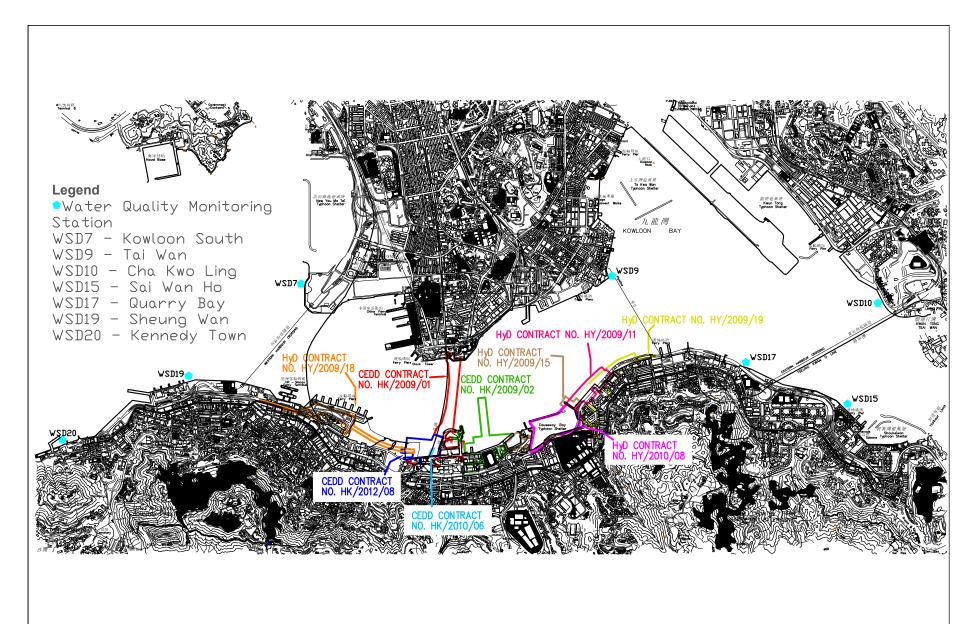




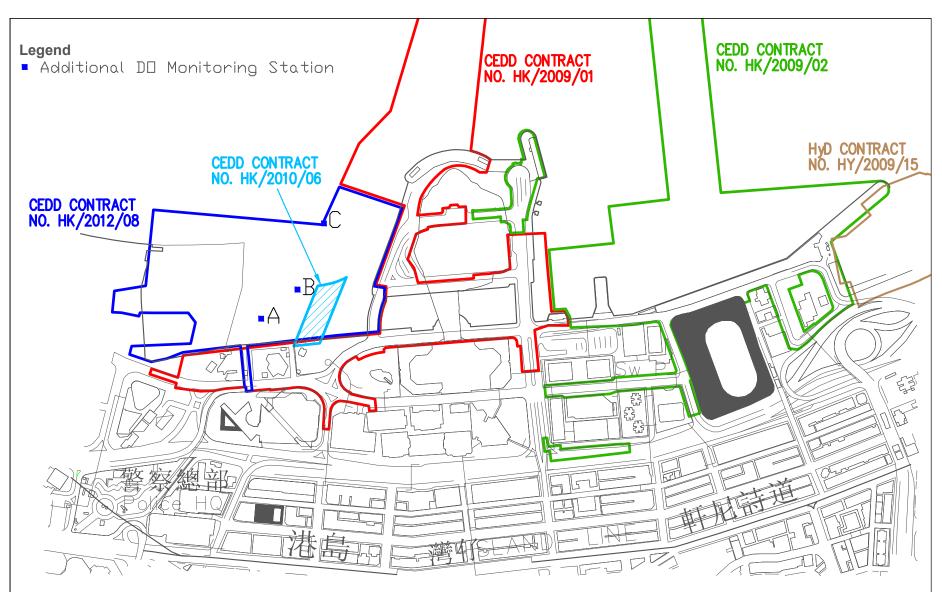
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



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



Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

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

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

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Monthly EM&A Report

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

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

Contract no. HK/2011/07

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

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

Appendix 3.1

Contract no. HK/2011/07

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	ection Measures / Mitigation Measures Location / Timing Implementation		In	1 .	entati ges*	on	Relevant Legislation		
LIA Ku		Location / Thing	Agent	Des	С	0	Dec	and Guidelines		
Constructio	Construction Phase									
For the Whe	ole Project									

Contract no. HK/2011/07

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		entati ges*	Relevant Legislation		
			Agent	Des	С	0	Dec	and Guidelines	
S4.9.4	Good Site Practice:	Work Sites / During	Contractor		\checkmark			EIAO-TM, NCO	
	 Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. 								
	 Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. 								
	• Mobile plant, if any, shall be sited as far away from NSRs as possible.								
	 Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. 								
	 Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 								
	• Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.								
For DP1 –	CWB (Within the Project Boundary)								

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)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
				Des	С	0	Dec	
\$4.8.3 – \$4.8.5	 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		V			EIAO-TM, NCO
For DP2 –	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		V			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	Implementation Stages*				Relevant Legislation
Lintitei		Location / Thining	Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor					EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 –	CWB (Within the Project Boundary)							

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

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

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

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

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Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP.	1 - CW	B (within the Project
\$5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / I	Mitigation M	Acasures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
	Environmental Frotection freusares /	sincigation is	icusuics		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary rec typhoon shelter shall not be fully enclose		ithin the o	Causeway Bay	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the acc within the temporary embayment be impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The bar discharge flows from Culvert L to the contractor will maintain this barrier HKCEC2W are carried out and the new 0	etween CRII floating boor be erected b rier will ch e outside of until the	veen CRIII and HKCEC1, an bating boom on the water surface e erected by the contractor before er will channel the stormwater outside of the embayment. The until the reclamation works in			Contractor		V			EIAO-TM, WPCO
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		V			EIAO-TM, WPCO
	Reclamation Area	m ³ per day (fo		Maximum Dredging Rate (m ³ per week)							
	Dredging along seawall or breakwater										
	North Point Shoreline Zone (NPR)	6,000	375	42,000							
	Causeway Bay TBW	1,500	94	10,500							
	Shoreline Zone TCBR	6,000	375 313	42,000							
	PCWA Zone	5,000	313	35,000							

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EIA Ref	Environmental Protection Measures /	Mitigatio	n Measures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
EIA KU	Environmental Frotection Measures /	unigano	in wreasures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000							
	HKCEC Shoreline Zone HKCEC Stage 1 & 3 (HKCEC) HKCEC Stage 2	1,500	94 375	10,500 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 ³ per day shall be app seawall of WCR1.										
S5.8, Figure 5.3	Dredging along the seawall at WCF 1,500m ³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water man much as possible from further dredging	e western by partial k) to pro	seawall (wh seawall con	nich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Ba partially constructed to protect the no dredging activities. For example, at seawalls shall be constructed first (al seawater intakes at the inner water woul the remaining dredging activities along	arby seav FCBR1W ove high d be prote	water intake , the southe water mar ected from th	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed aroun seawall dredging and seawall trench fi TCBR and NP.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater as stated below: Interim Construction Stage Scenario 2A in early WSD saltway	pplicatio	ns	struction stages	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	2009 with concurrent Bay, Sheung dredging activities at Cooling wat	Wan, Wan er intakes	Chai, Kowloo for Hong Ko								

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Implementation Location / Implementation **Relevant Legislation** Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing Agent and Guidelines Des С 0 Dec TBW, NP and Water Convention and Exhibition Centre Phase I, Telecom Mains Zone House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre **Scenario 2B** 2009/2010 in late WSD saltwater intakes at Sheung Wan, Wan Chai with Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and concurrent dredging activities Sewage Windsor House. at Zone Pipelines and TCBR. Scenario 2C in 2011 with WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. concurrent dredging activities at HKCEC and Cooling water intakes for MTR South, Excelsion Hotel & World Trade Centre and reprovisioned TCBR. Windsor House. ProPECC PN 1/94; S5.8 Work site / Contractor $\sqrt{}$ Other mitigation measures include: WPCO (TM-DSS) During the mechanical grabs, if used, shall be designed and maintained to avoid ٠ construction spillage and sealed tightly while being lifted. For dredging of any period contaminated mud, closed watertight grabs must be used; all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and

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

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

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

³ CEDD will identify an implementation agent.

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EIA Ref	Environmental Protection Measures / Mitigation Measures		Implementation	In		entati ges*	Relevant Legislation	
LIITIKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
\$5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<i>Floating Debris and Refuse</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		\checkmark			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
LIITIKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO
Operation	Phase							
	B (within the Project Boundary)				r		T	
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	• Petrol interceptors shall be regularly cleaned and maintained in good working condition.							
	 Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. 							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,							

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

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

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

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Table A13.4 Implementation Schedule for Waste Management

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

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Implementation Implementation **Relevant Legislation** Stages* Environmental Protection Measures / Mitigation Measures EIA Ref Location / Timing and Guidelines Agent Des С 0 Dec 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 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 S6.7.6 quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		Lookidon / Thining	Agent	Des	С	0	Dec	and Guidelines
	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
\$6.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		V			

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

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
21111101		Lioution / Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation	
Lint Kei	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004	
S6.7.14	 Bentonite Shurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be writed the used after the marine. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94	
	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. 								

* 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
Lint Kei	Environmental Protection Steasanes/ Stitigation Steasanes	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	nole Project							
S.12.6	The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
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	V				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	In	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	 Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities: 							Water Pollution Control Ordinance

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

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

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

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Table A13.6 Implementation Schedule for Marine Ecology

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

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

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

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

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Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	ion	Relevant Legislation and Guidelines
				0	Des	С	0	Dec	
Construction	Phase								
For the Whole	Project								
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing Implementation Implementation **Relevant Legislation** and Guidelines Agent Stages³ Des С 0 Dec Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor EIAO TM the surrounding setting Construction Phase For DP2 – WDII Major Roads (Road P2) CM1 Topsoil, where identified, shall be stripped and stored for Work site / During EIAO TM Table 10.5 Contractor $\sqrt{}$ $\sqrt{}$ re-use in the construction of the soft landscape works, Construction Phase where practical. Work site / During EIAO TM Table 10.5 CM2 Existing trees to be retained on site shall be carefully Contractor $\sqrt{}$ $\sqrt{}$ protected during construction Construction Phase Table 10.5 CM3 Trees unavoidably affected by the works shall be $\sqrt{}$ $\sqrt{}$ EIAO TM Work site / During Contractor transplanted where practical. Construction Phase Table 10.5 CM4 Compensatory tree planting V EIAO TM shall be provided to Work site / During Contractor $\sqrt{}$ compensate for felled trees. Construction Phase Table 10.5 CM5 Control of night-time lighting. EIAO TM Work site / During Contractor $\sqrt{}$ Construction Phase Table 10.5 Erection of decorative screen hoarding compatible with $\sqrt{}$ EIAO TM CM6 Work site / During Contractor the surrounding setting. Construction Phase For DP3 – Reclamation Works EIAO TM Table 10.5 CM5 Control of night-time lighting. Work site / During Contractor V Construction Phase Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor $\sqrt{}$ EIAO TM the surrounding setting Construction Phase For DP5 – Wan Chai East Sewage Outfall Refer to EIA-CM2 Minimisation of works areas Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13 Refer to EIA-CM3 Erection of decorative hoardings. Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*		Relevant Legislation and Guidelines
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP6 - Cros	ss-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se							
	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	\checkmark	V	\checkmark		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004

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Image: Constraint of the section of	EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			ion	Relevant Legislation and Guidelines
Figure 10.5.1- 10.5.5 and associated structures. Design Stage and Operation Phases CEDD ⁴ V V Table 10.6, Figure 10.5.1- 10.5.5 OM4 Aesthetic design of proposed waterfront promenade. Design Stage and Operation Phases CEDD ⁴ V V						Des	С	0	Dec	
10.5.5Operation PhasesCEDD4Table 10.6, Figure 10.5.1- 10.5.5OM4Aesthetic design of proposed waterfront promenade. Proposed waterfront promenade.Work site / During Design Stage and Operation PhasesCEDD4Table 10.6, Figure 10.5.1- 10.5.5OM5Aesthetic streetscape design.Work site / During Design Stage and Operation PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic 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 PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM1Aesthetic design of buildings, subways, footbridges and noise barriers and enclosure.Work site / During Design Stage and Operation PhasesHyDTable 10.6, 	Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/					ETWB TCW 2/2004
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_	Figure 10.5.1-		and associated structures.	Design Stage and						
Figure 10.5.1- 10.5.5OM5Aesthetic streetscape design.Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM1Aesthetic design of buildings and road-related structures, 	10.5.5			Operation Phases						
10.5.5 Operation Phases Operation Phases Image: CEDD/HyD operation Phases V V Table 10.6, Figure 10.5.1- 10.5.5 OM6 Aesthetic streetscape design. Work site / During Design Stage and Operation Phases CEDD/HyD V V V Table 10.6, Figure 10.5.1- 10.5.5 OM6 Aesthetic design of roadside amenity areas. Work site / During Design Stage and Operation Phases CEDD/HyD V V V Table 10.6, Figure 10.5.1- 10.5.5 OM6 Aesthetic design of roadside amenity areas. Work site / During Design Stage and Operation Phases CEDD/HyD V V V 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 HyD √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed structures Work site / During Design Stage and Operation Phases HyD √ √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed roads Work site / During Design Stage and Operation Phases HyD √ √ √ 10.5	Гable 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	CEDD ⁴	\checkmark				ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5OM5 A esthetic streetscape design.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6 A esthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6 A esthetic 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 PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM1 and noise barriers and enclosure.Work site / During Design Stage and Operation PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM3 and associated structures.Shrub Planting to screen proposed roads and associated structures.Work site / During Design Stage and Operation PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM3 and associated structures.Work site / During Design Stage and Operation PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM5 and associated structures.Work site / During Design Stage and Operation PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1-OM5 and associated structures.Work site / During Design Stage and Operation PhasesHyD \checkmark \checkmark Table 10.6, Figure 10.5.1-OM5 A esthetic streetscape design.Work site / During De										
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Figure 10.5.1- Design Stage and				Design Stage and					1	
10.5.5 Operation Phases Operation Phases				Operation Phases						

⁴ 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 Agent	Implementation Stages*			ion	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
For DP3 - Rec	lamation	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	CEDD ⁵	V	V	V		ETWB TCW 2/2004

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

⁵ CEDD will identify an implementation agent

Appendix 3.1



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) ^{Note 1}

Note 1:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Level in μ g/m ³		24-hour TSP Le	evel in μ g/m ³
	Action Level	Limit Level	Action Level	Limit Level
CMA1b Note 2	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a Note 2	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a Note 2	332.0	500	181.0	260
CMA6a Note 2	300.1	500	187.3	260

Note 2:

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

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

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season					
Falameter 5	Action	Limit	Action	Limit				
WSD Salt Water Intake								
SS in mg L ⁻¹	13.00	14.43	16.26	19.74				
Turbidity in NTU	8.04	9.49	10.01	11.54				
DO in mg/L	3.66	3.28	3.17	2.63				
Cooling Water Intak	Cooling Water Intake							
SS in mg L ⁻¹	15.00	22.13	18.42	27.54				
Turbidity in NTU	9.10	10.25	11.35	12.71				
DO in mg/L	3.36	2.73	3.02	2.44				

Remarks:

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

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

Action and Limit Levels for Odour Patrol



Appendix 4.2

Copies of Calibration Certificates



Certificate No. 33624	Page 1 of 4 Pages
Customer : Lam Geotechnics Limited	
Address : 11/F, Centre Point, 181-185 Gloucester Road, Wand	chai, Hong Kong.
Order No.: Q31494	Date of receipt : 30-May-13
Item Tested	
Description : Digital Sound Level Meter Manufacturer : B&K	
Model : Type 2236	Serial No. : 2100736
Test Conditions	
Date of Test: 3-Jun-13	Supply Voltage :
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %
Test Specifications	
Calibration check.	
Ref. Document/Procedure : Z01.	
Test Results	
All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 12 The results are shown in the attached page(s).	60 Class 1 specification.

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C127181	SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCL-HKSAR

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

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by :

Liam Wong

Approved by : __

Dorothy Cheuk

Date: 3-Jun-13

This Certificate is issued by: E Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong, Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 33624

Page 2 of 4 Pages

Results :

1. SPL Accuracy

	L	JUT Setting			
Range	Parameter	Frequency Wt.	Freq. Response	Applied Value (dB)	UUT Reading (dB)
20 - 100	SPL	dBA	F	94.0	93.8
			S		93.8
		dBC	F		93.8
		dBL	F		93.9
		1 kHz	F		93.8
40 - 120	SPL	dBA	F	94.0	93.9
		1 kHz	F		93.9
	SPL	dBA	F	114.0	113.8
			S		113.8
		dBC	F		113.9
		dBL	F		113.9
		1 kHz	F		113.8

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.1 dB

 Level Stability : 0.0 dB IEC 651 Type 1 Spec. : ± 0.3 dB Uncertainty : ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	113.9	0.0	± 0.7 dB
130	104.0	103.9	0.0	
120	94.0	93.9 (Ref.)		
110	84.0	83.9	0.0]
100	74.0	73.9	0.0	
100	64.0	63.9	0.0	
100	54.0	53.9	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 33624

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	0.0	$\pm 0.4 \text{ dB}$
	94.0	93.9 (Ref.)		
	95.0	94.9	0.0	± 0.2 dB

Uncertainty : $\pm 0.1 \text{ dB}$

4. Frequency Weighting

A weighting

Freq	uency	Attenuation (dB	IEC 651 Type 1 S	Spec.	
31.5	Hz	-39.6		- 39.4 dB, ± 1.5	5 dB
63	Hz	-26.4		- 26.2 dB, ± 1.5	5 dB
125	Hz	-16.3		- 16.1 dB, ± 1	dB
250	Hz	-8.8		- 8.6 dB, ± 1	dB
500	Hz	-3.3		- 3.2 dB, ± 1	dB
1	kHz	0.0	(Ref)	$0 \text{ dB}, \pm 1$	dB
2	kHz	+1.2		+ 1.2 dB, ± 1	dB
4	kHz	+0.9		+ 1.0 dB, ± 1	dB
8	kHz	-1.2		- 1.1 dB, + 1.5 dB	~ -3 dB
16	kHz	-6.8		- 6.6 dB, + 3 dB	~ - 00

Uncertainty : $\pm 0.1 \text{ dB}$

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^{2}$	40.0	39.8	
$1/10^{3}$	40.0	39.7	± 1.0 dB
$1/10^{4}$	40.0	39.5	

Uncertainty : $\pm 0.1 \text{ dB}$



Certificate No. 33624

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6. Filter Response

Filter	Setting		Attenuation (d	B)	IEC 1260 Class 1 Spec.
125	Hz		-63.6		<- 61
250	Hz		-44.8		< - 42
500	Hz		-21.0		< - 17.5
707	Hz		-3.7		- 2~- 5
1	kHz	(Ref.)	0.0	(Ref.)	
1.41	4 kHz		-4.1		- 2~- 5
2	kHz		-21.4		< - 17.5
4	kHz		-45.0		< - 42
8	kHz		-63.9		<- 61

Uncertainty : $\pm 0.2 \text{ dB}$

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 996 hPa
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END ------



Certificate No.	34228		Page	1 of 2 Pages
Customer :	Lam Geotechnics Limited			
Address :	11/F, Centre Point, 181-185 G	Bloucester Road, Wa	nchai, Hong Kong	
Order No. :	Q31610		Date of receipt	t : 21-Jun-13
Item Tested				
Manufacturer :	Sound Level Calibrator Rion NC-73		Serial No.	: 10707358
Test Conditi	ons			
Date of Test :			Supply Voltag	e :
Ambient Temp			Relative Humi	dity : (50 ± 25) %
Test Specifi	cations			
Calibration cheo Ref. Document	ck. /Procedure : F21, Z02.			
Test Results	S			
All results were	within the manufacturer's spe	cification.		
The results are	shown in the attached page(s	i).		
Main Test equi	pment used:			
Equipment No.		Cert. No.		Traceable to
S014	Spectrum Analyzer	30259		NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	30620		NIM-PRC & SCL-HKSAR
S041	Universal Counter	28347		SCL-HKSAR
S206	Sound Level Meter	30655		SCL-HKSAR
will not include allo	in this Calibration Certificate only rela owance for the equipment long term of nandling, or the capability of any othe mage resulting from the use of the eq	r laboratory to repeat the r	mental changes, vibi	and any uncertainties quoted ation and shock during transportation, Kong Calibration Ltd. shall not be liable
The test equipme	nt used for calibration are traceable to	o International System of l	Jnits (SI).	

The test results apply to the above Unit-Under-Test only

Liam Wong

Calibrated by :

Approved by : Dorothy Cheuk

This Certificate is issued by: L Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 34228

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	93.88 dB	± 1 dB

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.995 kHz	± 2 %

Uncertainty : ± 0.1 %

- **3.** Level Stability : 0.0 dB Uncertainty : ± 0.01 dB
- Total Harmonic Distortion : < 0.2 % Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. The above measured values were the mean of 3 measurements.
- 4. Atmospheric Pressure : 999 hPa

----- END -----

領導檢測有限公司 PILOT TESTING LIMTIED Page 1 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:CONTACT:DEREK LOWORK ORDER: HK1310015CLIENT:LAM GEOTECHNICS LIMITEDDATE RECEIVED:09/09/2013DATE OF ISSUE:13/09/2013ADDRESS: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.:	1203008	
Equipment No.:		
Date of Calibration:	13 September, 2013	

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.

Cunan tan

Mr. Peter Lee Director

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領導檢測有限公司 PILOT TESTING LIMTIED Page 2 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310015

DATE OF ISSUE: <u>13th September, 2013</u> CLIENT: <u>LAM GEOTECHNICS LIMITED</u>

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203008	
Equipment No.:		
Date of Calibration:	13 September, 2013	
Date of next Calibration:	13 December, 2013	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	0
4	3.85	-3.8
10	10.2	+2.0
40	39.1	-2.2
100	95.0	-5.0
400	420	+5.0
1000	980	-2.0
	Tolerance Limit (±%)	10.0

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

Lunan

Mr. Peter Lee Director

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領導檢測有限公司 PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:CONTACT:DEREK LOWORK ORDER:HK1310017CLIENT:LAM GEOTECHNICS LIMITEDDATE RECEIVED:09/09/2013DATE OF ISSUE:13/09/2013ADDRESS: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.:	1203006	
Equipment No.:		
Date of Calibration:	13 September, 2013	

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.

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領導檢測有限公司 PILOT TESTING LIMTIED Page 2/2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: <u>HK1310017</u>

DATE OF ISSUE: <u>13th September, 2013</u>

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203006
Equipment No.:	
Date of Calibration:	13 September, 2013
Date of next Calibration:	13 December, 2013

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	0
4	3.85	-3.8
10	9.65	-3.5
40	42.0	+5.0
100	97.2	- 2.8
400	422	+5.5
1000	972	-2.8
	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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Mr. Peter Lee Director

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領導檢測有限公司 **PILOT TESTING LIMTIED** Page 1 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:CONTACT:DEREK LOWORK ORDER:HK1310007CLIENT:LAM GEOTECHNICS LIMITEDDATE RECEIVED:30/07/2013DATE OF ISSUE:31/07/2013ADDRESS: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.:	1203016	
Equipment No.:		
Date of Calibration:	31 July, 2013	

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.

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領導檢測有限公司 PILOT TESTING LIMTIED Page 2 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: <u>HK1310007</u> DATE OF ISSUE: <u>31st July, 2013</u> CLIENT: <u>LAM GEOTECHNICS LIMITED</u>

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203016	
Equipment No.:		
Date of Calibration:	31 July, 2013	
Date of next Calibration:	30 October, 2013	

Parameters:

Turbidity

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	+0.2
4	3.85	-3.8
10	9.68	-3.2
40	42.1	+5.2
100	96.0	-4.0
400	387	-3.2
1000	985	-1.5
	Tolerance Limit (±%)	10.0

Method Ref: APHA 22nd ed. 2130B

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

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領導檢測有限公司 PILOT TESTING LIMTIED Page 1 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:CONTACT:KATHIE HOWORK ORDER:HK1310025CLIENT:LAM GEOTECHNICS LIMITEDDATE RECEIVED:04/11/2013DATE OF ISSUE:05/11/2013ADDRESS: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.:	1203016	
Equipment No.:		
Date of Calibration:	5 November, 2013	

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.

Ceman Mr. Peter Lee

Mr. Peter Lee Director

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領導檢測有限公司 PILOT TESTING LIMTIED Page 2 / 2 REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: <u>HK1310025</u> DATE OF ISSUE: <u>5th November 2013</u> CLIENT: <u>LAM GEOTECHNICS LIMITED</u>_

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203016	
Equipment No.:		
Date of Calibration:	5 November, 2013	
Date of next Calibration:	5 February, 2014	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	+0.2
4	4.27	+6.8
10	10.3	+3.0
40	42.4	+5.2
100	105	+5.0
400	417	+4.2
1000	970	-3.0
	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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Mr. Peter Lee Director

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR DEREK LO
CLIENT:	LAM GEOTECHNICS LIMITED
ADDRESS:	11/F., CENTRE POINT,
	181-185 GLOUCESTER ROAD,
	WAN CHAI, HONG KONG
PROJECT:	

...

WORK ORDER:	HK1327829
LABORATORY:	HONG KONG
DATE RECEIVED:	09/10/2013
DATE OF ISSUE:	17/10/2013

COMMENTS

It is certified that the item under calibration/checking 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 aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	11F100597
Equipment No.:	
Date of Calibration:	15 October, 2013

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd 11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 <u>hongkong@alsglobal.com</u>

Mr. Fung Lim Chee ichard General Manager Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1327829 17/10/2013 LAM GEOTECHNICS LIMITED



Equipment Type:	
Brand Name:	
Model No.:	
Serial No.:	
Equipment No.:	
Date of Calibration:	

Multimeter YSI Professional plus 11F100597 --15 October, 2013

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Date of next Calibration:

15 January, 2014

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.85	1.89	0.04
5.22	5.37	0.15
7.95	7.96	0.01
	Tolerance Limit (±mg/L)	0.20

pH Value

Method Ref: APHA (21st edition), 4500H:B

(pected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.01	0.01
7.0	6.98	-0.02
10.0	10.02	0.02
	Tolerance Limit (±pH unit)	0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.02	
10	9.61	-3.9
20	19.65	-1.8
30	29.86	-0.5
	Tolerance Limit (± ppt)	10.0

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	11.5	0.5
25.0	23.8	-1.2
38.0	37.1	-0.9
	Tolerance Limit (±°C)	2.0

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

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Mr. Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Page 2 of 2



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR DEREK LO LAM GEOTECHNICS LIMITED CLIENT: ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG ---

WORK ORDER:	HK1326638
LABORATORY:	HONG KONG
DATE RECEIVED:	27/09/2013
DATE OF ISSUE:	07/10/2013

PROJECT:

COMMENTS

It is certified that the item under calibration/checking 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 aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	11F100420
Equipment No.:	
Date of Calibration:	07 October, 2013

NOTES

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ISSUING LABORATORY: HONG KONG

Address

HONG KONG

ALS Technichem (HK) Pty Ltd 11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client:

HK1326638 07/10/2013 LAM GEOTECHNICS LIMITED



Equipment Type: Brand Name: Model No.: Serial No.: Equipment No.: Date of Calibration:	Multimeter YSI Professional plus 11F100420 07 October, 2013	Date of next Calibration:	07 January, 2014
Parameters:			
Dissolved Oxygen	Method Ref: APHA (21st edition Expected Reading (mg/L)	on), 45000: G Displayed Reading (mg/L)	Tolerance (mg/L)
	2.32 4.36 6.30	2.33 4.32 6.29	0.01 -0.04 -0.01
		Tolerance Limit (±mg/L)	0.20
pH Value	Method Ref: APHA (21st edition Expected Reading (pH Unit) 4.0 7.0 10.0	on), 4500H:B Displayed Reading (pH Unit) 4.17 7.19 9.96	Tolerance (pH unit) 0.17 0.19 -0.04
		Tolerance Limit (±pH unit)	0.20
Salinity	Method Ref: APHA (21st edition		
	Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
	0 10 20 30	0.03 9.94 19.49 29.55	-0.6 -2.6 -1.5
		Tolerance Limit (±%)	10.0
Temperature	Guide No. 3 Second edition M	rnational Accreditation New Zeala larch 2008: Working Thermometer	r Calibration Procedure.

Guide No. 5 Second Edition March 2000. Working Thermometer Cambration Procedures			
Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)	
10.0 24.0 41.0	9.8 23.1 40.4	-0.2 -0.9 -0.6	
	Tolerance Limit (±°C)	2.0	

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

Mr. Fung Lim Chee, Richard General Manager Greater China & Hong Kong Page 2 of 2

ALS Technichem (HK) Pty Ltd ALS Environmental



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR DEREK LO CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG ---

WORK ORDER:	HK1323779
LABORATORY:	HONG KONG
DATE RECEIVED:	02/09/2013
DATE OF ISSUE:	17/09/2013

PROJECT:

COMMENTS

It is certified that the item under calibration/checking 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 aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	13A100242
Equipment No.:	
Date of Calibration:	07 September, 2013

NOTES

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ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd 11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

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Mr. Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client:

HK1323779 17/09/2013 LAM GEOTECHNICS LIMITED



0.20

Equipment Type: Brand Name:	Multimeter YSI		
Model No.:	Professional plus		
Serial No.:	13A100242		
Equipment No.:			
Date of Calibration:	07 September, 2013	Date of next Calibration:	07 December, 2013

Parameters:

pH Value

Method Ref: APHA (21st edition	on), 4500H:B	
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0 7.0 10.0	4.04 7.14 10.14	0.04 0.14 0.14

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)	
0	0.00		
10	10.22	2.2	
20	20.80	4.0	
30	30.55	1.8	
	Tolerance Limit (±%)	10.0	

Tolerance Limit (±pH unit)

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.				
Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)		
9.5 24.0 38.0	10.1 23.0 37.1	0.6 -1.0 -0.9		
	Tolerance Limit (±°C)	2.0		

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

Mr. Fung Lim Chee, Richard PP General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd **ALS Environmental**

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client: HK1323779 17/09/2013 LAM GEOTECHNICS LIMITED



0.20

Equipment Type: Brand Name:	Multimeter YSI		
Model No.:	Professional plus		
Serial No.:	13A100242		
Equipment No.:			
Date of Calibration:	07 September, 2013	Date of next Calibration:	07 December, 2013

Parameters:

Dissolved Oxygen

1st time

Expected Reading (mg/L) Displayed Reading (mg/L) Tolerance (mg/L) 5.26 4.54 -0.72 6.20 5.90 -0.30 8.28 8.01 -0.27

Method Ref: APHA (21st edition), 4500O: G

Method Ref: APHA (21st edition), 45000: G

2nd time

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.45	3.43	-1.02
6.62	6.39	-0.23
8.31	8.45	0.14
	Tolerance Limit (±mg/L)	0.20

Tolerance Limit (±mg/L)

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

Mr. Fung Lim Chee, Richard General Manager -Greater China & Hong Kong



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR DEREK LO CLIENT: LAM GEOTECHNICS LIMITED ADDRESS: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG PROJECT: --

WORK ORDER:	HK1327060
LABORATORY:	HONG KONG
DATE RECEIVED:	03/10/2013
DATE OF ISSUE:	08/10/2013

COMMENTS

It is certified that the item under calibration/checking 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 aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen
Equipment Type:	Multimeter
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	13A100242
Equipment No.:	
Date of Calibration:	08 October, 2013

NOTES

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ISSUING LABORATORY: HONG KONG

Address

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: Client:

HK1327060 08/10/2013 LAM GEOTECHNICS LIMITED



Equipment Type:
Brand Name:
Model No.:
Serial No.:
Equipment No.:
Date of Calibration:

Multimeter YSI Professional plus 13A100242 --08 October, 2013

Date of next Calibration:

08 January, 2014

Parameters:

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
		÷
7.85	7.68	-0.17
5.82	5.67	-0.15
3.24	3.18	-0.06
	Tolerance Limit (±mg/L)	0.20

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

Mr. Fung Lim Chee, Richard General Manager Greater China & Hong Kong





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AIR POLLUTION MONITORING EQUIPMENT ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A									
Date - Jul 15, 2013 Rootsmeter S/N 0438320 Ta (K) - 300 Operator Tisch Orifice I.D 0005 Pa (mm) - 759.46									
======= PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)			
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3910 0.9830 0.8800 0.8380 0.6930	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00			

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9884 0.9843 0.9822 0.9811 0.9760	0.7106 1.0013 1.1161 1.1708 1.4084	1.4090 1.9926 2.2278 2.3365 2.8180	0.9958 0.9916 0.9895 0.9884 0.9832	0.7159 1.0087 1.1244 1.1795 1.4188	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slor intercept coefficie	: (b) = ent (r) =	2.01968 -0.02746 0.99999 Pa/760) (298/5	 Qa slope intercept coefficie	z (b) =	1.26469 -0.01732 0.99999

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМА5а	Calbration Date	:	16-Sep-13
Equipment no.	:	EL380	Calbration Due Dat	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		304		Kelvin	Pressure, P	а		1008 mmHg	
	Orifice Transfer Standard Information								
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c -0.02746	
Last Calibration Date		15-Jul-1	3		(HxI	P _a / 10 ⁻	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		15-Jul-1	4		=	m _c x	$Q_{std} + b_{c}$		
Calibration of RSP									
Calibration	Mar	nometer R	eading	C) _{std}	Contin	uous Flow	IC	
Point	Н (inches of	water)	(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-axis	
1	6.1	6.1	12.2	1.1	7214		61	60.2369	
2	5.1	5.1	10.2	1.5	5751		53	52.3370	
3	4.1	4.1	8.2	1.4	4137		45	44.4370	
4	2.4	2.4	4.8	1.0	0848		30	29.6247	
5	1.5	1.5	3.0	0.8	8605		20	19.7498	
By Linear Regression of	Y on X								
Slope, m = 46.64				426	Int	ercept, b	= -2	20.8083	
Correlation Co	Correlation Coefficient* = 0.9994								
Calibration	Accepted	=	Yes/	\o **					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appro	priate.				
Remarks :					
Calibrated by	:	Sam	Checked by	:	Derek Lo
Date	:	16-Sep-13	Date	:	16-Sep-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	:	16-Sep-13
Equipment no.	:	EL390	Calbration Due Dat	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		304		Kelvin	Pressure, P	a		1008	mmHg
	Orifice Transfer Standard Information								
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c -0.02	2746
Last Calibration Date		15-Jul-1:	3		(HxH	P _a / 101	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		15-Jul-14	4		=	m _c x	$Q_{std} + b_c$:	
Calibration of RSP									
Calibration	Mar	nometer R	eading	C	l _{std}	Continu	uous Flow	IC	
Point	Н (inches of v	water)	(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298	3/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-axi	is
1	6.2	6.2	12.4	1.	7353		62	61.22	44
2	5.1	5.1	10.2	1.	5751		52	51.34	95
3	4.1	4.1	8.2	1.	4137		44	43.44	95
4	2.5	2.5	5.0	1.	1069		29	28.63	72
5	1.6	1.6	3.2	0.	3882		17	16.78	73
By Linear Regression of	Y on X								
Slope, m = 51.4211 Intercept, b = -28.8125					_				
Correlation Co	pefficient*	=	0.99	993					
Calibration Accepted = Yes/Ne**									

* if Correlation Coefficient < 0.990, check and recalibration again.

**	Delete	as	appropriate.
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Calibrated by	:	Sam	Checked by	Derek Lo
Date	:	16-Sep-13	Date :	16-Sep-13

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Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	:	16-Sep-13
Equipment no.	:	EL449	Calbration Due Dat	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		304		Kelvin	Pressure, P	a		1008	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c -0.02	?746
Last Calibration Date		15-Jul-1	3		(HxH	P _a / 101	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date	15-Jul-14				=	m _c x	$Q_{std} + b_{c}$:	
	Calibration of RSP								
Calibration	Manometer Reading			G	l _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$	
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-axi	s
1	6.1	6.1	12.2	1.	7214		58	57.274	44
2	5.1	5.1	10.2	1.	5751		50	49.374	45
3	4.2	4.2	8.4	1.4	4307		43	42.462	21
4	2.5	2.5	5.0	1.1	1069		28	27.649	97
5	1.4	1.4	2.8	0.8	3317		16	15.799	98
By Linear Regression of	Y on X								
	Slope, m	=	46.3	065	Inte	ercept, b	=	23.2217	_
Correlation Coefficient* = 0.99			0.99	993					
Calibration	Accepted	=	Yes/	No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appro	priate.				
Remarks :					
Calibrated by	:	Sam	Checked by	:	Derek Lo
Date	:	16-Sep-13	Date	:	16-Sep-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date :	16-Sep-13
Equipment no.	:	EL452	Calbration Due Dat :	 16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		304		Kelvin	Pressure, P	а		1008 mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c -0.02746	
Last Calibration Date		15-Jul-1	3		(HxI	P _a / 101	3.3 x 298	$/T_{a}$) ^{1/2}	
Next Calibration Date		15-Jul-1	4		=	m _c x	$Q_{std} + b_c$		
	Calibration of RSP								
Calibration	Manometer Reading			C	Q _{std}	Continu	ious Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	rder, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$	
	(up)	(down)	(difference)	X-	axis	(C	FM)	Y-axis	
1	6.1	6.1	12.2	1.	7214		61	60.2369	
2	5.1	5.1	10.2	1.	5751		52	51.3495	
3	4.1	4.1	8.2	1	4137		45	44.4370	
4	2.5	2.5	5.0	1.	1069	:	31	30.6122	
5	1.5	1.5	3.0	0.	8605	:	20	19.7498	
By Linear Regression of	Y on X								
	Slope, m	=	46.1	726	Int	ercept, b =	=	20.3866	
Correlation Co	pefficient*	=	0.99	987					
Calibration Accepted = Yes/				\o **					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appro	priate.					
Remarks :						
Calibrated by	:	Sam	Checke	ed by	:	Derek Lo
Date	:	16-Sep-13	Date		:	16-Sep-13
Dale			<u> </u>			



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	Calbration Date	:	16-Sep-13
Equipment no.	:	EL448	Calbration Due Dat	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		304		Kelvin	Pressure, P	a		1010 mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.019	68	Intercept, b	c -0.02746	
Last Calibration Date		15-Jul-1	3		(HxI	P _a / 101	13.3 x 298	$(T_{a})^{1/2}$	
Next Calibration Date		15-Jul-14	4		=	m _c x	$Q_{std} + b_c$		
			С	alibration	of RSP				
Calibration	Manometer Reading			G	t std	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$	
	(up)	(down)	(difference)	X-	axis	(C	CFM)	Y-axis	
1	6.1	6.1	12.2	1.	7231		62	61.2851	
2	5.0	5.0	10.0	1.5	5613		53	52.3889	
3	4.0	4.0	8.0	1.:	3979		44	43.4926	
4	2.5	2.5	5.0	1.	1080		30	29.6541	
5	1.5	1.5	3.0	0.8	3613		18	17.7924	
By Linear Regression of	Y on X								
	Slope, m	=	50.1	961	Int	ercept, b	= -2	25.8531	
Correlation Co	pefficient*	=	0.99	995					
Calibration Accepted = Yes/				\o **					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.	
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Calibrated by	:	Sam	Checked by	De	erek Lo
Date	:	16-Sep-13	Date :	16-	Sep-13

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date :	19-Nov-13
Equipment no.	:	EL452	Calbration Due Dat	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition									
Temperature, T _a		294		Kelvin	Pressure, P	a		1021	mmHg	
			Orifice Tra	nsfer Stan	dard Informa	ation				
Equipment No.		EL086		Slope, m _c	2.019	2.01968 Intercept, bc -0.02746				
Last Calibration Date		15-Jul-1:	3		(Hxl	P _a / 10	13.3 x 298	/T _a) ^{1/2}	2	
Next Calibration Date	15-Jul-14				=	m _c y	$\alpha Q_{std} + b_c$			
			c	Calibration	of RSP					
Calibration	Mar	nometer R	eading	c	Q _{std} Continuous		uous Flow		IC	
Point	Н (inches of v	water)	(m ³	/ min.) Record		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.3		
	(up)	(down)	(difference)	X-	axis	((CFM)		Y-axis	
1	6.1	6.1	12.2	1.	7613		62	6	62.6571	
2	5.1	5.1	10.2	1.0	6117		53	53.561		
3	4.0	4.0	8.0	1.4	4289		43	4	3.4557	
4	2.5	2.5	5.0	1.1	1325		28	2	28.2967	
5	1.4	1.4	2.8	0.8	8509		14	1	4.1484	
By Linear Regression of	Y on X									
	Slope, m	=	52.9	089	Int	ercept, b	=	31.3758		
Correlation Co	pefficient*	=	0.99	994						
Calibration	Accepted	=	Yes/	No**						

 * if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Calibrated by	:	Henry	Checked by	Derek Lo
Date	:	19-Nov-13	Date :	 19-Nov-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date :	19-Nov-13
Equipment no.	:	EL449	Calbration Due Dat	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition											
Temperature, T _a		294		Kelvin	Kelvin Pressure, P a			1021			
	Orifice Transfer Standard Information										
Equipment No.		EL086 Slope, m _c 2.01968 Intercept, bc -0.0274						-0.02746			
Last Calibration Date		15-Jul-13	3		(Hxl	P _a / 10	13.3 x 298	/T _a) ^{1/}	2		
Next Calibration Date		15-Jul-14	4		=	m _c >	$(Q_{std} + b_c)$:			
Calibration of RSP											
Calibration	Mar	nometer R	eading	C	l _{std}	Contin	uous Flow		IC		
Point	Н (l (inches of water)		(m ³	(m ³ / min.)		Recorder, W		3.3x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis		
1	6.1	6.1	12.2	1.	7613	3 6			60.6359		
2	5.0	5.0	10.0	1.5	5959		51		51.5405		
3	4.1	4.1	8.2	1.4	4465		43		43.4557		
4	2.5	2.5	5.0	1.1	1325		27		27.2861		
5	1.4	1.4	2.8	0.8	3509		14		14.1484		
By Linear Regression of	Y on X										
	Slope, m	=	51.1	083	Int	ercept, b	= -2	29.9618			
Correlation Co	pefficient*	=	0.99	995					_		
Calibration	Accepted	=	Yes/	No**							

 * if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Calibrated by	:	Sam	Checked by :	Derek Lo
Date	: _	19-Nov-13	Date :	19-Nov-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date :	19-Nov-13
Equipment no.	:	EL390	Calbration Due Dat :	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition											
Temperature, T _a		294		Kelvin Pressure, P a				1021			
	Orifice Transfer Standard Information										
Equipment No.		EL086 Slope, mc 2.01968 Intercept, bc -0.02740						-0.02746			
Last Calibration Date		15-Jul-1	3		(HxI	P _a / 10	13.3 x 298	/T _a) ^{1/2}	·		
Next Calibration Date		15-Jul-1	4		=	m _c >	$(Q_{std} + b_c)$				
Calibration of RSP											
Calibration	Manometer Reading			G	l _{std}	Contin	uous Flow		IC		
Point	H (inches of water)		(m ³	³ / min.) Record		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)				
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axis		
1	6.1	6.1	12.2	1.	7613		62	6	62.6571		
2	5.1	5.1	10.2	1.0	6117		52	Ę	52.5511		
3	4.0	4.0	8.0	1.4	4289		42	2	42.4451		
4	2.5	2.5	5.0	1.1	1325		26	2	26.2755		
5	1.5	1.5	3.0	0.8	3803		13	Ŷ	13.1378		
By Linear Regression of	Y on X										
	Slope, m	=	55.6	501	Int	ercept, b	=	36.4335			
Correlation Co	pefficient*	=	0.99	992							
Calibration Accepted =				No**							

 * if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Calibrated by	:	Henry	Checked by	 Derek Lo
Date	: _	19-Nov-13	Date :	 19-Nov-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	Calbration Date :	19-Nov-13
Equipment no.	:	EL380	Calbration Due Dat :	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		294		Kelvin	Pressure, P	a		1021	mmHg	
Orifice Transfer Standard Information										
Equipment No.		EL086 Slope, m _c 2.01968 Intercept, bc -0.0274							-0.02746	
Last Calibration Date		15-Jul-1	3		(Hx	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$	2	
Next Calibration Date		15-Jul-1	4		=	m _c x	$Q_{std} + b_c$:		
Calibration of RSP										
Calibration	Manometer Reading			C	Q _{std}	Contin	uous Flow		IC	
Point	H (inches of water)		(m ³	/ min.)	in.) Record		(W(P _a /1013	8.3x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	x-	axis	(CFM)		Y-axis	
1	6.2	6.2	12.4	1.	7756		61	61.6465		
2	5.1	5.1	10.2	1.	6117		52	ť	52.5511	
3	4.1	4.1	8.2	1.	4465		44	4	14.4663	
4	2.4	2.4	4.8	1.	1099		28	2	28.2967	
5	1.5	1.5	3.0	0.	8803		18		18.1908	
By Linear Regression of	Y on X									
	Slope, m	=	48.3	214	Int	ercept, b	= -2	24.9174		
Correlation Co	oefficient*	=	0.99	994						
Calibration	Calibration Accepted = Yes									

 * if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Calibrated by	:	Henry	Checked by		Derek Lo
Date	: _	19-Nov-13	Date :	_	19-Nov-13



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	Calbration Date :	19-Nov-13
Equipment no.	:	EL448	Calbration Due Dat	19-Jan-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition											
Temperature, T _a		294		Kelvin	Pressure, P	a		1021	mmHg		
	Orifice Transfer Standard Information										
Equipment No.		EL086 Slope, mc 2.01968 Intercept, bc -0.0274						-0.02746			
Last Calibration Date		15-Jul-13	3		(Hxl	P _a / 10	13.3 x 298	/T _a) ^{1/}	2		
Next Calibration Date		15-Jul-14	4		=	m _c >	$(Q_{std} + b_c)$	•			
Calibration of RSP											
Calibration	Mar	nometer R	eading	G	l _{std}	Contin	uous Flow		IC		
Point	Н (inches of v	water)	r) (m ³ / min.)		Recorder, W		(W(P _a /1013.3x298/T _a) ^{1/2} /35.3			
	(up)	(down)	(difference)	X-	axis	(CFM)			Y-axis		
1	6.1	6.1	12.2	1.	7613		60		60.6359		
2	5.0	5.0	10.0	1.5	5959		51		51.5405		
3	4.0	4.0	8.0	1.4	4289		43		43.4557		
4	2.4	2.4	4.8	1.1	1099		28		28.2967		
5	1.5	1.5	3.0	0.8	3803		17		17.1802		
By Linear Regression of	Y on X										
	Slope, m	=	48.8	703	Int	ercept, b	= -2	26.0098			
Correlation Co	pefficient*	=	0.99	997							
Calibration Accepted = Y				No**							
			,								

 * if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Calibrated by	:	Henry	Checked by	 Derek Lo
Date	: _	19-Nov-13	Date :	 19-Nov-13





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)

					Novembe					
Sunday	Monday		Tuesday		Wednesday		Thursday	Friday	Saturday	
27-Oc	t	28-Oct		29-Oct		30-Oct	31-Oc	t 1-No	v	2-Nov
	24hr TSP		1hr TSP (with CRIII)						24hr TSP	
	Noise (Daytime) (M2b)		Noise (Daytime)							
	Impact WQM Mid-ebb	6:48	(M1a,M3a,M4b,M5, M6)		Impact WQM Mid-ebb	8:55		Impact WQM Mid-ebb 10:3	7	
	Mid-flood	14:49			Mid-flood	15:47		Mid-flood 16:3		
3-No	v	4-Nov		5-Nov		6-Nov	7-Nov	/ 8-No	v	9-Nov
	1hr TSP (with CRIII)							24hr TSP	1hr TSP (with CRIII)	
			Noise (Daytime) (M1a,M2b,M3a,M4b,M5b,M6)		Noise (Daytime)					
	Impact WQM Mid-ebb	12:45			Impact WQM Mid-flood	8:35		Impact WQM Mid-ebb 3:1	3	
	Mid-flood	18:20			Mid-ebb	14:14		Mid-flood 10:3		
10-No	<i></i>	11-Nov		12-Nov		13-Nov	14-Nov	/ 15-No	v	16-Nov
	Noise (Daytime)		Noise (Daytime)				24hr TSP	24hr TSP (CMA5a) 1hr TSP		
	Impact WQM		(M1a,M2b,M3a,M4b,M5b,M6)		Impact WQM			Impact WQM		
	Mid-ebb	6:37			Mid-ebb	8:53		Mid-ebb 10:3		
17-No	Mid-flood	13:52 18-Nov		19-Nov	Mid-flood	15:28 20-Nov	21-Nov	Mid-flood 16:4		23-Nov
					24hr TSP		1hr TSP			
	Noise (Daytime) (M2b,M3a)				Noise (Daytime) (M1a,M4b,M5,M6)					
			Impact WQM	0.57	(10112,10140,1013,1010)		Impact WQM		Impact WQM Mid-ebb	0.40
			Mid-ebb Mid-flood	0:57 7:45			Mid-ebb 2:01 Mid-flood 9:04		Mid-flood	2:40 10:43
24-No	·	25-Nov		26-Nov		27-Nov				
			24hr TSP		1hr TSP					
	Noise (Daytime)		Noise (Daytime)		1111 154					
	(M1a) 41	582	(M2b,M3a,M4b,M5b,M6)							
	Impact WQM		Impact WQM							
	Mid-flood	12:38	Mid-ebb	4:58						

Environmental Monitoring Schedule

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 December 2013

0		Mandara		Turnela	-		cember 2			E-14-		0	
Sunday		Monday		Tuesday	/	Wednesd	lay	Thursda		Frida		Saturda	y 30-No
									28-Nov		29-Nov	r	30-IN
								Impact WQM				Impact WQM	
								Mid-ebb	8:01			Mid-ebb	10:0
								Mid-flood	14:38			Mid-flood	
								MID-TIOOD					15:5
	1-Dec		2-Dec		3-Dec		4-Dec		5-Dec		6-Dec		7-D6
		24hr TSP										24hr TSP	
				1hr TSP									
		Noise (Daytime)		Noise (Daytime)									
		Noise (Dayante)		Noise (Dayanie)									
		Impact WQM				Impact WQM						Impact WQM	
		Mid-flood	17:08			Mid-ebb	13:17					Mid-ebb	3:0
		Mid-ebb	23:52			Mid-flood	18:35					Mid-flood	10:1
	8-Dec		9-Dec		10-Dec		11-Dec		12-Dec		13-Dec		14-De
										24hr TSP			
		1hr TSP								2411 101		1hr TSP	
		Inf ISP										Inr ISP	
				Noise (Daytime)		Noise (Daytime)							
		Impact WQM				Impact WQM				Impact WQM			
		Mid-ebb	4:48			Mid-flood	13:54			Mid-flood	15:24		
		Mid-flood	12:06			Mid-ebb	20:34			Mid-ebb	22:20		
1	15-Dec		16-Dec		17-Dec		18-Dec		19-Dec		20-Dec		21-De
								24hr TSP					
										1hr TSP			
		Noise (Daytime)		Noise (Daytime)									
		Impact WQM		Impact WQM		Impact WQM		Impact WQM				Impact WQM	
		inpuot ir am		impuot main		impact main		impuot fram				Mid-ebb	2:0
		Mid-flood	17.00	Mid akk	0.10	Mid flood	10.00	Mid abb	4.4.4				
		MIG-TIOOD		Mid-ebb		Mid-flood	18:08	Mid-ebb	1:14			Mid-flood	9:1
2	22-Dec		23-Dec		24-Dec		25-Dec		26-Dec		27-Dec		
		24hr TSP											
				1hr TSP									
		Noise (Doutime)											
		Noise (Daytime)		Noise (Daytime)									
				Impact WQM				Impact WQM					
				Mid-ebb	3:29			Mid-ebb	4:54				



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

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					Unit: dl	B(A), (30-min)		
29/10/2013	10:45	Fine	72.1 74.5 67.0		72	72	75	
5/11/2013	10:15	Cloudy	76.6 77.0 67.5		67.5	72	75	75
12/11/2013	09:28	Cloudy	73.2 75.5 69.5		72	66	75	
18/11/2013	10:40	Fine	72.8 75.0 67.5		72	64	75	
25/11/2013	16:39	Fine	71.7	74.0	67.0	72	72	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
			72.2 74.5 69.0		Unit: di	B(A), (30-min)		
28/10/2013	17:10	Fine	72.2 74.5 69.0		68	70	75	
5/11/2013	10:50	Cloudy	70.4 72.0 68.0		68	67	75	
12/11/2013	10:12	Cloudy	69.7	71.0	67.5	68	66	75
20/11/2013	9:30	Cloudy	69.5 71.0 67.0		68	65	75	
26/11/2013	8:15	Fine	69.0 70.5 67.0		68	63	75	

Location: M3a - Tung Lo Wan Fire Station

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					Unit: de	B(A), (30-min)		
29/10/2013	11:55	Fine	66.9 68.0 65.5		69	67	75	
5/11/2013	11:30	Cloudy	67.8 69.0 65.5		69	68	75	
12/11/2013	10:56	Cloudy	68.6	71.0	65.0	69	69	75
20/11/2013	10:15	Cloudy	67.7 69.5 65.0		69	68	75	
26/11/2013	8:50	Fine	65.4 67.0 63.0		69	65	75	

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					Unit: dl	B(A), (30min)		
29/10/2013	13:10	Fine	68.9 70.5 66.5		67	64	75	
5/11/2013	13:00	Cloudy	68.8 70.0 66.5		66.5	67	63	75
12/11/2013	13:30	Cloudy	69.4	70.5	67.0	67	65	75
18/11/2013	11:25	Fine	69.8 72.3 65.4		67	66	75	
26/11/2013	9:35	Fine	69.7 71.0 67.0		67	66	75	

Location: M5b - City Garden

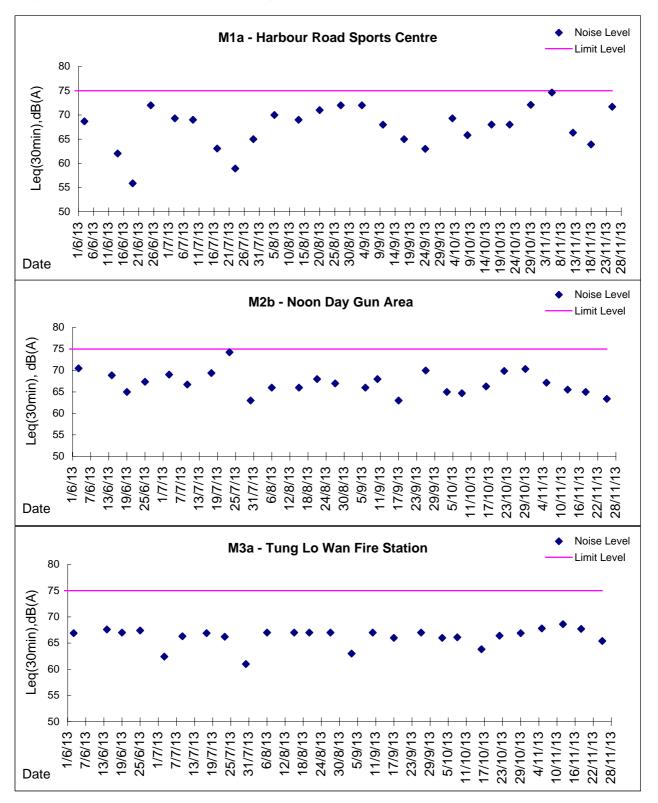
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
					Unit: d	B(A), (30min)		
29/10/2013	13:50	Fine	69.4 71.0 66.5		68	64	75	
5/11/2013	13:45	Fine	70.2 73.0 67.0		68	66	75	
12/11/2013	14:50	Cloudy	68.0	69.9	67.5	68	68	75
18/11/2013	13:00	Fine	69.9 70.5 68.0		68	65	75	
26/11/2013	10:10	Fine	67.4 68.5 65.5		68	67	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	L90	Leq	Leq	Leq
					Unit: d	B(A), (30-min)	•	
29/10/2013	14:30	Fine	72.2 73.0 70.0		71	67	70	
5/11/2013	14:30	Cloudy	75.4 76.5 73.5		71	74	70	
12/11/2013	15:50	Cloudy	71.9	73.0	70.0	71	66	70
18/11/2013	13:35	Fine	74.5 75.5 72.0		71	72	70	
26/11/2013	10:45	Fine	74.2 75.5 72.0		71	72	70	

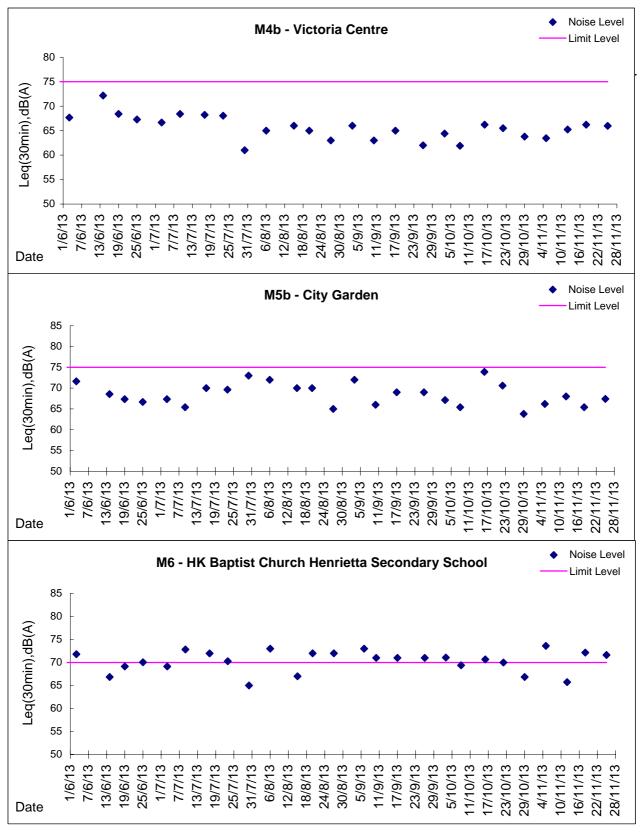


Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





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

am

Location: CMA1b - Oil Street Site Office

Report on 24-hour TSP monitoring Action Level (μ g/m3) - 176.7

Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μ g/m ³
28-Oct-13	8:00	Fine	007212	2.6220	2.8860	3624.04	3648.04	24.00	1.36	1.36	1.36	1961	135
2-Nov-13	8:00	Fine	007477	2.6537	2.9090	3651.04	3675.04	24.00	1.35	1.36	1.36	1951	131
8-Nov-13	8:00	Cloudy	005867	2.6521	2.9462	3678.04	3702.04	24.00	1.33	1.33	1.33	1920	153
14-Nov-13	8:00	Cloudy	007641	2.6336	2.7634	3705.05	3729.05	24.00	1.34	1.34	1.34	1928	67
20-Nov-13	8:00	Cloudy	006021	2.6238	2.9644	3732.05	3756.05	24.00	1.38	1.38	1.38	1989	171
26-Nov-13	8:00	Cloudy	006233	2.6529	2.8921	3759.05	3783.05	24.00	1.38	1.38	1.38	1989	120

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
29-Oct-13	8:35	Fine	007482	2.6558	2.6746	3648.04	3649.04	1.00	1.32	1.32	1.32	79	238
29-Oct-13	9:40	Fine	007478	2.6672	2.6793	3649.04	3650.04	1.00	1.32	1.32	1.32	79	153
29-Oct-13	10:45	Fine	007480	2.6464	2.6538	3650.04	3651.04	1.00	1.32	1.32	1.32	79	94
4-Nov-13	8:15	Rainy	005875	2.6643	2.6836	3675.04	3676.04	1.00	1.34	1.34	1.34	80	240
4-Nov-13	9:25	Rainy	005874	2.6457	2.6617	3676.04	3677.04	1.00	1.32	1.32	1.32	79	202
4-Nov-13	10:35	Rainy	005873	2.6648	2.6802	3677.04	3678.04	1.00	1.32	1.32	1.32	79	194
9-Nov-13	8:05	Cloudy	007635	2.6275	2.6410	3702.04	3703.04	1.00	1.31	1.31	1.31	79	172
9-Nov-13	9:08	Cloudy	007637	2.6577	2.6687	3703.04	3704.04	1.00	1.31	1.31	1.31	79	140
9-Nov-13	10:11	Cloudy	007639	2.6324	2.6425	3704.04	3705.04	1.00	1.31	1.31	1.31	79	128
15-Nov-13	8:48	Fine	006050	2.6520	2.6703	3729.05	3730.05	1.00	1.32	1.32	1.32	79	232
15-Nov-13	10:38	Fine	005791	2.8630	2.8768	3730.05	3731.05	1.00	1.32	1.32	1.32	79	175
15-Nov-13	13:00	Fine	005793	2.8391	2.8503	3731.05	3732.05	1.00	1.32	1.32	1.32	79	142
21-Nov-13	8:45	Cloudy	006466	2.7228	2.7421	3756.05	3757.05	1.00	1.36	1.36	1.36	82	236
21-Nov-13	9:50	Cloudy	006465	2.7747	2.7941	3757.05	3758.05	1.00	1.36	1.36	1.36	82	237
21-Nov-13	10:55	Cloudy	006464	2.7504	2.7683	3758.05	3759.05	1.00	1.36	1.36	1.36	82	219
27-Nov-13	8:40	Cloudy	006455	2.7314	2.7573	3783.05	3784.05	1.00	1.36	1.36	1.36	82	317
27-Nov-13	9:45	Cloudy	006454	2.7113	2.7294	3784.05	3785.05	1.00	1.36	1.36	1.36	82	221
27-Nov-13	10:50	Cloudy	006453	2.7100	2.7262	3785.05	3786.05	1.00	1.36	1.36	1.36	82	198

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 paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Oct-13	8:00	Fine	005384	2.8135	3.0633	13335.50	13359.50	24.00	1.34	1.42	1.38	1983	126
2-Nov-13	8:00	Fine	007476	2.6578	2.7907	13362.50	13386.50	24.00	1.37	1.37	1.37	1974	67
8-Nov-13	8:00	Cloudy	005869	2.6678	2.8605	13389.50	13413.50	24.00	1.33	1.41	1.37	1973	98
14-Nov-13	8:00	Cloudy	007642	2.6484	2.8108	13416.51	13440.51	24.00	1.42	1.42	1.42	2040	80
20-Nov-13	8:00	Cloudy	005794	2.8437	3.1311	13443.51	13467.51	24.00	1.42	1.42	1.42	2047	140
26-Nov-13	8:00	Cloudy	005787	2.8711	3.1742	13470.52	13494.52	24.00	1.42	1.42	1.42	2047	148

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

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
29-Oct-13	8:25	Fine	007486	2.6387	2.6567	13359.50	13360.50	1.00	1.42	1.42	1.42	85	212
29-Oct-13	9:30	Fine	007484	2.6594	2.6731	13360.50	13361.50	1.00	1.40	1.40	1.40	84	163
29-Oct-13	10:35	Fine	007483	2.6491	2.6658	13361.50	13362.50	1.00	1.42	1.42	1.42	85	196
4-Nov-13	8:25	Rainy	005872	2.6450	2.6656	13386.50	13387.50	1.00	1.42	1.42	1.42	85	242
4-Nov-13	9:35	Rainy	005871	2.6545	2.6730	13387.50	13388.50	1.00	1.40	1.40	1.40	84	221
4-Nov-13	10:45	Rainy	005870	2.6746	2.6895	13388.50	13389.50	1.00	1.42	1.42	1.42	85	175
9-Nov-13	8:10	Cloudy	007636	2.6454	2.6560	13413.50	13414.50	1.00	1.37	1.37	1.37	82	129
9-Nov-13	9:14	Cloudy	007638	2.6345	2.6430	13414.50	13415.50	1.00	1.33	1.33	1.33	80	107
9-Nov-13	10:18	Cloudy	007640	2.6314	2.6411	13415.50	13416.50	1.00	1.37	1.37	1.37	82	118
15-Nov-13	8:40	Fine	005789	2.8468	2.8612	13440.51	13441.51	1.00	1.37	1.37	1.37	82	175
15-Nov-13	10:26	Fine	005790	2.8513	2.8663	13441.51	13442.51	1.00	1.33	1.33	1.33	80	188
15-Nov-13	13:00	Fine	005792	2.8544	2.8673	13442.51	13443.51	1.00	1.37	1.37	1.37	82	156
21-Nov-13	8:35	Cloudy	006461	2.7360	2.7502	13467.52	13468.52	1.00	1.38	1.38	1.38	83	171
21-Nov-13	9:40	Cloudy	006463	2.7592	2.7735	13468.52	13469.52	1.00	1.38	1.38	1.38	83	172
21-Nov-13	10:45	Cloudy	006462	2.7661	2.7799	13469.52	13470.52	1.00	1.38	1.38	1.38	83	166
27-Nov-13	8:25	Cloudy	006452	2.6822	2.7011	13494.52	13495.52	1.00	1.38	1.38	1.38	83	228
27-Nov-13	9:53	Cloudy	006451	2.7373	2.7492	13495.52	13496.52	1.00	1.38	1.38	1.38	83	143
27-Nov-13	10:58	Cloudy	006450	2.7180	2.7292	13496.52	13497.52	1.00	1.38	1.38	1.38	83	135



Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper Filter Weight, g			Elapse Tim	Elapse Time, hr		Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Oct-13	8:00	Fine	005902	2.6358	2.8926	736.89	760.89	24.00	1.39	1.39	1.39	2001	128
2-Nov-13	8:00	Fine	007624	2.6453	2.8519	763.89	787.89	24.00	1.37	1.37	1.37	1968	105
8-Nov-13	8:00	Cloudy	005818	2.6562	2.9037	790.89	814.89	24.00	1.38	1.38	1.38	1993	124
14-Nov-13	8:00	Cloudy	006290	2.6404	2.7837	817.89	841.90	24.01	1.37	1.37	1.37	1974	73
20-Nov-13	8:00	Cloudy	005795	2.8507	3.1646	844.90	868.90	24.00	1.34	1.34	1.34	1930	163
26-Nov-13	8:00	Cloudy	005490	2.8048	3.1049	871.90	895.90	24.00	1.34	1.34	1.34	1930	156

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
29-Oct-13	10:30	Fine	004874	2.7429	2.7613	760.89	761.89	1.00	1.37	1.37	1.37	82	224
29-Oct-13	13:00	Fine	006678	2.6563	2.6701	761.89	762.89	1.00	1.39	1.39	1.39	83	166
29-Oct-13	14:30	Fine	005495	2.8236	2.8395	762.89	763.89	1.00	1.41	1.41	1.41	84	188
4-Nov-13	14:20	Rainy	005823	2.6441	2.6653	787.89	788.89	1.00	1.37	1.37	1.37	82	257
4-Nov-13	15:40	Rainy	005821	2.6415	2.6587	788.89	789.89	1.00	1.37	1.37	1.37	82	209
4-Nov-13	16:50	Rainy	005822	2.6544	2.6724	789.89	790.89	1.00	1.37	1.37	1.37	82	219
9-Nov-13	8:15	Cloudy	006294	2.6008	2.6109	814.89	815.89	1.00	1.37	1.37	1.37	82	123
9-Nov-13	9:20	Cloudy	006297	2.6256	2.6410	815.89	816.89	1.00	1.37	1.37	1.37	82	188
9-Nov-13	10:25	Cloudy	006295	2.6314	2.6459	816.89	817.89	1.00	1.37	1.37	1.37	82	177
15-Nov-13	8:05	Fine	005848	2.6272	2.6386	841.90	842.90	1.00	1.37	1.37	1.37	82	139
15-Nov-13	9:10	Fine	005855	2.6129	2.6252	842.90	843.90	1.00	1.37	1.37	1.37	82	150
15-Nov-13	10:15	Fine	005858	2.6438	2.6579	843.90	844.90	1.00	1.37	1.37	1.37	82	172
21-Nov-13	10:50	Cloudy	005929	2.6270	2.6479	868.90	869.90	1.00	1.38	1.38	1.38	83	253
21-Nov-13	13:00	Cloudy	005931	2.6424	2.6601	869.90	870.90	1.00	1.38	1.38	1.38	83	215
21-Nov-13	14:15	Cloudy	005489	2.8088	2.8246	870.90	871.90	1.00	1.34	1.34	1.34	80	197
27-Nov-13	10:40	Cloudy	006237	2.6500	2.6630	895.90	896.90	1.00	1.38	1.38	1.38	83	157
27-Nov-13	14:04	Cloudy	005989	2.6368	2.6620	896.90	897.90	1.00	1.38	1.38	1.38	83	305
27-Nov-13	15:08	Cloudy	005986	2.6247	2.6466	897.90	898.90	1.00	1.34	1.34	1.34	80	272

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level (µg/m3) -Limit Level (µg/m3) -171.2 260

Date	Sampling	Weather	Filter paper Filter Weight, g			Elapse Tim	Elapse Time, hr		Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
28-Oct-13	8:00	Fine	005898	2.6500	2.8364	17533.23	17557.23	24.00	1.31	1.31	1.31	1888	99
2-Nov-13	8:00	Fine	007625	2.6190	2.7636	17560.23	17584.23	24.00	1.31	1.31	1.31	1881	77
8-Nov-13	8:00	Cloudy	005817	2.6536	2.8692	17587.23	17611.23	24.00	1.31	1.30	1.31	1880	115
14-Nov-13	8:00	Cloudy	006292	2.6260	2.7108	17614.23	17638.23	24.00	1.24	1.23	1.23	1778	48
20-Nov-13	8:00	Cloudy	006022	2.6258	2.8874	17642.24	17666.24	24.00	1.35	1.35	1.35	1947	134
26-Nov-13	8:00	Cloudy	005491	2.8173	3.0281	17669.26	17693.26	24.00	1.28	1.28	1.28	1846	114

Report on 1-hour TSP monitoring Action Level (µg/m3) - 312. 312.5 500

Limit Level (µg/m3) -

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
29-Oct-13	10:15	Fine	004875	2.7441	2.7566	17557.23	17558.23	1.00	1.27	1.27	1.27	76	164
29-Oct-13	13:00	Fine	004873	2.7231	2.7351	17558.23	17559.23	1.00	1.29	1.29	1.29	78	155
29-Oct-13	15:00	Fine	005494	2.8213	2.8321	17559.23	17560.23	1.00	1.27	1.27	1.27	76	141
4-Nov-13	14:10	Rainy	005866	2.6620	2.6768	17584.23	17585.23	1.00	1.27	1.27	1.27	76	194
4-Nov-13	15:20	Rainy	005819	2.6492	2.6597	17585.23	17586.23	1.00	1.27	1.27	1.27	76	137
4-Nov-13	16:30	Rainy	005820	2.6627	2.6745	17586.23	17587.23	1.00	1.27	1.27	1.27	76	154
9-Nov-13	8:05	Cloudy	005400	2.8455	2.8594	17611.23	17612.23	1.00	1.23	1.23	1.23	74	188
9-Nov-13	9:10	Cloudy	006293	2.6223	2.6325	17612.23	17613.23	1.00	1.23	1.23	1.23	74	138
9-Nov-13	10:15	Cloudy	006296	2.6208	2.6303	17613.23	17614.23	1.00	1.23	1.23	1.23	74	129
15-Nov-13	8:15	Fine	005850	2.6012	2.6126	17638.23	17639.23	1.00	1.31	1.31	1.31	79	145
15-Nov-13	9:20	Fine	005856	2.6147	2.6264	17639.23	17640.23	1.00	1.31	1.31	1.31	79	149
15-Nov-13	10:25	Fine	005859	2.6150	2.6295	17641.23	17642.23	1.00	1.31	1.31	1.31	79	185
21-Nov-13	11:00	Cloudy	005928	2.6490	2.6620	17666.24	17667.24	1.00	1.32	1.32	1.32	79	165
21-Nov-13	13:00	Cloudy	005930	2.6298	2.6455	17667.24	17668.24	1.00	1.32	1.32	1.32	79	199
21-Nov-13	14:05	Cloudy	005488	2.7902	2.8036	17668.24	17669.24	1.00	1.32	1.32	1.32	79	170
27-Nov-13	9:51	Cloudy	006236	2.6496	2.6603	17693.26	17694.26	1.00	1.35	1.35	1.35	81	132
27-Nov-13	13:44	Cloudy	005987	2.6507	2.6713	17694.26	17695.26	1.00	1.35	1.35	1.35	81	254
27-Nov-13	14:55	Cloudy	005992	2.6040	2.6189	17695.26	17696.26	1.00	1.32	1.32	1.32	79	189

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level (µg/m3) -Limit Level (µg/m3) -181

260

Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time, hr		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
8:00	Fine	007441	2.6665	2.8595	18519.77	18543.77	24.00	1.32	1.31	1.32	1894	102
8:00	Fine	007214	2.6959	2.8769	18546.78	18570.78	24.00	1.31	1.31	1.31	1885	96
8:00	Cloudy	005809	2.7777	2.9580	18573.78	18597.78	24.00	1.23	1.23	1.23	1766	102
13:00	Fine	006277	2.6109	2.7415	18625.17	18649.17	24.00	1.27	1.27	1.27	1832	71
8:00	Cloudy	005828	2.6433	2.8938	18649.17	18673.17	24.00	1.36	1.36	1.36	1957	128
8:00	Cloudy	006426	2.6472	2.9018	18676.17	18700.17	24.00	1.36	1.37	1.36	1963	130
	Time 8:00 8:00 8:00 13:00 8:00	Time Condition 8:00 Fine 8:00 Fine 8:00 Cloudy 13:00 Fine 8:00 Cloudy	Time Condition no. 8:00 Fine 007441 8:00 Fine 007214 8:00 Cloudy 005809 13:00 Fine 006277 8:00 Cloudy 005828	Time Condition no. Initial 8:00 Fine 007441 2.6665 8:00 Fine 007214 2.6959 8:00 Cloudy 005809 2.7777 13:00 Fine 006277 2.6109 8:00 Cloudy 005828 2.6433	Time Condition no. Initial Final 8:00 Fine 007441 2.6665 2.8595 8:00 Fine 007214 2.6959 2.8769 8:00 Cloudy 005809 2.7777 2.9580 13:00 Fine 006277 2.6109 2.7415 8:00 Cloudy 005828 2.6433 2.8938	Time Condition no. Initial Final Initial 8:00 Fine 007441 2.6665 2.8595 18519.77 8:00 Fine 007214 2.6959 2.8769 18546.78 8:00 Cloudy 005809 2.7777 2.9580 18573.78 13:00 Fine 006277 2.6109 2.7415 18625.17 8:00 Cloudy 005828 2.6433 2.8938 18649.17	No. Initial Final Initial Final 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 8:00 Cloudy 005828 2.6433 2.8938 18649.17 18673.17	no. Initial Final Initial Final Time, hr 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 24.00 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 24.00 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 24.00 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 24.00 8:00 Cloudy 005828 2.6433 2.8938 18649.17 24.00	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 24.00 1.32 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 24.00 1.31 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 24.00 1.23 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 24.00 1.27 8:00 Cloudy 005828 2.6433 2.8938 18649.17 18673.17 24.00 1.36	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 24.00 1.32 1.31 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 24.00 1.31 1.31 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 24.00 1.23 1.23 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 24.00 1.27 1.27 8:00 Cloudy 005828 2.6433 2.8938 18649.17 18673.17 24.00 1.36 1.36	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} Average 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 24.00 1.32 1.31 1.32 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 24.00 1.31 1.31 1.31 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 24.00 1.23 1.23 1.23 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 24.00 1.27 1.27 1.27 8:00 Cloudy 005828 2.6433 2.8938 18649.17 18673.17 24.00 1.36 1.36 1.36	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} Average Volume, m ³ 8:00 Fine 007441 2.6665 2.8595 18519.77 18543.77 24.00 1.32 1.31 1.32 1894 8:00 Fine 007214 2.6959 2.8769 18546.78 18570.78 24.00 1.31 1.31 1.31 1885 8:00 Cloudy 005809 2.7777 2.9580 18573.78 18597.78 24.00 1.23 1.23 1.23 1766 13:00 Fine 006277 2.6109 2.7415 18625.17 18649.17 24.00 1.23 1.27 1.27 1832 8:00 Cloudy 005828 2.6433 2.8938 18649.17 18673.17 24.00 1.36 1.36 1.36 1957

*Due to electricity interruption, the 24hr TSP monitoring on 14 Nov 2013 was rescheduled to 15 Nov 2013.

Report on 1-hour TSP monitoring

Action Level (µg/m3) -332

Limit Level (µg/m3) -500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
29-Oct-13	9:45	Fine	005394	2.8411	2.8562	18543.77	18544.77	1.00	1.27	1.27	1.27	76	198
29-Oct-13	10:50	Fine	005429	2.8080	2.8168	18544.77	18545.77	1.00	1.31	1.31	1.31	79	112
29-Oct-13	13:55	Fine	006534	2.6533	2.6643	18545.77	18546.77	1.00	1.27	1.27	1.27	76	144
4-Nov-13	8:20	Rainy	007434	2.6667	2.6708	18570.78	18571.78	1.00	1.23	1.23	1.23	74	55
4-Nov-13	9:25	Rainy	005810	2.7866	2.8021	18571.78	18572.78	1.00	1.19	1.19	1.19	71	217
4-Nov-13	10:40	Rainy	005811	2.7712	2.7844	18572.78	18573.78	1.00	1.23	1.23	1.23	74	178
9-Nov-13	8:51	Cloudy	006258	2.6347	2.6453	18597.78	18598.78	1.00	1.27	1.27	1.27	76	139
9-Nov-13	9:54	Cloudy	006261	2.6255	2.6334	18598.78	18599.78	1.00	1.23	1.23	1.23	74	107
9-Nov-13	10:58	Cloudy	006264	2.6222	2.6318	18599.78	18600.78	1.00	1.23	1.23	1.23	74	131
15-Nov-13	8:25	Fine	005824	2.6466	2.6582	18622.17	18623.17	1.00	1.27	1.27	1.27	76	152
15-Nov-13	9:30	Fine	006280	2.6168	2.6244	18623.17	18624.17	1.00	1.31	1.31	1.31	79	96
15-Nov-13	10:40	Fine	006278	2.6287	2.6374	18624.17	18625.17	1.00	1.31	1.31	1.31	79	110
21-Nov-13	9:11	Cloudy	006253	2.6310	2.6409	18673.17	18674.17	1.00	1.32	1.32	1.32	79	125
21-Nov-13	11:00	Cloudy	006255	2.6332	2.6440	18674.17	18675.17	1.00	1.36	1.36	1.36	81	133
21-Nov-13	13:38	Cloudy	006256	2.6159	2.6264	18675.17	18676.17	1.00	1.36	1.36	1.36	81	129
27-Nov-13	8:30	Cloudy	007628	2.6317	2.6428	18700.17	18701.17	1.00	1.36	1.36	1.36	82	136
27-Nov-13	9:35	Cloudy	007629	2.6266	2.6371	18701.17	18702.17	1.00	1.36	1.36	1.36	82	129
27-Nov-13	10:40	Cloudy	007631	2.6218	2.6336	18702.17	18703.17	1.00	1.36	1.36	1.36	82	145

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level -		µg/m3	
Limit Level -	260	µg/m3	

Sampling	Weather	Filter paper				Elapse Time, hr		Flow Rate, m ³ /min			Total	TSP Level,
Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
8:00	Fine	007432	2.6735	2.8858	16821.78	16845.78	24.00	1.36	1.36	1.36	1960	108
8:00	Fine	007213	2.6115	2.7837	16848.77	16872.77	24.00	1.32	1.32	1.32	1897	91
8:00	Cloudy	007437	2.6716	2.8496	16875.77	16899.77	24.00	1.24	1.24	1.24	1786	100
8:00	Cloudy	006266	2.6474	2.7913	16902.78	16926.78	24.00	1.30	1.30	1.30	1875	77
8:00	Cloudy	006275	2.6275	2.8449	16929.78	16953.78	24.00	1.33	1.33	1.33	1910	114
13:00	Cloudy	007634	2.6348	2.8562	16981.52	17005.52	24.00	1.33	1.33	1.33	1910	116
	Time 8:00 8:00 8:00 8:00 8:00	Time Condition 8:00 Fine 8:00 Fine 8:00 Cloudy 8:00 Cloudy 8:00 Cloudy 8:00 Cloudy 8:00 Cloudy	Time Condition no. 8:00 Fine 007432 8:00 Fine 007213 8:00 Cloudy 007437 8:00 Cloudy 006266 8:00 Cloudy 006275	Time Condition no. Initial 8:00 Fine 007432 2.6735 8:00 Fine 007213 2.6115 8:00 Cloudy 007437 2.6716 8:00 Cloudy 0072437 2.6716 8:00 Cloudy 006266 2.6474 8:00 Cloudy 006275 2.6275	Time Condition no. Initial Final 8:00 Fine 007432 2.6735 2.8858 8:00 Fine 007213 2.6115 2.7837 8:00 Cloudy 007437 2.6716 2.8496 8:00 Cloudy 006266 2.6474 2.7913 8:00 Cloudy 006275 2.6275 2.8449	Time Condition no. Initial Final Initial 8:00 Fine 007432 2.6735 2.8858 16821.78 8:00 Fine 007213 2.6115 2.7837 16848.77 8:00 Cloudy 007437 2.6716 2.8496 16875.77 8:00 Cloudy 006266 2.6474 2.7913 16902.78 8:00 Cloudy 006275 2.6275 2.8449 16929.78	Time Condition no. Initial Final Initial Final 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 8:00 Cloudy 006275 2.6275 2.8449 16929.78 16953.78	Time Condition no. Initial Final Initial Final Initial Final Time, hr 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 24.00 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 24.00 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 24.00 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 24.00 8:00 Cloudy 006275 2.6275 2.8449 16929.78 16953.78 24.00	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 24.00 1.36 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 24.00 1.32 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 24.00 1.24 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 24.00 1.30 8:00 Cloudy 006275 2.6275 2.8449 16929.78 16953.78 24.00 1.33	Time Condition no. Initial Final Initial Final Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 24.00 1.36 1.36 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 24.00 1.32 1.32 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 24.00 1.24 1.24 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 24.00 1.30 1.30 8:00 Cloudy 0062675 2.6275 2.8449 16929.78 16953.78 24.00 1.33 1.33	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} Average 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 24.00 1.36 1.36 1.36 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 24.00 1.32 1.32 1.32 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 24.00 1.24 1.24 1.24 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 24.00 1.30 1.30 1.30 8:00 Cloudy 006265 2.6275 2.8449 16929.78 16953.78 24.00 1.33 1.33 1.33	Time Condition no. Initial Final Initial Final Time, hr Initial, Q _{si} Final, Q _{sf} Average Volume, m ³ 8:00 Fine 007432 2.6735 2.8858 16821.78 16845.78 24.00 1.36 1.36 1.36 1960 8:00 Fine 007213 2.6115 2.7837 16848.77 16872.77 24.00 1.32 1.32 1.32 1897 8:00 Cloudy 007437 2.6716 2.8496 16875.77 16899.77 24.00 1.24 1.24 1.24 1786 8:00 Cloudy 006266 2.6474 2.7913 16902.78 16926.78 24.00 1.30 1.30 1.30 1875 8:00 Cloudy 006266 2.6474 2.7913 16923.78 24.00 1.33 1.33 1.33 1910

*Due to electricity interruption, the 24hr TSP monitoring on 26 Nov 2013 was rescheduled to 27 Nov 2013.

Report on 1-hour TSP monitoring

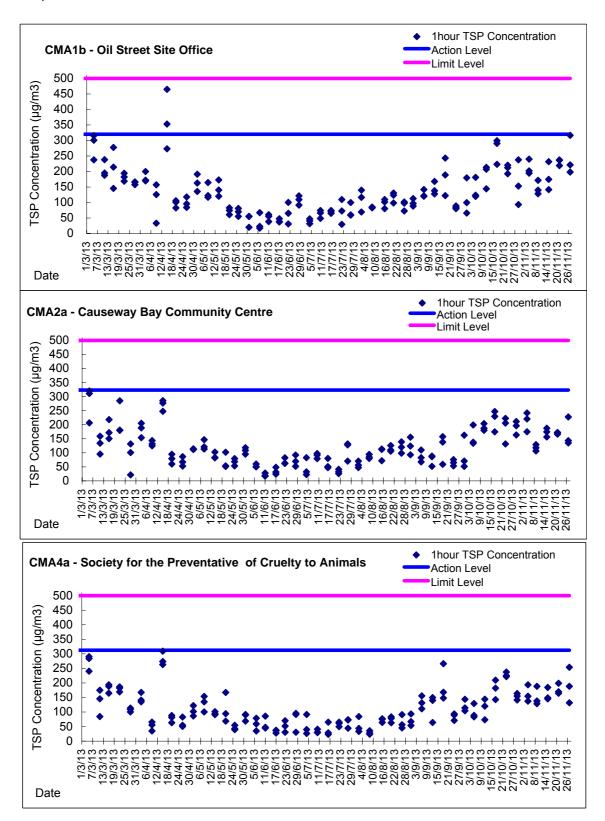
Action Level - 300.1 μ g/m³

Limit Level - 500 $\mu\,{\rm g/m3}$

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
29-Oct-13	9:30	Fine	005393	2.8460	2.8659	16845.78	16846.78	1.00	1.32	1.32	1.32	79	251
29-Oct-13	10:35	Fine	005427	2.8237	2.8313	16846.78	16847.78	1.00	1.36	1.36	1.36	82	93
29-Oct-13	13:40	Fine	006535	2.6427	2.6542	16847.78	16848.78	1.00	1.32	1.32	1.32	79	145
4-Nov-13	8:10	Rainy	005812	2.7816	2.7933	16872.77	16873.77	1.00	1.28	1.28	1.28	77	152
4-Nov-13	9:15	Rainy	007435	2.6780	2.6831	16873.77	16874.77	1.00	1.28	1.28	1.28	77	66
4-Nov-13	10:20	Rainy	007438	2.6488	2.6529	16874.77	16875.77	1.00	1.32	1.32	1.32	79	52
9-Nov-13	8:38	Cloudy	006257	2.6161	2.6273	16899.77	16900.77	1.00	1.28	1.28	1.28	77	146
9-Nov-13	9:43	Cloudy	006260	2.6138	2.6223	16900.77	16901.77	1.00	1.28	1.28	1.28	77	111
9-Nov-13	10:50	Cloudy	006263	2.6180	2.6266	16901.77	16902.77	1.00	1.28	1.28	1.28	77	112
15-Nov-13	8:15	Fine	007436	2.6627	2.6746	16926.78	16927.78	1.00	1.28	1.28	1.28	77	155
15-Nov-13	9:20	Fine	006279	2.6376	2.6481	16927.78	16928.78	1.00	1.28	1.28	1.28	77	136
15-Nov-13	10:25	Fine	006276	2.6161	2.6258	16928.78	16929.78	1.00	1.28	1.28	1.28	77	126
21-Nov-13	9:00	Cloudy	006252	2.6380	2.6510	16953.78	16954.78	1.00	1.33	1.33	1.33	80	163
21-Nov-13	11:00	Cloudy	006254	2.6489	2.6598	16954.78	16955.78	1.00	1.37	1.37	1.37	82	133
21-Nov-13	13:47	Cloudy	006244	2.5978	2.6065	16955.78	16956.78	1.00	1.33	1.33	1.33	80	109
27-Nov-13	8:45	Cloudy	005976	2.6488	2.6695	16979.52	16980.52	1.00	1.33	1.33	1.33	80	260
27-Nov-13	9:50	Cloudy	007630	2.6323	2.6416	16980.52	16981.52	1.00	1.33	1.33	1.33	80	117
27-Nov-13	10:55	Cloudy	007632	2.6292	2.6395	16981.52	16982.52	1.00	1.33	1.33	1.33	80	129

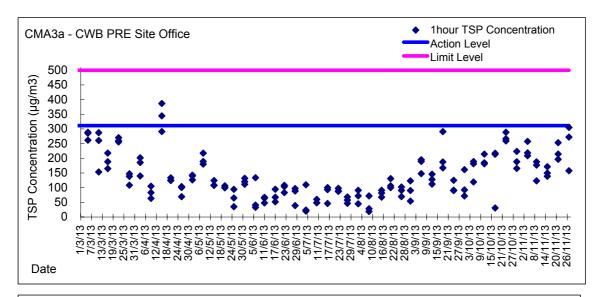


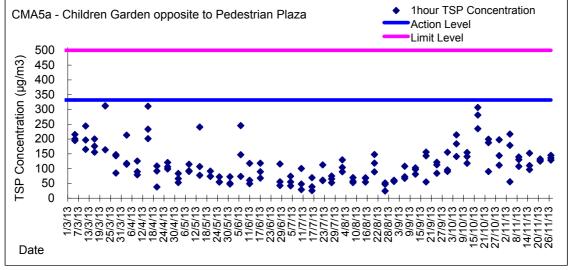
Graphic Presentation of 1 hour TSP Result

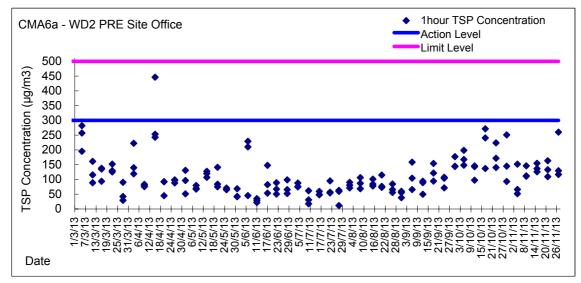




Graphic Presentation of 1 hour TSP Result

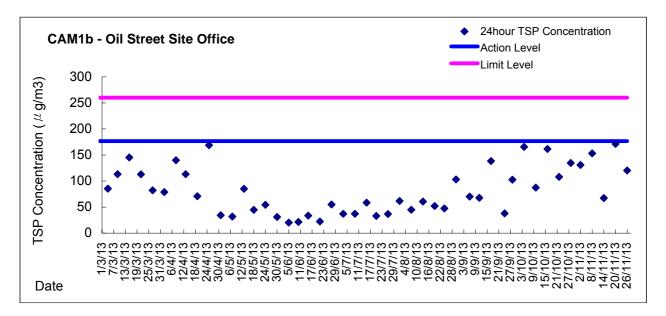


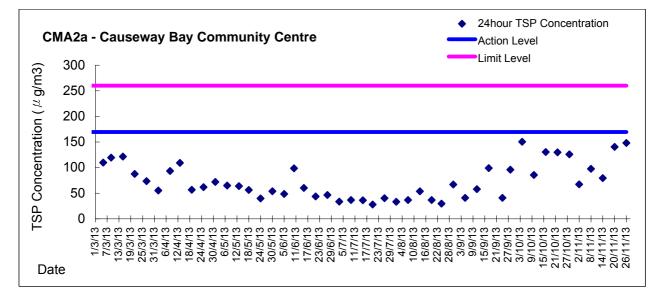


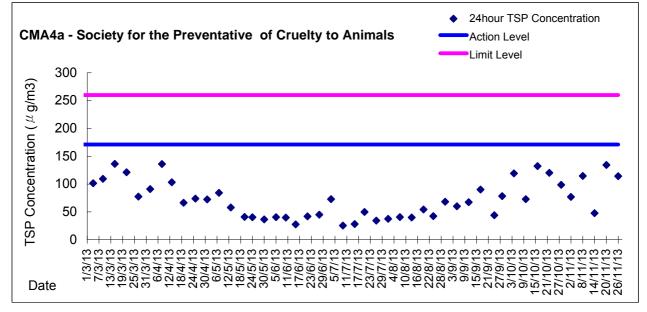




Graphic Presentation of 24 hour TSP Result

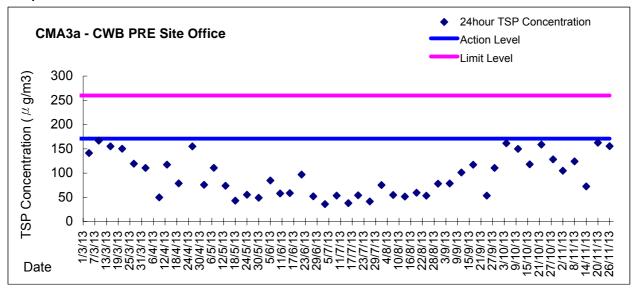


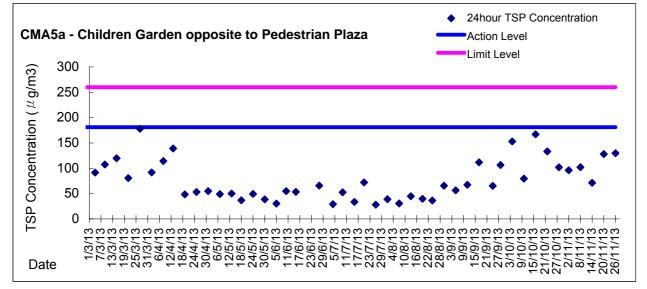


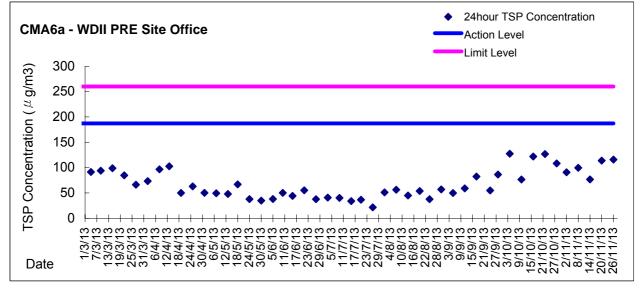




Graphic Presentation of 24 hour TSP Result









Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

Water Monitoring Result at WSD9 - Tai Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur %	ation		DO ma/L			Turbic NTL		Suspend	ed Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
00/40/0040	11:15	Fire	Middle	3.0	24.66	24.66	04.57	7.51	7.51	7.50	33.08	33.08	00.40	84.4	83.8	00.7	5.83	5.79	5 70	6.31	6.33	0.00	4	1.00
28/10/2013	11:17	Fine	Middle	3.0	24.47	24.47	24.57	7.60	7.60	7.56	33.16	33.16	33.12	83.6	83.1	83.7	5.77	5.74	5.78	6.34	6.34	6.33	4	4.00
30/10/2013	16:50	Fine	Middle	3.0	25.33	25.33	25.33	7.65	7.65	7.65	33.49	33.49	33.49	100.6	100.3	100.2	6.83	6.81	6.80	8.75	8.72	<u>8.73</u>	10	10.00
30/10/2013	16:52	Fille	Middle	3.0	25.33	25.33	20.00	7.65	7.65	7.05	33.49	33.49	55.49	100.0	99.7	100.2	6.79	6.77	0.00	8.73	8.71	<u>0.73</u>	10	10.00
1/11/2013	18:15	Fine	Middle	3.5	25.55	25.55	25.55	7.68	7.68	7.68	33.49	33.49	33.49	90.7	90.3	90.0	6.13	6.10	6.08	5.32	5.30	5.29	8	9.00
1/11/2010	18:17	1 110	Middle	3.5	25.55	25.55	20.00	7.67	7.67	1.00	33.49	33.49	00.40	89.8	89.2	00.0	6.07	6.03	0.00	5.30	5.22	0.20	10	0.00
4/11/2013	17:54	Cloudy	Middle	2.5	24.50	24.50	24.50	8.21	8.21	8.21	32.39	32.36	32.40	82.8	83.7	82.9	5.72	5.80	5.75	6.52	6.54	6.56	7	7.50
	17:55	Cloudy	Middle	2.5	24.50	24.50	24.00	8.21	8.21	0.21	32.43	32.40	02.40	83.0	82.1	02.0	5.79	5.69	0.70	6.57	6.59	0.00	8	1.00
6/11/2013	8:00	Fine	Middle	2.5	23.90	23.90	23.90	7.83	7.83	7.83	32.30	32.30	32.30	86.4	86.1	86.0	6.06	6.03	6.03	3.46	3.46	3.46	4	3.50
	8:02		Middle	2.5	23.90	23.90		7.83	7.83		32.30	32.30		85.9	85.6		6.02	6.00		3.47	3.45		3	
8/11/2013	9:20	Fine	Middle	2.5	24.66	24.66	24.66	7.81	7.81	7.81	33.52	33.52	33.51	93.1	93.0	92.9	6.40	6.39	6.39	3.38	3.37	3.38	4	4.50
	9:22		Middle	2.5	24.66	24.66		7.80	7.80		33.50	33.50		92.8	92.8		6.38	6.37		3.37	3.39		5	
11/11/2013	10:26	Cloudy	Middle	2.5	24.68	24.68	24.68	7.84	7.84	7.84	33.27	33.27	33.27	97.8	97.6	97.5	6.72	6.70	6.69	4.39	4.39	4.37	4	3.50
	10:27		Middle	2.5	24.67	24.67		7.84	7.84		33.27	33.27		97.4	97.2		6.68	6.67		4.38	4.31		3	
13/11/2013	16:50	Cloudy	Middle	2.5	23.31	23.31	23.31	7.81	7.81	7.81	33.97	33.97	33.97	99.1	98.9	98.9	6.95	6.94	6.93	5.40	5.41	5.41	5	5.00
	15:52	-	Middle	2.5	23.31	23.31		7.81	7.81		33.96	33.96		98.7	98.8		6.92	6.92		5.41	5.41		5	
15/11/2013	17:45	Fine	Middle	3.0	23.18	23.18	23.18	7.48	7.48	7.48	33.84	33.84	33.84	67.5	67.6	67.6	4.38	4.38	4.38	3.99	3.97	3.98	5	5.00
	17:47		Middle	3.0	23.18	23.18		7.48	7.48		33.84	33.84		67.6	67.7		4.38	4.39		3.97	3.98		5	
19/11/2013	7:00	Fine	Middle	3.0	21.80	21.80	21.80	8.09	8.09	8.09	33.57	33.57	33.57	94.1	93.6	93.7	6.82	6.78	6.79	5.68	5.69	5.69	5	6.00
	7:02		Middle	3.0	21.80	21.80		8.09	8.09		33.57	33.57		93.6	93.4		6.79	6.77		5.69	5.69		7	<u> </u>
21/11/2013	8:20	Fine	Middle	3.0	21.76	21.76	21.66	7.84	7.84	7.84	33.57	33.57	33.57	85.7	85.5	85.4	6.21	6.20	6.19	4.54	4.49	4.48	4	4.00
	8:22		Middle	3.0	21.55	21.55		7.83	7.83		33.57	33.57		85.3	85.1		6.18	6.16		4.45	4.42		4	
23/11/2013	9:15	Fine	Middle	3.0	22.48	22.48	22.48	7.92	7.92	7.92	33.97	33.97	33.97	78.4	78.5	78.5	6.13	6.14	6.14	3.38	3.42	3.39	3	3.00
	9:17		Middle	3.0	22.48	22.48		7.92	7.92		33.97	33.97		78.5	78.4		6.14	6.13		3.38	3.38		3	
25/11/2013	9:35	Fine	Middle	2.5	21.03	21.03	21.03	7.83	7.82	7.83	32.17	32.17	32.15	77.4	77.5	77.4	5.72	5.71	5.71	5.03	5.02	5.03	6	6.00
	9:37		Middle	2.5	21.03	21.03		7.83	7.83		32.13	32.13		77.4	77.4		5.71	5.70		5.01	5.06		6	

Remarks:

Single underline denotes exceedance over Action Level.

Water Monitoring Result at WSD17 - Quarry Bay Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satura %	ation		DO ma/L			Turbid NTU	ity	Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/10/2013	15:30	Fine	Middle	2.5	25.15	25.15	25.16	7.43	7.43	7.43	33.69	33.69	33.75	65.3	65.3	65.3	4.43	4.43	4.43	7.98	7.98	7.96	7	6.50
20/10/2013	15:32	1 1110	Middle	2.5	25.16	25.16	23.10	7.43	7.43	7.45	33.80	33.80	33.75	65.2	65.2	05.5	4.43	4.43	4.45	7.92	7.95	7.90	6	0.50
30/10/2013	15:54	Fine	Middle	2.5	25.03	25.03	25.06	7.39	7.40	7.40	33.60	33.60	33.60	65.3	65.4	65.4	4.45	4.46	4.46	11.36	11.56	11.58	12	11.50
30/10/2013	15:56	TING	Middle	2.5	25.08	25.08	20.00	7.40	7.40	7.40	33.59	33.59	55.00	65.5	65.5	03.4	4.46	4.47	4.40	11.69	11.70	11.00	11	11.50
1/11/2013	16:25	Fine	Middle	2.5	25.60	25.60	25.60	7.28	7.28	7.30	33.59	33.59	33.56	83.2	83.0	83.0	5.61	5.60	5.60	13.05	13.02	13.01	14	14.00
1/1/2010	16:27	1 110	Middle	2.5	25.60	25.60	20.00	7.31	7.31	1.00	33.52	33.52	00.00	82.9	82.8	00.0	5.60	5.58	0.00	12.99	12.98	10.01	14	
4/11/2013	19:45	Cloudy	Middle	3.5	24.00	24.00	24.00	8.21	8.21	8.21	32.69	32.69	32.69	83.3	84.6	84.5	5.81	5.91	5.91	8.82	8.84	8.80	7	7.50
	19:46	choudy	Middle	3.5	24.00	24.00	2	8.21	8.21	0.21	32.69	32.69	02.00	84.7	85.5	0110	5.93	5.97	0.01	8.80	8.72	<u></u>	8	1.00
6/11/2013	9:48	Fine	Middle	3.0	24.66	24.66	24.64	7.78	7.78	7.78	33.81	33.81	33.83	71.8	71.8	71.9	4.92	4.92	4.93	6.41	6.41	6.38	7	6.50
	9:50		Middle	3.0	24.62	24.62		7.78	7.78		33.84	33.84		71.9	71.9		4.93	4.93		6.35	6.34		6	
8/11/2013	10:35	Fine	Middle	2.5	24.60	24.60	24.61	7.70	7.70	7.70	33.72	33.72	33.72	61.6	61.6	61.6	4.23	4.23	4.23	14.68	14.40	14.53	7	6.50
0,11,2010	10:37	1 110	Middle	2.5	24.61	24.61	2	7.70	7.70		33.72	33.72	00112	61.5	61.7	0110	4.22	4.24		14.32	14.72		6	0.00
11/11/2013	11:45	Cloudy	Middle	2.5	24.55	24.55	24.54	7.70	7.70	7.70	33.52	33.52	33.53	65.6	65.6	65.7	4.51	4.52	4.52	4.49	4.49	4.47	7	7.00
	11:47	,	Middle	2.5	24.53	24.53		7.70	7.70		33.53	33.53		65.7	65.7		4.52	4.53	-	4.46	4.43		7	
13/11/2013	15:20	Cloudy	Middle	3.0	23.65	23.65	23.64	7.81	7.81	7.82	33.89	33.89	33.90	62.3	62.2	62.2	4.34	4.34	4.34	9.44	9.43	<u>9.43</u>	10	10.00
	15:22		Middle	3.0	23.63	23.63		7.82	7.82		33.90	33.90		62.2	62.2		4.34	4.33		9.42	9.41		10	
15/11/2013	16:10	Fine	Middle	2.5	23.62	23.62	23.63	7.82	7.82	7.82	34.05	34.05	34.05	65.8	65.6	65.6	4.58	4.58	4.57	8.78	8.76	<u>8.78</u>	10	10.00
	16:12		Middle	2.5	23.64	23.64		7.81	7.81		34.04	34.04		65.5	65.3		4.56	4.54		8.77	8.79		10	<u> </u>
19/11/2013	8:25	Fine	Middle	3.0	22.58	22.58	22.55	7.85	7.85	7.85	34.12	34.12	34.13	99.7	99.5	99.5	7.08	7.06	7.06	8.72	8.72	8.72	11	10.50
	8:27		Middle	3.0	22.51	22.51		7.85	7.85		34.14	34.14		99.4	99.3		7.06	7.05		8.72	8.71		10	ļ
21/11/2013	9:35	Fine	Middle	3.0	22.38	22.38	22.39	7.76	7.76	7.76	34.37	34.37	34.37	56.7	56.7	56.8	4.04	4.04	4.05	11.30	11.07	<u>11.09</u>	11	10.50
	9:37		Middle	3.0	22.39	22.39		7.76	7.76		34.37	34.37		56.8	56.8		4.05	4.05		10.99	10.98		10	
23/11/2013	10:25	Fine	Middle	3.0	22.35	22.35	22.35	7.84	7.84	7.84	34.52	34.52	34.52	69.7	70.2	70.2	4.96	4.99	4.98	8.69	8.34	<u>8.40</u>	10	10.00
	10:27		Middle	3.0	22.34	22.34		7.84	7.84		34.52	34.52		70.5	70.5		4.98	4.99		8.31	8.27		10	<u> </u>
25/11/2013	10:50	Fine	Middle	2.5	21.95	21.95	21.96	7.73	7.73	7.73	34.19	34.19	34.19	80.5	80.2	80.2	5.77	5.76	5.76	3.83	3.84	3.87	4	4.00
	10:52		Middle	2.5	21.96	21.96		7.72	7.72		34.18	34.18		80.1	80.0		5.75	5.74		3.89	3.90		4	

Remarks:

Single underline denotes exceedance over Action Level.

am Water Monitoring Result at C7 - Windsor House

11	
	Mid Elevel Tide
	Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur %	ation		DO ma/L			Turbid NTL			ed Solids a/L
		Condition	n	n	Va		Average	Va	- Ilue	Average	Va	ppt lue	Average	Va		Average	Va		Average	Va	lue	Average		g/∟ Average
00/10/0010	15:10	E	Middle	1.5	25.89	25.89	05.00	7.27	7.27	7.07	32.68	32.68	00.74	51.0	51.2		3.44	3.46	0.47	4.84	4.84	4.00	4	4.00
28/10/2013	15:12	Fine	Middle	1.5	26.09	26.09	25.99	7.27	7.27	7.27	32.74	32.74	32.71	51.6	51.8	51.4	3.48	3.50	3.47	4.81	4.82	4.83	4	4.00
30/10/2013	15:30	Fine	Middle	1.5	26.22	26.22	26.27	7.17	7.17	7.17	32.66	32.66	32.68	53.3	53.5	53.9	3.58	3.59	3.62	3.97	3.98	3.99	6	5.00
30/10/2013	15:32	Fille	Middle	1.5	26.31	26.31	20.27	7.17	7.17	7.17	32.69	32.69	32.00	54.2	54.4	55.9	3.64	3.65	3.02	4.01	4.01	3.99	4	5.00
1/11/2013	16:09	Fine	Middle	1.5	26.07	26.07	26.07	7.05	7.05	7.05	31.98	31.98	32.02	61.6	61.5	61.5	4.16	4.16	4.16	4.94	4.87	4.85	5	4.50
1/11/2013	16:11	T IIIC	Middle	1.5	26.07	26.07	20.07	7.04	7.04	1.00	32.05	32.05	52.02	61.5	61.4	01.5	4.15	4.15	4.10	4.77	4.83	4.00	4	4.00
4/11/2013	19:08	Cloudy	Middle	1.5	23.90	23.90	23.90	8.20	8.20	8.19	29.10	29.10	28.59	56.5	56.5	56.7	4.04	4.04	4.05	6.61	6.43	6.46	6	5.50
4/11/2010	19:09	Cloudy	Middle	1.5	23.90	23.90	20.00	8.17	8.17	0.10	28.07	28.07	20.00	56.8	56.8	00.7	4.06	4.06	4.00	6.39	6.42	0.40	5	0.00
6/11/2013	11:25	Fine	Middle	1.5	25.18	25.18	25.18	7.44	7.44	7.44	32.72	32.72	32.72	52.1	52.3	52.4	3.58	3.58	3.59	2.87	2.89	2.89	3	3.00
	11:27		Middle	1.5	25.18	25.18		7.43	7.43		32.72	32.72		52.4	52.8		3.59	3.60		2.90	2.90		3	
8/11/2013	12:25	Fine	Middle	1.5	25.90	25.90	25.93	7.24	7.24	7.24	32.84	32.84	32.86	53.4	53.5	53.6	3.61	3.61	3.62	4.31	4.35	4.34	3	3.00
	12:27		Middle	1.5	25.96	25.96		7.23	7.23		32.87	32.87		53.6	53.8		3.62	3.63		4.35	4.36		3	
11/11/2013	15:02	Cloudy	Middle	1.5	24.78	24.78	24.78	7.52	7.52	7.52	32.95	32.95	32.95	49.3	49.4	49.5	3.39	3.40	3.41	3.71	3.69	3.68	5	6.00
	15:04	,	Middle	1.5	24.78	24.78		7.51	7.51		32.95	32.95		49.5	49.8		3.41	3.42		3.67	3.66		7	
13/11/2013	14:56	Cloudy	Middle	1.5	23.74	23.74	23.72	7.70	7.70	7.70	32.71	32.71	32.72	49.9	50.1	50.2	3.50	3.51	3.52	1.52	1.51	1.52	4	4.00
	14:57		Middle	1.5	23.69	23.69		7.69	7.69		32.73	32.73		50.3	50.4		3.53	3.53		1.52	1.53		4	
15/11/2013	15:50	Fine	Middle	1.5	24.36	24.36	24.36	7.52	7.52	7.52	32.92	32.92	32.92	54.7	54.9	54.9	3.79	3.80	3.80	3.10	3.11	3.11	4	5.00
	15:52		Middle	1.5	24.36	24.36		7.52	7.52		32.91	32.91		54.9	55.0		3.81	3.81		3.12	3.12		6	
19/11/2013	10:05	Fine	Middle	1.5	22.77	22.77	22.77	7.55	7.55	7.56	33.35	33.35	33.36	47.8	47.9	48.0	3.40	3.40	3.41	2.92	2.93	2.94	6	5.50
	10:07		Middle	1.5	22.77	22.77		7.56	7.56		33.36	33.36		48.0	48.1		3.41	3.42		2.94	2.96		5	
21/11/2013	11:07	Fine	Middle	1.5	22.53	22.53	22.53	7.49	7.49	7.49	33.11	33.11	33.11	60.7	60.5	63.5	4.37	4.33	4.33	2.61	2.64	2.63	2	2.00
	11:09		Middle	1.5	22.53	22.53		7.49	7.49		33.10	33.10		66.4	66.3		4.31	4.31		2.65	2.63		2	
23/11/2013	11:47	Fine	Middle	1.5	22.77	22.77	22.78	7.56	7.56	7.56	33.63	33.63	33.64	53.7	53.7	53.6	3.81	3.81	3.81	3.49	3.57	3.40	2	2.00
	11:49		Middle	1.5	22.79	22.79		7.56	7.56		33.65	33.65		53.4	53.5		3.79	3.81		3.33	3.21		2	
25/11/2013	12:52	Fine	Middle	1.5	22.68	22.68	22.69	7.32	7.32	7.32	32.87	32.87	32.87	47.6	46.6	47.0	3.40	3.32	<u>3.35</u>	1.49	1.44	1.45	5	4.50
	12:54		Middle	1.5	22.70	22.70		7.32	7.32		32.87	32.87		47.0	46.8		3.35	3.34		1.44	1.44		4	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	15:46	Fine	Middle	3.0	25.00	25.00	24.90	8.36	8.37	8.37	34.49	34.52	34.55	60.0	60.0	59.2	4.08	4.08	4.02	6.88	6.86	6.75	6	6.00
20/10/2013	15:48	1 1110	Middle	3.0	24.80	24.80	24.90	8.37	8.37	0.57	34.58	34.60	34.33	59.4	57.2	39.2	4.04	3.89	4.02	6.63	6.61	0.75	6	0.00
30/10/2013	14:37	Fine	Middle	2.5	25.50	25.50	25.50	8.40	8.40	8.40	34.45	34.45	34.45	60.2	61.1	61.2	4.07	4.13	4.14	4.54	4.53	4.54	3	3.00
30/10/2013	14:39	1 IIIE	Middle	2.5	25.50	25.50	23.30	8.40	8.40	0.40	34.45	34.45	34.43	61.4	62.0	01.2	4.15	4.19	4.14	4.52	4.55	4.04	3	3.00
1/11/2013	16:45	Fine	Middle	2.5	25.40	25.40	25.35	8.33	8.33	8.32	34.44	34.44	34.47	54.6	55.1	54.8	3.69	3.72	3.70	4.51	4.49	4.49	7	- 7.50
1/11/2010	16:47		Middle	2.5	25.30	25.30	20.00	8.31	8.31	0.02	34.49	34.49	04.47	55.1	54.4	04.0	3.72	3.68	0.70	4.48	4.47	00.10	8	1.00
4/11/2013	18:44	Cloudy	Middle	3.0	24.70	24.70	24.50	8.34	8.34	8.34	34.69	34.69	34.68	61.2	60.8	60.8	4.22	4.20	4.20	6.02	5.99	5.98	4	4.00
4/11/2010	18:46	cloudy	Middle	3.0	24.30	24.30	24.00	8.34	8.34	0.04	34.66	34.66	04.00	60.7	60.6	00.0	4.20	4.19	4.20	5.97	5.95	0.00	4	4.00
6/11/2013	9:44	Fine	Middle	2.5	24.90	24.90	24.90	8.21	8.21	8.22	34.82	34.82	34.82	65.3	65.1	65.5	4.44	4.43	4.45	6.83	6.84	6.85	4	4.00
0,11,2010	9:46	1 110	Middle	2.5	24.90	24.90	21.00	8.22	8.22	0.22	34.82	34.82	0 1102	65.6	65.9	00.0	4.46	4.48		6.86	6.88	0.00	4	
8/11/2013	10:32	Fine	Middle	2.0	25.00	25.00	25.00	8.39	8.39	8.39	34.68	34.68	34.69	58.5	60.6	59.5	3.97	4.11	4.04	7.85	7.83	7.79	5	4.50
0,11,2010	10:34	1 110	Middle	2.0	25.00	25.00	20.00	8.38	8.38	0.00	34.69	34.69	0 1100	60.5	58.5	00.0	4.10	3.97		7.76	7.73		4	
11/11/2013	14:26	Cloudy	Middle	2.5	24.30	24.30	24.30	8.42	8.42	8.42	34.95	34.95	34.95	71.6	71.4	71.3	4.91	4.89	4.89	7.78	7.73	7.74	9	9.00
	14:28		Middle	2.5	24.30	24.30		8.42	8.42	••••	34.95	34.95		71.1	71.1		4.88	4.87		7.74	7.72		9	
13/11/2013	14:59	Cloudy	Middle	2.5	23.60	23.60	23.60	8.48	8.48	8.48	35.02	35.02	35.02	72.2	73.0	72.4	5.01	5.07	5.03	6.87	6.86	6.88	6	6.50
	15:01		Middle	2.5	23.60	23.60		8.48	8.48		35.02	35.02		72.5	72.0		5.04	5.00		6.88	6.89		7	<u> </u>
15/11/2013	15:13	Fine	Middle	2.0	24.10	24.10	24.10	8.47	8.47	8.47	34.98	34.98	34.98	66.3	66.9	67.1	4.57	4.61	4.63	7.98	7.94	7.97	22	22.50
	15:15		Middle	2.0	24.10	24.10		8.47	8.47		34.98	34.98		67.0	68.1		4.62	4.70		7.97	7.99		23	
19/11/2013	7:53	Fine	Middle	2.5	22.40	22.30	16.75	8.36	8.36	8.36	35.16	35.16	35.16	66.7	67.6	66.8	4.74	4.78	4.74	6.57	6.58	6.58	6	6.00
	7:55		Middle	2.5	0.00	22.30		8.36	8.36		35.16	35.16		66.6	66.2		4.72	4.71		6.58	6.59		6	
21/11/2013	10:30	Fine	Middle	2.0	22.40	22.40	22.30	8.33	8.33	8.34	35.10	35.10	35.14	58.9	59.0	59.0	4.18	4.19	4.18	7.88	7.87	7.85	4	4.50
	10:32		Middle	2.0	22.20	22.20		8.34	8.34		35.17	35.17		59.3	58.6		4.20	4.16		7.84	7.81		5	
23/11/2013	10:35	Fine	Middle	3.0	22.50	22.50	22.50	8.35	8.35	8.35	35.21	35.21	35.21	62.3	62.9	63.0	4.41	4.46	4.46	8.20	8.36	8.33	7	7.00
	10:37		Middle	3.0	22.50	22.50		8.35	8.35		35.21	35.21		63.3	63.5		4.48	4.50		8.37	8.39		7	<u> </u>
25/11/2013	10:50	Fine	Middle	2.5	22.30	22.30	22.30	8.36	8.36	8.36	34.99	34.99	35.00	61.4	62.9	62.3	4.37	4.48	4.44	5.20	5.11	5.14	2	3.00
	10:52		Middle	2.5	22.30	22.30		8.36	8.36		35.00	35.00		62.7	62.3		4.46	4.44		5.10	5.13		4	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Contaition	r	n	Va	lue	Average	Va	lue	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
00/40/0040	16:17	E	Middle	3.0	25.60	25.60	05.55	8.35	8.35	0.00	34.56	34.56	04.50	58.8	57.4	50.0	3.96	3.86	0.00	4.78	4.76	4.75	4	4.50
28/10/2013	16:19	Fine	Middle	3.0	25.50	25.50	25.55	8.37	8.37	8.36	34.60	34.60	34.58	58.8	57.7	58.2	3.96	3.88	3.92	4.74	4.73	4.75	5	4.50
30/10/2013	15:03	Fine	Middle	2.5	26.00	26.00	26.00	8.33	8.33	8.33	34.54	34.54	34.54	64.5	64.7	64.9	4.30	4.32	4.33	5.34	5.29	5.26	3	3.00
30/10/2013	15:05	1 ine	Middle	2.5	26.00	26.00	20.00	8.33	8.33	0.55	34.54	34.54	34.34	65.0	65.3	04.9	4.34	4.36	4.55	5.23	5.17	5.20	3	3.00
1/11/2013	17:17	Fine	Middle	2.5	25.80	25.80	25.75	8.29	8.29	8.29	34.45	34.45	34.47	55.4	56.0	55.5	3.72	3.75	3.72	3.55	3.56	3.56	5	5.00
1/11/2010	17:19		Middle	2.5	25.70	25.70	20.70	8.28	8.28	0.20	34.48	34.48	04.47	55.5	55.0	66.6	3.72	3.69	0.72	3.56	3.56	0.00	5	0.00
4/11/2013	17:52	Cloudy	Middle	3.0	25.00	25.00	24.85	8.36	8.36	8.37	34.69	34.69	34.68	65.6	65.4	65.4	4.47	4.46	4.46	7.87	7.87	7.80	10	10.00
	17:54	cloudy	Middle	3.0	24.70	24.70	2	8.37	8.37	0.07	34.67	34.67	0 1100	65.3	65.1		4.46	4.44		7.74	7.73	1.00	10	
6/11/2013	10:07	Fine	Middle	3.0	25.00	25.00	25.00	8.31	8.31	8.31	34.74	34.74	34.74	62.2	62.7	62.8	4.21	4.26	4.26	5.91	5.90	5.92	3	3.50
	10:09		Middle	3.0	25.00	25.00		8.31	8.31		34.74	34.74		63.2	63.0		4.29	4.28	-	5.93	5.95		4	
8/11/2013	11:18	Fine	Middle	2.5	25.20	25.20	25.20	8.38	8.38	8.38	34.66	34.66	34.68	56.6	56.3	55.6	3.83	3.81	3.76	5.77	5.84	5.84	5	5.50
	11:20		Middle	2.5	25.20	25.20		8.38	8.38		34.69	34.69		55.1	54.4		3.73	3.68		5.86	5.87		6	
11/11/2013	15:18	Cloudy	Middle	3.0	24.90	24.90	24.90	8.41	8.41	8.41	34.93	34.93	34.93	72.5	72.6	72.1	4.93	4.93	4.89	6.62	6.61	6.61	6	7.00
	15:20		Middle	3.0	24.90	24.90		8.40	8.40		34.94	34.93		71.7	71.4		4.83	4.85		6.61	6.60		8	
13/11/2013	15:37	Cloudy	Middle	2.5	23.90	23.80	23.83	8.46	8.46	8.46	35.08	35.07	35.08	71.5	72.0	71.7	4.95	4.99	4.97	5.98	5.96	5.97	5	5.00
	15:39		Middle	2.5	23.80	23.80		8.46	8.46		35.07	35.08		71.3	71.8		4.94	4.98		5.95	5.97		5	
15/11/2013	15:42	Fine	Middle	2.5	24.40	24.40	24.50	8.44	8.44	8.44	35.12	35.12	35.12	70.6	70.5	70.8	4.82	4.81	4.83	5.25	5.23	5.24	5	4.50
	15:44		Middle	2.5	24.60	24.60		8.44	8.44		35.12	35.12		70.8	71.2		4.83	4.87		5.22	5.26		4	<u> </u>
19/11/2013	8:21	Fine	Middle	2.5	22.70	22.70	22.70	8.36	8.36	8.36	35.10	35.10	35.10	62.9	63.8	63.9	4.43	4.50	4.51	5.86	5.85	5.87	6	6.00
	8:23		Middle	2.5	22.70	22.70		8.36	8.36		35.10	35.10		64.1	64.6		4.53	4.57		5.88	5.89		6	<u> </u>
21/11/2013	11:07	Fine	Middle	2.5	22.70	22.70	22.65	8.34	8.34	8.34	34.91	34.91	34.95	57.2	57.5	57.8	4.04	4.05	4.08	6.01	6.01	6.01	5	5.50
	11:09		Middle	2.5	22.60	22.60		8.34	8.34		34.98	34.98		57.8	58.8		4.09	4.15		6.01	6.00		6	
23/11/2013	11:15	Fine	Middle	2.5	22.70	22.70	22.70	8.35	8.35	8.35	35.21	35.21	35.21	66.2	66.8	66.7	4.66	4.71	4.70	5.84	5.86	5.87	5	5.50
	11:17		Middle	2.5	22.70	22.70		8.35	8.35		35.21	35.21		66.9	66.7		4.72	4.70		5.87	5.92		6	<u> </u>
25/11/2013	11:27	Fine	Middle	2.5	22.60	22.60	22.60	8.33	8.33	8.33	35.07	35.07	35.07	66.8	66.3	66.9	4.72	4.84	4.80	4.25	4.26	4.20	5	5.50
	11:29		Middle	2.5	22.60	22.60		8.33	8.33		35.07	35.07		66.6	68.0		4.85	4.80		4.15	4.15		6	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTL			ed Solids
		Condition	n	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	lue	Average	mg Value	g/∟ Average
28/10/2013	16:09	Fine	Middle	3.0	25.30	25.30	25.15	8.38	8.38	8.37	34.58	34.58	34.60	60.3	60.5	60.7	4.03	4.04	4.08	4.87	4.87	4.86	4	4.00
20/10/2010	16:11	1 110	Middle	3.0	25.00	25.00	20.10	8.36	8.36	0.07	34.61	34.61	04.00	61.1	60.8	00.7	4.14	4.12	4.00	4.85	4.86	4.00	4	4.00
30/10/2013	14:56	Fine	Middle	2.5	25.50	25.50	25.55	8.34	8.34	8.34	34.50	34.50	34.50	63.4	63.3	63.6	4.27	4.26	4.29	4.73	4.74	4.75	3	3.50
	14:58		Middle	2.5	25.60	25.60		8.34	8.34		34.50	34.50		63.8	63.9		4.30	4.31		4.76	4.77		4	
1/11/2013	17:10	Fine	Middle	2.5	25.50	25.50	25.50	8.30	8.30	8.29	34.40	34.40	34.44	50.1	50.2	49.7	3.37	3.37	3.34	3.02	3.02	3.00	6	6.00
	17:12		Middle	2.5	25.50	25.50		8.28	8.28		34.48	34.48		49.3	49.1		3.32	3.30		3.00	2.95		6	
4/11/2013	18:06	Cloudy	Middle	3.0	24.90	24.90	24.80	8.35	8.35	8.35	34.67	34.67	34.66	60.4	60.2	60.1	4.12	4.11	4.10	3.86	3.86	3.87	6	5.50
	18:08		Middle	3.0	24.70	24.70		8.35	8.35		34.65	34.65		60.0	59.7		4.10	4.08		3.92	3.83		5	
6/11/2013	10:01	Fine	Middle	3.0	24.70	24.70	24.70	8.31	8.31	8.31	34.72	34.72	34.72	62.8	63.2	63.3	4.29	4.32	4.33	5.38	5.39	5.40	3	4.00
	10:03		Middle	3.0	24.70	24.70		8.31	8.31		34.72	34.72		63.5	63.6		4.34	4.35		5.40	5.42		5	
8/11/2013	11:07	Fine	Middle	2.5	24.70	24.70	24.65	8.38	8.38	8.38	34.62	34.62	34.66	55.9	58.1	56.9	3.81	3.97	3.88	4.97	5.01	4.99	5	5.00
	11:09		Middle	2.5	24.60	24.60		8.37	8.37		34.69	34.69		57.8	55.6		3.95	3.80		4.98	5.00		5	
11/11/2013	15:06	Cloudy	Middle	3.0	24.50	24.50	24.50	8.43	8.43	8.43	35.02	35.02	35.07	72.2	72.3	72.2	4.93	4.94	4.93	6.65	6.65	6.65	7	7.50
	15:08		Middle	3.0	24.50	24.50		8.43	8.43		35.02	35.20		72.2	71.9		4.93	4.91		6.65	6.66		8	
13/11/2013	15:25	Cloudy	Middle	2.5	23.70	23.70	23.65	8.46	8.46	8.46	35.04	35.04	35.05	67.9	68.5	68.1	4.71	4.75	4.73	5.29	5.30	5.30	5	5.50
	15:27		Middle	2.5	23.60	23.60		8.46	8.46		35.05	35.05		68.1	67.8		4.73	4.71		5.31	5.30		6	
15/11/2013	15:34	Fine	Middle	2.0	24.20	24.20	24.20	8.46	8.46	8.46	35.00	35.00	35.00	68.2	68.8	68.8	4.69	4.73	4.73	4.64	4.63	4.62	5	5.50
	15:36		Middle	2.0	24.20	24.20		8.46	8.46		35.00	35.00		69.1	69.2		4.75	4.76		4.62	4.58		6	
19/11/2013	8:13	Fine	Middle	2.5	22.50	22.50	22.50	8.36	8.36	8.36	35.08	35.09	35.09	65.1	65.3	65.2	4.62	4.64	4.63	5.87	5.86	5.86	6	7.00
	8:15		Middle	2.5	22.50	22.50		8.36	8.36		35.08	35.09		65.2	65.2		4.63	4.64		5.84	5.85		8	
21/11/2013	10:57	Fine	Middle	2.5	22.50	22.50	22.35	8.33	8.33	8.33	35.05	35.05	35.06	60.3	59.1	58.9	4.28	4.19	4.18	5.10	5.09	5.11	5	4.50
	10:59		Middle	2.5	22.20	22.20		8.33	8.33		35.07	35.07		58.1	58.2		4.13	4.13		5.09	5.14		4	
23/11/2013	11:06	Fine	Middle	2.5	22.40	22.40	22.40	8.35	8.35	8.35	35.14	35.14	35.14	62.0	62.8	62.8	4.40	4.46	4.46	5.43	5.39	5.40	4	4.50
	11:08		Middle	2.5	22.40	22.40		8.35	8.35		35.14	35.14		63.2	63.3		4.48	4.49		5.37	5.39		5	
25/11/2013	11:17	Fine	Middle	2.5	22.10	22.10	22.10	8.32	8.32	8.32	35.00	35.00	35.00	63.6	64.7	63.9	4.54	4.62	4.56	3.72	3.71	3.70	4	4.50
	11:19		Middle	2.5	22.10	22.10		8.32	8.32		35.00	35.00		63.8	63.4		4.56	4.53		3.67	3.68		5	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid			ed Solids
Date		Condition	n	n	Va	lue	Average	Va	- Iue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTL alue	Average	mg Value	g/L Average
28/10/2013	15:59	Fine	Middle	3.0	24.90	24.90	24.80	8.38	8.38	8.39	34.60	34.60	34.63	58.0	57.3	57.7	3.95	3.90	3.93	7.07	7.02	7.04	7	7.00
20/10/2013	16:01	TING	Middle	3.0	24.70	24.70	24.00	8.39	8.39	0.00	34.65	34.65	34.05	57.7	57.7	57.7	3.93	3.93	5.55	6.94	7.13	7.04	7	7.00
30/10/2013	14:51	Fine	Middle	2.5	25.60	25.60	25.55	8.33	8.33	8.33	34.45	34.45	34.45	62.2	62.2	62.3	4.20	4.19	4.21	4.68	4.69	4.67	5	6.00
	14:53	1 1110	Middle	2.5	25.50	25.50	20.00	8.33	8.33	0.00	34.45	34.45	0 11 10	62.3	62.4	02.0	4.21	4.22		4.66	4.64		7	0.00
1/11/2013	17:01	Fine	Middle	2.5	25.50	25.50	25.45	8.31	8.31	8.30	34.46	34.46	34.47	55.7	55.8	55.7	3.75	3.76	3.75	5.03	5.03	5.03	9	9.00
	17:03		Middle	2.5	25.40	25.40		8.29	8.29		34.48	34.48	•	55.8	55.3		3.76	3.73		5.03	5.03		9	
4/11/2013	18:16	Cloudy	Middle	3.0	25.30	25.30	25.20	8.36	8.36	8.36	34.67	34.67	34.67	63.6	63.3	63.2	4.30	4.28	4.27	7.89	7.87	7.87	9	9.50
	18:18	,	Middle	3.0	25.10	25.10		8.36	8.36		34.67	34.67		63.0	62.8		4.26	4.25		7.85	7.85		10	
6/11/2013	9:56	Fine	Middle	3.0	24.80	24.80	24.80	8.29	8.29	8.29	34.82	34.82	34.82	67.9	67.7	68.1	4.62	4.61	4.64	6.32	6.31	6.30	6	6.00
	9:58		Middle	3.0	24.80	24.80		8.29	8.29		34.82	34.82		68.5	68.3		4.67	4.65		6.29	6.28		6	
8/11/2013	11:00	Fine	Middle	2.5	24.80	24.80	24.85	8.40	8.40	8.40	34.66	34.66	34.65	58.7	60.9	59.8	4.00	4.18	4.08	7.79	7.74	7.75	6	6.00
	11:02		Middle	2.5	24.90	24.90		8.39	8.39		34.64	34.64		59.8	59.7		4.07	4.06		7.72	7.74		6	
11/11/2013	14:56	Cloudy	Middle	2.5	24.30	24.30	24.30	8.45	8.45	8.45	35.02	35.02	35.02	73.1	75.7	75.1	5.01	5.18	5.15	8.32	8.33	8.35	11	- 11.50
	14:58		Middle	2.5	24.30	24.30		8.45	8.45		35.02	35.02		76.0	75.5		5.22	5.17		8.36	8.37		12	<u> </u>
13/11/2013	15:17	Cloudy	Middle	2.5	23.70	23.70	23.70	8.48	8.48	8.48	35.05	35.05	35.05	71.4	72.3	71.8	4.94	5.01	4.97	7.58	7.57	7.52	8	8.00
	15:19		Middle	2.5	23.70	23.70		8.48	8.48		35.05	35.05		72.3	71.0		5.01	4.92		7.47	7.46		8	
15/11/2013	15:28	Fine	Middle	2.5	24.10	24.10	24.10	8.46	8.46	8.46	34.98	34.98	34.98	67.6	67.3	67.8	4.66	4.64	4.67	6.44	6.45	6.47	8	8.00
	15:30		Middle	2.5	24.10	24.10		8.46	8.46		34.98	34.98		68.1	68.2		4.69	4.70		6.47	6.51		8	
19/11/2013	8:04	Fine	Middle	2.5	22.40	22.40	22.40	8.33	8.33	8.33	35.15	35.15	35.15	67.4	68.0	67.6	4.78	4.30	4.67	8.22	8.22	8.22	10	10.00
	8:06		Middle	2.5	22.40	22.40		8.33	8.33		35.15	35.15		67.3	67.5		4.78	4.81		8.22	8.22		10	
21/11/2013	10:46	Fine	Middle	2.5	22.30	22.30	22.25	8.34	8.34	8.34	35.01	35.01	35.07	59.5	60.1	59.4	4.22	4.26	4.22	5.92	5.88	5.85	7	6.00
	10:48		Middle	2.5	22.20	22.20		8.34	8.34		35.12	35.12		59.0	59.1		4.19	4.20		5.80	5.80		5	<u> </u>
23/11/2013	10:57	Fine	Middle	2.5	22.30	22.30	22.30	8.36	8.36	8.36	35.92	35.92	35.92	65.5	66.3	66.4	4.66	4.71	4.71	7.71	7.72	7.68	6	5.50
	10:59		Middle	2.5	22.30	22.30		8.36	8.36		35.92	35.92		66.9	66.7		4.71	4.74		7.69	7.59		5	<u> </u>
25/11/2013	11:07	Fine	Middle	2.5	22.40	22.40	22.40	8.31	8.31	8.31	35.01	35.01	35.01	65.7	66.0	65.8	4.67	4.68	4.67	4.33	4.35	4.35	5	5.50
	11:09		Middle	2.5	22.40	22.40		8.31	8.31		35.01	35.01		65.7	65.8		4.67	4.67		4.36	4.34		6	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplir	ng Depth	Wate	er Temp °C	erature		pН		-	Salini ppt	ty	D	O Satur %	ation		DO ma/L		-	Turbid NTL		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	15:55	Fine	Middle	3.0	25.00	25.00	24.90	8.37	8.37	8.38	34.42	34.42	34.44	57.7	57.7	57.9	3.93	3.93	3.94	7.66	7.66	7.65	7	7.50
20/10/2013	15:57	1 IIIe	Middle	3.0	24.80	24.80	24.90	8.38	8.38	0.50	34.45	34.45	34.44	59.1	57.1	57.5	4.02	3.89	3.94	7.66	7.60	7.05	8	7.50
30/10/2013	14:45	Fine	Middle	2.5	25.40	25.40	25.40	8.37	8.37	8.37	34.47	34.47	34.47	59.2	59.9	59.7	4.00	4.06	4.04	6.25	6.24	6.23	5	5.50
00/10/2010	14:47	1 110	Middle	2.5	25.40	25.40	20.40	8.37	8.37	0.07	34.47	34.47	04.47	59.7	60.0	00.7	4.04	4.06	4.04	6.23	6.20	0.20	6	0.00
1/11/2013	16:54	Fine	Middle	2.5	25.50	25.50	25.45	8.31	8.31	8.31	34.45	34.45	34.47	57.8	57.8	57.2	3.90	3.90	3.86	6.03	6.01	5.99	7	8.00
	16:56	1 110	Middle	2.5	25.40	25.40	20110	8.30	8.30	0.01	34.49	34.49	0	56.7	56.5	01.2	3.82	3.81	0.00	6.00	5.93	0.00	9	0.00
4/11/2013	18:33	Cloudy	Middle	3.0	24.90	24.90	24.80	8.34	8.34	8.34	34.71	34.71	34.70	61.5	61.1	61.0	4.19	4.17	4.17	4.18	4.12	4.11	5	5.00
	18:35	,	Middle	3.0	24.70	24.70		8.33	8.33		34.69	34.69		60.9	60.5		4.16	4.14		4.09	4.05		5	
6/11/2013	9:53	Fine	Middle	3.0	24.80	24.80	24.80	8.27	8.27	8.27	34.82	34.82	34.82	65.1	65.7	65.6	4.43	4.48	4.47	8.00	8.01	7.95	6	5.50
	9:55		Middle	3.0	24.80	24.80		8.27	8.27		34.82	34.82		66.0	65.6		4.49	4.47		7.89	7.88		5	
8/11/2013	10:52	Fine	Middle	2.5	25.20	25.20	25.25	8.41	8.41	8.41	34.81	34.81	34.81	58.7	60.9	59.9	3.96	4.11	4.05	8.29	8.31	8.31	6	5.50
	10:54		Middle	2.5	25.30	25.30		8.40	8.40		34.81	34.81		60.9	58.9		4.11	4.00		8.32	8.31		5	
11/11/2013	14:43	Cloudy	Middle	2.5	24.40	24.30	24.33	8.44	8.44	8.44	34.99	34.99	34.99	74.5	74.2	74.1	5.11	5.09	5.09	10.50	10.54	<u>10.51</u>	12	12.00
	14:45		Middle	2.5	24.30	24.30		8.44	8.44		34.99	34.99		73.9	73.9		5.07	5.07		10.49	10.52		12	<u> </u>
13/11/2013	15:12	Cloudy	Middle	2.5	23.50	23.50	23.50	8.49	8.49	8.49	35.06	35.07	35.06	71.8	71.6	72.1	4.99	4.98	5.02	8.04	8.05	8.10	8	8.00
	15:14		Middle	2.5	23.50	23.50		8.49	8.49	1	35.06	35.06		72.5	72.6		5.05	5.07		8.15	8.16	1	8	<u> </u>
15/11/2013	15:23	Fine	Middle	2.5	23.90	23.90	23.85	8.46	8.46	8.46	35.01	35.01	35.02	72.4	72.2	72.2	5.01	5.00	5.02	7.71	7.73	7.74	4	4.50
	15:25		Middle	2.5	23.80	23.80		8.46	8.46		35.02	35.02		72.5	71.8		5.08	4.98		7.75	7.78		5	<u> </u>
19/11/2013	7:59	Fine	Middle	2.5	22.00	22.00	22.00	8.33	8.33	8.33	35.20	35.19	35.20	64.4	66.4	65.7	4.62	4.74	4.70	7.37	7.38	7.38	9	8.50
	8:01		Middle	2.5	22.00	22.00		8.33	8.33		35.19	35.20		66.1	65.8		4.73	4.71		7.39	7.38		8	<u> </u>
21/11/2013	10:40	Fine	Middle	2.5	22.30	22.30	22.20	8.33	8.33	8.34	34.96	34.96	34.99	56.7	55.6	56.0	4.03	3.96	3.98	6.33	6.33	6.34	7	6.50
	10:42		Middle	2.5	22.10	22.10		8.35	8.35		35.01	35.01		55.7	55.8		3.96	3.97		6.34	6.36		6	<u> </u>
23/11/2013	10:48	Fine	Middle	2.5	22.30	22.30	22.30	8.37	8.37	8.37	35.28	35.28	35.28	71.0	69.7	70.8	5.04	4.95	5.03	7.86	7.84	7.83	7	7.00
	10:50		Middle	2.5	22.30	22.30		8.37	8.37		35.28	35.28		71.1	71.4		5.05	5.08		7.82	7.79		7	<u> </u>
25/11/2013	11:01	Fine	Middle	2.5	22.50	22.50	22.48	8.35	8.35	8.35	34.97	34.97	34.97	64.6	65.1	65.0	4.88	4.62	4.68	4.93	4.90	4.90	6	6.50
	11:03		Middle	2.5	22.50	22.40		8.35	8.35		34.97	34.97		65.0	65.4		4.60	4.63		4.88	4.87		7	

Remarks:

Single underline denotes exceedance over Action Level.



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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini ppt		D	O Satura %	ation		DO ma/L			Turbid NTU		Suspende	ed Solids
		Condition	n	n	Va		Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	14:35	Fine	Middle	3.5	25.25	25.25	25.24	7.55	7.55	7.55	33.27	33.27	33.29	55.7	56.0	56.0	3.79	3.81	3.82	6.32	6.29	6.28	5	5.00
20/10/2013	14:37	1 IIIC	Middle	3.5	25.23	25.23	23.24	7.55	7.55	7.55	33.30	33.30	33.29	56.1	56.3	30.0	3.82	3.84	5.02	6.26	6.25	0.20	5	5.00
30/10/2013	14:45	Fine	Middle	3.5	25.68	25.68	25.69	7.49	7.49	7.49	33.40	33.40	33.39	63.1	63.2	63.2	4.26	4.27	4.27	7.70	7.78	7.73	6	6.00
00/10/2010	14:47	1 110	Middle	3.5	25.69	25.69	20.00	7.48	7.48	1.40	33.38	33.38	00.00	63.2	63.3	00.2	4.27	4.27	-1.27	7.77	7.66	1.10	6	0.00
1/11/2013	15:15	Fine	Middle	3.5	25.77	25.77	26.09	7.57	7.57	7.54	31.33	31.33	31.16	80.1	79.1	79.1	5.41	5.35	5.35	5.78	5.78	5.78	8	8.00
	15:17		Middle	3.5	26.40	26.40		7.51	7.51	-	30.98	30.98		78.7	78.4		5.32	5.30		5.78	5.77		8	
4/11/2013	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/11/2013	10:50	Fine	Middle	3.0	25.09	25.09	25.09	7.62	7.62	7.62	33.54	33.54	33.53	74.1	74.1	74.1	5.05	5.05	5.05	6.21	6.36	6.34	6	6.50
	10:52		Middle	3.0	25.09	25.09		7.62	7.62		33.52	33.52		74.0	74.0		5.04	5.04		6.39	6.40		7	
8/11/2013	11:45	Fine	Middle	3.0	25.26	25.26	25.27	7.57	7.57	7.57	33.52	33.52	33.52	59.2	59.3	59.3	4.03	4.03	4.03	4.19	4.19	4.20	6	6.00
	11:47		Middle	3.0	25.28	25.28		7.57	7.57		33.52	33.52		59.3	59.4		4.03	4.04		4.20	4.21		6	
11/11/2013	14:20	Cloudy	Middle	3.5	24.57	24.57	24.57	7.67	7.67	7.67	33.52	33.52	33.52	60.1	60.1	60.2	4.13	4.14	4.14	7.28	7.25	7.26	5	5.00
	14:22		Middle	3.5	24.57	24.57		7.67	7.67		33.51	33.51		60.2	60.3		4.14	4.15		7.25	7.27		5	
13/11/2013	14:15	Cloudy	Middle	4.0	23.60	23.60	23.53	7.78	7.78	7.79	33.48	33.48	33.53	61.4	61.5	61.5	4.30	4.31	4.31	8.32	8.30	8.30	8	8.00
	14:16		Middle	4.0	23.46	23.46		7.79	7.79		33.58	33.58	1	61.5	61.6		4.31	4.32		8.29	8.29		8	<u> </u>
15/11/2013	15:00	Fine	Middle	3.5	24.49	24.49	24.49	7.56	7.56	7.56	33.80	33.80	33.79	70.5	70.4	70.4	4.85	4.84	4.83	3.96	3.97	3.98	4	5.00
	15:02		Middle	3.5	24.49	24.49		7.56	7.56		33.78	33.78		70.4	70.1		4.83	4.81		3.99	3.99		6	<u> </u>
19/11/2013	9:30	Fine	Middle	3.5	22.84	22.84	22.84	7.68	7.68	7.68	33.73	33.73	33.78	54.7	54.7	54.7	3.87	3.88	3.88	5.30	5.22	5.24	7	6.50
	9:32		Middle	3.5	22.84	22.84		7.68	7.68		33.82	33.82		54.7	54.7		3.88	3.88		5.21	5.21		6	<u> </u>
21/11/2013	10:30	Fine	Middle	4.0	22.32	22.30	22.32	7.61	7.61	7.61	33.85	33.85	33.89	49.0	49.1	49.1	3.50	3.51	3.51	3.21	3.20	3.17	7	7.50
	10:32		Middle	4.0	22.32	22.32		7.61	7.61		33.92	33.92		49.1	49.2		3.51	3.52		3.15	3.13		8	<u> </u>
23/11/2013	11:10	Fine	Middle	4.0	22.60	22.60	22.60	7.73	7.73	7.73	34.18	34.18	34.20	57.1	56.6	56.9	4.05	4.02	4.12	4.89	4.87	4.85	7	7.00
	11:12		Middle	4.0	22.60	22.60		7.72	7.72		34.22	34.22		56.8	56.9		4.38	4.04		4.87	4.78		7	<u> </u>
25/11/2013	12:10	Fine	Middle	3.5	22.79	22.79	22.76	7.72	7.72	7.71	33.83	33.83	33.85	68.7	68.7	68.9	4.87	4.87	4.89	4.44	4.48	4.52	6	5.50
	12:12		Middle	3.5	22.72	22.72		7.70	7.70		33.86	33.86		68.7	69.6		4.87	4.93		4.44	4.70		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to out of order of the lighting system on 4 November 2013, water quality monitoring at RW21-P789 during flood tide was cancelled.

Water Monitoring Result at WSD21 - Wan Chai Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	g/∟ Average
00/40/0040	15:20		Middle	1.5	25.20	25.20	05.05	8.25	8.25	0.07	34.25	34.25	04.00	54.1	53.9	50.5	3.67	3.66		5.53	5.61	6.75	4	1.50
28/10/2013	15:22	Fine	Middle	1.5	24.90	24.90	25.05	8.29	8.29	8.27	34.27	34.27	34.26	52.4	53.7	53.5	3.56	3.65	<u>3.64</u>	5.89	5.95	5.75	5	4.50
30/10/2013	14:19	Fine	Middle	1.0	25.70	25.70	25.65	8.49	8.49	8.49	34.51	34.51	34.51	57.7	58.3	58.6	3.90	3.94	3.96	7.37	7.29	7.31	12	11.50
30/10/2013	14:21	Fille	Middle	1.0	25.60	25.60	23.05	8.49	8.49	0.49	34.51	34.51	54.51	59.0	59.3	56.0	3.99	4.01	3.90	7.28	7.29	7.31	11	11.50
1/11/2013	16:20	Fine	Middle	2.0	25.70	25.60	25.58	8.39	8.38	8.36	34.35	34.35	34.35	50.8	50.3	50.0	3.43	3.39	3.37	2.71	2.72	2.73	3	3.00
1/11/2013	16:22	1 line	Middle	2.0	25.50	25.50	20.00	8.34	8.34	0.00	34.34	34.34	04.00	50.1	48.7	30.0	3.38	3.28	<u>3.31</u>	2.74	2.76	2.15	3	3.00
4/11/2013	19:15	Cloudy	Middle	2.0	24.80	24.80	24.80	8.39	8.39	8.39	34.63	34.63	34.63	59.7	59.2	58.9	4.07	4.04	4.02	5.24	5.26	5.27	8	8.00
4/11/2013	19:17	Cloudy	Middle	2.0	24.80	24.80	24.00	8.39	8.39	0.00	34.63	34.63	34.05	58.6	58.1	30.5	4.02	3.95	4.02	5.30	5.28	5.27	8	0.00
6/11/2013	9:19	Fine	Middle	1.5	25.00	25.00	24.95	7.67	7.67	7.68	34.43	34.43	34.43	65.7	65.6	65.7	4.48	4.47	4.48	8.59	8.67	8.68	13	13.50
0,11,2010	9:21	1 1110	Middle	1.5	24.90	24.90	2 1.00	7.69	7.69	1100	34.43	34.43	0 11 10	65.6	66.0	0011	4.48	4.50		8.71	8.73	<u></u>	14	
8/11/2013	10:05	Fine	Middle	1.5	24.90	24.90	24.80	8.43	8.43	8.42	34.32	34.32	34.34	51.2	51.6	51.7	3.49	3.53	<u>3.53</u>	4.26	4.26	4.28	11	11.50
0,11,2010	10:07	1	Middle	1.5	24.70	24.70	2.1.00	8.40	8.40	0.1.2	34.36	34.36	0 110 1	52.1	51.9	0	3.56	3.55	<u></u>	4.28	4.31		12	
11/11/2013	13:59	Cloudy	Middle	1.5	25.00	25.00	24.95	8.32	8.33	8.33	34.53	34.53	34.53	61.1	61.2	60.8	4.16	4.17	4.15	7.71	7.71	7.72	9	9.50
	14:01		Middle	1.5	24.90	24.90		8.33	8.33		34.53	34.53		60.1	60.8		4.10	4.15		7.73	7.74		10	
13/11/2013	14:35	Cloudy	Middle	1.5	23.80	23.80	23.80	8.51	8.51	8.51	34.95	34.95	34.94	68.8	68.5	68.0	4.77	4.72	4.71	7.34	7.33	7.33	7	7.00
	14:37	,	Middle	1.5	23.80	23.80		8.51	8.51		34.94	34.93		66.8	67.8		4.63	4.70		7.32	7.33		7	
15/11/2013	14:50	Fine	Middle	1.5	24.00	24.00	24.00	8.48	8.48	8.48	34.97	34.97	34.97	67.9	68.0	68.3	4.69	4.70	4.72	8.15	8.16	<u>8.17</u>	5	6.00
	14:52		Middle	1.5	24.00	24.00		8.48	8.48		34.97	34.97		68.6	68.7		4.75	4.75		8.17	8.20		7	
19/11/2013	7:29	Fine	Middle	1.5	22.30	22.30	22.30	8.25	8.25	8.25	34.75	34.75	34.75	60.7	61.3	60.7	4.31	4.37	4.30	4.73	4.74	4.74	5	4.50
	7:31		Middle	1.5	22.30	22.30		8.25	8.25		34.75	34.75		60.0	60.6		4.23	4.30		4.74	4.73		4	
21/11/2013	10:05	Fine	Middle	1.5	22.50	22.50	22.35	8.27	8.27	8.29	34.66	34.66	34.67	57.3	58.5	57.5	4.07	4.16	4.08	5.87	5.89	5.83	10	9.00
	10:07		Middle	1.5	22.20	22.20		8.30	8.30		34.67	34.67		57.2	56.9		4.06	4.04		5.87	5.70		8	
23/11/2013	10:10	Fine	Middle	1.0	22.70	22.70	22.65	8.32	8.32	8.32	34.67	34.67	34.67	65.9	65.5	65.3	4.64	4.65	4.62	8.01	7.97	7.97	13	13.50
	10:12		Middle	1.0	22.60	22.60		8.32	8.32		34.67	34.67		65.3	64.5		4.63	4.57		7.95	7.94		14	
25/11/2013	10:16	Fine	Middle	1.5	22.40	22.40	22.40	8.46	8.46	8.46	34.82	34.81	34.82	57.7	58.7	57.7	4.11	4.19	4.11	10.34	10.37	<u>10.36</u>	6	5.50
	10:18		Middle	1.5	22.40	22.40		8.46	8.46		34.81	34.82		57.2	57.0		4.08	4.06		10.38	10.35		5	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition		ig Depth	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	ed Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va		Average	Va	lue	Average	Va	lue	Average	Value	Average
28/10/2013	14:02	Fine	Middle	3.0	25.71	25.71	05.70	7.63	7.63	7.63	33.52	33.52	33.50	60.9	60.9	61.0	4.11	4.11	4.44	13.98	13.43	40.75	4	4.50
28/10/2013	14:04	Fine	Middle	3.0	25.81	25.81	25.76	7.63	7.63	7.03	33.48	33.48	33.50	61.0	61.0	61.0	4.11	4.11	4.11	13.79	13.80	<u>13.75</u>	5	4.50
30/10/2013	14:15	Fine	Middle	3.0	26.98	26.98	26.98	7.48	7.48	7.48	33.78	33.78	33.78	86.6	86.5	86.4	5.71	5.70	5.69	10.00	9.91	9.90	8	8.50
30/10/2013	14:17	Time	Middle	3.0	26.98	26.98	20.90	7.48	7.48	7.40	33.78	33.78	33.70	86.3	86.0	00.4	5.69	5.67	5.05	9.88	9.81	<u>3.30</u>	9	0.50
1/11/2013	14:45	Fine	Middle	3.5	26.42	26.42	26.42	7.43	7.43	7.43	33.55	33.55	33.52	60.0	60.1	60.1	4.00	4.00	4.00	10.00	9.59	9.74	9	9.00
	14:47	1	Middle	3.5	26.42	26.42	20.12	7.42	7.42		33.48	33.48	00.02	60.1	60.2		4.00	4.01		9.65	9.70	<u>•</u>	9	0.00
4/11/2013	21:05	Cloudy	Middle	2.0	24.50	24.50	24.50	8.17	8.17	8.17	32.43	32.43	32.43	79.8	80.6	79.6	5.53	5.59	5.52	9.83	9.61	9.48	5	6.00
	21:06	,	Middle	2.0	24.50	24.50		8.17	8.17		32.43	32.43		79.4	78.7		5.50	5.46		9.25	9.23		7	
6/11/2013	10:35	Fine	Middle	3.0	24.78	24.78	24.78	7.64	7.64	7.64	33.39	33.39	33.39	90.4	90.2	90.1	6.20	6.18	6.18	5.31	5.30	5.30	4	4.50
	10:37		Middle	3.0	24.78	24.78		7.63	7.63		33.38	33.38		90.0	89.8		6.17	6.16		5.29	5.29		5	
8/11/2013	11:15	Fine	Middle	3.0	25.39	25.39	25.40	7.56	7.56	7.56	33.35	33.35	33.36	68.5	68.4	68.4	4.65	4.65	4.64	6.90	6.84	6.91	6	6.50
	11:17		Middle	3.0	25.40	25.40		7.56	7.56		33.36	33.36		68.4	68.3		4.64	4.63		6.94	6.95		7	<u> </u>
11/11/2013	13:55	Cloudy	Middle	3.0	24.68	24.68	24.69	7.64	7.64	7.64	33.42	33.42	33.42	68.7	68.5	68.5	4.72	4.70	4.71	7.76	7.70	7.62	8	8.50
	13:57		Middle	3.0	24.69	24.69		7.64	7.64		33.41	33.41		68.4	68.4		4.70	4.70		7.59	7.42		9	
13/11/2013	14:00	Cloudy	Middle	3.0	23.29	23.29	23.27	7.78	7.78	7.78	33.76	33.76	33.77	68.2	68.2	68.1	4.79	4.79	4.79	9.44	9.44	<u>9.44</u>	13	13.00
	14:02		Middle	3.0	23.25	23.25		7.78	7.78		33.78	33.78		68.0	68.0		4.78	4.78		9.44	9.45		13	
15/11/2013	14:35	Fine	Middle	2.5	25.06	25.06	25.06	7.69	7.69	7.69	33.79	33.79	33.79	97.5	97.3	97.2	6.63	6.62	6.61	10.49	10.48	<u>10.53</u>	10	10.00
	14:37		Middle	2.5	25.06	25.06		7.69	7.69		33.79	33.79		97.1	96.9		6.60	6.59		10.56	10.60		10	<u> </u>
19/11/2013	9:00 9:02	Fine	Middle Middle	3.0	22.41 22.41	22.41 22.41	22.41	7.69 7.69	7.69 7.69	7.69	33.55 33.56	33.55 33.56	33.56	59.0 59.1	59.0 59.1	59.1	4.22 4.23	4.23 4.23	4.23	7.28	7.35 7.30	7.31	7	6.50
	9.02		Middle	3.5	22.41	22.41		7.69	7.64		33.65	33.65		59.1	59.1		3.66	3.66		6.43	6.54		10	<u> </u>
21/11/2013	10:00	Fine	Middle	3.5	22.09	22.09	22.06	7.64	7.64	7.64	33.88	33.88	33.77	51.0	51.1	51.2	3.67	3.67	3.67	6.73	6.72	6.61	8	9.00
	10:52		Middle	3.5	22.03	22.39		7.73	7.73		34.02	34.02		60.3	59.6		4.30	4.28		7.40	7.24		6	
23/11/2013	10:50	Fine	Middle	3.5	22.33	22.33	22.38	7.74	7.74	7.74	34.01	34.01	34.02	59.9	59.5	59.8	4.27	4.25	4.28	7.01	6.88	7.13	6	6.00
	11:35		Middle	3.0	22.76	22.76		7.66	7.66		33.90	33.90		55.6	55.9		3.94	3.96		7.94	7.94		8	<u> </u>
25/11/2013	11:37	Fine	Middle	3.0	22.76	22.76	22.76	7.86	7.86	7.76	33.92	33.92	33.91	55.5	55.6	55.7	3.93	3.94	3.94	7.97	7.95	7.95	6	7.00

Remarks:

Single underline denotes exceedance over Action Level.

Water Monitoring Result at WSD9 - Tai Wan Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit ppt	y	D	O Satur %	ation		DO ma/L			Turbid NTU			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va		Average	Va		Average	Va		Average	Va		Average	Value	g/∟ Average
28/10/2013	3:44	Fine	Middle	2.5	23.90	23.90	23.85	8.19	8.19	8.19	32.53	32.53	32.54	79.5	80.0	79.5	5.57	5.61	5.57	3.43	3.64	3.48	3	3.00
20/10/2010	3:45	T IIIO	Middle	2.5	23.80	23.80	20.00	8.19	8.19	0.10	32.54	32.54	02.04	79.1	79.2	10.0	5.55	5.56	0.07	3.40	3.45	0.40	3	0.00
30/10/2013	7:50	Fine	Middle	3.0	24.72	24.72	24.72	7.74	7.74	7.74	33.42	33.42	33.42	76.7	76.4	76.4	5.26	5.25	5.25	11.06	11.05	<u>11.03</u>	4	4.50
	7:52	-	Middle	3.0	24.72	24.72		7.74	7.74		33.42	33.42		76.3	76.2		5.24	5.23		11.00	11.01		5	
1/11/2013	9:30	Fine	Middle	3.0	25.80	25.80	25.81	7.87	7.87	7.87	33.84	33.84	33.87	74.1	74.1	74.0	5.00	4.90	4.96	5.48	5.51	5.53	3	3.50
	9:32		Middle	3.0	25.81	25.81		7.87	7.87		33.89	33.89		73.9	73.7		4.98	4.97		5.56	5.56		4	<u> </u>
4/11/2013	10:42	Cloudy	Middle	3.0	24.91	24.91	24.91	7.80	7.80	7.80	33.51	33.51	33.52	93.5	93.5	93.4	6.40	6.40	6.39	8.94	8.94	<u>8.93</u>	20	<u>19.00</u>
	10:44		Middle	3.0	24.90	24.90		7.79	7.79		33.53	33.53		93.3	93.3		6.39	6.38		8.92	8.90		18	<u> </u>
6/11/2013	15:35	Fine	Middle	3.0	25.54	25.54	25.59	7.59	7.59	7.59	33.65	33.65	33.63	98.4	98.1	97.6	6.65	6.63	6.59	3.73	3.73	3.72	3	2.50
	15:37		Middle	3.0	25.63	25.63		7.58	7.58		33.60	33.60		97.4	96.6		6.54	6.53		3.72	3.69		2	
8/11/2013	2:20	Fine	Middle	2.0	24.00	24.00	24.00	8.19	8.19	8.19	32.64	32.64	32.65	84.8	85.1	85.0	5.86	5.94	5.92	3.77	3.74	3.74	3	2.50
	2:21		Middle	2.0	24.00	24.00		8.18	8.18		32.65	32.65		84.9	85.2		5.94	5.95		3.80	3.63		2	<u> </u>
11/11/2013	3:53	Cloudy	Middle	2.0	24.80	24.80	24.80	8.18	8.18	8.18	32.40	32.41	32.27	82.2	84.9	84.3	5.67	5.81	5.82	5.48	5.37	5.31	5	5.00
	3:54		Middle	2.0	24.80	24.80		8.18	8.18		32.11	32.14		85.6	84.4		5.96	5.82		5.21	5.18		5	<u> </u>
13/11/2013	8:00 8:02	Cloudy	Middle	3.0 3.0	22.75 22.79	22.75 22.79	22.77	7.93 7.92	7.93 7.92	7.93	32.66 32.64	32.66 32.64	32.65	107.8 107.4	107.6 107.2	107.5	7.69 7.66	7.68 7.65	7.67	3.69 3.68	3.68 3.67	3.68	3	2.50
	9:15		Middle	3.0	22.79	23.26		7.92	7.92		32.64	32.04		70.7	70.6		4.96	4.95		4.02	4.04		5	<u> </u>
15/11/2013	9:17	Fine	Middle	3.0	23.26	23.20	23.26	7.96	7.96	7.96	34.01	34.01	34.01	70.7	70.0	70.6	4.90	4.93	4.95	4.02	4.04	4.05	5	5.00
	0:27		Middle	2.0	22.00	22.00		8.20	8.22		33.03	32.90		75.4	76.7		5.45	5.55		7.16	7.23		4	<u> </u>
19/11/2013	0:28	Cloudy	Middle	2.0	22.00	22.00	22.00	8.22	8.22	8.22	32.79	32.79	32.88	75.1	74.4	75.4	5.43	5.38	5.45	6.97	6.78	7.04	4	4.00
	1:22		Middle	2.0	21.00	21.00		8.19	8.19		33.13	33.13		86.4	87.5		6.35	6.43		4.09	4.13		4	<u> </u>
21/11/2013	1:23	Cloudy	Middle	2.0	21.00	21.00	21.00	8.19	8.19	8.19	33.13	33.13	33.13	88.1	87.3	87.3	6.47	6.41	6.42	4.15	4.17	4.14	2	3.00
	1:35		Middle	2.5	21.90	21.90		8.17	8.17		32.74	32.74		87.3	87.8		6.31	6.40		3.27	3.19		<2	<u> </u>
23/11/2013	1:36	Cloudy	Middle	2.5	21.90	21.90	21.90	8.17	8.17	8.17	32.23	32.25	32.49	87.8	86.3	87.3	6.33	6.31	6.34	3.16	3.22	3.21	<2	<2
00/14/0040	2:35	-	Middle	2.0	21.30	21.30	04.00	8.18	8.18	0.40	32.97	32.97	22.00	86.8	85.6	00.0	6.34	6.25	0.00	3.05	3.15	2.42	4	2.50
26/11/2013	2:36	Fine	Middle	2.0	21.30	21.30	21.30	8.17	8.17	8.18	33.06	33.06	33.02	86.1	86.4	86.2	6.30	6.31	6.30	3.12	3.20	3.13	3	3.50

Remarks:

Single underline denotes exceedance over Action Level.



Water Monitoring Result at WSD17 - Quarry Bay Mid-Ebb Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspend	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average		Average
28/40/2042	4:50	Fine	Middle	3	23.80	23.80	22.00	8.22	8.22	0.00	32.42	32.40	22.25	82.6	83.3	00.0	5.81	5.86	F 70	4.72	4.65	4.00	2	2.00
28/10/2013	4:51	Fine	Middle	3	23.80	23.80	23.80	8.22	8.22	8.22	32.21	32.37	32.35	82.2	80.5	82.2	5.78	5.65	5.78	4.69	4.59	4.66	2	2.00
30/10/2013	9:55	Fine	Middle	3	25.18	25.18	25.18	7.61	7.61	7.61	33.37	33.37	33.36	50.6	50.9	51.0	3.45	3.47	<u>3.48</u>	8.71	8.75	8.74	5	5.00
30/10/2013	9:57	Tine	Middle	3	25.18	25.18	23.10	7.60	7.60	7.01	33.35	33.35	33.30	51.0	51.3	51.0	3.49	3.50	<u>3.40</u>	8.76	8.74	<u>0.74</u>	5	5.00
1/11/2013	10:45	Fine	Middle	3	25.21	25.21	25.21	7.56	7.56	7.56	32.76	32.76	32.76	60.7	60.8	60.9	4.15	4.15	4.16	7.86	7.98	7.96	7	6.00
	10:47		Middle	3	25.21	25.21	20.21	7.56	7.56	1.00	32.76	32.76	02.110	60.9	61.0	00.0	4.17	4.17		7.99	8.00		5	0.00
4/11/2013	12:04	Cloudy	Middle	3	25.00	25.00	25.00	7.77	7.77	7.77	33.59	33.59	33.60	98.3	97.6	97.7	6.71	6.67	6.67	11.08	11.03	11.03	10	- 10.50
	12:06		Middle	3	25.00	25.00		7.77	7.77		33.60	33.60		97.6	97.1		6.67	6.63		11.00	11.00		11	
6/11/2013	14:35	Fine	Middle	3	25.26	25.26	25.28	7.47	7.47	7.47	33.69	33.69	33.69	77.4	77.4	77.4	5.26	5.25	5.25	7.88	7.89	7.94	6	6.50
	14:37		Middle	3	25.29	25.29		7.47	7.47		33.68	33.68		77.3	77.3		5.25	5.25		8.00	7.98		7	<u> </u>
8/11/2013	3:20	Fine	Middle	3	24.30	24.30	24.30	8.29	8.29	8.28	32.28	32.34	32.34	77.3	77.8	77.2	5.38	5.41	5.37	4.18	4.25	4.23	6	6.50
	3:21		Middle	3	24.30	24.30		8.27	8.27		32.37	32.37		77.5	76.2		5.39	5.31		4.28	4.22		7	<u> </u>
11/11/2013	4:40	Cloudy	Middle	3	24.60	24.60	24.60	8.19	8.19	8.19	32.93	32.93	32.93	81.0	81.5	80.9	5.69	5.62	5.63	5.58	5.52	5.51	5	5.50
	4:41		Middle	3	24.60	24.60		8.19	8.19		32.93	32.93		81.0	80.1		5.69	5.53		5.54	5.40		6	<u> </u>
13/11/2013	9:25	Cloudy	Middle	3	23.29	23.29	23.29	7.83	7.83	7.83	34.00	34.00	34.00	63.9	63.8	63.8	4.48	4.48	4.48	7.24	7.22	7.22	8	8.00
	9:27		Middle	3	23.29	23.29		7.83	7.83		34.00	34.00		63.8	63.7		4.47	4.47		7.22	7.21		8	<u> </u>
15/11/2013	10:45	Fine	Middle	3	23.64	23.64	23.65	7.63	7.63	7.63	33.99	33.99	33.99	59.4	59.4	59.4	4.14	4.14	4.14	9.30	9.22	<u>9.24</u>	7	7.00
	10:47		Middle	3	23.66	23.66		7.62	7.62		33.99	33.99		59.3	59.3		4.13	4.13		9.25	9.20		7	<u> </u>
19/11/2013	3:53 3:54	Cloudy	Middle	3	21.80 21.80	21.80 21.80	21.80	8.17 8.17	8.17 8.17	8.17	32.90 32.91	32.91 32.91	32.91	72.4 72.3	74.2 73.1	73.0	5.25 5.25	5.39 5.39	5.32	5.19 5.16	5.30 5.13	5.20	4	4.00
	3:20		Middle	3	21.80	21.80		8.14	8.14		32.91	32.83		72.3	73.1		5.25	5.26		4.07	4.12		4	<u> </u>
21/11/2013	3:20	Cloudy	Middle	3	21.80	21.80	21.80	8.14	8.14	8.14	32.83	32.83	32.88	73.9	72.0	72.9	5.36	5.30	5.28	4.07	4.12	4.08	5	4.50
	3:15		Middle	3	21.80	21.80		8.20	8.20		32.92	32.90		76.7	77.2		5.56	5.62		3.94	4.02		2	<u> </u>
23/11/2013	3:16	Cloudy	Middle	3	21.80	21.80	21.80	8.20	8.20	8.20	32.91	32.91	32.91	77.2	77.1	77.1	5.62	5.59	5.60	4.01	3.90	3.98	3	2.50
	4:42		Middle	3	21.00	21.00		8.19	8.19		32.73	32.73		75.9	76.9		5.60	5.66		2.99	3.03		5	<u> </u>
26/11/2013	4:43	Fine	Middle	3	21.00	21.00	21.00	8.19	8.19	8.19	32.56	32.56	32.65	76.5	76.1	76.4	5.64	5.60	5.63	3.05	3.07	3.04	3	4.00

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ration		DO mg/L			Turbid NTL		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	4:18	Fine	Middle	2	23.60	23.60	23.55	8.16	8.16	8.15	30.78	30.80	30.80	58.9	60.8	60.4	4.19	4.33	4.30	2.78	2.65	2.66	<2	<2
20/10/2013	4:19	Tine	Middle	2	23.50	23.50	23.33	8.14	8.14	0.15	30.80	30.80	30.00	61.0	60.9	00.4	4.33	4.34	4.50	2.61	2.58	2.00	<2	~2
30/10/2013	11:32	Fine	Middle	2	25.65	25.65	25.65	7.30	7.30	7.30	32.16	32.16	32.16	57.6	57.8	58.0	3.92	3.93	3.95	4.60	4.65	4.65	4	- 3.50
30/10/2013	11:34	Tine	Middle	2	25.65	25.65	23.03	7.30	7.30	7.50	32.16	32.16	32.10	58.3	58.4	50.0	3.96	3.98	0.00	4.68	4.68	4.00	3	3.30
1/11/2013	12:17	Fine	Middle	2	25.49	25.49	25.50	7.21	7.21	7.22	31.78	31.78	31.76	49.8	39.6	47.7	3.37	3.36	3.46	3.65	3.67	3.66	<2	<2
	12:19		Middle	2	25.51	25.51	20.00	7.22	7.22		31.74	31.74	00	49.8	51.7		3.37	3.73	0.10	3.66	3.65	0.00	<2	
4/11/2013	15:04	Cloudy	Middle	2	24.75	24.75	24.76	7.46	7.46	7.45	31.81	31.81	31.81	62.6	62.6	62.6	4.34	4.33	4.33	3.48	3.52	3.52	2	2.00
	15:06		Middle	2	24.76	24.76		7.44	7.44		31.81	31.81		62.5	62.5		4.33	4.32		3.54	3.55		2	
6/11/2013	14:12	Fine	Middle	2	25.52	25.52	25.54	7.31	7.31	7.31	32.41	32.41	32.41	64.5	64.4	64.4	4.40	4.39	4.39	2.50	2.58	2.55	2	2.00
	14:14	-	Middle	2	25.56	25.56		7.31	7.31	-	32.41	32.41		64.3	64.2		4.38	4.37		2.52	2.59		2	
8/11/2013	2:47	Fine	Middle	1	23.80	23.80	23.80	8.10	8.10	8.10	30.80	30.80	30.80	56.3	57.2	56.8	3.99	4.05	4.02	2.82	2.84	2.79	3	- 2.50
	2:48		Middle	1	23.80	23.80		8.09	8.10		30.80	30.80		57.1	56.7		4.04	4.01		2.76	2.72		2	
11/11/2013	4:16	Cloudy	Middle	1	24.70	24.70	24.70	8.14	8.14	8.13	31.94	31.95	31.95	58.8	59.8	59.6	4.07	4.14	4.13	1.77	1.82	1.79	<2	<2
	4:17	,	Middle	1	24.70	24.70		8.11	8.11		31.95	31.95		60.2	59.5		4.17	4.12	-	1.80	1.76		<2	
13/11/2013	11:07	Cloudy	Middle	2	23.59	23.59	23.58	7.67	7.67	7.67	31.95	31.95	31.95	56.3	56.4	56.4	3.98	3.98	3.99	1.87	1.87	1.88	5	- 5.50
	11:08	-	Middle	2	23.57	23.57		7.66	7.66		31.95	31.95		56.4	56.5		3.99	3.99		1.88	1.89		6	
15/11/2013	12:07	Fine	Middle	2	24.17	24.17	24.18	7.50	7.50	7.50	32.67	32.67	32.67	47.7	47.8	47.9	3.38	3.38	3.39	1.50	1.53	1.54	5	4.50
	12:09		Middle	2	24.18	24.18		7.49	7.49		32.67	32.67		47.9	48.0		3.39	3.40		1.55	1.57		4	
19/11/2013	3:20	Cloudy	Middle	1	21.10	21.10	21.10	7.98	7.98	7.98	30.64	30.64	30.65	58.4	58.6	58.3	4.34	4.36	4.34	2.58	2.46	2.47	2	2.50
	3:21		Middle	1	21.10	21.10		7.98	7.98		30.65	30.65		58.4	57.9		4.34	4.31		2.43	2.40		3	
21/11/2013	2:58	Cloudy	Middle	1	21.20	21.20	21.15	8.17	8.17	8.16	30.84	30.84	30.84	54.7	55.2	55.2	4.06	4.10	4.10	1.62	1.57	1.54	4	4.00
	2:59	-	Middle	1	21.10	21.10		8.17	8.14		30.84	30.84		55.4	55.3		4.12	4.10		1.49	1.49		4	
23/11/2013	2:40	Cloudy	Middle	1	21.60	21.60	21.60	8.00	8.00	8.00	31.15	31.15	31.15	49.8	51.3	51.2	3.68	3.78	3.77	1.79	1.80	1.76	<2	<2
	2:41		Middle	1	21.60	21.60		8.00	8.00		31.15	31.15		51.6	52.0		3.80	3.83		1.71	1.75		<2	
26/11/2013	4:10	Fine	Middle	1	20.50	20.50	20.50	7.81	7.81	7.81	31.79	31.79	31.79	51.0	51.7	51.7	3.81	3.87	3.88	2.06	1.90	1.95	3	3.50
	4:11		Middle	1	20.50	20.50		7.81	7.81		31.79	31.79		51.9	52.1		3.90	3.94		1.94	1.88		4	

Remarks:

Single underline denotes exceedance over Action Level.

am	
am	Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater Condition		ig Depth	Wat	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur	ration		DO mg/L			Turbid NTU	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	7:02	Fine	Middle	3.0	24.50	24.50	24.40	8.40	8.40	8.39	34.74	34.74	34.73	56.6	56.4	56.3	3.89	3.88	3.88	4.87	4.77	4.80	3	3.00
20/10/2013	7:04	Fille	Middle	3.0	24.30	24.30	24.40	8.38	8.38	6.39	34.71	34.71	34.73	56.2	56.1	50.5	3.87	3.87	3.00	4.78	4.76	4.00	3	3.00
30/10/2013	9:54	Fine	Middle	2.5	25.40	25.40	25.40	8.33	8.33	8.33	34.62	34.62	34.62	64.3	64.2	64.1	4.35	4.34	4.34	5.32	5.37	5.37	6	6.50
30/10/2013	9:56	TINC	Middle	2.5	25.40	25.40	23.40	8.33	8.33	0.00	34.62	34.62	34.02	64.1	63.9	04.1	4.33	4.32	4.04	5.38	5.40	0.01	7	0.00
1/11/2013	10:36	Fine	Middle	2.5	25.20	25.20	25.20	8.35	8.35	8.35	34.61	34.62	34.87	60.5	61.5	61.1	4.10	4.17	4.14	4.98	4.98	4.98	5	4.50
	10:38		Middle	2.5	25.20	25.20	20.20	8.35	8.35	0.00	34.61	35.62	0 1101	61.2	61.1	0	4.15	4.14		4.98	4.98		4	
4/11/2013	11:25	Cloudy	Middle	2.5	24.80	24.80	24.80	8.29	8.29	8.29	34.77	34.77	34.77	67.9	69.2	69.1	4.62	4.72	4.71	4.90	4.87	4.85	7	6.50
	11:27	,	Middle	2.5	24.80	24.80		8.29	8.29		34.77	34.77		69.6	69.7		4.74	4.75		4.82	4.81		6	
6/11/2013	13:59	Fine	Middle	2.5	25.40	25.40	25.40	8.35	8.35	8.35	34.80	34.84	34.83	65.8	66.3	66.1	4.43	4.46	4.45	4.58	4.57	4.57	3	4.00
	14:01		Middle	2.5	25.40	25.40		8.35	8.35		34.83	34.84		66.2	65.9		4.46	4.44		4.57	4.56		5	
8/11/2013	3:13	Fine	Middle	3.0	24.40	24.40	24.35	8.43	8.43	8.42	34.83	34.83	34.81	60.8	60.6	60.5	4.17	4.16	4.15	4.00	3.97	3.95	5	6.00
	3:15		Middle	3.0	24.30	24.30		8.40	8.40		34.78	34.78		60.3	60.2		4.14	4.14		3.94	3.87		7	
11/11/2013	6:20	Cloudy	Middle	2.5	24.30	24.30	24.30	8.42	8.42	8.41	34.95	34.95	34.95	60.3	60.1	60.0	4.13	4.12	4.11	2.76	2.81	2.78	7	6.50
	6:22		Middle	2.5	24.30	24.30		8.40	8.40		34.94	34.94		59.9	59.6		4.11	4.09		2.78	2.77		6	
13/11/2013	9:42	Cloudy	Middle	2.5	23.80	23.80	23.80	8.47	8.47	8.47	35.18	35.18	35.18	75.7	75.3	75.3	5.23	5.20	5.20	6.43	6.43	6.43	6	6.50
	9:44	-	Middle	2.5	23.80	23.80		8.47	8.47		35.18	35.18		75.5	74.5		5.23	5.15		6.43	6.43		7	
15/11/2013	11:38	Fine	Middle	2.0	24.80	24.80	24.80	8.47	8.47	8.47	35.19	35.19	35.19	70.2	70.6	71.0	4.77	4.80	4.82	6.95	6.93	6.94	6	6.00
	11:40		Middle	2.0	24.80	24.80		8.47	8.47		35.19	35.19		71.5	71.7		4.85	4.87		6.92	6.96		6	
19/11/2013	0:39	Cloudy	Middle	3.0	22.80	22.80	22.75	8.36	8.36	8.36	35.33	35.33	35.32	61.6	61.5	61.3	4.33	4.33	4.32	4.72	4.69	4.68	4	4.00
	0:41		Middle	3.0	22.70	22.70		8.36	8.36		35.31	35.31		61.2	60.8		4.31	4.29		4.67	4.64		4	
21/11/2013	1:54	Cloudy	Middle	3.0	22.20	22.20	22.10	8.35	8.35	8.35	35.31	35.31	35.31	60.2	60.0	59.9	4.28	4.27	4.27	3.82	3.80	3.75	3	3.00
	1:56		Middle	3.0	22.00	22.00		8.34	8.34		35.30	35.30		59.8	59.6		4.26	4.25		3.72	3.67		3	
23/11/2013	2:41	Cloudy	Middle	3.0	22.30	22.30	22.20	8.38	8.38	8.37	35.37	35.37	35.36	60.6	60.4	60.3	4.30	4.29	4.28	3.64	3.63	3.57	2	2.50
	2:43		Middle	3.0	22.10	22.10		8.36	8.36		35.34	35.34		60.1	59.9		4.27	4.26		3.52	3.47		3	<u> </u>
26/11/2013	5:05	Fine	Middle	3.0	21.70	21.70	21.55	8.34	8.34	8.33	35.20	35.20	35.21	61.7	61.5	61.4	4.43	4.42	4.41	4.98	4.98	4.94	5	4.50
	5:07		Middle	3.0	21.40	21.40		8.32	8.32		35.22	35.22		61.3	61.0		4.41	4.39		4.92	4.87		4	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	C	O Satur %	ration		DO ma/L			Turbid NTL		Suspende	ed Solids
		Condition	n	n	Va		Average	Va	lue	Average	Va		Average	Va		Average	Va	lue	Average	Va		Average		
28/10/2013	6:23	Fine	Middle	3.0	24.80	24.80	24.60	8.35	8.35	8.35	34.35	34.35	34.31	66.2	66.0	65.8	4.55	4.54	4.53	6.53	6.48	6.47	4	4.00
20/10/2013	6:25	Tine	Middle	3.0	24.40	24.40	24.00	8.35	8.35	0.55	34.26	34.26	34.31	65.6	65.4	03.0	4.52	4.51	4.55	6.47	6.40	0.47	4	4.00
30/10/2013	10:19	Fine	Middle	2.5	25.30	25.30	25.30	8.34	8.34	8.34	34.56	34.56	34.56	64.5	65.0	65.1	4.36	4.39	4.40	6.58	6.57	6.57	7	7.00
00/10/2010	10:21	Tine	Middle	2.5	25.30	25.30	20.00	8.34	8.34	0.04	34.56	34.56	04.00	65.5	65.4	00.1	4.43	4.42	9.90	6.56	6.55	0.07	7	1.00
1/11/2013	11:02	Fine	Middle	2.5	25.40	25.30	25.35	8.33	8.33	8.33	34.57	34.57	34.57	60.3	60.9	60.5	4.08	4.12	4.09	4.04	4.04	4.03	5	5.00
	11:04		Middle	2.5	25.30	25.40		8.33	8.33		34.57	34.57		60.6	60.2		4.10	4.07		4.03	4.02		5	
4/11/2013	10:53	Cloudy	Middle	3.0	24.90	24.90	24.85	7.93	7.93	7.96	34.57	34.57	34.58	67.6	67.9	68.1	4.61	4.63	4.64	6.17	6.18	6.18	4	4.50
	10:55	,	Middle	3.0	24.80	24.80		7.99	7.99		34.59	34.59		68.0	68.7		4.64	4.69	-	6.17	6.20		5	
6/11/2013	14:35	Fine	Middle	3.0	25.60	25.60	25.60	8.38	8.38	8.38	34.80	34.81	34.81	70.4	70.5	70.3	4.72	4.73	4.72	5.05	5.04	5.10	6	6.50
	14:37		Middle	3.0	25.60	25.60		8.38	8.38		34.82	34.80		69.9	70.3		4.71	4.70		5.14	5.15		7	<u> </u>
8/11/2013	2:20	Fine	Middle	3.0	24.70	24.70	24.65	8.71	8.71	8.65	34.90	34.90	34.91	67.4	67.1	66.9	4.59	4.57	4.56	6.50	6.43	6.48	9	8.00
	2:22		Middle	3.0	24.60	24.60		8.59	8.59		34.91	34.91		66.8	66.4		4.55	4.52		6.43	6.54		7	<u> </u>
11/11/2013	5:27	Cloudy	Middle	2.5	24.70	24.70	24.65	8.72	8.72	8.68	35.10	35.10	35.11	68.2	68.0	67.9	4.65	4.64	4.63	4.89	4.88	4.82	6	6.00
	5:29		Middle	2.5	24.60	24.60		8.63	8.63		35.11	35.11		67.8	67.5		4.63	4.61		4.76	4.73		6	<u> </u>
13/11/2013	10:18	Cloudy	Middle	2.5	23.70	23.70	23.70	8.49	8.49	8.49	35.16	35.16	35.16	72.6	73.6	73.3	5.03	5.10	5.08	6.19	6.16	6.16	6	5.50
	10:20		Middle	2.5	23.70	23.70		8.49	8.49		35.16	35.16		73.0	74.1		5.06	5.14		6.17	6.12		5	<u> </u>
15/11/2013	11:06	Fine	Middle	2.5	23.90	23.90	23.90	8.67	8.67	8.67	35.09	35.09	35.09	75.1	74.9	74.5	5.21	5.20	5.17	7.84	7.85	7.89	7	6.50
	11:08		Middle	2.5	23.90	23.90		8.67	8.67		35.09	35.09		74.2	73.7		5.16	5.12		7.91	7.95		6	<u> </u>
19/11/2013	1:40	Cloudy	Middle	3.0	22.90	22.90	22.75	8.37	8.37	8.38	35.10	35.10	35.15	66.0	65.7	65.6	4.65	4.63	4.63	9.26	9.24	<u>9.22</u>	6	6.00
	1:42		Middle	3.0	22.60	22.60		8.39	8.39		35.19	35.19		65.5	65.1		4.62	4.60		9.21	9.17		6	<u> </u>
21/11/2013	1:15	Cloudy	Middle	3.0	22.00	22.00	21.90	7.93	7.93	7.99	35.20	35.20	35.20	65.3	65.1	64.8	4.68	4.67	4.66	7.58	7.52	7.51	6	5.50
	1:17		Middle	3.0	21.80	21.80		8.04	8.04		35.19	35.19		64.7	64.2		4.65	4.62		7.49	7.43		5	<u> </u>
23/11/2013	1:52	Cloudy	Middle	3.0	22.60	22.60	22.50	8.41	8.41	8.41	35.27	35.27	35.27	67.0	66.7	66.5	4.75	4.73	4.71	8.23	8.16	8.15	6	6.50
	1:54		Middle	3.0	22.40	22.40		8.40	8.40		35.27	35.27		66.3	66.1		4.69	4.68		8.12	8.10		7	<u> </u>
26/11/2013	4:20	Fine	Middle	3.0	22.00	22.00	21.95	8.39	8.39	8.38	35.21	35.21	35.20	63.6	63.3	63.2	4.54	4.52	4.52	4.27	4.30	4.25	9	8.50
	4:22		Middle	3.0	21.90	21.90		8.37	8.37		35.18	35.18		63.1	62.8		4.51	4.49		4.23	4.19		8	

Remarks:

Single underline denotes exceedance over Action Level.

Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salini	y	D	O Satur	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	r	n	Va	-	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% Ilue	Average	Va	Iue Iue	Average	Va	lue	Average	m <u>c</u> Value	g/∟ Average
28/10/2013	6:37	Fine	Middle	3.0	24.60	24.60	24.40	8.39	8.39	8.40	34.73	34.73	34.73	63.8	63.7	63.5	4.37	4.37	4.35	4.33	4.29	4.28	3	3.00
28/10/2013	6:39	1 IIIe	Middle	3.0	24.20	24.20	24.40	8.40	8.40	0.40	34.73	34.73	34.73	63.3	63.1	03.3	4.34	4.33	4.55	4.27	4.24	4.20	3	3.00
30/10/2013	10:11	Fine	Middle	2.5	25.10	25.10	25.10	8.33	8.33	8.33	34.59	34.59	34.59	66.0	66.2	66.3	4.47	4.49	4.50	7.29	7.31	7.32	8	8.50
	10:13		Middle	2.5	25.10	25.10	20110	8.33	8.33	0.00	34.59	34.59	0 1.00	66.4	66.7	00.0	4.51	4.52		7.32	7.34		9	0.00
1/11/2013	10:56	Fine	Middle	2.5	25.00	25.00	25.00	8.32	8.32	8.32	34.57	34.58	34.57	63.6	63.5	63.2	4.32	4.30	4.30	5.70	5.71	5.72	5	5.00
	10:58		Middle	2.5	25.00	25.00		8.32	8.32		34.57	34.57		62.7	63.0		4.27	4.29		5.73	5.72		5	<u> </u>
4/11/2013	11:03	Cloudy	Middle	3.0	24.80	24.80	24.75	8.15	8.15	8.15	34.75	34.75	34.75	63.6	63.9	63.9	4.34	4.36	4.36	5.05	5.04	5.04	8	7.00
	11:05		Middle	3.0	24.70	24.70		8.15	8.15		34.75	34.75		64.1	64.0		4.38	4.37		5.03	5.04		6	
6/11/2013	14:24	Fine	Middle	2.5	25.40	25.40	25.40	8.37	8.37	8.37	34.87	34.87	34.87	69.7	71.7	71.0	4.73	4.76	4.75	6.36	6.35	6.35	7	7.50
	14:26		Middle	2.5	25.40	25.40		8.37	8.37		34.87	34.87		70.9	71.6		4.74	4.76		6.34	6.36		8	<u> </u>
8/11/2013	2:39	Fine	Middle	3.0	24.50	24.50	24.40	8.48	8.48	8.46	34.71	34.71	34.73	70.1	69.8	69.7	4.81	4.79	4.79	8.05	8.09	8.05	7	7.50
	2:41		Middle	3.0	24.30	24.30		8.44	8.44		34.74	34.74		69.6	69.3		4.78	4.76		8.07	7.99		8	<u> </u>
11/11/2013	5:41	Cloudy	Middle	2.5	24.50	24.50	24.45	8.49	8.49	8.48	34.96	34.96	34.96	73.4	73.2	73.0	5.02	5.01	5.00	4.32	4.27	4.27	5	5.00
	5:43		Middle	2.5	24.40	24.40		8.47	8.47		34.96	34.96		72.7	72.5		4.98	4.97		4.25	4.22		5	<u> </u>
13/11/2013	10:06	Cloudy	Middle	2.5	23.80	23.80	23.80	8.49	8.49	8.49	35.15	35.16	35.16	76.5	74.8	75.3	5.30	5.19	5.22	5.73	5.73	5.73	5	5.00
	10:08		Middle	2.5	23.80	23.80		8.49	8.49		35.15	35.16		74.8	75.2		5.18	5.20		5.73	5.74		5	<u> </u>
15/11/2013	11:16	Fine	Middle	2.5	24.00	24.00	24.00	8.58	8.58	8.58	35.88	35.88	35.88	71.2	71.1	71.4	4.91	4.91	4.93	8.04	8.01	8.01	8	7.00
	11:18		Middle	2.5	24.00	24.00		8.57	8.57		35.88	35.88		71.5	71.6		4.94	4.95		8.00	7.99		6	<u> </u>
19/11/2013	1:19	Cloudy	Middle	3.0	23.00 22.80	23.00	22.90	8.39	8.39	8.39	35.32	35.32	35.33	67.0	66.9	66.7	4.71	4.70	4.69	8.58	8.53	8.51	6	6.50
			Middle Middle	3.0 3.0		22.80 22.20		8.39	8.39		35.33	35.33 35.25		66.6	66.2		4.68	4.65		8.47	8.46		8	<u> </u>
21/11/2013	1:26	Cloudy	Middle	3.0	22.20 22.00	22.20	22.10	8.31 8.33	8.31 8.33	8.32	35.25 35.27	35.25	35.26	65.6 65.1	65.4 64.7	65.2	4.67 4.64	4.66 4.61	4.65	6.86 6.78	6.87 6.75	6.82	° 7	7.50
																								<u> </u>
23/11/2013		Cloudy					22.25			8.39			35.35			66.9			4.76			5.86		4.50
																								<u> </u>
26/11/2013		Fine					21.80			8.34			35.20			62.5			4.48			4.08		6.00
	2:06 2:08 4:32 4:34		Middle Middle Middle Middle	3.0 3.0 3.0 3.0	22.30 22.20 21.80 21.80	22.30 22.20 21.80 21.80		8.39 8.39 8.35 8.33	8.39 8.39 8.35 8.33		35.36 35.34 35.20 35.20	35.36 35.34 35.20 35.20		67.2 66.9 62.8 62.4	67.0 66.6 62.5 62.1		4.77 4.76 4.50 4.48	4.76 4.74 4.48 4.46		5.89 5.85 4.11 4.06	5.89 5.80 4.08 4.07		5 4 5 7	

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salinit ppt	y	D	O Satur %	ation		DO ma/L			Turbid NTL			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/10/2013	6:48	Fine	Middle	3.0	24.90	24.90	24.85	8.37	8.37	8.36	34.69	34.69	34.70	62.6	62.3	62.3	4.26	4.24	4.24	3.88	3.82	3.83	3	3.50
26/10/2013	6:49	Fille	Middle	3.0	24.80	24.80	24.00	8.38	8.30	0.30	34.70	34.70	34.70	62.2	61.9	02.3	4.24	4.22	4.24	3.80	3.80	3.03	4	3.50
30/10/2013	10:06	Fine	Middle	2.5	25.40	25.40	25.35	8.32	8.32	8.32	34.58	34.58	34.58	67.5	67.5	67.8	4.56	4.57	4.59	6.27	6.26	6.28	6	5.50
00,10,2010	10:08	T inte	Middle	2.5	25.30	25.30	20.00	8.32	8.32	0.02	34.58	34.58	04.00	67.8	68.2	01.0	4.59	4.62	4.00	6.29	6.31	0.20	5	0.00
1/11/2013	10:50	Fine	Middle	2.5	25.00	25.00	25.00	8.32	8.32	8.32	34.50	34.50	34.51	63.1	63.5	63.3	4.27	4.30	4.29	5.43	5.42	5.44	5	6.00
	10:51	-	Middle	2.5	25.00	25.00		8.32	8.32		34.51	34.51		62.8	63.8		4.26	4.32		5.44	5.45		7	
4/11/2013	11:11	Cloudy	Middle	3.0	24.80	24.80	24.80	8.24	8.24	8.24	34.74	34.74	34.74	66.4	66.7	67.0	4.52	4.55	4.56	5.54	5.55	5.56	4	4.50
	11:13		Middle	3.0	24.80	24.80		8.24	8.24		34.74	34.74		67.4	67.3		4.59	4.58		5.57	5.58		5	
6/11/2013	14:14	Fine	Middle	2.5	25.10	25.10	25.10	8.37	8.37	8.37	34.84	34.84	34.84	63.8	66.1	65.4	4.31	4.45	4.41	6.16	6.15	6.09	7	7.00
	14:16		Middle	2.5	25.10	25.10		8.37	8.37		34.84	34.83		65.9	65.6		4.46	4.43		6.02	6.01		7	
8/11/2013	2:55	Fine	Middle	3.0	24.60	24.60	24.55	8.51	8.51	8.47	34.76	34.76	34.77	64.2	64.0	63.9	4.39	4.38	4.38	4.84	4.83	4.82	7	7.00
	2:57		Middle	3.0	24.50	24.50		8.43	8.43		34.77	34.77		63.9	63.5		4.38	4.35		4.83	4.76		7	
11/11/2013	5:59	Cloudy	Middle	2.5	24.60	24.60	24.60	8.56	8.56	8.54	35.02	35.02	35.03	67.9	67.8	67.6	4.63	4.63	4.62	5.08	4.99	4.97	6	5.50
	6:02		Middle	2.5	24.60	24.60		8.52	8.52		35.04	35.04		67.5	67.2		4.61	4.59		4.92	4.88		5	
13/11/2013	9:56	Cloudy	Middle	2.5	24.00	24.00	24.00	8.49	8.49	8.49	35.17	35.17	35.17	73.3	74.6	73.8	5.04	5.12	5.07	6.66	6.66	6.66	8	8.00
	9:58		Middle	2.5	24.00	24.00		8.49	8.49		35.17	35.17		73.0	74.1		5.03	5.10		6.65	6.65		8	
15/11/2013	11:25	Fine	Middle	2.5	24.00	24.00	24.00	8.52	8.52	8.52	35.11	35.11	35.11	70.0	70.3	70.3	4.83	4.85	4.86	7.92	7.98	8.02	7	6.50
	11:27		Middle	2.5	24.00	24.00		8.52	8.52		35.11	35.11		70.5	70.5		4.86	4.89		8.05	8.11		6	
19/11/2013	1:08	Cloudy	Middle	3.0 3.0	23.10 22.90	23.10 22.90	23.00	8.38 8.38	8.38 8.38	8.38	35.24 35.25	35.24 35.25	35.25	66.6 65.4	66.1 65.0	65.8	4.67 4.60	4.64 4.58	4.62	7.34	7.36	7.39	7	6.50
	1:39		Middle	3.0	22.90	22.90		8.24	8.24		35.25	35.25		63.4	63.2		4.60	4.36		7.40	7.24		6	
21/11/2013	1:41	Cloudy	Middle	3.0	22.30	22.30	22.45	8.27	8.27	8.26	35.25	35.25	35.25	63.0	62.9	63.1	4.46	4.47	4.47	7.19	7.24	7.25	5	5.50
	2:19		Middle	3.0	22.50	22.50		8.39	8.39		35.32	35.32		65.2	64.9		4.61	4.59		5.67	5.59		5	
23/11/2013	2:10	Cloudy	Middle	3.0	22.50	22.50	22.50	8.39	8.39	8.39	35.32	35.32	35.32	64.8	64.5	64.9	4.59	4.57	4.59	5.54	5.48	5.57	4	4.50
	4:45		Middle	3.0	22.30	22.30		8.35	8.35		35.16	35.16		62.0	61.9		4.41	4.41		4.04	4.01		5	
26/11/2013	4:47	Fine	Middle	3.0	22.00	22.00	22.15	8.34	8.34	8.35	35.16	35.16	35.16	61.6	61.4	61.7	4.39	4.38	4.40	3.94	3.90	3.97	7	6.00

Remarks:

Single underline denotes exceedance over Action Level.

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

Date	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO			Turbid NTU			ed Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	lue	Average	mg Value	g/L Average
28/10/2013	6:56	Fine	Middle	3.0	24.60	24.60	24.45	8.39	8.39	8.40	34.71	34.71	34.70	63.1	63.0	62.8	4.33	4.32	4.31	5.41	5.39	5.36	4	4.00
20/10/2013	6:58	1 110	Middle	3.0	24.30	24.30	24.40	8.40	8.40	0.40	34.68	34.68	34.70	62.7	62.5	02.0	4.30	4.29	4.51	5.34	5.31	5.50	4	4.00
30/10/2013	10:00	Fine	Middle	2.5	25.20	25.20	25.20	8.33	8.33	8.33	34.58	34.58	34.58	64.5	64.9	65.0	4.37	4.40	4.41	6.73	6.75	6.79	7	6.50
30/10/2013	10:02	i ilie	Middle	2.5	25.20	25.20	23.20	8.33	8.33	0.55	34.58	34.58	54.50	65.0	65.7	03.0	4.41	4.46	4.41	6.84	6.85	0.79	6	0.50
1/11/2013	10:44	Fine	Middle	2.5	25.20	25.20	25.10	8.35	8.35	8.35	34.59	34.59	34.59	61.9	61.1	61.9	4.20	4.15	4.20	5.90	5.93	5.91	6	6.50
	10:46	1 110	Middle	2.5	25.00	25.00	20.10	8.34	8.34	0.00	34.58	34.58	01.00	62.8	61.7	0110	4.27	4.19		5.91	5.88	0.01	7	0.00
4/11/2013	11:15	Cloudy	Middle	3.0	25.00	25.00	25.00	8.27	8.27	8.27	34.75	34.75	34.75	65.1	65.4	65.3	4.42	4.44	4.44	4.61	4.62	4.65	5	5.50
	11:17	cicuaj	Middle	3.0	25.00	25.00	20.00	8.27	8.27	0.27	34.75	34.75	00	65.5	65.3	00.0	4.45	4.44		4.67	4.70		6	0.00
6/11/2013	14:08	Fine	Middle	2.5	25.10	25.15	25.11	8.37	8.37	8.37	34.86	34.87	34.87	67.1	66.9	67.2	4.54	4.52	4.55	7.41	7.40	7.38	8	8.50
	14:10		Middle	2.5	25.10	25.10		8.37	8.37		34.87	34.86		67.0	67.7		4.54	4.58		7.34	7.35		9	
8/11/2013	3:04	Fine	Middle	3.0	24.50	24.50	24.45	8.44	8.44	8.43	34.73	34.73	34.73	66.6	66.2	66.2	4.56	4.53	4.53	4.97	4.98	4.92	6	6.50
	3:05		Middle	3.0	24.40	24.40		8.42	8.42		34.73	34.73		66.0	65.8		4.52	4.51		4.86	4.85		7	
11/11/2013	6:08	Cloudy	Middle	2.5	24.50	24.50	24.45	8.46	8.46	8.46	35.03	35.03	35.03	69.1	68.8	68.7	4.72	4.71	4.71	4.50	4.42	4.43	6	5.00
	6:10	,	Middle	2.5	24.40	24.40		8.45	8.45		35.03	35.03		68.6	68.4		4.70	4.69		4.41	4.39		4	
13/11/2013	9:52	Cloudy	Middle	2.5	23.80	23.80	23.80	8.49	8.49	8.49	35.19	35.19	35.19	73.9	74.3	74.1	5.11	5.15	5.13	7.39	7.56	7.49	7	7.50
	9:54		Middle	2.5	23.80	23.80		8.49	8.49		35.18	35.19		74.3	73.9		5.14	5.12		7.53	7.47		8	
15/11/2013	11:30	Fine	Middle	2.5	24.10	24.10	24.10	8.50	8.50	8.50	35.10	35.10	35.10	70.5	70.2	70.8	4.85	4.83	4.87	7.96	7.95	7.98	6	6.50
	11:32		Middle	2.5	24.10	24.10		8.50	8.50		35.10	35.10		70.9	71.4		4.88	4.91		7.99	8.02		7	
19/11/2013	0:54	Cloudy	Middle	3.0	22.90	22.90	22.85	8.37	8.37	8.37	35.30	35.30	35.28	66.2	66.0	65.9	4.66	4.65	4.64	6.69	6.60	6.59	9	8.50
	0:56	-	Middle	3.0	22.80	22.80		8.37	8.37		35.26	35.26		65.7	65.5		4.63	4.62		6.55	6.52		8	<u> </u>
21/11/2013	1:47	Cloudy	Middle	3.0	22.30	22.30	22.25	8.34	8.34	8.34	35.34	35.34	35.30	66.7	66.5	66.4	4.73	4.72	4.71	7.54	7.48	7.46	8	7.50
	1:49	-	Middle	3.0	22.20	22.20		8.33	8.33		35.26	35.26		66.3	65.9		4.71	4.69		7.43	7.40		7	<u> </u>
23/11/2013	2:28	Cloudy	Middle	3.0	22.30	22.30	22.25	8.38	8.38	8.39	35.33	35.33	35.33	65.7	65.4	65.3	4.66	4.64	4.64	4.96	4.92	4.95	6	5.50
	2:30		Middle	3.0	22.20	22.20		8.39	8.39		35.33	35.33		65.2	64.8		4.63	4.61		4.95	4.98		5	<u> </u>
26/11/2013	4:53	Fine	Middle	3.0	21.90	21.90	21.80	8.35	8.34	8.34	35.18	35.18	35.18	63.2	63.0	62.9	4.51	4.50	4.49	4.31	4.29	4.28	3	4.00
	4:55		Middle	3.0	21.70	21.70		8.34	8.34		35.18	35.18		62.7	62.5		4.48	4.47		4.28	4.23		5	

Remarks:

Single underline denotes exceedance over Action Level.



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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	C	O Satur %	ration		DO ma/L			Turbid NTL		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	llue	Average	Va	alue	Average	Va		Average	Va	alue	Average		Average
	5:23		Middle	3.5	23.20	23.20		8.10	8.10		32.39	32.39		74.7	74.5		5.30	5.34		3.87	3.94		3	
28/10/2013	5:24	Fine	Middle	3.5	23.20	23.20	23.20	8.11	8.11	8.11	32.41	32.41	32.40	75.3	75.0	74.9	5.36	5.32	5.33	3.88	3.78	3.87	2	2.50
30/10/2013	11:00	Fine	Middle	3.5	25.74	25.74	26.54	7.56	7.56	7.55	33.30	33.30	33.30	92.2	92.0	91.9	6.22	6.21	6.21	7.26	7.34	7.30	4	4.00
30/10/2013	11:02	Tine	Middle	3.5	25.83	28.83	20.34	7.54	7.54	1.55	33.30	33.30	55.50	91.8	91.7	51.5	6.20	6.19	0.21	7.32	7.26	7.00	4	4.00
1/11/2013	11:45	Fine	Middle	3.5	25.77	25.77	25.79	7.46	7.46	7.46	33.45	33.45	33.45	61.2	61.3	61.4	4.13	4.13	4.14	4.73	4.59	4.62	4	4.50
	11:47	-	Middle	3.5	25.80	25.80		7.45	7.45		33.44	33.44		61.5	61.7		4.14	4.16		4.59	4.56	_	5	
4/11/2013	14:20	Cloudy	Middle	3.5	24.78	24.78	24.78	7.66	7.66	7.66	33.30	33.30	33.32	73.5	73.5	73.5	5.05	5.04	5.04	5.32	5.34	5.33	4	4.00
	14:22	0.0003	Middle	3.5	24.77	24.77	20	7.66	7.66		33.34	33.34	00.02	73.4	73.4	1010	5.04	5.04	0.01	5.34	5.33	0.00	4	
6/11/2013	13:35	Fine	Middle	3.5	25.60	25.60	25.63	7.54	7.54	7.54	33.59	33.59	33.57	71.0	71.0	71.0	4.80	4.80	4.80	5.37	5.38	5.33	5	4.50
	13:37		Middle	3.5	25.65	25.65		7.54	7.54		33.55	33.55		71.0	70.9		4.81	4.79		5.31	5.24		4	
8/11/2013	4:13	Fine	Middle	3.0	23.80	23.80	23.75	8.09	8.09	8.09	32.53	32.53	32.54	71.9	72.3	72.2	5.08	5.08	5.08	3.33	3.13	3.22	6	5.00
	4:14	-	Middle	3.0	23.70	23.70		8.09	8.09		32.55	32.55		72.2	72.2		5.08	5.08		3.17	3.23	-	4	
11/11/2013	5:15	Cloudy	Middle	3.0	24.40	24.40	24.40	8.12	8.12	8.13	32.79	32.79	32.79	73.0	74.1	74.1	5.07	5.14	5.15	4.85	5.11	4.87	6	5.00
	5:16	,	Middle	3.0	24.40	24.40		8.13	8.13		32.79	32.79		74.8	74.6		5.19	5.18		4.79	4.71	_	4	
13/11/2013	10:35	Cloudy	Middle	3.5	23.65	23.65	23.57	7.76	7.76	7.77	33.77	33.77	33.83	64.7	64.7	64.7	4.53	4.53	4.53	4.31	4.30	4.32	5	6.00
	10:37		Middle	3.5	23.49	23.49		7.77	7.77		33.88	33.88		64.7	64.8		4.53	4.54		4.30	4.36		7	
15/11/2013	11:35	Fine	Middle	3.5	24.14	24.14	24.14	7.64	7.64	7.64	33.82	33.82	33.82	66.6	66.7	66.7	4.61	4.61	4.61	3.44	3.45	3.41	5	4.50
	11:37		Middle	3.5	24.14	24.14		7.64	7.64		33.82	33.82		66.7	66.8		4.61	4.62		3.38	3.37		4	
19/11/2013	2:35	Cloudy	Middle	3.0	21.40	21.40	21.40	7.96	7.96	7.97	32.48	32.48	32.48	64.9	67.5	67.5	4.75	4.91	4.94	4.34	4.13	4.28	10	10.50
	2:36		Middle	3.0	21.40	21.40		7.97	7.97		32.48	32.48		68.8	68.9		5.05	5.05		4.36	4.30		11	
21/11/2013	2:15	Cloudy	Middle	3.0	21.30	21.30	21.30	8.09	8.09	8.10	32.96	32.96	32.96	74.8	75.2	75.6	5.47	5.51	5.53	3.79	3.87	3.78	4	4.00
	2:16		Middle	3.0	21.30	21.30		8.10	8.10		32.96	32.96		76.3	75.9		5.58	5.55		3.84	3.61		4	
23/11/2013	2:10	Cloudy	Middle	3.0	21.90	21.90	21.85	7.88	7.88	7.90	32.80	32.81	32.81	69.2	70.0	69.9	5.01	5.07	5.07	2.33	2.21	2.25	5	4.50
	2:11		Middle	3.0	21.80	21.80		7.92	7.92		32.81	32.82		70.3	70.2		5.10	5.09		2.20	2.24		4	
26/11/2013	3:35	Fine	Middle	3.0	21.00	21.00	21.00	8.14	8.14	8.14	32.95	32.92	32.95	69.9	71.6	70.1	5.14	5.27	5.41	3.39	3.37	3.40	7	7.50
	3:36		Middle	3.0	21.00	21.00		8.14	8.14	-	32.97	32.95		68.0	70.7		5.01	6.21	-	3.41	3.43		8	

Remarks:

Single underline denotes exceedance over Action Level.



Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit ppt	y	D	O Satu	ration		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppi	Average	Va	alue	Average	Va		Average	Va	alue	Average		g/∟ Average
00/40/0040	7:37	F ire e	Middle	1.5	24.20	24.20	04.40	8.32	8.32	0.01	32.73	32.73	00.74	48.6	48.3	40.0	3.39	3.37		7.83	7.90	7.04	8	
28/10/2013	7:39	Fine	Middle	1.5	24.00	24.00	24.10	8.29	8.29	8.31	32.69	32.69	32.71	48.1	47.7	48.2	3.36	3.33	<u>3.36</u>	7.95	7.96	7.91	8	8.00
30/10/2013	9:26	Fine	Middle	2.0	25.50	25.50	25.45	8.42	8.42	8.39	33.37	33.37	33.37	57.6	58.0	58.5	3.93	3.95	3.99	8.85	8.84	9.94	5	5.50
30/10/2013	9:28	FINE	Middle	2.0	25.40	25.40	25.45	8.36	8.36	0.39	33.37	33.37	33.37	59.0	59.5	56.5	4.01	4.05	3.99	8.83	8.82	<u>8.84</u>	6	5.50
1/11/2013	10:10	Fine	Middle	2.0	25.30	25.30	25.30	8.43	8.43	8.43	33.48	33.48	33.48	56.0	57.0	56.7	3.83	3.89	3.87	6.15	6.14	6.13	5	5.50
1/11/2010	10:12	T IIIC	Middle	2.0	25.30	25.30	20.00	8.42	8.44	0.40	33.48	33.48	00.40	56.7	56.9	00.1	3.88	3.89	0.07	6.10	6.11	0.10	6	0.00
4/11/2013	11:48	Cloudy	Middle	2.0	25.20	25.20	25.20	8.35	8.35	8.35	33.52	33.52	33.52	61.7	62.0	62.2	4.21	4.23	4.25	6.27	6.29	6.31	13	12.00
	11:50		Middle	2.0	25.20	25.20		8.35	8.35		33.52	33.52		62.3	62.9		4.25	4.29		6.33	6.34		11	
6/11/2013	13:34	Fine	Middle	2.0	25.40	25.30	25.33	8.31	8.32	8.32	33.06	33.06	33.06	62.5	62.6	62.4	4.26	4.27	4.26	4.29	4.29	4.29	6	7.00
	13:36		Middle	2.0	25.30	25.30		8.32	8.32		33.06	33.06		62.5	61.8		4.26	4.25		4.29	4.29		8	
8/11/2013	3:47	Fine	Middle	1.5	24.50	24.50	24.45	8.32	0.32	6.32	33.58	33.58	33.63	53.2	53.0	52.9	3.67	3.66	<u>3.65</u>	2.31	2.27	2.28	6	6.00
	3:49	-	Middle	1.5	24.40	24.40		8.31	8.31		33.68	33.68		52.8	52.5		3.65	3.63		2.28	2.24		6	
11/11/2013	6:57	Cloudy	Middle	1.5	24.70	24.70	24.65	8.33	8.33	8.31	34.26	34.26	34.26	47.7	47.4	47.2	3.27	3.25	<u>3.24</u>	3.35	3.34	3.32	8	8.00
	6:59	-	Middle	1.5	24.60	24.60		8.29	8.29		34.25	34.25		47.1	46.5		3.23	3.19		3.34	3.26		8	
13/11/2013	9:23	Cloudy	Middle	1.5	24.10	24.10	24.10	8.45	8.45	8.45	34.31	34.31	34.31	58.3	59.4	58.9	4.03	4.11	4.07	8.79	8.77	8.77	11	11.50
	9:25		Middle	1.5	24.10	24.10		8.45	8.45		34.31	34.31		58.4	59.5		4.04	4.09		8.77	8.76		12	
15/11/2013	11:58	Fine	Middle	1.5	23.90	23.90	23.85	8.42	8.42	8.42	34.47	34.47	34.47	58.9	59.2	59.4	4.08	4.12	4.12	9.60	9.61	<u>9.61</u>	19	<u>19.00</u>
	12:00		Middle	1.5	23.80	23.80		8.42	8.42		34.47	34.47		59.7	59.8		4.14	4.15		9.62	9.62		19	
19/11/2013	0:07	Cloudy	Middle	3.0	23.30	23.30	23.20	8.33	8.33	8.34	35.04	35.04	35.04	58.7	58.4	58.3	4.11	4.09	4.09	4.14	4.11	4.10	6	6.00
	0:09		Middle	3.0	23.10	23.10		8.34	8.34		35.04	35.04		58.2	57.9		4.08	4.06		4.10	4.05		6	
21/11/2013	2:33	Cloudy	Middle	2.0	22.50	22.50	22.45	8.37	8.37	8.37	35.21	35.21	35.21	62.8	62.3	62.1	4.44	4.41	4.40	2.84	2.73	2.73	4	3.00
	2:35		Middle	2.0	22.40	22.40		8.37	8.37		35.21	35.21		61.7	61.4		4.38	4.36		2.70	2.64		2	
23/11/2013	3:20	Cloudy	Middle	2.0	22.50	22.50	22.40	8.33	8.33	8.32	34.34	34.34	34.33	47.9	47.6	47.3	3.43	3.41	<u>3.40</u>	1.94	1.92	1.90	<2	<2
	3:22		Middle	2.0	22.30	22.30		8.31	8.31		34.31	34.31		47.1	46.6		3.38	3.36		1.88	1.84		<2	<u> </u>
26/11/2013	5:31	Fine	Middle	1.5	22.10	22.10	22.00	8.29	8.29	8.29	32.56	32.56	32.57	52.7	52.4	52.2	3.82	3.80	3.79	4.30	4.24	4.25	4	3.50
	5:33		Middle	1.5	21.90	21.90		8.28	8.28		32.57	32.57		52.0	51.8		3.78	3.77		4.24	4.22		3	

Remarks:

Single underline denotes exceedance over Action Level.



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

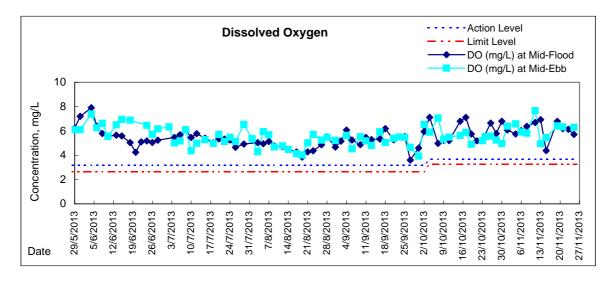
Date	Time	Weater Condition	Sampling Depth m		Wat	er Temp °C	erature pH			Salinity ppt		ty	C	O Satur %	ation	DO mg/L			Turbidity NTU			Suspended Solids mg/L		
			ſ	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/10/2013	5:45	Fine	Middle	1.5	23.70	23.70	23.65	7.98	7.98	7.99	32.18	32.18	32.18	73.1	73.3	72.9	5.18	5.19	5.16	5.46	5.43	5.35	4	4.50
	5:46		Middle	1.5	23.60	23.60		8.00	8.01		32.18	32.18		73.0	72.2		5.16	5.10		5.20	5.31		5	
30/10/2013	10:30	Fine	Middle	3.0	26.02	26.02	26.02	7.54	7.54	7.54	33.39	33.39	33.39	50.6	51.1	51.1	3.41	3.43	<u>3.43</u>	11.26	11.14	11.12	11	11.50
	10:32	-	Middle	3.0	26.02	26.02		7.54	7.54		33.39	33.39		51.2	51.4		3.44	3.45		11.06	11.02		12	
1/11/2013	11:25	Fine	Middle	3.0	26.19	26.19	26.19	7.42	7.42	7.42	33.44	33.44	33.46	60.7	61.0	61.4	4.06	4.08	4.11	11.12	11.24	11.25	10	10.00
	11:27		Middle	3.0	26.19	26.19		7.41	7.41		33.47	33.47		61.8	61.9		4.14	4.15		11.31	11.33		10	<u> </u>
4/11/2013	13:50	Cloudy	Middle	3.0	25.16	25.16	25.17	7.73	7.73	7.72	33.34	33.34	33.35	98.7	98.1	97.7	6.72	6.69	6.66	14.75	14.65	15.57	7	8.00
	13:52		Middle	3.0	25.17	25.17		7.71	7.71	-	33.35	33.35		97.1	96.7		6.62	6.59		16.44	16.45		9	0.00
6/11/2013	13:15	Fine	Middle	3.0	25.45	25.45	25.47	7.56	7.56	7.56	33.37	33.37	33.37	88.3	87.8	87.6	5.99	5.95	5.94	8.00	7.88	7.91	8	7.00
	13:17		Middle	3.0	25.48	25.48		7.55	7.55		33.36	33.36		87.3	87.1		5.92	5.91		7.87	7.87		6	<u> </u>
8/11/2013	4:55	Fine	Middle	1.5	24.00	24.00	23.98	8.00	8.00	8.01	32.26	32.26	32.26	80.3	80.4	80.4	5.63	5.64	5.64	4.43	4.55	4.49	7	6.50
	4:56		Middle	1.5	23.90	24.00		8.01	8.01		32.26	32.26		80.4	80.5		5.64	5.65		4.47	4.49		6	<u> </u>
11/11/2013	5:40	Cloudy	Middle	1.5	24.20	24.20	24.20	8.07	8.07	8.08	32.54	32.54	32.54	75.6	78.3	77.4	5.27	5.47	5.40	4.81	4.59	4.64	4	4.00
	5:41		Middle	1.5	24.20	24.20		8.08	8.08		32.54	32.54		78.0	77.6		5.44	5.42		4.67	4.49		4	<u> </u>
13/11/2013	10:05	Cloudy	Middle	3.0	23.46	23.46	23.38	7.77	7.77	7.77	33.83	33.83	- 33.87	69.1	69.1	69.1	4.85	4.85	4.84	9.46	9.45	<u>9.45</u>	19	<u>18.50</u>
	10:07		Middle	3.0	23.30	23.30		7.77	7.77		33.91	33.91		69.1	69.0		4.84	4.83		9.45	9.44		18	
15/11/2013	11:25	Fine	Middle	3.0	23.92	23.92	23.93	7.55	7.55	7.55	33.80	33.80	33.80	69.5	69.3	69.2	4.82	4.81	4.81	6.61	6.59	6.59	11	11.00
	11:27		Middle	3.0	23.93	23.93		7.55	7.55		33.80	33.80		69.1	69.0		4.80	4.80		6.57	6.58		11	1
19/11/2013	4:30	Cloudy	Middle	1.5	21.50	21.50	21.50	8.14	8.14	8.14	32.74	32.74	32.74	65.8	67.4	67.3	4.33	4.92	4.80	6.39	6.33		5	5.00
	4:31		Middle	1.5	21.50	21.50		8.14	8.14		32.74	32.74		67.5	68.4		4.93	5.00		6.24	6.28		5	<u> </u>
21/11/2013	4:30 4:31	Cloudy	Middle	1.5	21.50	21.50	21.45	7.91	7.91	7.92	32.47	32.47	32.52	73.6	75.0	74.1	5.39	5.50	5.43	5.51	5.49 5.30	5.43	5	6.00
	_			1.5	21.40	21.40		7.93	7.93		32.57	32.57		73.6	74.0	78.9	5.39	5.42		5.41		5.26		<u> </u>
23/11/2013	4:31	Cloudy	Middle	1.5	21.60	21.60	21.55	7.92	7.92	7.94	32.74	32.73	32.74	78.2	79.0		5.71	5.77	5.76	5.56	5.11		4	5.00
	4:32		Middle Middle	1.5	21.50	21.50		7.96	7.96		32.75	32.75	32.82	79.5	79.0	77.3	5.80	5.77		5.18	5.20		6	<u> </u>
26/11/2013	6:10 6:11	Fine	Middle	1.5	21.00	21.00 21.00	21.00	7.93 7.95	7.93 7.95	7.94	32.81	32.81 32.82		77.1 77.5	77.6		5.69	5.70 5.70	5.71	4.41	4.37 4.18	4.30	5	4.00
	6:11		Miadie	1.5	21.00	21.00		7.95	7.95		32.82	32.82		//.5	77.1		5.73	ə.70		4.24	4.18		3	

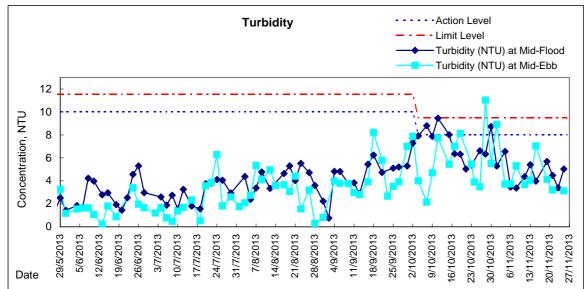
Remarks:

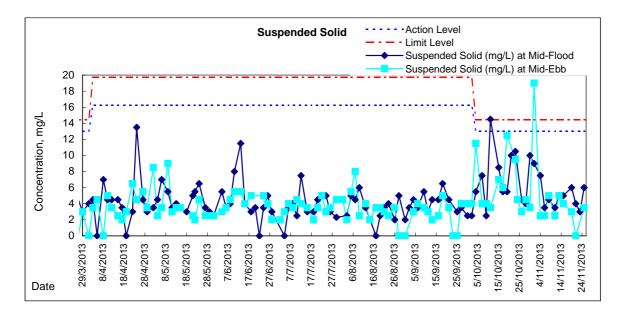
Single underline denotes exceedance over Action Level.

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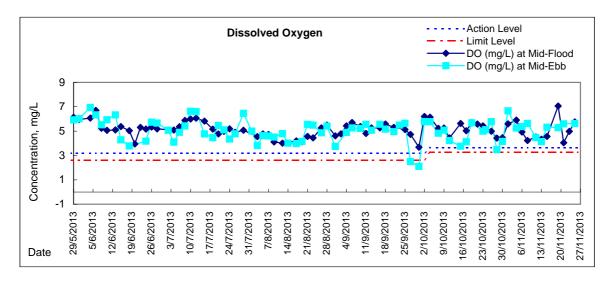
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

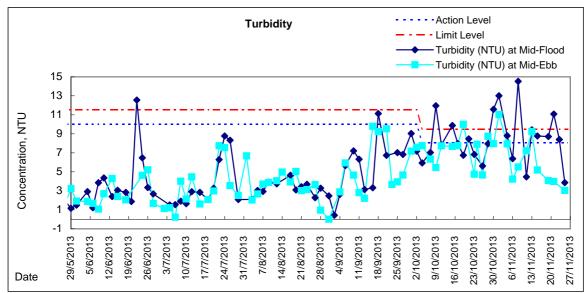


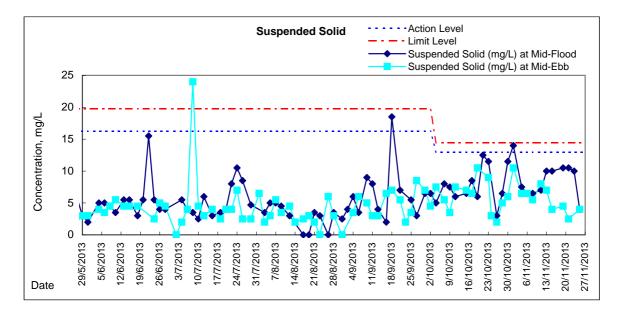


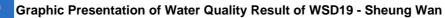


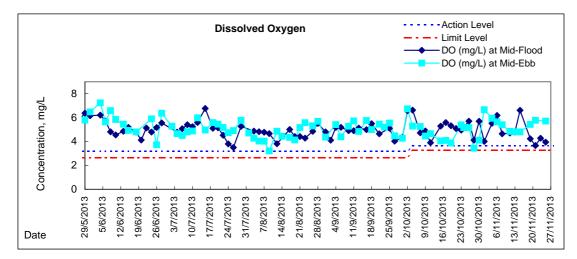
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

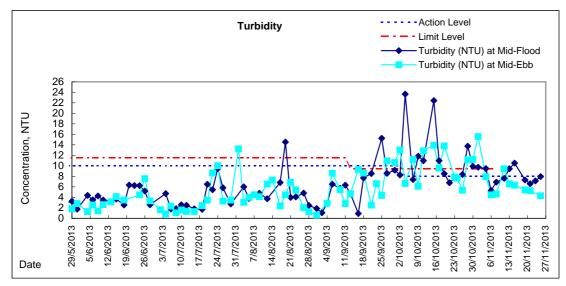


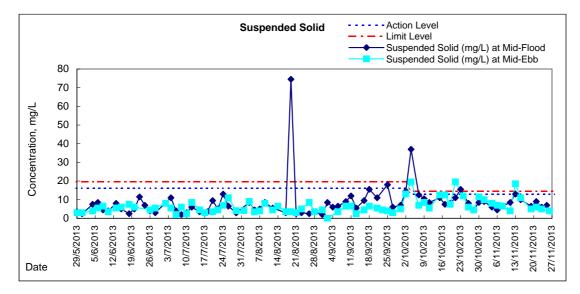


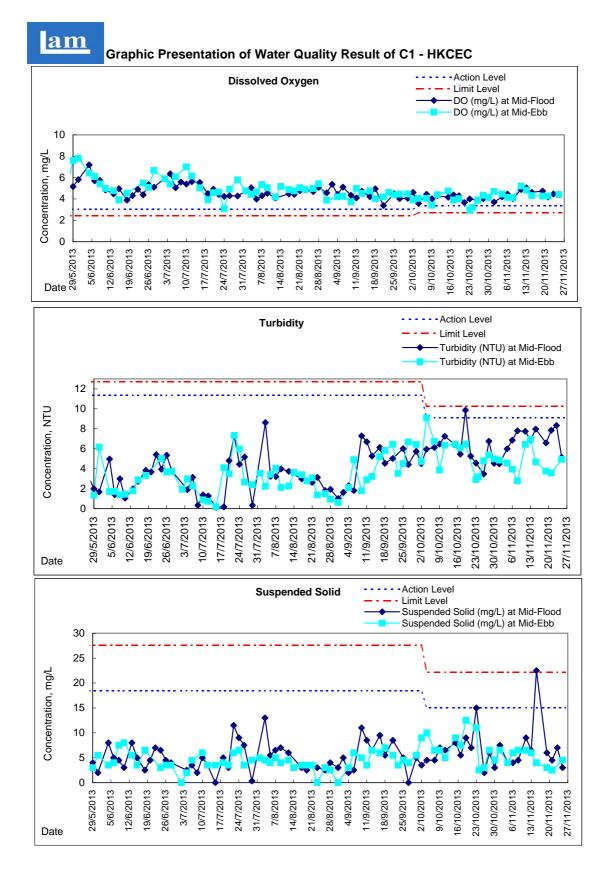




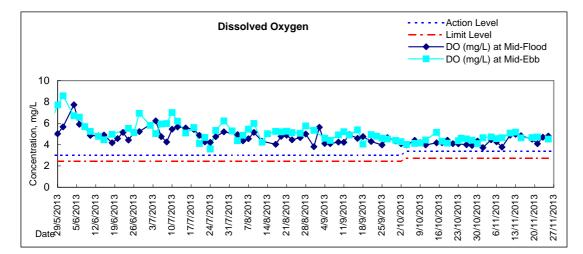


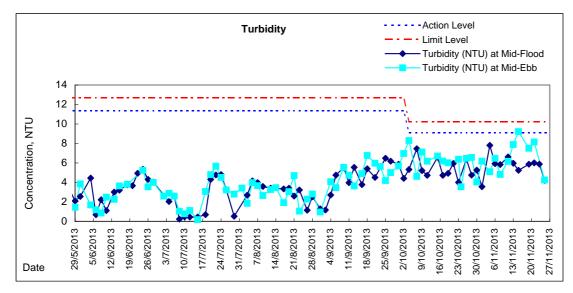


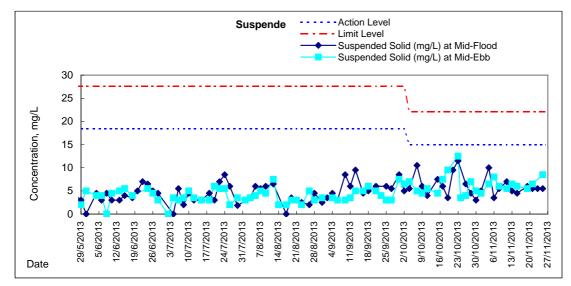




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

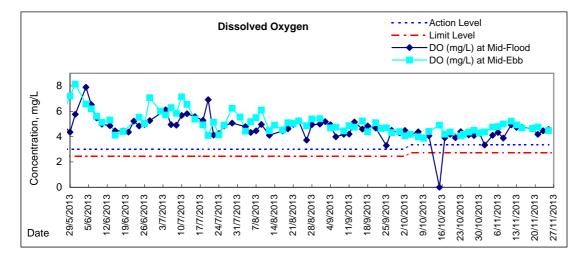


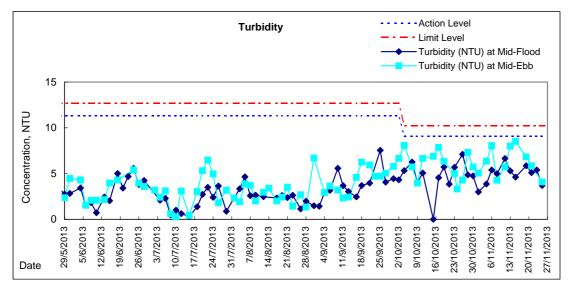


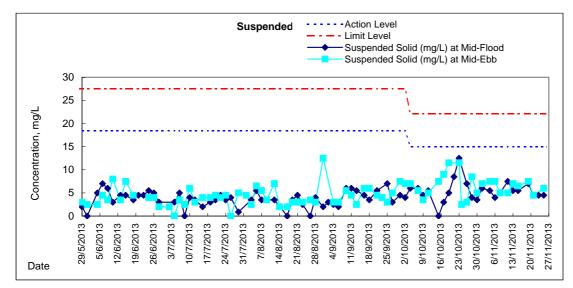


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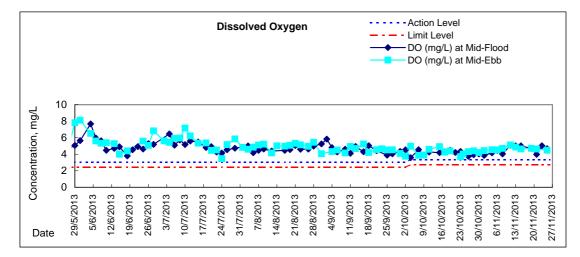
Graphic Presentation of Water Quality Result of P3 - APA

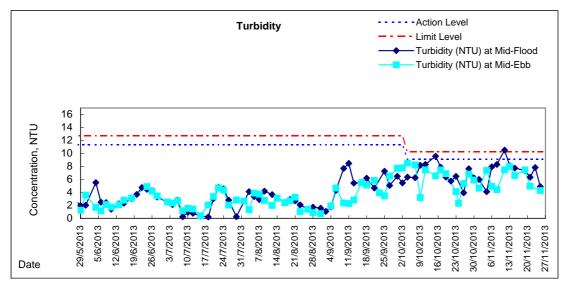


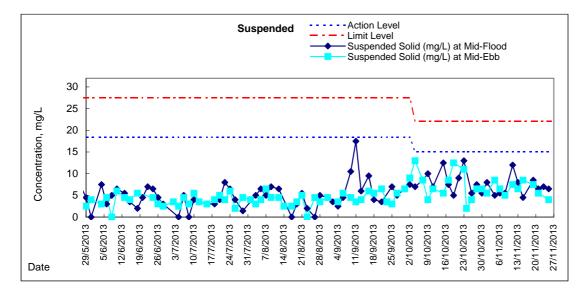


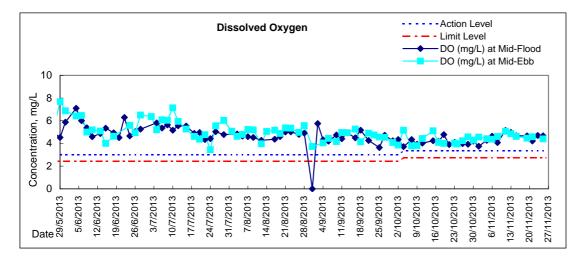


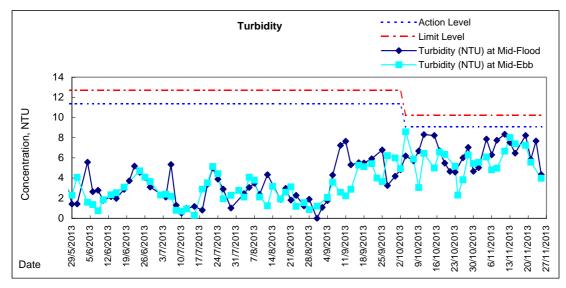
Graphic Presentation of Water Quality Result of P4 - SOC

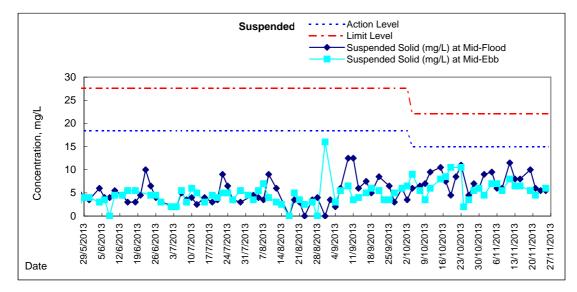




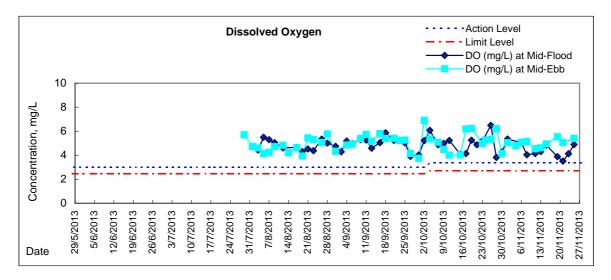


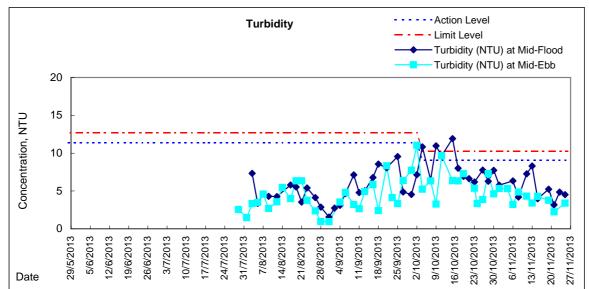


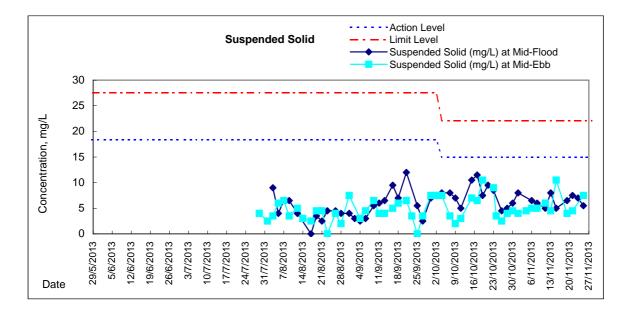


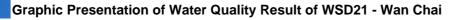


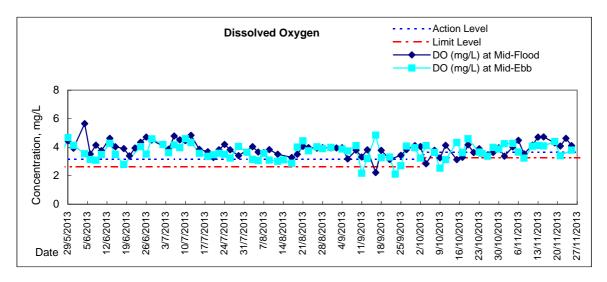
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

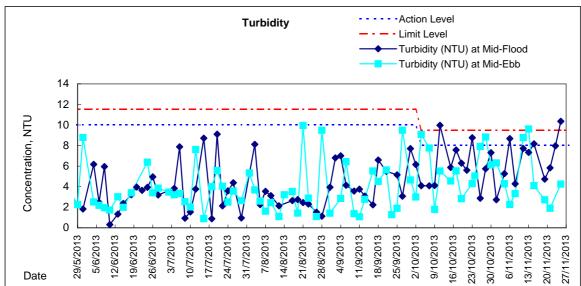


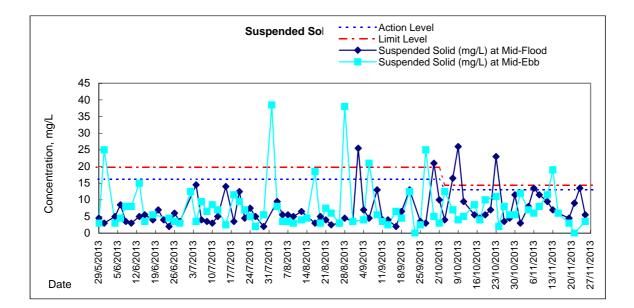






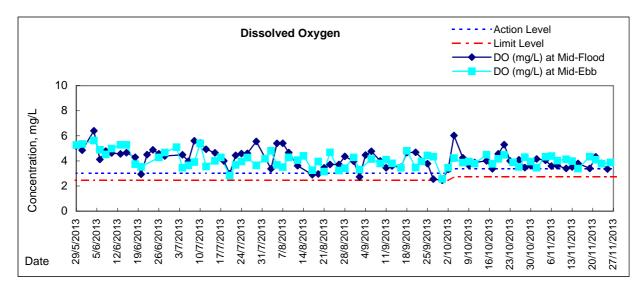


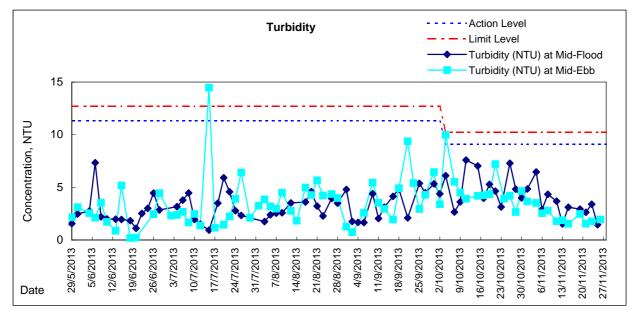


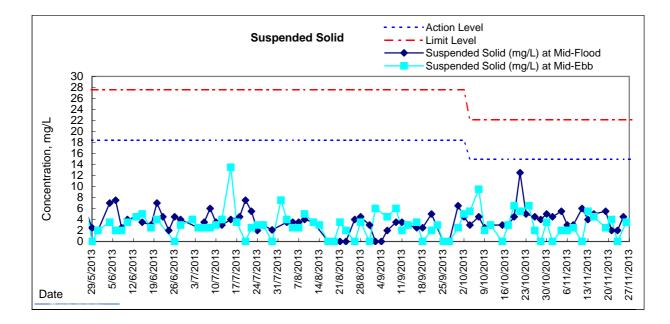




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Time Weater Sampling Depth Water Temperature pH Salinity DO Saturation DO																			
Date	Time	Weater Condition	Sampling Depth		Wat	er Temp °C	erature		pH -			Salinit ppt	у	DO Saturation %					
		Condition	n	n	Value		Average	Va	lue	Average	Value		Average	Value		Average	m Value		Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	15:00	Fine	Middle	1.5	25.82	25.82	25.8	7.37	7.37	7.4	32.28	32.28	32.3	56.9	56.2	56.6	3.86	3.81	3.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	15:15	Fine	Middle	1.5	26.21	26.21	26.2	7.31	7.31	7.3	32.46	32.46	32.5	56.2	56.6	56.4	3.78	3.81	3.80
	-		Bottom	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	16:00	Fine	Middle	1.5	25.94	25.94	25.9	7.21	7.21	7.2	32.46	32.46	32.5	72.6	71.9	72.3	4.91	4.86	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	19:22	Cloudy	Middle	1.5	23.80	23.80	23.8	7.79	7.79	7.8	31.32	31.32	31.3	67.5	68.4	68.0	4.77	4.83	4.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	11:15	Fine	Middle	1.5	25.15	25.15	25.2	7.52	7.52	7.5	32.64	32.64	32.6	60.8	60.8	60.8	4.16	4.15	4.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:10		Surface	1.0	25.43	25.43	25.4	7.37	7.37	7.4	32.72	32.72	32.7	53.9	54.0	54.0	3.67	3.67	3.67
8/11/2013	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:12		Bottom	3.0	25.01	25.01	25.0	7.31	7.31	7.3	32.69	32.69	32.7	54.3	54.4	54.4	3.69	3.70	3.70
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/11/2013	14:55	Cloudy	Middle	1.5	24.67	24.67	24.7	7.58	7.58	7.6	33.02	33.02	33.0	69.7	69.5	69.6	4.80	4.79	4.80
	_	,	Bottom	-	_	_	-	-	-	-	-	-	-	_	-	-	-	-	-
	-		Surface	-	-	_		-	-		_		-					-	-
13/11/2013	14:45	Cloudy	Middle	1.5	23.73	23.73	23.7	7.74	7.74	7.7	32.55	32.55	32.6	56.4	56.4	56.4	3.96	3.96	3.96
	-		Bottom	-				-	-	-	-			_	-	_	-	-	-
	15:40	10	Surface	1.0	24.40	24.40	24.4	7.61	7.61	7.6	32.89	32.89	32.9	57.1	57.0	57.1	3.95	3.95	3.95
15/11/2013	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/11/2013	15:42	1 IIIG																	
	-		Bottom Surface	3.0	- 24.40	- 24.42	- 24.4	7.60	7.60	7.6	32.89	32.89	32.9	64.8 -	65.1 -	65.0 -	4.48	4.52	4.50
19/11/2013		Fine			22.98							- 32.95							
13/11/2013	9:50		Middle	1.5	- 22.98	22.98	23.0	7.60	7.60	7.6	32.95	- 32.95	33.0	62.8 -	62.6 -	62.7 -	4.46	4.44	4.45
			Bottom					-	-		-		-						
04/44/0010	-	F '	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/11/2013	10:55	Fine	Middle	1.5	22.54	22.54	22.5	7.36	7.36	7.4	32.96	32.96	33.0	68.5	68.5	68.5	4.89	4.90	4.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/11/2013	11:30		Middle	1.5	22.83	22.83	22.8	7.60	7.60	7.6	33.43	33.43	33.4	58.7	57.4	58.1	4.17	4.08	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/11/2013	12:35	Fine	Middle	1.5	22.55	22.55	22.6	7.45	7.45	7.5	32.67	32.67	32.7	57.8	58.2	58.0	4.14	4.17	4.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

					1			1			1			1			1		
Date	Time	Weater Condition	Sampling Depth		Wat	<u>er Temp</u> ℃	perature		pH -			Salinit ppt	у	D	O Satur %	ation			
		Senation		n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	mg/L Ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	15:05	Fine	Middle	1.5	25.76	25.76	25.8	7.29	7.29	7.3	32.64	32.64	32.6	48.3	48.2	48.3	3.26	3.26	<u>3.26</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	15:25	Fine	Middle	1.5	25.99	25.99	26.0	7.22	7.22	7.2	32.66	32.66	32.7	49.2	49.7	49.5	3.31	3.35	<u>3.33</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	16:04	Fine	Middle	1.5	26.00	26.00	26.0	7.08	7.08	7.1	31.95	31.95	32.0	63.7	63.1	63.4	4.31	4.27	4.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	19:08	Cloudy	Middle	1.5	23.90	23.90	23.9	8.20	8.20	8.2	29.10	29.10	29.1	56.5	56.5	56.5	4.04	4.04	4.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	11:25	Fine	Middle	1.5	25.16	25.16	25.2	7.45	7.45	7.5	32.72	32.72	32.7	51.3	51.2	51.3	3.51	3.51	<u>3.51</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2013	12:20	Fine	Middle	1.5	25.76	25.76	25.8	7.28	7.28	7.3	32.88	32.88	32.9	50.6	50.7	50.7	3.42	3.44	<u>3.43</u>
	-		Bottom	-	-	_	-	-	-	-	-	_	-	-	_	-	_	_	
			Surface		-	-	_		-		_	-			-		_		-
11/11/2013	15:00	Cloudy	Middle	1.5	24.77	24.77	24.8	7.53	7.53	7.5	32.97	32.97	33.0	48.4	48.4	48.4	3.33	3.33	<u>3.33</u>
1.1.1.1.2010	-	cloudy	Bottom	-	-	-	-	-	-	-	-	-	-	0-			-	-	-
			Surface		_	-		_	_		-	_			_		-	-	-
13/11/2013		Cloudy				23.79						32.68			48.0				
13/11/2013	14:50		Middle	1.5	23.79		23.8	7.71	7.71	7.7	32.68		32.7	47.8		47.9	3.35	3.36	<u>3.36</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/11/2013	15:50	Fine	Middle	1.5	24.35	24.35	24.4	7.53	7.53	7.5	32.92	32.92	32.9	55.5	54.8	55.2	3.81	3.80	<u>3.81</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2013	10:05	Fine	Middle	1.5	22.91	22.91	22.9	7.58	7.58	7.6	33.23	33.23	33.2	47.2	47.1	47.2	3.35	3.34	<u>3.35</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/11/2013	11:05	Fine	Middle	1.5	22.52	22.52	22.5	7.50	7.50	7.5	33.10	33.10	33.1	63.7	63.2	63.5	4.55	4.52	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/11/2013	11:45		Middle	1.5	22.83	22.83	22.8	7.58	7.58	7.6	33.55	33.55	33.6	61.5	58.5	60.0	4.36	4.15	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/11/2013	12:50	Fine	Middle	1.5	22.65	22.65	22.7	7.34	7.34	7.3	32.86	32.86	32.9	49.7	48.5	49.1	3.55	3.47	<u>3.51</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1		1	1	1	1	1	1	1	1	I	1	1	1	1	1	1	I	1

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

<table-container></table-container>			ood lide																	
Normal	Date	Time		Sampling Depth		Wat	er Temp	erature						у						
Image Image <td>Date</td> <td></td> <td>Condition</td> <td>r</td> <td>n</td> <td>Va</td> <td></td> <td>Average</td> <td>Va</td> <td></td> <td>Average</td> <td>Va</td> <td></td> <td>Average</td> <td>Va</td> <td></td> <td colspan="2"></td> <td></td> <td></td>	Date		Condition	r	n	Va		Average	Va		Average	Va		Average	Va					
Image Image <t< td=""><td rowspan="3">28/10/2013</td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>	28/10/2013	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14:47	Fine	Middle	1.5	25.16	25.16	25.2	7.27	7.27	7.3	28.05	28.05	28.1	72.9	73.9	73.4	5.13	5.20	5.17
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image image <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<table-container> 1 1 2 2 2 2 2 2 3</table-container>	30/10/2013	14:57	Fine	Middle	1.5	25.54	25.54	25.5	7.39	7.39	7.4	31.18	31.18	31.2	50.2	50.0	50.1	3.45	3.43	<u>3.44</u>
<table-container> 1111010 1540</table-container>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
indical <		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image Image <t< td=""><td>1/11/2013</td><td>15:50</td><td>Fine</td><td>Middle</td><td>1.5</td><td>25.83</td><td>25.83</td><td>25.8</td><td>7.27</td><td>7.27</td><td>7.3</td><td>30.79</td><td>30.79</td><td>30.8</td><td>76.0</td><td>75.4</td><td>75.7</td><td>5.20</td><td>5.14</td><td>5.17</td></t<>	1/11/2013	15:50	Fine	Middle	1.5	25.83	25.83	25.8	7.27	7.27	7.3	30.79	30.79	30.8	76.0	75.4	75.7	5.20	5.14	5.17
<table-container> 111000 1000 1000 100 100 200 200 200 200 300 300 200 200 10 100<</table-container>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
image image <t< td=""><td></td><td>-</td><td></td><td>Surface</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ind ind <td>4/11/2013</td> <td>20:45</td> <td>Cloudy</td> <td>Middle</td> <td>1.5</td> <td>23.90</td> <td>23.90</td> <td>23.9</td> <td>8.01</td> <td>8.01</td> <td>8.0</td> <td>22.02</td> <td>22.02</td> <td>22.0</td> <td>30.6</td> <td>31.3</td> <td>31.0</td> <td>2.27</td> <td>2.30</td> <td><u>2.29</u></td>	4/11/2013	20:45	Cloudy	Middle	1.5	23.90	23.90	23.9	8.01	8.01	8.0	22.02	22.02	22.0	30.6	31.3	31.0	2.27	2.30	<u>2.29</u>
1 1		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1112 1114 1144 1145 124					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
image image <t< td=""><td>6/11/2013</td><td>11:07</td><td>Fine</td><td>Middle</td><td>1.5</td><td>25.04</td><td>25.04</td><td>25.0</td><td>7.53</td><td>7.53</td><td>7.5</td><td>30.01</td><td>30.01</td><td>30.0</td><td>64.8</td><td>64.7</td><td>64.8</td><td>4.51</td><td>4.51</td><td>4.51</td></t<>	6/11/2013	11:07	Fine	Middle	1.5	25.04	25.04	25.0	7.53	7.53	7.5	30.01	30.01	30.0	64.8	64.7	64.8	4.51	4.51	4.51
11 21 50 2.0	5,11/2010	_		Bottom	-			-	-	-	-	_	-	-	-		-	-		
11120 11140 11140 1114					-	-				-		_		-			_		_	
<table-container> ind ind<td rowspan="2">8/11/2013</td><td>12.02</td><td>Fine</td><td></td><td>15</td><td>25.38</td><td>25.38</td><td>25.4</td><td>7 40</td><td>7 40</td><td>74</td><td>31 18</td><td>31 18</td><td>31.2</td><td>59.9</td><td>58.4</td><td>59.2</td><td>4 12</td><td>4 02</td><td>4 07</td></table-container>	8/11/2013	12.02	Fine		15	25.38	25.38	25.4	7 40	7 40	74	31 18	31 18	31.2	59.9	58.4	59.2	4 12	4 02	4 07
1 2 3 3 1																				
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indical barbon	11/11/2012		Cloudy																	
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	42/44/2042		-											-						
15:1 2 Surface 1.0 24.2 24.2 7.58 7.68 7.68 32.75 32.8 7.68 <t< td=""><td>13/11/2013</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	13/11/2013																			
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15/11/2013		Fine											-						
19/11/2013 9:42 Fine Midde 1.5 22.93 22.93 7.62 7.62 7.66 32.68 32.77 49.1 49.2 49.2 3.49 3.50 3.50 10 10 10 1.5 22.93 22.9 7.62								24.2						31.1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	19/11/2013		Fine		1.5		22.93	22.9		7.62	7.6	32.68	32.68	32.7	49.1	49.2	49.2	3.49	3.50	<u>3.50</u>
10:47 Fine Middle 1.5 22.30 22.30 7.43 7.43 7.43 25.8 25.6 38.9 39.0 39.0 2.91 2.92 2.92 $10:47$ <t< td=""><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td></t<>		-			-			-			-			-			-	-		-
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And Antiparticipant A	21/11/2013	10:47	Fine	Middle	1.5	22.30	22.30	22.3	7.43	7.43	7.4	25.58	25.58	25.6	38.9	39.0	39.0	2.91	2.92	<u>2.92</u>
23/11/2013 Fine Middle 1.5 22.89 22.89 7.64 7.64 7.6 33.00 33.00 33.00 63.8 63.7 63.8 4.52 4.52 0 <		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bottom Surface I		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
· Surface · </td <td>23/11/2013</td> <td>11:15</td> <td>Fine</td> <td>Middle</td> <td>1.5</td> <td>22.89</td> <td>22.89</td> <td>22.9</td> <td>7.64</td> <td>7.64</td> <td>7.6</td> <td>33.00</td> <td>33.00</td> <td>33.0</td> <td>63.8</td> <td>63.7</td> <td>63.8</td> <td>4.52</td> <td>4.51</td> <td>4.52</td>	23/11/2013	11:15	Fine	Middle	1.5	22.89	22.89	22.9	7.64	7.64	7.6	33.00	33.00	33.0	63.8	63.7	63.8	4.52	4.51	4.52
		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/11/2013 12:30 Fine Middle 1.5 22.25 22.25 22.3 7.51 7.51 7.5 32.00 32.00 32.0 66.3 66.4 66.4 4.79 4.80 4.80		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25/11/2013	12:30	Fine	Middle	1.5	22.25	22.25	22.3	7.51	7.51	7.5	32.00	32.00	32.0	66.3	66.4	66.4	4.79	4.80	4.80
- Bottom		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

		ood lide																	
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO	
Date		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	14:45	Fine	Middle	1.5	25.17	25.17	25.2	7.37	7.37	7.4	23.05	23.05	23.1	42.8	42.9	42.9	3.09	3.10	<u>3.10</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	14:55	Fine	Middle	1.5	25.72	25.72	25.7	7.44	7.44	7.4	31.32	31.32	31.3	48.5	48.2	48.4	3.31	3.28	<u>3.30</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	15:47	Fine	Middle	1.5	25.98	25.98	26.0	7.33	7.33	7.3	27.77	27.77	27.8	71.6	71.1	71.4	4.97	4.93	4.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	20:50	Cloudy	Middle	1.5	23.90	23.90	23.9	7.89	7.89	7.9	23.37	23.54	23.5	34.3	34.8	34.6	2.53	2.56	2.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	11:05	Fine	Middle	1.5	25.05	25.05	25.1	7.56	7.56	7.6	31.71	31.71	31.7	64.8	65.0	64.9	4.47	4.48	4.48
	-		Bottom	-	-	-	-	-	-		-	-	-	-	-		-	-	-
	_		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2013	12:00	Fine	Middle	1.5	25.36	25.36	25.4	7.42	7.42	7.4	31.21	31.21	31.2	55.2	55.1	55.2	4.79	4.79	4.79
			Bottom	-	-	-	-	-			-	-	-	-	-	-	-	-	-
			Surface	-	_	_	_	-	-	_	-	-	-	-	-	_	-	-	-
11/11/2013	14:40	Cloudy	Middle	1.5	24.59	24.59	24.6	7.61	7.61	7.6	32.77	32.77	32.8	55.9	55.3	55.6	3.86	3.82	3.84
11/11/2010	-	Cloudy	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
			Surface		-	-		-	-		-	-		-			-	-	
12/11/2012	-	Cloudy					-			-			-		-				
13/11/2013	14:30	Cloudy	Middle	1.5	23.66	23.66	23.7	7.73	7.73	7.7	32.22	32.22	32.2	53.9	54.4	54.2	3.80	3.84	<u>3.82</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:10		Surface	1.0	24.39	24.39	24.4	7.59	7.59	7.6	31.50	31.50	31.5	72.6	71.7	72.2	5.03	5.00	5.02
15/11/2013	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:12		Bottom	3.0	24.45	24.45	24.5	7.56	7.56	7.6	30.51	30.51	30.5	76.7	72.9	74.8	5.35	5.41	5.38
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2013	9:40	Fine	Middle	1.5	22.99	22.99	23.0	7.65	7.65	7.7	32.63	32.63	32.6	48.9	48.6	48.8	3.46	3.46	<u>3.46</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/11/2013	10:45	Fine	Middle	1.5	22.38	22.38	22.4	7.48	7.48	7.5	25.59	25.59	25.6	37.2	37.4	37.3	2.79	2.80	<u>2.80</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/11/2013	11:17	Fine	Middle	1.5	22.83	22.83	22.8	7.65	7.65	7.7	33.26	33.26	33.3	60.7	60.6	60.7	4.31	4.30	4.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/11/2013	12:25	Fine	Middle	1.5	22.40	22.40	22.4	7.59	7.59	7.6	30.26	30.26	30.3	55.4	54.9	55.2	4.06	4.00	<u>4.03</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

<table-container></table-container>		Mid-Eb																		
Image Image <t< td=""><td>Date</td><td>Time</td><td></td><td>Samplin</td><td>g Depth</td><td>Wat</td><td>er Temp</td><td>erature</td><td></td><td></td><td></td><td></td><td></td><td>ty</td><td>D</td><td></td><td>ration</td><td></td><td></td><td></td></t<>	Date	Time		Samplin	g Depth	Wat	er Temp	erature						ty	D		ration			
100001 1429 1424 1424 154 254			Condition	n	n	Va		Average	Va		Average	Va		Average	Va		Average	Va		Average
ind ind <td></td> <td>-</td> <td></td> <td>Surface</td> <td>-</td>		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image Image <t< td=""><td>28/10/2013</td><td>4:29</td><td>Fine</td><td>Middle</td><td>1.5</td><td>23.10</td><td>23.10</td><td>23.1</td><td>8.05</td><td>8.05</td><td>8.1</td><td>28.84</td><td>28.84</td><td>28.8</td><td>52.7</td><td>52.9</td><td>52.8</td><td>3.81</td><td>3.83</td><td>3.82</td></t<>	28/10/2013	4:29	Fine	Middle	1.5	23.10	23.10	23.1	8.05	8.05	8.1	28.84	28.84	28.8	52.7	52.9	52.8	3.81	3.83	3.82
<table-container> Interpand <</table-container>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
indical <		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1	30/10/2013	11:15	Fine	Middle	1.5	25.60	25.60	25.6	7.31	7.31	7.3	32.23	32.23	32.2	56.2	56.3	56.3	3.83	3.83	3.83
1110010 1100 10		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Image: state	1/11/2013	12:05	Fine	Middle	1.5	25.50	25.50	25.5	7.23	7.23	7.2	31.73	31.73	31.7	53.7	53.8	53.8	3.67	3.68	3.68
11120 1144 <t< td=""><td></td><td>-</td><td></td><td>Bottom</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Image: bial state Surface Image: bial state Surface Image: bial state Image: bial	4/11/2013	14:52	Cloudy	Middle	1.5	25.00	25.00	25.0	7.46	7.46	7.5	32.33	32.33	32.3	72.3	71.9	72.1	4.93	4.94	4.94
<table-container> 941100 11 <!--</td--><td></td><td>-</td><td></td><td>Bottom</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></table-container>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image with transform of transform		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image with transform of transform	6/11/2013	13:58	Fine		1.5	25.40	25.40	25.4	7.30	7.30	7.3	32.64	32.64	32.6	81.8	81.4	81.6	5.58	5.49	5.54
1 2 3 Surface 1<															-			-		
<table-container> 9/11/2014 9.00 Fine Midde 1.0 2.30 2.30 2.30 8.02 8.02 8.02 8.03 <</table-container>		-			-	-	-	-	-	_	-	_	-	-	-	-	-	-	_	-
i i	8/11/2013	3:00	Fine		1.0	23.70	23.80	23.8	8.03	8.03	8.0	30.28	30.28	30.3	53.9	54.6	54.3	3.83	3.88	3.86
1 1 2 2 3 1												-								
11/11/2013 4.26 Cloudy Middle 1.0 24.80 24.80 24.80 8.04 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td>_</td> <td></td> <td>_</td> <td>_</td> <td></td>		-								_		_	_			_		_	_	
Image: state in the state in therest and the state in there the state in the state in	11/11/2013		Cloudy			24.80	24.80		8.04	8.04		30.41	30.41		71.0	71.3		4 95	1 98	
indication indicat	11/11/2013		Cloudy																	
13/11/2013 11.00 Cloudy Middle 1.5 23.7 23.74 23.7 7.76 7.76 7.8 33.01 33.01 33.0 59.8 59.7 59.7 4.19 4.17 4.18 10.1												-			-			-		
Image: state in the state in therest and the state in there the state in the state in	10/11/0010		01									-			-			-		
1 5 5 5 6	13/11/2013		Cloudy						7.76			33.01						4.19		
15/11/2013 Fine Middle 1.5 24.17 24.17 24.2 7.59 7.6 32.79 32.89 48.1 48.2 48.2 3.35									-	-		-			-			-		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15/11/2010									-		-			-			-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15/11/2013	11:58	Fine		1.5	24.17	24.17	24.2	7.59	7.59	7.6	32.79	32.79	32.8	48.1	48.2	48.2	3.35	3.35	3.35
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-			-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					-									-						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	19/11/2013	3:32	Cloudy	Middle	1.0	21.60	21.60	21.6	7.67	7.67	7.7	31.37	31.37	31.4	67.0	68.0	67.5	4.92	4.99	4.96
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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And the second secon	21/11/2013	3:08	Cloudy	Middle	1.0	21.50	21.50	21.5	7.71	7.71	7.7	30.50	30.52	30.5	58.6	59.8	59.2	4.36	4.43	4.40
23/11/2013 2:50 Cloudy Middle 1.0 21.50 21.50 21.50 7.98 7.98 8.00 29.40 29.40 47.50 47.40 3.51 3.53 3.52 2 0		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Image: state of the state		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23/11/2013	2:50	Cloudy	Middle	1.0	21.50	21.50	21.5	7.98	7.98	8.0	29.42	29.43	29.4	47.3	47.5	47.4	3.51	3.53	3.52
- Surface		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2013 4:24 Fine Middle 1.0 20.60 20.60 20.6 7.73 7.75 7.7 29.46 29.5 46.3 46.3 3.50 3.50 3.50	26/11/2013	4:24	Fine	Middle	1.0	20.60	20.60	20.6	7.73	7.75	7.7	29.46	29.46	29.5	46.3	46.3	46.3	3.50	3.50	3.50
Bottom - <td></td> <td>-</td> <td></td> <td>Bottom</td> <td>-</td>		-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	Mid-Eb																		
Date	Time	Weater	Samplin	g Depth	Wat	<u>er Temp</u> ℃	erature		pН			Salini	У	D	O Satur	ration		DO	
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt alue	Average	Va	% Ilue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	4:18	Fine	Middle	1.5	23.60	23.60	23.6	8.16	8.16	8.2	30.78	30.80	30.8	58.9	60.8	59.9	4.19	4.33	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	11:30	Fine	Middle	1.5	25.63	25.63	25.6	7.30	7.30	7.3	32.16	32.16	32.2	54.5	54.4	54.5	3.71	3.70	<u>3.71</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	12:15	Fine	Middle	1.5	25.49	25.49	25.5	7.19	7.19	7.2	31.82	31.82	31.8	46.1	46.3	46.2	3.15	3.16	<u>3.16</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	15:01	Cloudy	Middle	1.5	24.74	24.74	24.7	7.46	7.46	7.5	31.82	31.82	31.8	64.2	64.0	64.1	4.45	4.43	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	14:10	Fine	Middle	1.5	25.50	25.50	25.5	7.32	7.32	7.3	32.42	32.42	32.4	66.6	66.2	66.4	4.53	4.51	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2013	2:47	Fine	Middle	1.0	23.80	23.80	23.8	8.10	8.10	8.1	30.88	30.88	30.9	56.9	58.1	57.5	4.02	4.07	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/2013	4:16	Cloudy	Middle	1.0	24.70	24.70	24.7	8.06	8.06	8.1	31.96	31.96	32.0	58.4	59.3	58.9	4.05	4.11	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/11/2013	11:05	Cloudy	Middle	1.5	23.63	23.63	23.6	7.68	7.68	7.7	31.92	31.92	31.9	55.5	55.5	55.5	3.92	3.92	3.92
	-	-	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/11/2013	12:05	Fine	Middle	1.5	24.16	24.16	24.2	7.51	7.51	7.5	32.68	32.68	32.7	46.9	46.9	46.9	3.26	3.26	3.26
	_		Bottom	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Surface	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-
19/11/2013	3:20	Cloudy	Middle	1.0	21.10	21.10	21.1	7.99	7.99	8.0	30.71	30.72	30.7	58.4	58.8	58.6	4.34	4.38	4.36
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	- 00	-	-		-	-
	-		Surface	-	-	-	-	-		-	_	-	-	-	-	-	-	-	-
21/11/2013	2:58	Cloudy	Middle	1.0	21.10	21.10	21.1	8.09	8.09	8.1	30.84	30.84	30.8	53.9	54.6	54.3	4.01	4.06	4.04
21/11/2010	2.50	Ciculy	Bottom	-	-	-	-		0.09 -	-	- 50.64	-			- 54.0	- 54.5	4.01	4.00	-
	-			-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
02/11/0040		Clout	Surface																
23/11/2013	2:40	Cloudy	Middle	1.0	21.50	21.50	21.5	7.96	7.96	8.0	31.16	31.16	31.2	53.5	54.4	54.0	3.94	4.03	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2013	4:10	Fine	Middle	1.0	20.50	20.50	20.5	7.82	7.82	7.8	31.79	31.79	31.8	56.8	57.1	57.0	4.24	4.27	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

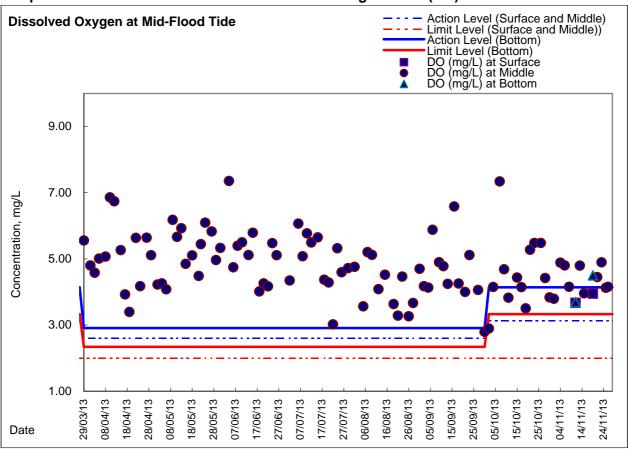
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

	MId-Eb										1						1		
Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ly	D	O Satur %	ation		DO mg/l	
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	7:14	Fine	Middle	1.0	24.30	24.20	24.3	8.10	8.10	8.1	28.11	28.11	28.1	50.4	50.2	50.3	3.59	3.59	<u>3.59</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	11:10	z	Middle	1.5	25.36	25.36	25.4	7.34	7.34	7.3	29.86	29.86	29.9	70.3	70.5	70.4	4.87	4.91	4.89
	-		Bottom	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	11:57	Fine	Middle	1.5	25.74	25.74	25.7	7.20	7.20	7.2	22.12	22.12	22.1	58.6	58.1	58.4	4.23	4.21	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	14:44	Cloudy	Middle	1.5	24.70	24.70	24.7	7.44	7.44	7.4	28.28	28.28	28.3	69.3	69.4	69.4	4.91	4.92	4.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	13:52	Fine	Middle	1.5	25.51	25.51	25.5	7.18	7.18	7.2	28.17	28.17	28.2	64.1	64.1	64.1	4.47	4.47	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2013	4:25	Fine	Middle	1.0	24.10	24.10	24.1	8.10	8.10	8.1	27.98	27.98	28.0	42.1	44.3	43.2	3.02	3.18	<u>3.10</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/2013	7:05	Cloudy	Middle	1.0	24.60	24.60	24.6	8.12	8.12	8.1	24.85	24.85	24.9	49.7	49.7	49.7	3.60	3.60	<u>3.60</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/11/2013	10:57	Cloudy	Middle	1.5	23.55	23.55	23.6	7.76	7.76	7.8	32.60	32.60	32.6	72.3	72.4	72.4	5.06	5.05	5.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/11/2013	11:47	Fine	Middle	1.5	24.26	24.26	24.3	7.54	7.54	7.5	32.09	32.09	32.1	56.2	56.1	56.2	3.90	3.89	3.90
	-		Bottom	-	_	_	-	-	-	-	-	_	_	-	-	-	-	-	-
<u> </u>	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2013	2:54	Cloudy	Middle	1.0	21.50	21.50	21.5	8.07	8.07	8.1	19.12	19.13	19.1	12.1	12.0	12.1	0.95	0.95	0.95
	-	,	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/11/2013	2:30	Cloudy	Middle	1.0	21.40	21.40	21.4	8.23	8.23	8.2	17.66	17.72	17.7	16.4	16.6	16.5	1.31	1.32	<u>1.32</u>
21/11/2010	-	Cicudy	Bottom	-		-	-	- 0.23		-		-	-		-	-	1.31	-	-
	-		Surface	-	-	-	-		-	-	-	-	-	-		-	-	-	-
23/11/2013		Claude																	
23/11/2013	2:20	Cloudy	Middle	1.0	21.90	21.90	21.9	8.19	8.19	8.2	23.90	23.90	23.9	18.7	18.5	18.6	1.43	1.41	<u>1.42</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00///	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2013	3:48	Fine	Middle	1.0	20.70	20.70	20.7	8.18	8.19	8.2	21.42	21.42	21.4	18.4	18.9	18.7	1.45	1.49	<u>1.47</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

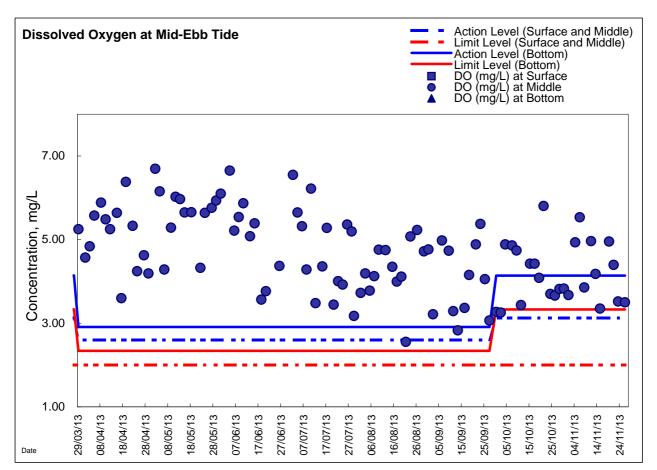
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

					1						1						1		
Date	Time	Weater Condition		ig Depth	Wat	<u>er Temp</u> ℃	erature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO mg/L	
		Contration	r	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/10/2013	7:20	Fine	Middle	1.0	24.30	24.30	24.3	8.05	8.05	8.1	28.05	28.05	28.1	51.1	52.1	51.6	3.55	3.73	<u>3.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/10/2013	11:09	Fine	Middle	1.5	25.64	25.64	25.6	7.38	7.38	7.4	25.69	25.69	25.7	46.9	47.0	47.0	3.32	3.32	<u>3.32</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/11/2013	11:55	Fine	Middle	1.5	25.71	25.71	25.7	7.14	7.14	7.1	20.43	20.42	20.4	60.3	60.2	60.3	4.31	4.30	4.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/11/2013	14:42	Cloudy	Middle	1.5	24.80	24.80	24.8	7.52	7.52	7.5	27.25	27.25	27.3	58.1	58.0	58.1	4.13	4.12	<u>4.13</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2013	13:50	Fine	Middle	1.5	25.71	25.71	25.7	7.31	7.31	7.3	20.19	20.19	20.2	45.0	45.1	45.1	3.27	3.28	<u>3.28</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2013	4:33	Fine	Middle	1.0	24.00	24.00	24.0	7.97	7.97	8.0	27.81	27.81	27.8	45.2	45.5	45.4	3.25	3.28	<u>3.27</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/2013	7:10	Cloudy	Middle	1.0	24.60	24.60	24.6	7.97	7.97	8.0	24.49	24.49	24.5	44.7	45.1	44.9	3.24	3.26	<u>3.25</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/11/2013	10:55	Cloudy	Middle	1.5	23.62	23.62	23.6	7.76	7.76	7.8	33.59	33.95	33.8	63.3	63.3	63.3	4.43	4.43	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/11/2013	11:45	Fine	Middle	1.5	24.21	24.21	24.2	7.57	7.57	7.6	33.04	33.04	33.0	67.1	67.4	67.3	4.52	4.53	4.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	_	-	_	-	-	-	-	-	-	-	-
19/11/2013	3:03	Cloudy	Middle	1.0	21.40	21.40	21.4	7.95	7.94	7.9	18.75	18.74	18.7	18.1	17.8	18.0	1.43	1.41	<u>1.42</u>
	-		Bottom	-	-	_	-	-	-	-	-	-	-	-	_	-	-	-	
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/11/2013	2:37	Cloudy	Middle	1.0	21.40	21.40	21.4	7.97	7.97	8.0	17.17	17.18	17.2	14.9	15.3	15.1	1.19	1.23	<u>1.21</u>
	-		Bottom	-	-	-	-	-		-		-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-		-		-	-			-	-	-	-	
23/11/2013		Cloudy										- 23.17							
23/11/2013	2:26	Cioudy	Middle	1.0	21.80	21.80	21.8	7.98	7.97	8.0	23.16		23.2	19.1	19.3	19.2	1.46	1.48	<u>1.47</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00/14/2212	-	_	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2013	3:57	Fine	Middle	1.0	20.70	20.70	20.7	7.94	7.94	7.9	21.02	21.02	21.0	19.5	20.5	20.0	1.56	1.62	<u>1.59</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

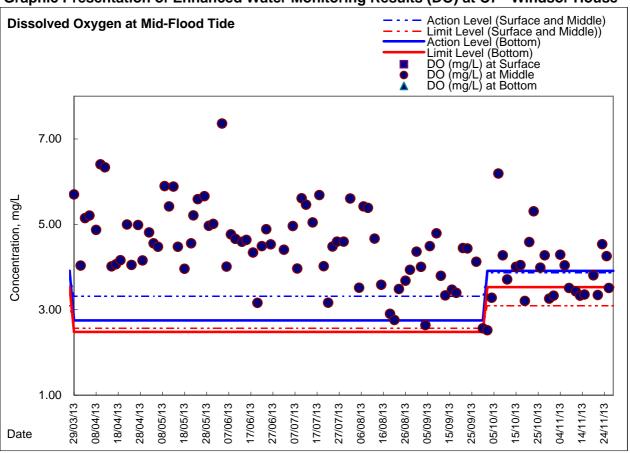




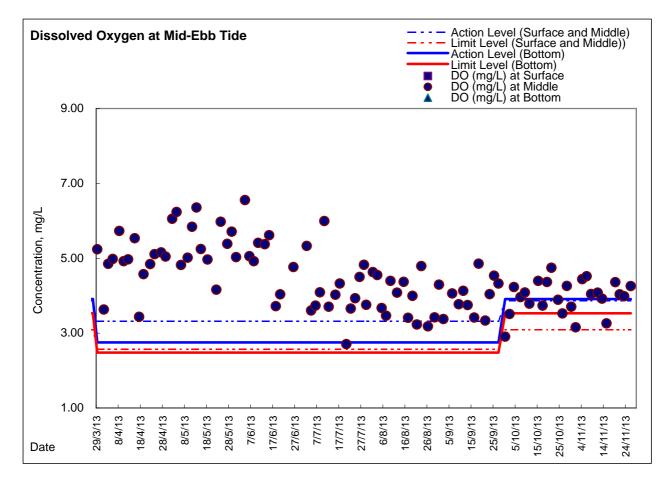
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





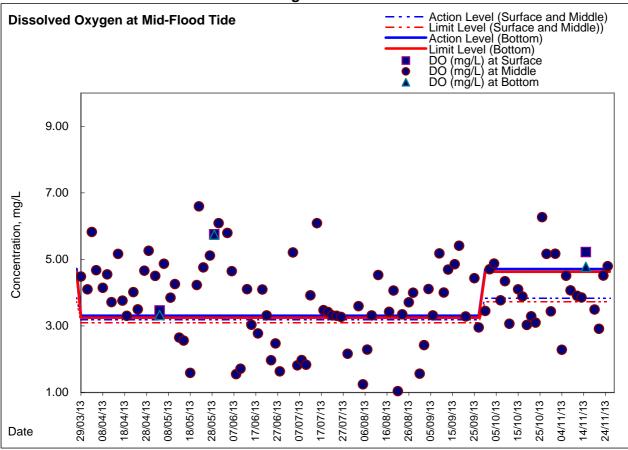


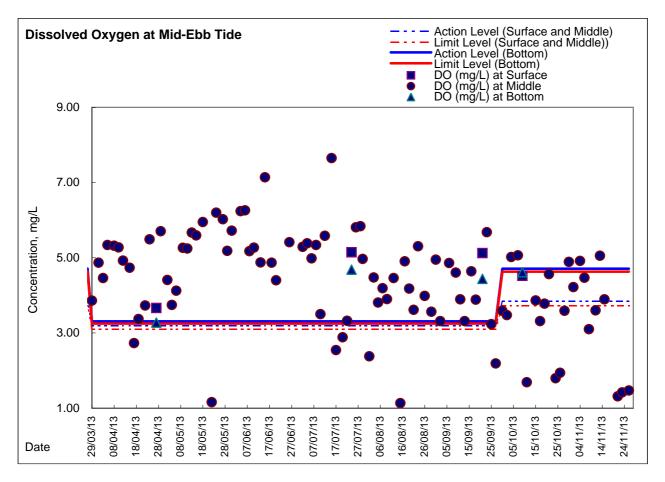
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House





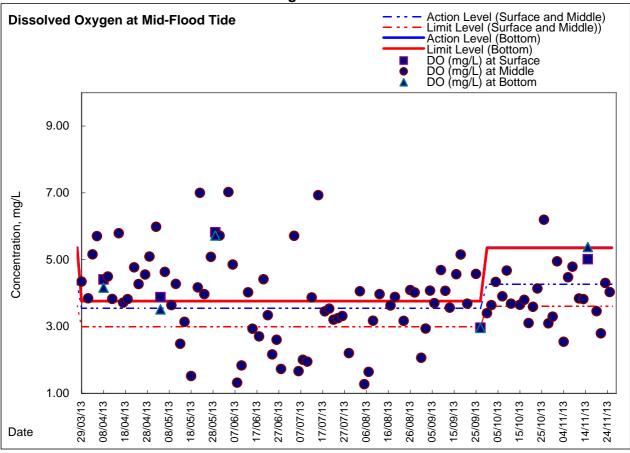
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

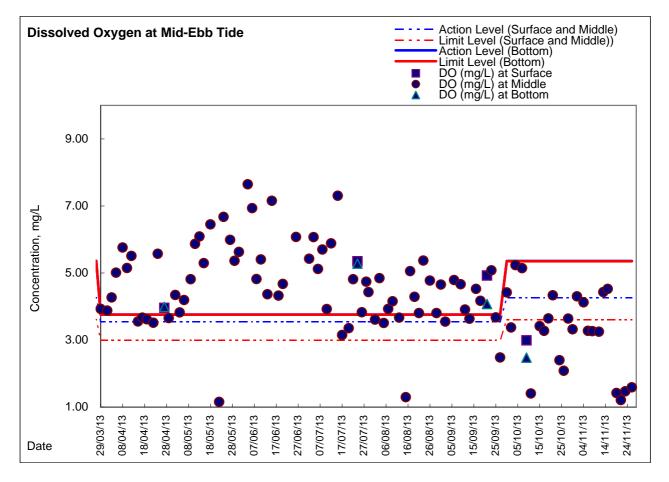






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data	RTN2a (Hong Kong Electric Cen	tre)			
Normal Day 07:00-19:00	1/11/2013 12:01 67.6	6/11/2013 18:31 66.7	12/11/2013 13:01 71.4	18/11/2013 7:31 67.9	22/11/2013 14:01 70.1
	1/11/2013 12:31 68.3	7/11/2013 7:01 66.9	12/11/2013 13:31 68.3	18/11/2013 8:01 68.3	22/11/2013 14:31 69.5
	1/11/2013 13:01 68.9	7/11/2013 7:31 69.2	12/11/2013 14:01 67.9	18/11/2013 8:31 71.0	22/11/2013 15:01 69.0
28/10/2013 7:01 66.2	1/11/2013 13:31 68.3	7/11/2013 8:01 71.2	12/11/2013 14:31 68.2	18/11/2013 9:01 72.3	22/11/2013 15:31 70.1
28/10/2013 7:31 64.9	1/11/2013 14:01 70.1	7/11/2013 8:31 71.1	12/11/2013 15:01 68.4	18/11/2013 9:31 72.0	22/11/2013 16:01 69.5
28/10/2013 8:01 67.7	1/11/2013 14:31 70.5	7/11/2013 9:01 70.6	12/11/2013 15:31 68.7	18/11/2013 10:01 71.0	22/11/2013 16:31 69.2
28/10/2013 8:31 69.8	1/11/2013 15:01 69.3	7/11/2013 9:31 70.9	12/11/2013 16:01 69.6	18/11/2013 10:31 70.7	22/11/2013 17:01 71.0
28/10/2013 9:01 69.8	1/11/2013 15:31 68.8	7/11/2013 10:01 70.6	12/11/2013 16:31 70.7	18/11/2013 11:01 71.5	22/11/2013 17:31 67.8
28/10/2013 9:31 71.4	1/11/2013 16:01 67.5	7/11/2013 10:31 72.1	12/11/2013 17:01 70.3	18/11/2013 11:31 69.3	22/11/2013 18:01 59.5
28/10/2013 10:01 70.5	1/11/2013 16:31 68.0	7/11/2013 11:01 71.0	12/11/2013 17:31 68.7	18/11/2013 12:01 70.7	22/11/2013 18:31 65.8
28/10/2013 10:31 70.6	1/11/2013 17:01 67.7	7/11/2013 11:31 68.4	12/11/2013 18:01 63.4	18/11/2013 12:31 71.8	23/11/2013 7:01 66.1
28/10/2013 11:01 70.2	1/11/2013 17:31 68.6	7/11/2013 12:01 66.6	12/11/2013 18:31 66.3	18/11/2013 13:01 72.1	23/11/2013 7:31 69.4
28/10/2013 11:31 70.5	1/11/2013 18:01 69.6	7/11/2013 12:31 68.3	13/11/2013 7:01 51.4	18/11/2013 13:31 71.9	23/11/2013 8:01 71.5
28/10/2013 12:01 69.9	1/11/2013 18:31 66.8	7/11/2013 13:01 70.0	13/11/2013 7:31 69.4	18/11/2013 14:01 72.0	23/11/2013 8:31 71.1
28/10/2013 12:31 69.1	2/11/2013 7:01 65.3	7/11/2013 13:31 71.2 7/11/2013 14:01 70.0	13/11/2013 8:01 72.1 13/11/2013 8:31 71.4	18/11/2013 14:31 71.4	23/11/2013 9:01 70.6
28/10/2013 13:01 68.1 28/10/2013 13:31 69.2	2/11/2013 8:01 70.8	7/11/2013 14:31 68.6	13/11/2013 9:01 71.3	18/11/2013 15:01 71.5 18/11/2013 15:31 70.8	23/11/2013 9:31 70.4 23/11/2013 10:01 70.5
28/10/2013 14:01 69.7	2/11/2013 8:31 68.8	7/11/2013 15:01 68.8	13/11/2013 9:31 70.8	18/11/2013 16:01 71.1	23/11/2013 10:31 70.1
28/10/2013 14:31 69.3	2/11/2013 9:01 68.7	7/11/2013 15:31 68.8	13/11/2013 10:01 70.0	18/11/2013 16:31 71.6	23/11/2013 11:01 69.1
28/10/2013 15:01 69.9	2/11/2013 9:31 69.7	7/11/2013 16:01 69.5	13/11/2013 10:31 71.6	18/11/2013 17:01 72.3	23/11/2013 11:31 66.2
28/10/2013 15:31 70.5	2/11/2013 10:01 69.8	7/11/2013 16:31 69.1	13/11/2013 11:01 71.2	18/11/2013 17:31 70.9	23/11/2013 12:01 65.7
28/10/2013 16:01 69.0	2/11/2013 10:31 70.4	7/11/2013 17:01 68.0	13/11/2013 11:31 71.1	18/11/2013 18:01 67.8	23/11/2013 12:31 67.1
28/10/2013 16:31 69.3	2/11/2013 11:01 70.8	7/11/2013 17:31 67.5	13/11/2013 12:01 70.1	18/11/2013 18:31 65.9	23/11/2013 13:01 70.6
28/10/2013 17:01 68.6	2/11/2013 11:31 66.8	7/11/2013 18:01 65.2	13/11/2013 12:31 68.6	19/11/2013 7:01 50.2	23/11/2013 13:31 69.5
28/10/2013 17:31 67.5	2/11/2013 12:01 66.5	7/11/2013 18:31 66.8	13/11/2013 13:01 69.9	19/11/2013 7:31 68.8	23/11/2013 14:01 68.5
28/10/2013 18:01 61.4	2/11/2013 12:31 68.1	8/11/2013 7:01 66.2	13/11/2013 13:31 70.6	19/11/2013 8:01 70.8	23/11/2013 14:31 68.0
28/10/2013 18:31 66.7	2/11/2013 13:01 69.2	8/11/2013 7:31 68.3	13/11/2013 14:01 70.4	19/11/2013 8:31 70.8	23/11/2013 15:01 69.9
29/10/2013 7:01 66.5	2/11/2013 13:31 69.7	8/11/2013 8:01 68.4	13/11/2013 14:31 70.4	19/11/2013 9:01 70.4	23/11/2013 15:31 69.8
29/10/2013 7:31 67.3	2/11/2013 14:01 70.5	8/11/2013 8:31 70.2	13/11/2013 15:01 71.3	19/11/2013 9:31 70.8	23/11/2013 16:01 71.2
29/10/2013 8:01 68.6	2/11/2013 14:31 71.3	8/11/2013 9:01 69.8	13/11/2013 15:31 70.9	19/11/2013 10:01 69.7	23/11/2013 16:31 70.8
29/10/2013 8:31 68.0	2/11/2013 15:01 71.8	8/11/2013 9:31 70.7	13/11/2013 16:01 70.4	19/11/2013 10:31 69.9	23/11/2013 17:01 67.8
29/10/2013 9:01 67.6	2/11/2013 15:31 71.5	8/11/2013 10:01 71.3	13/11/2013 16:31 70.8	19/11/2013 11:01 69.9	23/11/2013 17:31 69.6
29/10/2013 9:31 68.3	2/11/2013 16:01 70.9	8/11/2013 10:31 71.1	13/11/2013 17:01 71.6	19/11/2013 11:31 69.5	23/11/2013 18:01 66.3
29/10/2013 10:01 69.2	2/11/2013 16:31 71.6	8/11/2013 11:01 70.6	13/11/2013 17:31 71.2	19/11/2013 12:01 69.7	23/11/2013 18:31 65.7
29/10/2013 10:31 69.7	2/11/2013 17:01 70.8	8/11/2013 11:31 66.7	13/11/2013 18:01 69.9	19/11/2013 12:31 66.9	25/11/2013 7:01 56.1
29/10/2013 11:01 69.7	2/11/2013 17:31 68.9	8/11/2013 12:01 67.6	13/11/2013 18:31 52.5	19/11/2013 13:01 68.0	25/11/2013 7:31 68.8
29/10/2013 11:31 63.7	2/11/2013 18:01 66.9	8/11/2013 12:31 67.8	14/11/2013 7:01 66.8	19/11/2013 13:31 69.3	25/11/2013 8:01 68.1
29/10/2013 12:01 60.0	2/11/2013 18:31 65.4	8/11/2013 13:01 69.8	14/11/2013 7:31 71.6	19/11/2013 14:01 70.3	25/11/2013 8:31 68.4
29/10/2013 12:31 61.3	4/11/2013 7:01 53.4	8/11/2013 13:31 70.7	14/11/2013 8:01 71.6	19/11/2013 14:31 71.7	25/11/2013 9:01 69.2
29/10/2013 13:01 66.3	4/11/2013 7:31 68.7	8/11/2013 14:01 71.0	14/11/2013 8:31 72.4	19/11/2013 15:01 71.8	25/11/2013 9:31 69.4
29/10/2013 13:31 68.6	4/11/2013 8:01 69.8	8/11/2013 14:31 71.4	14/11/2013 9:01 72.6	19/11/2013 15:31 70.9	25/11/2013 10:01 69.0
29/10/2013 14:01 69.1	4/11/2013 8:31 70.3	8/11/2013 15:01 69.1	14/11/2013 9:31 71.0	19/11/2013 16:01 69.7	25/11/2013 10:31 68.9
29/10/2013 14:31 67.2	4/11/2013 9:01 72.5	8/11/2013 15:31 69.0	14/11/2013 10:01 71.4	19/11/2013 16:31 69.3	25/11/2013 11:01 69.3
29/10/2013 15:01 71.6	4/11/2013 9:31 72.9	8/11/2013 16:01 68.8	14/11/2013 10:31 70.9	19/11/2013 17:01 69.2	25/11/2013 11:31 68.1
29/10/2013 15:31 70.5	4/11/2013 10:01 71.6	8/11/2013 16:31 68.8	14/11/2013 11:01 70.8	19/11/2013 17:31 69.0	25/11/2013 12:01 66.1
29/10/2013 16:01 71.1	4/11/2013 10:31 70.3	8/11/2013 17:01 69.7	14/11/2013 11:31 71.0	19/11/2013 18:01 66.7	25/11/2013 12:31 68.4
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Real-time Noise Data 17/11/2013 11:41 61.6	RTN2a (Hong Kong Electric Cen 17/11/2013 20:46 61.9	<u>itre)</u> 19/11/2013 21:51 61.6	21/11/2013 22:56 61.3	24/11/2013 8:01 58.7	24/11/2013 17:06 62.8
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Real-time Noise Data	RTN2a (Hong Kong Electric Cen	tre)			
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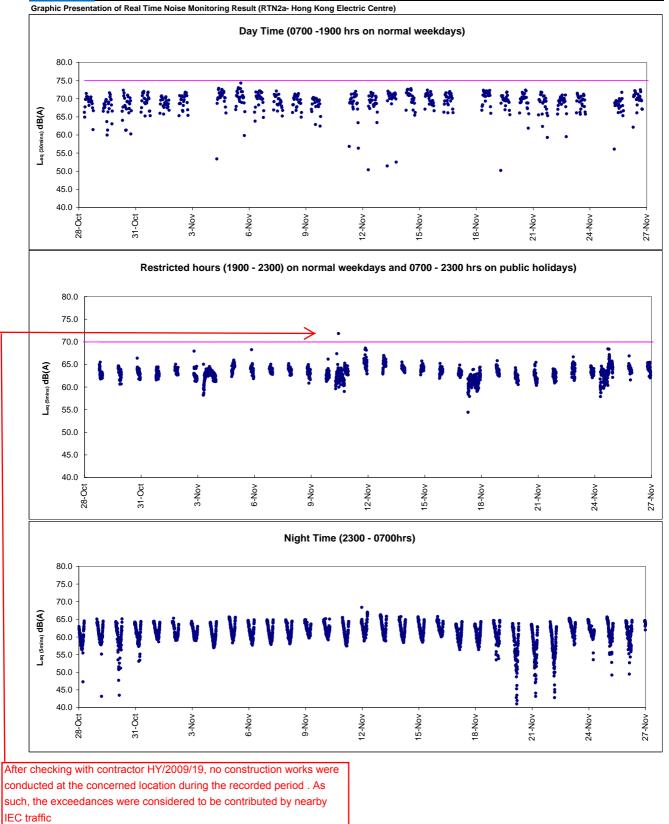
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Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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



Event / Action Plan for Construction Air Quality

EVENT		ACTION								
	ET	IEC	ER	CONTRACTOR						
ACTION LEVEL										
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified) 	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	 Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 						
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 						
LIMIT LEVEL										
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 						
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 						



Event and Action Plan for Marine Water Quality

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



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



Event and Action Plan for Odour Patrol

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



Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N145	5-Nov-13	14:30	M6 - HK Baptist Church Henrietta Secondary School	74	Leq(30-min)	when one documented complaint was received.	70		Traffic nearby was observed during monitoring and was considered as the major noise contribution.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Formwork and falsework removal for Contract HY/2009/19 were conducted during the measurement. 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_10N147	18-Nov-13	13:35	M6 - HK Baptist Church Henrietta Secondary School	72	Leq(30-min)	when one documented complaint was received.	70	Possible reason:	Traffic nearby was observed during monitoring and was considered as the major noise contribution.
								Remarks / Other Obs:	Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Formwork and Rebar fixing for Contract HY/2009/19 were conducted during the measurement. 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_10N148	26-Nov-13	10:45	M6 - HK Baptist Church Henrietta Secondary School	72	Leq(30-min)	when one documented complaint was received.	70	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. Formwork, falsework installation and cofferdam installation for Contract HY/2009/19 were conducted during the measurement. 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	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C597		Mid-flood		DO(mg/L)	3.34	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	3.00	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	6.00	15.00	22.13	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_10C598	11-Nov-13	Mid-flood	P5	DO(mg/L)	5.09	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	10.51	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	12.00	15.00	22.13	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_10C599	15-Nov-13	Mid-flood	C1	DO(mg/L)	4.63	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	7.97	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	22.50	15.00	22.13	Remarks / Other Obs:	In view of no marine work was conducting in the vincity of the monitoring locationon that day and the view that no further exceedance was recorded in the next consecutive monitoring and the silt screen was in proper condition, the exceedance was considered not project related.
X_10C600	19-Nov-13	Mid-ebb	P1	DO(mg/L)	4.63	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.22	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	6.00	15.00	22.13	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_10C601	25-Nov-13	Mid-flood	C7	DO(mg/L)	3.35	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.45	9.10	10.25	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	4.50	15.00	22.13	Remarks / Other Obs:	Silt screen was in proper condition. In view of no marine works was conducted in the vincity of the monitoring location on monitoring day and no further exceedance was recorded in the next consecutive monitoring, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D345	28-Oct-13	Mid-Flood	C7	Middle	DO(mg/l)	3.26	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D346 28	28-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.10	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D347	28-Oct-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.59	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D348	28-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.64	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D349	30-Oct-13	Mid-Flood	C7	Middle	DO(mg/l)	3.33	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D350	30-Oct-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.44	3.84		Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D351	30-Oct-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.30	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D352	30-Oct-13	Mid-Ebb	C7	Middle	DO(mg/l)	3.71	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily
									Remarks / Other Obs:	records. Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D353	30-Oct-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.32	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D354	1-Nov-13	Mid-Ebb	C7	Middle	DO(mg/l)	3.16	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D355		Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.44	3.84		Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D356	4-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.30	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D357	4-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	4.13	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D358	6-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.28	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D359	8-Nov-13	Mid-Flood	C6	Bottom	DO(mg/l)	3.70	4.14	3.33	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities at C6, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D360	8-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.10	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D361	8-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.27	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D362	11-Nov-13	Mid-Flood	C7	Middle	DO(mg/l)	3.33	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D363	11-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.84	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D364	11-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	3.60	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D365	11-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.25	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D366	13-Nov-13	Mid-Flood	C7	Middle	DO(mg/l)	3.36	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D367	13-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.82	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D368	15-Nov-13	Mid-Flood	C7	Middle	DO(mg/l)	3.81	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D369	15-Nov-13	Mid-Ebb	C7	Middle	DO(mg/l)	3.26	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D370	19-Nov-13	Mid-Flood	C7	Middle	DO(mg/l)	3.35	3.87	3.09	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
									Remarks / Other Obs:	Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.
X_10D371	19-Nov-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.50	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D372	19-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.46	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA and organic pollutant was observed discharged from nearby culvert, it was considered not related to Project works.
X_10D373	19-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	0.95	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



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Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D374	19-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1.42	4.26	3.61		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
										Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
										It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D375	21-Nov-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.92	3.84	3.73		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
										Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
										Owning to minimal flushing combined with organic dischargeduring ebb tide. DO level was observed improved during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D376	21-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.80	4.26	3.61		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
										Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
										Owning to minimal flushing combined with organic dischargeduring ebb tide. DO level was observed improved during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D377	21-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.32	3.84	3.73		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
										Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
										It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Uni	t) Measured	d Ac	tion Level	imit Level	Follow-up action	
X_10D378	21-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1	.21	4.26	3.61		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
											Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
											It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D379	23-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1	.42	3.84	3.73		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
											Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
											It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D380	23-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1	.47	4.26	3.61		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
											Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
											It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D381	25-Nov-13	Mid-Flood	C7	Middle	DO(mg/l)	3	.51	3.87	3.09		Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
											Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works. Checking with the Contractor's daily records.
											Silt screen was in proper condition in their daily inspection. In view that there was no marine activities and, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D382	25-Nov-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	4.03	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	Owning to minimal flushing combined with organic dischargeduring ebb tide. DO level was observed improved during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D383	26-Nov-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	1.47	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D384	26-Nov-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	1.59	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works.
									Remarks / Other Obs:	It was observed that natural tidal flushing was minimal during ebb tide. DO level was observed replenished during flood tide cycle. The DO level at the concerned location will be keep in view closely and additional measures should be considered when necessary. DO level was observed restored during both ebb and flood tide since 28 November 2013 In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

am	Lam Geote	chnices Lir	nited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance
Defe	Date	Tidal		Deservations (Using	4	A strain Larra	Carl Larrel	F . II	
Ref no. X W499	28-Oct-13	Mid-Flood	Location	Parameters (Unit) DO(mg/L)	3.64	Action Leve 3.66	3.28	Follow-up action Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring
7_11433	20-001-13	Wild-1 100d	WODZT	DO(IIIg/E)	5.04	3.00	5.20		station WSD21.
				Turbidity	5.75	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspective repeated.
				SS	4.50	13.00	14.43	Remarks / Other Obs:	Inspection record. Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W500	28-Oct-13	Mid-Flood	WSD19	DO(mg/L)	4.11	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	13.75	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				SS	4.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. The exceedances was considered not project related.
X_W501	28-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.36	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	7.91	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	8.00	13.00	14.43	Remarks / Other Obs:	Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W502	30-Oct-13	Mid-Flood	WSD9	DO (mg/L)	6.80	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.73	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				Suspended Solid	10.00	13.00	14.43	Remarks / Other Obs:	In view of no marine work was conducted on that day and WSD9 was located at the upstream of the Project, the exceedances was considered not project related.
X_W503	30-Oct-13	Mid-Flood	WSD17	DO(mg/L)	4.46	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.58	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	11.50	13.00	14.43	Remarks / Other Obs:	In view of No marine work was conducting during water quality monitoring, the exceedances was considered not project related.
X_W504	30-Oct-13	Mid-Flood	WSD19	DO(mg/L)	5.69	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.90	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				SS	8.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. The exceedances was considered not project related.
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<u>lam</u>	Lam Geote	chnices Lii	nited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance
Ref no.	Date	Tidal	Location	Parameters (Unit)	Manaurad	Action Low	Limit Loval	Follow-up action	
X_W505	30-Oct-13	Mid-Ebb	WSD9	DO (mg/L)	5.25	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.03	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				Suspended Solid	4.50	13.00	14.43	Remarks / Other Obs:	In view of no marine works was conducted on that day amd no further exceedance was recorded in the next consecutive monitoring and since WSD9 was located at the downstream of the Project, in view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W506	30-Oct-13	Mid-Ebb	WSD17	DO(mg/L)	3.48	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.74	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	5.00	13.00	14.43	Remarks / Other Obs:	In view of no marine work was conducting on that day, the exceedances was considered not project related.
X_W507	30-Oct-13	Mid-Ebb	WSD21	DO(mg/L)	3.99	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.84	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record
				SS	5.50	13.00	14.43	Remarks / Other Obs:	Inspection records Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.
X_W508	30-Oct-13	Mid-Ebb	WSD19	DO(mg/L)	3.43	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.12	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				SS	11.50	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place.In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_W509	1-Nov-13	Mid-Flood	WSD17	DO(mg/L)	5.60	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	13.01	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	14.00	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. In view of no marine work was conducting on that day and the monitoring location was located upstream the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related
X_W510	1-Nov-13	Mid-Flood	WSD21	DO(mg/L)	3.37	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	2.73	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	3.00	13.00	14.43	Remarks / Other Obs:	Additional water diffuser system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.

am	Lam Geote	chnices Lii	mited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance
Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	l imit l evel	Follow-up action	
X_W511	1-Nov-13	Mid-Flood		DO(mg/L)	4.00	3.66		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.74	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				SS	9.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place. The exceedances was considered not project related.
X_W512	1-Nov-13	Mid-Ebb	WSD19	DO(mg/L)	4.11	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.25	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	10.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place.In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_W513	4-Nov-13	Mid-Flood	WSD17	DO(mg/L)	5.91	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.80	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	7.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducting during water quality monitoring. The water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related.
X_W514	4-Nov-13	Mid-Flood	WSD19	DO(mg/L)	5.52	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.48	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				SS	6.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place.The exceedances was considered not project related.
X_W515	4-Nov-13	Mid-Ebb	WSD9	DO (mg/L)	6.39	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.93	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. The tidal was moving westward.
				Suspended Solid	19.00	13.00	14.43	Remarks / Other Obs:	Westward. In view of no marine works was conducted on that day amd no further exceedance was recorded in the next consecutive monitoring and since WSD9 was located at the upstream of the Project, in view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W516	4-Nov-13	Mid-Ebb	WSD17	DO(mg/L)	6.67	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.03	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	10.50	13.00	14.43	Remarks / Other Obs:	In view of no marine work was conducting on that day and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.

am	Lam Geote	chnices Lii	mited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance
Ref no.	Date	Tidal	Location	Parameters (Unit)	Magazirad	منامع المناه	امريم المتعما	Follow-up action	
X_W518	4-Nov-13	Mid-Ebb	WSD19	DO(mg/L)	6.66	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	15.57	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works
				ss	8.00	13.00	14.43	Remarks / Other Obs:	Dredging works was conducted by Contractor HK/2012/08 during monitoring. Mitigation meaures including framed silt curtain was confirmed in place.In view of the monitoring station was located at the upstream of the construction site, the exceedances was considered not project related.
X_W519	6-Nov-13	Mid-Flood	WSD21	DO(mg/L)	4.48	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.68	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	13.50	13.00	14.43	Remarks / Other Obs:	Inspection recount sectors Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.
X_W520	8-Nov-13	Mid-Flood	WSD17	DO(mg/L)	4.23	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	14.53	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	6.50	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day.
									In view of no marine work was conducting on that day and the monitoring location was located upstream the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related
X_W521	8-Nov-13	Mid-Flood	WSD21	DO(mg/L)	3.53	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	4.28	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	11.50	13.00	14.43	Remarks / Other Obs:	Inspection records Additional water diffuser system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W522	8-Nov-13	Mid-Ebb	WSD21	DO(mg/L)	3.65	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	2.28	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	6.00	13.00	14.43	Remarks / Other Obs:	Inspection records Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W523	11-Nov-13	Mid-Ebb	WSD21	DO(mg/L)	3.24	3.66	3.28	Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	3.32	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	8.00	13.00	14.43	Remarks / Other Obs:	Inspection record Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.

Contract No. HK/2011/07 am Wanchai Development Phase II and Central Wanchai Bypass Lam Geotechnices Limited Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance Ref no. Parameters (Unit) Measured Date Tidal Location Action Leve Limit Level Follow-up action W524 13-Nov-13 Mid-Flood WSD17 DO(mg/L) 43 3.6 3.28 Possible reason: atural variation or changes of water quality in the vicinity of the water quality monitoring station Turbidity 9.49 Action taken / to be mmediate repeated in-situ measurements had conducted to confirm the 9.43 8.04 takon: exceedances. Checking with contractor's works. SS 10.00 13.00 14.43 Remarks / Other Obs: In view of no marine work was conducting during water quality monitoring, he exceedances was considered not project related. X_W525 13-Nov-13 Mid-Flood WSD19 DO(mg/L) 4.79 3.66 3.28 Possible reason: atural variation or changes of water quality in the vicinity of the water quality monitoring station. Turbiditv 8 04 9.49 Action taken / to be mmediate repeated in-situ measurements had conducted to confirm the 9.44 taken: exceedances. Checking with contractor's works. . Dredging works was conducted by Contractor HK/2012/08 during monitoring. SS 13.00 13.00 14.43 Remarks / Other Obs: Mitigation meaures including framed silt curtain was confirmed in place. The exceedances was considered not project related. X W526 13-Nov-13 Mid-Ebb WSD21 DO(mg/L) 4.07 3.66 3.28 Possible reason: Natural variation of water quality in the vicinity of the water quality monitoring tation WSD21 Turbidity 8 77 8.04 9.49 Action taken / to be nmediate repeated in-situ measurements had conducted to confirm the xceedances. Checking with contractor's works. Checking with contractor's taken. nspection record. SS 11.50 13.00 14.43 Remarks / Other Obs: Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order. In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related. X W527 13-Nov-13 Mid-Ebb WSD19 DO(mg/L) 4.84 3.66 3.28 Possible reason: atural variation or changes of water quality in the vicinity of the water quality monitoring station Turbidity 9.45 8.04 9.49 Action taken / to be mediate repeated in-situ measurements had conducted to confirm the xceedances. Checking with contractor's works. akon SS 18.5 13.00 14.43 Remarks / Other Obs: Dredging works was conducted by Contractor HK/2012/08 during monitoring. tigation meaures including framed silt curtain was confirmed in place.In view of the monitoring station was located at the upstream of the onstruction site, the exceedances was considered not project related. K W528 15-Nov-13 Mid-Flood WSD17 DO(mg/L) 4.57 3.66 3.28 Possible reason: latural variation or changes of water quality in the vicinity of the water quality monitoring station. Turbidity 8 78 8 04 9.49 Action taken / to be mmediate repeated in-situ measurements had conducted to confirm the akon exceedances. Checking with contractor's works. SS 10.00 13.00 14.43 Remarks / Other Obs: In view of no marine work was conducting during water guality monitoring, the exceedances was considered not project related. 15-Nov-13 Mid-Flood WSD21 3 28 Possible reason: K W529 DO(mg/L) 4 72 3.66 latural variation or changes of water quality in the vicinity of the water uality monitoring station. Turbidity 8.04 9 49 Action taken / to be mmediate repeated in-situ measurements had conducted to confirm the 8.1 akon exceedances. Checking with contractor's works. Checking with contractor's spection record SS 6.00 13.00 14.43 Remarks / Other Obs: view of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related X W530 15-Nov-13 Mid-Flood WSD19 3.66 3.28 Possible reason: DO(mg/L) 6.61 atural variation or changes of water quality in the vicinity of the water uality monitoring station Turbidity 8.04 9.49 Action taken / to be mmediate repeated in-situ measurements had conducted to confirm the 10.53 xceedances. Checking with contractor's works. aken 14.43 Remarks / Other Obs: Dredging works was conducted by Contractor HK/2012/08 during monitoring. SS 10.00 13.00 Aitigation meaures including framed silt curtain was confirmed in place. The exceedances was considered not project related.

am	Lam Geote	chnices Lii	nited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) Summary for Notification of Exceedance
Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	l imit Level	Follow-up action	
X_W531	15-Nov-13	Mid-Ebb	WSD17	DO(mg/L)	4.14	3.66	3.28		Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.24	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	7.00	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. In view of no marine work was conducting on that day and the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related.
X_W532	15-Nov-13	Mid-Ebb	WSD21	DO(mg/L)	4.12	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	9.61	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	19.00	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. In view of no marine work was conducting on that day and the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related.
X_W533	19-Nov-13	Mid-Flood	WSD17	DO(mg/L)	7.06	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.72	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				ss	10.50	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day. In view of no marine work was conducting on that day and the monitoring location was located upstream the water quality at monitoring stations located downstream marine work site were well below the Action level, the
X_W534	21-Nov-13	Mid-Flood	WSD17	DO(mg/L)	4.05	3.66	3.28	Possible reason:	exceedances was considered not project related Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	11.09	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	10.50	13.00	14.43	Remarks / Other Obs:	According to contractor record, silt screen washing was conducted on that day.
									In view of no marine work was conducting on that day and the monitoring location was located upstream the water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related
X_W535	23-Nov-13	Mid-Flood	WSD17	DO(mg/L)	4.98	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	8.40	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works.
				SS	10.00	13.00	14.43	Remarks / Other Obs:	No marine work was conducting during water quality monitoring. The water quality at monitoring stations located downstream marine work site were well below the Action level, the exceedances was considered not project related.
X_W536	23-Nov-13	Mid-Flood	WSD21	DO(mg/L)	4.62	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	7.97	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's
				SS	13.50	13.00	14.43	Remarks / Other Obs:	inspection record. Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.

lam	Lam Geote	chnices Li	mited						Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage 2) <u>S</u> ummary for Notification of Exceedance
Ref no.	Date	Tidal	Location	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_W537	23-Nov-13	Mid-Ebb	WSD21	DO(mg/L)	3.40			Possible reason:	Natural variation of water quality in the vicinity of the water quality monitoring station WSD21.
				Turbidity	1.90	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	<2	13.00	14.43	Remarks / Other Obs:	Additional water diffsuer system installed at monitoring station WSD21 was observed operating during monitoring. Silt screen was confirmed in order.
									In view of no marine activitie was conducted during monitoring and no further exceedance was recorded in the next consecutive monitoring, the exceedances was considered not project related.
X_W538	25-Nov-13	Mid-Flood	WSD21	DO(mg/L)	4.11	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station.
				Turbidity	10.36	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works. Checking with contractor's inspection record.
				SS	5.50	13.00	14.43	Remarks / Other Obs:	Inview of no marine work was conducting duriing water quality monitoring. Silt screen was confirmed in order, the exceedances was considered not project related.



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1) 2)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge	Closed
			3)	from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. No further complaints were received in the reporting			
					-,	month. The complaint is considered closed.	
100731	by ICC (CC	by ICC (CC Case: Road d 1-250702681) T	Complaint on the noise nuisance due to the dredging works.	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed	
				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	Ou	tcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1) 2)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen. Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	Closed
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	,	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 spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; No further complaint was received after implementation of proposed measures 	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)		The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	2)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected 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	.,	It is considered as invalid complaint under this Project. 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. 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.	Closed
					5)	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. 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	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. Referring to the record provided by Cayley Property	Closed
					4)	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	come	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Victoria Centre by ICC no. 1- 303887687 Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.			
	Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed			
					4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110723b	23/07/2011	Ms. Yau at Block 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	1) 2)	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	
				to the vicinity of the residents in early morning	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
			4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.			
110727a	27/07/2011	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	27/07/2011	Ms. Chiu by ICC	North Point	Noise nuisance from the excavation works for the	1)	It was referred by AECOM to ET on 28 July 2011	
		no.1-304615409		Highways Department adjacent to the Victoria Centre was conducted from 7am	2)	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.	
					Re	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	1)	It was referred by AECOM to ET on 17 August 2011.	Closed
		no. 1 – 306740207		from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2)	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	come	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.	
					3)	The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	 It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. The pump is located on the site area of HY/2009/19 A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. 	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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



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



Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				was also raised out by RSS at about 7:00 same day. Besides, it was confirmed that there	a.m on the e is no valid
				HK/2009/01 and their Korean Sub-contractor, I Sub-contractor had not notified to Contractor b carrying out the inspection of the BC cutter, ho bentonite pipes at about 6:00a.m to ensure no	Korean efore ists and damages
				between Contractor and sub-contractor and pr sufficient environmental training to all foreman operators on restricted hour operation. Futhern Construction Noise Permit should be checked	ovide and nore, and in
				conducted construction works during restricted without valid Construction Noise Permit. No mo construction works were conducted during nigh period. The construction works will be conduct accordance with the time period stated in valid complaint will be kept in view of any follow-up a	hours ore at time ed in CNP. This
05/04/2012	N/A	North Point	noise from construction sites of CBTS was observed daily before	 RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff th works were performed during the concerned performed during the concerned performed during the concerned performed and the noise level was below 75dB(A). Site in HY/2009/15 was conducted on 10 April 2 condition of noise mitigation measures around found satisfactory. RSS confirmed that no performed during the concerned period. The included drilling, diaphragm wall constr excavations. HyD made a reply to the complainant on 16 A 	eriod. g (M2b and ytime period ispection for 2012. The d CBTS was pilings were major works uction and pril 2012 via CBTS were
	Complaint	Complaint and Received By	Complaint and Received By Complainant	Complaint and Received By Complainant 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.	Complaint and Received By Complainant CNP was checked by the police officer. CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that was also raised out by RSS at about 7:00, same day. Besides, it was confirmed that there Construction Noise Permit for the conducted or works in the period between 2300 and 0700. 3) Due to insufficient communication between Construction Noise Permit for the conducted or works in the period between 2300 and 0700. 4) Due to insufficient communication between Construction Noise Permit thou the Contractor between 2300 and 0700. 5) Due to insufficient communication between Construction Noise Permit thou the Contractor and prosition. 4) Contractor was advised to enhance the communication between Construction works during restricted nour operators on restricted hour operation. Furthern Construction works during restricted place for the construction works during restricted part was considered in relation to the conduct accordance with the time period stated in valid complaint regarding excessive in construction works were conducted during nigregridue was accordance with the line period state in valid complaint regarding excessive in the line period state in valid conducted construction works were conducted during nigregridue was accordance with the Resident Site Staff the construction works science permit. North Point A complaint regarding exces



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



Appendix 10.1

Construction Programme of Individual Contracts

Contract No. HK/2009/01

Contract Title : Wan Chai Development Phase II - Central - Wan Chai Bypass at HKCEC

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010	2011	2012	2013
ACTIVITY	START	FINISH	FebMalApiMaJunJul Au SepOctNo De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb MarApi Ma Jun Jul Au; Sep Oct No De
Submissions before Works Commencement						
Submit silt curtain deployment plan	31/3/10	31/3/10	•			
Submit silt screen deployment plan	31/3/10	31/3/10	•			
Submit measures to mitigate noise impact	31/3/10	31/3/10	•			
Cross Harbour Watermains from WCN to TST (DP6)						
Trench dredging for marine watermains installation	29/4/10	28/10/10				
Backfilling for watermain	28/1/11	14/12/11				
Reclamation Works at HKCEC Water Channel (DP3)						
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10				
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11				
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11				
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11				
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12				
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13				

K/2009/02-Marine & Reclamation Works	Duration	Start	2010	2011 2012 2	013 2014 2015
	2008 d	Thu 28/1/10	04 01 02 03 04 01 0	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
Contract Commencement	0 d	Thu 28/1/10	•		
General	1879 d	Mon 22/2/10			
Submission & obtain approval for marine GI	21 d	Mon 22/2/10			
Stage 1 Marine GI for reclamation					
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Construction of Permanent Seawall Blocks for curved coastline					
	Stage 1 Marine GI for reclamation Engineer's Design review for Dredging of WCR1, WCR2 & WCR4 Relocation of New Star Ferry Pier Demolition of Existing Star Ferry Pier Stage 2 Marine GI for Reclamation Engineer's Design review for Dredging of WCR3 Complete Diversion of Hung Hing Road Traffic Back to Original Excavate & remove top of d-wall for permanet seawall construction Submarine Outfall Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea Phase 1 - WCR1 Mobilization of plants Seabed dredging Bedding Filling and Permanent seawall (precast cassion) Bulk reclamation Phase 2 - WCR2 Mobilization of plants Temp seawall and Seabed dredging Bulk reclamation Phase 3 - TWCR4 & WCR4 Mobilization of plants Temp Seawall and Seabed dredging Bulk temp reclamation Phase 4 - WCR3 Mobilization of plants Seabed dredging for Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dRelocation of New Star Ferry Pier0 dDemolition of Existing Star Ferry Pier100 dStage 2, Marine GI for Reclamation14 dEngineer's Design review for Dredging of WCR321 dComplete Diversion of Hung Hing Road Traffic Back to Original20 dExcavate & remove top of d-wall for permanet seawall construction50 dSubmarine Outfall500 dDredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dPhase 1 - WCR1158 dMobilization of plants1 dSeabed dredging63 dBedding Filling and Permanent seawall (precast cassion)60 dBulk reclamation37 dPhase 2 - WCR2149 dMobilization of plants1 dTemp seawall and Seabed dredging77 dBulk reclamation73 dPhase 3 - TWCR4 & WCR498 dMobilization of plants1 dTemp Seawall and Seabed dredging75 dBulk & temp reclamation24 dPhase 4 - WCR3294 dMobilization of plants1 dSeabed dredging for Permanent Seawall12 dSeabed dredging for Permanent Seawall12 dPhase 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4105 dMobilization of plants1 dDredging and Filling for permanent Seawall Blocks for curved coastline50 d	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier10 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)60 dTue 22/6/10Buk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Buk reclamation73 dWed 16/5/12Phase 3 - TWCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Seabed dredging for Permanent Seawall11 dTue 18/3/14Mobilization of plants1 d <t< td=""><td>Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier100 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Bulk reclamation77 dThu 1/3/12Phase 3 - WCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dSat 28/4/12Temp Seawall and Seabed dredging75 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 8/3/14Bulk reclamation108 dTue 8/3/14Phase 4 - WCR3294 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Phase 5 - Construct Perm</td><td>Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laving and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR21 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Bulk reclamation75 dSat 28/4/12Phase 3 - TWCR4 & WCR496 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Bulk reclamation75 dSat 28/4/12Phase 4 - WCR310 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Seabed dredging for</td></t<>	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier100 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Bulk reclamation77 dThu 1/3/12Phase 3 - WCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dSat 28/4/12Temp Seawall and Seabed dredging75 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 8/3/14Bulk reclamation108 dTue 8/3/14Phase 4 - WCR3294 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Phase 5 - Construct Perm	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laving and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR21 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Bulk reclamation75 dSat 28/4/12Phase 3 - TWCR4 & WCR496 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Bulk reclamation75 dSat 28/4/12Phase 4 - WCR310 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Seabed dredging for

Activity	Cal		Orig	Early	Early	2010 2011	204.2	2010			1	
ID	ID	Description	Dur	Start	Finish	2010 2011	2012	2013	2014	2015	2016	2017
CBRIE (T												
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11	TCBR1E(TS1)-dredging+rock	fill(prep. for sea	awall)			
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11	TCBR1E (TS	S1)-temporary r	eclamation				
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12		TCBR1E (TS)- removal of te	mporary reclama	ation		
BR4						201						
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10	Maintenance dree	dging for naviga	tion safety for r	elocation of RHM	(YC mooring a	t Area B	
		TS2 Area)										
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10	ITCBR2&TCBR3(T	S2)- Maintenan	e dredging for	navigation safety	at Area A for	relocation of com	nercial ves
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12		TCBR2&TCB	R3(TS2)-dredge-	+rockfill seabed	(preparation fo	or seawall)	
120	1	TCBR2&TCBR3(TS2)temporary reclamation	115	26FEB12*	19JUN12				emporary reclam			
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	130CT13						porary reclamation	1
BR1W (1	S4 Are	a)										
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11	TCBR1W(TS4)	-dredging+rock	ill(prep. for sea	wall)			
130	1	TCBR1W(TS4) temporary reclamation	68	28JAN11	05APR11	TCBR1W(TS	64)temporary	reclamation				
165	1	TCBR1W(TS4)removal temporary reclamation	26	270CT13*	21NOV13			UT	CBR1W(TS4)re	moval tempora	arv reclamation	
CWAE											., ····	
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11	TPCWAE-dredg	ging+rockfill(pr	ep. for seawall)				
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	22. Dec 0127, OAU-14	temporary recla					
170	1	TPCWAEremoval temporary reclamation	28	28SEP13*	250CT13				CWAEremoval	temporary reci	amation	
CWAW					nx				- The Tennerta	temperary ree	ATTRACTOR 1	
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	280CT13*	13DEC13				TPCWAW-dredgi	na+rockfill(pre	n for seawall)	
150	1	TPCWAWtemporary reclamation	83	14DEC13	06MAR14	-			TPCWAWte			
175	1	TPCWAWremoval temporary reclamation		02JUL15*	20AUG15	-	TP		I temporary recla		manon	
		EP02 Progress Bar		CONT	RACT NO. HY/	RUCTION ENGG LTD 2009/15: CENTRAL		· · · · · · · · · · · · · · · · · · ·	based on IWP Rev. (pared: 28 Oct 2010)		
		Critical Activity		WAN CHA	I BYPASS- TU	NNEL (CBTS SECTIO	N)					

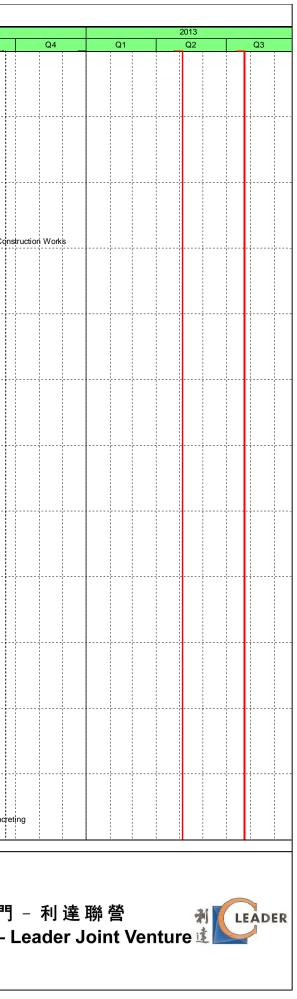
WDII- Central- Wan Chai Bypass Over MTR Tsuen Wan Line (Rev. L) Page 1 of 15

	Activity Name	Original Start	Finish	Total Predecessors Float	Successors	(21		Q2	2011	Q3	Q4	Q1		Q2	2012	Q3	
)II- Central- War	n Chai Bypass Over MTR Tsuen Wan Line (R	927 20-Jan-11	03-Aug-13	0		+	<u>,</u>			-						_		_
llestone		904 20-Jan-11	11-Jul-13	23									_				_	_
Contract Obligation		904 20-Jan-11	11-Jul-13	23														_
CNO1000	Commencement of Section I of works	0 20-Jan-11*		0	INW 1220, AE	o de la co	mmence	ement of	Section	of works								
CNO1010	Commencement of Section II and III of works	0 02-Aug-12*		60	PPT9000, TA						1						Com	, hme
CNO1020	Completion of Section I works	0	22-Apr-13*	0 PCY1120, AD U1			· · · · · ·				· • • • • • • • • • • • • • • • • • • •						++	1
CNO1030	Completion of Section II works	0	11-Jul-13*	0 MSW7040, PXX5														
CNO1040	Completion of Section III works	0	19-Dec-12*	227 PPT9040														
ection I		824 20-Jan-11	22-Apr-13	103								_	+ + +				÷	H
Preliminaries		73 20-Jan-11	02-Apr-11	40				02	Apr-11.	Preliminarie	Ś							
General		73 20-Jan-11	02-Apr-11	40					Apr-11,		T		· • • • • • • • • • • • • • • • • • • •					
INW1110	Apply C&D waste disposal	30 20-Jan-11	18-Feb-11	70 CNO1000	DRW1330	┢╋	Appl		vaste dis									
INW1120	Notification of chemical waste producer	30 20-Jan-11	18-Feb-11	70 CNO1000	DRW1330	-				al waste pro	ducer							
INW1130	Notification to Labor Dept-works commencement	30 20-Jan-11	18-Feb-11	70 CNO1000	DRW1330	╞┥	P				commencement							
INW1140	Apply Marine Notice to Marine Department (For Dredging)	30 20-Jan-11	18-Feb-11	62 CNO1000	DRW1310		P		- i - i		epartment (For Dre	edging)						1
INW1150	Site Office Establishment	14 27-Jan-11	09-Feb-11*	19 CNO1000	MON1200		Site D	office Est	ablishme	nt	· · · · · · · · · · · · · · · · · · ·							
INW1160	Apply CNP for Piling Works	30 31-Jan-11	01-Mar-11	52 CNO1000	WBS1570			pply CN	P for Pili	ng Works								ĺ.
INW1170	Apply Marine Notice to Marine Department (For Piling Works)	30 18-Feb-11	19-Mar-11	54 CNO1000	WBS1570			Apply	Marine I	lotice to Ma	rine Department (F	or Piling Worl	ks)					
INW1180	Apply FEP and notify EPD	28 18-Feb-11	17-Mar-11	43 CNO1000	DRW1330			Apply	FEP and	notifyEPD								
INW1190	Apply dumping permit	28 18-Feb-11	17-Mar-11	43 CNO1000	DRW1330		-	Apply	dumping	permit								1
INW1200	Submit ADMS and vibration monitoring MS	27 22-Feb-11	20-Mar-11	40 CNO1000	MON1210	[* *	╡══╧				n monitoring MS						11	
INW1210	Submit risk assessment to MTR	21 28-Feb-11	20-Mar-11	40 CNO1000	DRW1330	111			1 1	essment to	1 1 1							
INW1220	Erect hoarding	34 28-Feb-11	02-Apr-11*	28 CNO1000	DRW1330	1		— 	ect hoard	ng								
Monitoring		21 28-Feb-11	21-Mar-11	40				▼ 21-M	ar-11, Mo	nitoring								
Monitoring for MT	rR Tsuen Wan Line	21 28-Feb-11	21-Mar-11	40				▼ 21-M	ar-11, Ma	nitoring for	MTR Tsuen Wan L	ine						
MON1200	Immerse tube internal condition survey	21 28-Feb-11	20-Mar-11	40 CNO1000, INW1	DRW1330, N		-	I (mme	rse tube	nternal con	dition survey							[
MON1210	Takeover monitoring system from C1	0 21-Mar-11*		40 MON1200, INW1	DRW1330		4	Taked	over mon	toring syste	m from C1							
MON1220	Commence monitoring- ADMS,etc	0 21-Mar-11*		40	DRW1330			- 1 Hi		nitoring- Al								1
Dredging		574 18-Feb-11	13-Sep-12	324					-			_			 	—	┿┿┯┯┥	÷
1st Stage of Dredg	ging	93 18-Feb-11	21-May-11	33			-			1-May-11, 1	st Stage of Dredgi	ng						i.
DRW1300	Submit Method Statement for Dredging Works	26 18-Feb-11	19-Mar-11	27 CNO1000	DRW1310, E	;L		l Subm	it Method	Statement	for Dredging Work	s						[
DRW1310	Acceptance of Method Statement for Dredging	0	19-Mar-11*	27 DRW1300, INW ⁷	DRW1320			·	1 1		ement for Dredgin							
DRW1320	Initial hydrographic survey	2 21-Mar-11	22-Mar-11	27 DRW1310	DRW1330		- F	Initia	l hydrogr	aphic survey	/							
DRW1330	Dredging to formation level section (Portion 1)	15 25-Mar-11	12-Apr-11	27 MON1200, MON	WBS1560, D		- -				level section (Por	tion 1)						
DRW1340	Dredging to formation level section (Portion 2)	29 13-Apr-11	21-May-11	27 DRW1330	DRW1510, E		ΙIΓ	┙┝╾┢			formation level sec)					
2nd Stage of Dred		238 20-Jan-12	13-Sep-12	324									· · · · · · · · · · · · · · · · · · ·					1
DRW1505	Acceptance of Method Statement for Dredging	0	13-Sep-12*	261 DRW1510														
DRW1510	Submit Method Statement for Dredging Works	23 20-Jan-12	18-Feb-12	261 DRW1340	DRW1505								Su	ubmit; Metho	d Staten	nent for D	Dredging V	Ņο
Piling		396 25-Mar-11	23-Apr-12	58				-				_			23-Apr-	12, Piling	3	
West Bound Temp	p. Type 2 Platform	158 25-Mar-11	29-Aug-11	102				V II			29-Aug-1	1, West Bound	Temp. Type 2 Pl	atform				
WBS1560	Preparation Works and Mobilizing for Temporary Type 2 Platform	n 26 25-Mar-11	28-Apr-11	39 DRW1330	WBS1570		4	-			s and Mobilizing fo	r Temporary T	ype 2 Platform					1
WBS1570	staging piles P9 - P12	8 29-Apr-11	09-May-11	39 INW1170, INW11	WBS1580			4	🔲 sta	ing piles P) - P12							
WBS1580	staging piles P7 - P8	3 11-May-11	13-May-11	39 WBS1570	WBS1590				sta	ging piles P	7 · P8							1
WBS1590	staging piles P5 - P6	3 14-May-11	17-May-11	39 WBS1580	WBS1600				🛏 🛛 si	aging piles	P5 - P6							
WBS1600	staging piles P13 - P14	3 18-May-11	20-May-11	39 WBS1590	WBS1610, V					aging piles	P13 - P14							1
WBS1610	staging piles P15 - P16	3 21-May-11	24-May-11	40 WBS1600	WBS1620				4-0	staging piles	s P15 - P16							
WBS1620	staging piles P17 - P18	3 25-May-11	27-May-11	40 WBS1610	WBS1630				╘┣═┓	staging pile	s P17 - P18							1
WBS1630	staging piles P19 - P20	3 28-May-11	31-May-11	40 WBS1620	WBS1640					staging pil	es P19 i P20							
WBS1640	staging piles P21 - P22	3 01-Jun-11	03-Jun-11	40 WBS1630	WBS1650						le <mark>s</mark> P21 - P22							
WBS1650	staging piles P23 - P24	3 04-Jun-11	08-Jun-11	40 WBS1640	WBS1660						oil <mark>e</mark> s P23 - P24							İ.
WBS1660	staging piles P25 - P26	3 09-Jun-11	11-Jun-11	40 WBS1650	WBS1670					staging	pil <mark>e</mark> s P25 - P26							Ľ
WBS1670	staging piles P59 - P60	2 13-Jun-11	14-Jun-11	40 WBS1660	WBS1690						piles P59 - P60							ĺ.
	staning siles P2 - P4	3 15-Jun-11	17-Jun-11	40 WBS1670	WBP1710, V					►staging	piles P3 - P4							į.
WBS1690	staging piles P3 - P4		16-Jul-11	85 WBS1690	WBS1710					▕▕┡╪┓	staging piles P1 - F	2						Į.
	staging piles P3 - P4 staging piles P1 - P2	8 08-Jul-11									Erection	of Type 1 Platfo	orm		[]			į.
WBS1690		8 08-Jul-11 17 10-Aug-11	29-Aug-11	85 WBS1700	WBP1860, V	I.I. E.			فيتعاديك									1
WBS1690 WBS1700	staging piles P1 - P2 Erection of Type 1 Platform		29-Aug-11 04-Oct-11	85 WBS1700 76	WBP1860, V						• • • •	4-Oct-11, Wes	t Bound Predrilli	ng				į.
WBS1690 WBS1700 WBS1710	staging piles P1 - P2 Erection of Type 1 Platform	17 10-Aug-11	-		WBP1860, W WBP1720						Preparation Works	and Mobilizin	g for Type 3 Plat	tform				
WBS1690 WBS1700 WBS1710 West Bound Predr	staging piles P1 - P2 Erection of Type 1 Platform rilling	17 10-Aug-11 91 06-Jul-11	04-Oct-11	76							Preparation Works	and Mobilizin	g for Type 3 Plat	tform				
WBS1690 WBS1700 WBS1710 West Bound Predr WBP1710	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11	04-Oct-11 19-Jul-11	76 40 WBS1690	WBP1720						Preparation Works Erection of Temp A14, A16	and Mobilizin	g for Type 3 Plat	tform				
WBS1690 WBS1700 WBS1710 West Bound Predr WBP1710 WBP1720	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11	04-Oct-11 19-Jul-11 27-Jul-11	76 40 WBS1690 39 WBD1050, WBP	WBP1720 WBP1730						Preparation Works	and Mobilizin	g for Type 3 Plat	tform				
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WBS1690 WBS1700 WBS1710 WBP1710 WBP1720 WBP1730 WBP1740 Actual Work	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling A14, A16 A15, A12 Date Revision Ch App 31-May-12 Rev E ME KT	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11 3 28-Jul-11 4 01-Aug-11	04-Oct-11 19-Jul-11 27-Jul-11 30-Jul-11	76 40 WBS1690 39 WBD1050, WBP 39 WBP1720 39 WBP1730	WBP1720 WBP1730 WBP1740	No	D.:	HK	/20		Preparation Works Erection of Temp A14, A16 A15, A12	and Mobilizin	g for Type 3 Plat	tform				
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WBS1690 WBS1700 WBS1710 WBS1710 WBP1710 WBP1720 WBP1730 WBP1740 Actual Work Remaining W Critical Remai	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling A14, A16 A15, A12 Date Revision Ch A1-May-12 Rev. E MF XT-May-12 Rev. F MF A19, Jul-12 Rev. G MF	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11 3 28-Jul-11 4 01-Aug-11	04-Oct-11 19-Jul-11 27-Jul-11 30-Jul-11	76 40 WBS1690 39 WBD1050, WBP 39 WBP1720 39 WBP1730	WBP1720 WBP1730 WBP1740 WBP1750					10/0	Preparation Work Frection of Temp A14,A16 415,A12)6	and Mobilizin	g for Type 3 Plat	tform				
WBS1690 WBS1700 WBS1710 WBP1710 WBP1720 WBP1720 WBP1730 WBP1740 Actual Work Remaining W Critical Remai	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling A14, A16 A15, A12 Date Revision Ch Application 31-May-12 Rev. E MF KT 23-Jun-12 Rev. G Apply-12 Rev. G 19-Jul-12 Rev. H 14-Aug-12 Rev. H	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11 3 28-Jul-11 4 01-Aug-11	04-Oct-11 19-Jul-11 27-Jul-11 30-Jul-11	76 40 WBS1690 39 WBD1050, WBP 39 WBP1720 39 WBP1730	WBP1720 WBP1730 WBP1740 WBP1750					10/0	Preparation Work Frection of Temp A14,A16 415,A12)6	and Mobilizin	g for Type 3 Plat	tform			 金	
WBS1690 WBS1700 WBS1710 WBS1710 WBP1710 WBP1720 WBP1730 WBP1740 Actual Work Remaining W Critical Remai	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling A14, A16 A15, A12 A14, A16 A15, A12 The Revision Ch App 31-May-12 Rev. E MF XT 23-Jun-12 Rev. F MF 19-Jul-12 Rev. G MF KT 14-Aug-12 Rev. H MF KT 19-Sep-12 Rev. I MF KT	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11 3 28-Jul-11 4 01-Aug-11	04-Oct-11 19-Jul-11 27-Jul-11 30-Jul-11 04-Aug-11	76 40 WBS1690 39 WBD1050, WBP 39 WBP1720 39 WBP1730 Co Wan C	WBP1720 WBP1730 WBP1740 WBP1750 ntract hai De	eve	elop	om	ent	10/0 Pha	Peparation Works Erection of Temp A14,A16 A15,A12)6 ASE II-	s and Mobilizin α ary Type 3 F	g for Type 3 Plat Nationn for Pred	tform	G	amn	金 mon	
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WBS1690 WBS1700 WBS1710 WBP1710 WBP1720 WBP1720 WBP1730 WBP1740 Actual Work Remaining W Critical Remai	staging piles P1 - P2 Erection of Type 1 Platform rilling Preparation Works and Mobilizing for Type 3 Platform Erection of Temporary Type 3 Platform for Predrilling A14, A16 A15, A12 A14, A16 A15, A12 The Revision Ch App 31-May-12 Rev. E MF XT 23-Jun-12 Rev. F MF 19-Jul-12 Rev. G MF KT 14-Aug-12 Rev. H MF KT 19-Sep-12 Rev. I MF KT	17 10-Aug-11 91 06-Jul-11 12 06-Jul-11 6 21-Jul-11 3 28-Jul-11 4 01-Aug-11	04-Oct-11 19-Jul-11 27-Jul-11 30-Jul-11 04-Aug-11	76 40 WBS1690 39 WBD1050, WBP 39 WBP1720 39 WBP1730 Co Wan C	WBP1720 WBP1730 WBP1740 WBP1750 ntract hai De	eve	elop	om	ent	10/0 Pha	Peparation Works Erection of Temp A14,A16 A15,A12)6 ASE II-	s and Mobilizin α ary Type 3 F	g for Type 3 Plat Nationn for Pred	tform	G	amn		

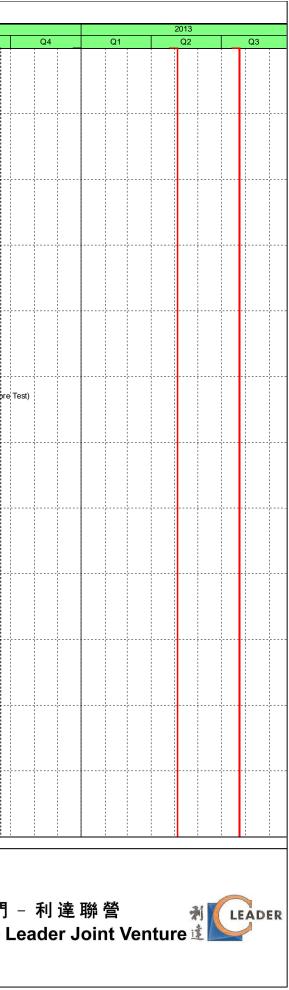
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Ac	tivity ID		Activity Name	Original Start	Finish	Total Predecessors Float	Successors		2011			2012	
-		WDD4750	A44	Duration	00 Aug 44		W/DD4755	Q1 Q2		Q4	Q1	Q2	Q3
		WBP1750 WBP1755	A11	2 05-Aug-11	06-Aug-11	39 WBP1740	WBP1755 WBP1760			,			
		WBP1755 WBP1760	A13 A10	2 08-Aug-11 6 10-Aug-11	09-Aug-11 16-Aug-11	39 WBP1750 39 WBP1755	WBP1760 WBP1765						
		WBP1765	A28	3 13-Aug-11	16-Aug-11	39 WBP1760	WBP1770		21 I II I <mark>I</mark> I I	28			
		WBP1770	A29	4 17-Aug-11	20-Aug-11	39 WBP1765	WBP1780			29			
		WBP1780	A18, A22	4 22-Aug-11	25-Aug-11	39 WBP1770	WBP1790	+	·┽┽╸┥╸╸┝╷┥╸╸╸┝┥ <mark>┲╼</mark> ╋ <u>╴</u> ┍┝	A18, A22			
		WBP1790	A19, A23	4 26-Aug-11	30-Aug-11	39 WBP1780	WPP1400, V			A19, A23			
		WBP1800	A20, A24	4 31-Aug-11	03-Sep-11	64 WBP1790	WBP1810			A20, A24			
		WBP1810	A21, A25	4 05-Sep-11	08-Sep-11	64 WBP1800	WBP1820			A21, A25			
		WBP1820	A26, A27	4 09-Sep-11	14-Sep-11	64 WBP1810	WBP1830			A26, A27			
		WBP1830	A4, A6	4 15-Sep-11	19-Sep-11	64 WBP1820	WBP1840		L	► A4, A6			
		WBP1840	A5, A8	4 20-Sep-11	23-Sep-11	64 WBP1830	WBP1850			➡ I A5, A8			
		WBP1850	A7, A9	4 24-Sep-11	28-Sep-11	64 WBP1840	WBP1860			A7, A9			
		WBP1860	A3	4 29-Sep-11	04-Oct-11	64 WBP1850, WBS	EBP2610, W			- A3			
	_	West Bound Bored P	ile Construction Works	265 27-Jun-11	17-Mar-12	72						/ar+12, West Boun	d Bored Pile Co
		Driving of 2650mm		83 27-Jun-11	17-Sep-11	104				17-Sep+11, Driving o	of 2650mm dia. casing		
		WBD1000	A14	2 27-Jun-11	28-Jun-11	39 WBS1600	WBD1010		A14				
		WBD1010	A16	2 30-Jun-11	02-Jul-11	39 WBD1000	WBD1020		A16 A18				
		WBD1020	A18	2 08-Jul-11	09-Jul-11	39 WBD1010	WBD1030		A18				
		WBD1030	A12	3 11-Jul-11	13-Jul-11	39 WBD1020	WBD1040						
		WBD1040	A10	3 14-Jul-11	16-Jul-11	39 WBD1030	WBD1050						
		WBD1050	A20	3 18-Jul-11	20-Jul-11	39 WBD1040	WBP1720, V						
		WBD1060	A22	3 21-Jul-11	23-Jul-11	104 WBD1050	WBD1070		→ A22				
		WBD1070	A24	3 25-Jul-11	27-Jul-11	104 WBD1060	WBD1080						
		WBD1080 WBD1090	A26 A28	3 28-Jul-11	30-Jul-11	104 WBD1070 104 WBD1080	WBD1090 WBD1100	+	·┽╂╸╸╸╸┝╴╸╸┏╼╋ <mark>╻</mark> ╸╟┶╶┝		++		
		WBD1090	720 T5	3 01-Aug-11 3 04-Aug-11	03-Aug-11 06-Aug-11	104 WBD1080	WBD1100 WBD1110		A28				
		WBD1100	A8	3 30-Aug-11	01-Sep-11	85 WBD1100, WBS	WBD1110 WBD1120			A 8			
		WBD1120	A6	3 02-Sep-11	05-Sep-11	85 WBD1110	WBD1120			1 46			
		WBD1120	A4	10 06-Sep-11	17-Sep-11	85 WBD1120	WPP1500			A6			
		Excavation to Roc		123 31-Aug-11	· ·	86			· + + - ↓		▼ 31-Dec-11, Excavation	n to Rockhead Lev	el
			A15	5 31-Aug-11	05-Sep-11	39 WBP1790	WPP1410	1		A15			
		WPP1410	A11	3 08-Sep-11	10-Sep-11	39 WPP1400	WPP1420			-0 A11			
		WPP1420	A17	4 14-Sep-11	17-Sep-11	39 WPP1410	WPP1430		1 I I I	►0 A17			
		WPP1430	A13	2 19-Sep-11	20-Sep-11	39 WPP1420	WPP1440			A13			
		WPP1440	A21	3 23-Sep-11	26-Sep-11	39 WPP1430	WPP1450			• A21			
		WPP1450	A27	5 30-Sep-11	07-Oct-11	39 WPP1440	WPP1460			A27			
		WPP1460	A12	2 08-Oct-11	10-Oct-11	39 WPP1450	WBC2010, V			A12			
		WPP1470	A19	4 11-Oct-11	14-Oct-11	55 WPP1460	WPP1480			A19 A29			
		WPP1480	A29	5 17-Oct-11	21-Oct-11	55 WPP1470	WPP1490			A29			
		WPP1490	A16	3 22-Oct-11	25-Oct-11	55 WPP1480	WPP1500			►1 A16			
		WPP1500	A5	4 26-Oct-11	29-Oct-11	55 WPP1490, WBD	WPP1510			► 1 A5			
		WPP1510	A20	5 31-Oct-11	04-Nov-11	55 WPP1500	WPP1520			▲□ A6 A20 ▲□ A25 ▲□ A25 ▲□ A39			
		WPP1520	A25	5 05-Nov-11		55 WPP1510	WPP1530			A25			
		WPP1530	A9	4 11-Nov-11	15-Nov-11	55 WPP1520	WPP1540			► A9			
		WPP1540	A14	3 16-Nov-11	18-Nov-11	55 WPP1530	WPP1560, V						
		WPP1550	A10	2 23-Nov-11	24-Nov-11	55 EPP1480	WPP1570						
		WPP1560	A23	5 19-Nov-11	24-Nov-11	69 WPP1540	WPP1580			A10 A23 A3 A3			
		WPP1570 WPP1580	A3 A18	6 25-Nov-11 5 25-Nov-11	01-Dec-11 30-Nov-11	55 WBP1860, WPP 69 WPP1560	WPP1590 WPP1600						
		WPP1580 WPP1590	A7	5 25-N0V-11 5 02-Dec-11	07-Dec-11	55 WPP1560	WPP1600 WPP1610	╂╍┠╍┊┿┿╍╍╺┊╍╸╪╶┾╌┝	· {{				
		WPP1600	A28	5 01-Dec-11	06-Dec-11	69 WPP1580	WPP1610						
		WPP1610	A4	5 08-Dec-11	13-Dec-11	55 WPP1590	WPP1630, V						
		WPP1620	A22	5 07-Dec-11	12-Dec-11	69 WPP1600	WPP1640				22		
		WPP1630	A8	5 14-Dec-11	19-Dec-11	57 WPP1610	EPP1490				A8		
		WPP1640	A26	5 13-Dec-11	17-Dec-11	69 WPP1620	WPP1650	1	·		A26		
		WPP1650	A6	5 19-Dec-11	23-Dec-11	69 WPP1640	WPP1660				A20 A6 A24		
		WPP1660	A24	5 24-Dec-11	31-Dec-11	69 WPP1650	EPP1510				A24		
		Rock Excavation a	nd Concreting	145 25-Oct-11	17-Mar-12	72				╶╶╎┊╎ ╺┊╎╸┥┥╸	17-N	/ar-12, Rock Excav	ation and Conc
		WBC2010	A12	13 25-Oct-11	08-Nov-11	39 WPP1460	WBC2040			A12			
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		Actual Work		roved		Γ_{Λ}	ntract	No.: HK/20	110/06				
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		Remaining Wor	K 23-Jun-12 Rev. F MF KT										
		Critical Remaini	ng 19-Jul-12 Rev. G MF KT			Wan C	hai Da	evelopmen	t Phaca	11-			A =
•	•	 Milestone 	14-Aug-12 Rev. H MF KT	———————————————————————————————————————		v an O		stophien	1 11430	11			金門
	-	Summary	19-Sep-12 Rev. I MF KT									Cam	mon –
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			21-Nov-12 Rev. J MF KT	`	Sincu								
			19-Feb-13 Rev. K MF KT					- -					
			05-Mar-13 Rev. L MF KT				(Works	s Programme - Rev.	L)				

WDII- Central- Wan Chai Bypass Over MTR Tsuen Wan Line (Rev. L) Page 2 of 15



	Activity Name		Original Start	Finish	Total Predecessors Float	Successors	Q1	2011 Q2	Q3	Q4	Q1	2	2012
WBC2020	A20		5 01-Nov-11	05-Nov-11	39 WBC2040	EBC2000							
WBC2040	A16		16 28-Oct-11	15-Nov-11	39 WBC2010	WBC2020				A20			
WBC2050	A14		5 19-Nov-11	24-Nov-11	55 EBC2000, WPP	WBC2060				⊢ ∎ A14			
WBC2060	A10		5 23-Nov-11	28-Nov-11	55 WBC2050	EBC2010)		
WBC2070	A18		6 01-Dec-11	07-Dec-11	55 EBC2010	WBC2080					18		
WBC2080	A15		6 05-Dec-11	10-Dec-11	55 WBC2070	WBC2090		***			A15		
WBC2090	A11		6 08-Dec-11	14-Dec-11	55 WBC2080	WBC2150					A11		
WBC2100	A13		6 14-Dec-11	20-Dec-11	55 WPP1610	WBC2160					A13		
WBC2150	A17		6 12-Dec-11	17-Dec-11	55 WBC2090	WBC2165					A17		
							-						
WBC2160	A8		7 17-Dec-11	24-Dec-11	55 WBC2100	WBC2170	↓	÷÷••••••	·····] A8	······	
WBC2165	A19		6 15-Dec-11	21-Dec-11	55 WBC2150	WBC2170					A19		
WBC2170	A6		5 22-Dec-11	29-Dec-11	55 WBC2165, WBC						A6		
WBC2180	A24		4 05-Jan-12	09-Jan-12	55 WBC2170	WBC2320, V					A24		
WBC2190	A29		14 30-Dec-11	16-Jan-12	55 WBC2170	WBC2210					A29		
WBC2200	A7		10 07-Jan-12	18-Jan-12	60 WBC2180	EBC2060					₩ □ Å7		
WBC2210	A21		6 13-Jan-12	19-Jan-12	55 WBC2190	WBC2220					► A21		
WBC2220	A27		8 17-Jan-12	28-Jan-12	55 WBC2210	WBC2230					- A27		
WBC2230	A5		7 20-Jan-12	31-Jan-12	55 WBC2220	WBC2240					Δ5 🕞		
WBC2240	A23		7 28-Jan-12	04-Feb-12	55 WBC2230	WBC2250					A23	2	
WBC2250	A23		5 01-Feb-12	06-Feb-12	55 WBC2240	WBC2230						1 1 1 1	
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WBC2260	A25		5 03-Jan-12	07-Jan-12	78 WBC2170	WBC2270						200	
WBC2270	A28		6 08-Feb-12	14-Feb-12	55 WBC2260, WBC						ىسى ئ	28	
WBC2280	A22		5 11-Feb-12	16-Feb-12	55 WBC2270	WBC2290						A22	
WBC2290	A26		5 15-Feb-12	20-Feb-12	55 WBC2280	WBC2300						A26	
WBC2300	A4		8 17-Feb-12	25-Feb-12	55 WBC2290	EBC2160						A4	
WBC2310	A3		8 28-Feb-12	07-Mar-12	55 WBC2320, EBC	EBC2170						⊒⊲ A3	
WBC2320	Testing (i.e Sonic Test and Inte	rface Core Test)	55 11-Jan-12	17-Mar-12	55 WBC2180	PCW1800, V	11				┡╼═╧╫╁╔	Testing (i.e Sonic T	Test and li
East Bound Temp	Type 2 Platform		121 23-May-11	20-Sep-11	112				20-Se	ep-11, East Bo	ound Terring. Typ	pe 2 Platform	
EBS2210		zing for Temporary Type 2 Platform	29 23-May-11	25-Jun-11	27 DRW1340	EBS2260		Prepar	ation Works and M			e 2 Platform	
EBS2260	staging piles P35 - P38		8 20-Jun-11	28-Jun-11	27 EBS2210	EBS2270			g piles P35 - P38				
EBS2270	staging piles P33 - P34		2 29-Jun-11	30-Jun-11	27 EBS2260	EBS2280	.		g piles P38 - P34			· · · · · · · · · · · · · · · · · · ·	
EBS2280	staging piles P31 - P32		3 02-Jul-11	05-Jul-11	27 EBS2270	EBS2290			ing piles P31 - P3				
EBS2290	staging piles P29 - P30		3 06-Jul-11	08-Jul-11	27 EBS2280	EBS2300			ng piles P29 - P3				
EBS2300	staging piles P39 - P40		3 09-Jul-11	12-Jul-11	27 EBS2290	EBS2310			ging piles P39 - P				
EBS2310	staging piles P41 - P42		3 13-Jul-11	15-Jul-11	27 EBS2300	EBS2320		► sta	ging piles P41 - F	P42			
EBS2320	staging piles P43 - P44		3 16-Jul-11	19-Jul-11	27 EBS2310	EBS2330		Land State S	aging piles P43 -	P#4			
EBS2330	staging piles P45 - P46		3 20-Jul-11	22-Jul-11	27 EBS2320	EBS2340			aging piles P45 -	P46			
EBS2340	staging piles P47 - P48		3 23-Jul-11	26-Jul-11	27 EBS2330	EBS2350, EE			staging piles P47	- 948			
EBS2350	staging piles P49 - P50		3 27-Jul-11	29-Jul-11	58 EBS2340	EBP2310, EE			staging piles P49				
EBS2360	staging piles P51 - P52		3 30-Jul-11	02-Aug-11	91 EBS2350	EBS2365		F	staging piles P5				
EBS2365				-	91 EBS2360	EBS2367	+- <mark>-</mark>			눈물 뭐 뭐 ~ ~ ㅎ ㅎ ㅋ ~ ㅋ ㅋ		· · · · · · · · · · · · · · · · · · ·	
	staging piles P27 - P28		8 03-Aug-11	11-Aug-11					P				
EBS2367	Erection of Type 1 platform		24 12-Aug-11	08-Sep-11	91 EBS2365	EBS2370				of Type 1 pla			
EBS2370	staging piles P53 - P54		3 09-Sep-11		91 EBS2367	EBS2380			staging) piles P53 - P	P54		
EBS2380	staging piles P55 - P56		3 14-Sep-11	16-Sep-11	91 EBS2370	EBS2390			stagin	g piles P55 - I	P\$6		
EBS2390	staging piles P57 - P58		3 17-Sep-11	20-Sep-11	91 EBS2380	EBP2580			└ ► ∎ stagir	g piles P55 - I ng biles P57 -	P58		
East Bound Predri	lling		109 29-Jul-11	14-Nov-11	74			•		14 No	v 11, East Bour	td Predrilling	
EBP2310	Preparation Works and Mobiliz	zing for Type 3 Platform	14 29-Jul-11	13-Aug-11	58 EBS2350	EBP2330			Preparation V	Voiks and Mo	bilizing for Typ	e 3 Platform	
EBP2330	Erection of Temporary Type 3 F		5 15-Aug-11	19-Aug-11	58 EBP2310	EBP2430	11		Erection of T	emporary Tvo	oe 3 Platform fo	or Predrilling	
EBP2430	B14, B16		4 20-Aug-11	24-Aug-11	58 EBP2330	EBP2440	11		► B14 B16				
EBP2440	B18, B20		4 25-Aug-11	29-Aug-11	58 EBP2430	EBP2450	11: :: :		B18, B20				
EBP2450	B17, B19		4 30-Aug-11	02-Sep-11	58 EBP2440	EBP2450	<u>+</u>	÷+		╍╬╢┼╍┊┼╍┼	-ŀi-l-l-l-	<u>+-</u>	
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EBP2460	B13, B15		4 03-Sep-11	07-Sep-11	58 EBP2450	EBP2470			⊢ ∎ B13, B19				
EBP2470	B28, B30		4 08-Sep-11	12-Sep-11	58 EBP2460	EBP2480	41::::		► 1 B28, B				
EBP2480	B27, B29		4 14-Sep-11	17-Sep-11	58 EBP2470	EBP2490			Б 27, Е ■ B27, E ■ B24,				
EBP2490	B24, B26		4 19-Sep-11	22-Sep-11	58 EBP2480	EBP2500			► B24	B216			
EBP2500	B23, B25		4 23-Sep-11	27-Sep-11	58 EBP2490	EBP2510			►0 B23	3, B 25			
EBP2510	B20, B22		4 28-Sep-11	03-Oct-11	58 EBP2500	EBP2520			L L H B2	20, 522			
EBP2520	B21, B12		4 04-Oct-11	08-Oct-11	58 EBP2510	EBP2530	1		🕴 🖬 в	21 B12			
EBP2530	B9		5 10-Oct-11	14-Oct-11	58 EBP2520	EBP2540	11			В9			
EBP2540	B10		2 15-Oct-11	17-Oct-11	58 EBP2530	EBP2550				в10			
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Actual Work	Date		roved		Cr	ontract	No.: H	2010/0</td <td>6</td> <td></td> <td></td> <td></td> <td></td>	6				
Remaining W	ork 31-May-12	Rev. E MF KT							-				
-	23-Jun-12	Rev. F MF KT											
Critical Remains	ining 19-Jul-12	Rev. G MF KT			Man (hai Dr	avalonm	nent Pha	دם اا_				
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	14-Aug-12	Rev. H MF KT											
	19-Sep-12	Rev. I MF KT		a a 1								Gar	mm
Summary	1			antra	i = v v a n i r		17266 AV/C	ז אווא זי	IIPN V	van I	ine		
Summary	21-Nov-12	Rev. J MF KT		cilla	I-vvan Ci	iai Dyn	1233 UVE	<u>, 181117 1</u>					
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Summary		Rev. J MF KT Rev. K MF KT Rev. L MF KT		entra			s Programme						



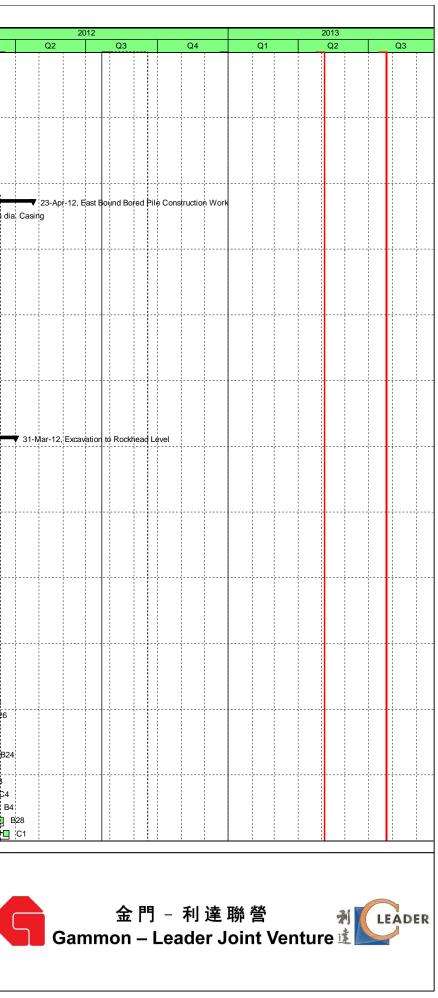
Activity Name	Original Start	Finish	Total Predecessors Float	Successors	2011 2012 Q1 Q2 Q3 Q4 Q1 Q2
B8	6 18-Oct-11	24-Oct-11	58 EBP2540	EBP2560	
87	2 25-Oct-11	26-Oct-11	58 EBP2550	EBP2570	
B6	4 27-Oct-11	31-Oct-11	58 EBP2560	EBP2580	
B5	2 01-Nov-11	02-Nov-11	58 EBS2390, EBP2t	EBP2590	
B4	3 03-Nov-11	05-Nov-11	58 EBP2580	EBP2600	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
B3	6 08-Nov-11	14-Nov-11	58 EBP2590		
				EPP1700	
					▼ 23-Apr-12, Eas
				EBD1020	■ Ta-Dict:11, Ditving of 2650mm dia: Casing
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B16					
					1 B16 B12
B18					
B23	3 28-Dec-11	30-Dec-11	65 EPP1490	EPP1530	
B14	4 03-Jan-12	06-Jan-12	69 WPP1660	EPP1520	
B20					
B7	5 30-Dec-11	05-Jan-12	65 EPP1500	EPP1540	
B5	4 06-Jan-12	10-Jan-12	65 EPP1530	EPP1550	
B3	6 12-Jan-12	18-Jan-12	65 EPP1540, EPP1	EPP1560	
B10	6 19-Jan-12	28-Jan-12	65 EPP1550	EPP1570	
B6	6 30-Jan-12	04-Feb-12	65 EPP1560	EPP1580	
B22	4 10-Feb-12	14-Feb-12	65 EPP1580	EPP1600	
B26	7 15-Feb-12	22-Feb-12	65 EPP1590	EPP1662	
B27	8 28-Dec-11	06-Jan-12	57 EPP1490	EPP1620	
B29		17-Jan-12			
B24		02-Mar-12	57 EPP1620	EPP1640, EF	
B30	10 02-Feb-12	13-Feb-12	59 EPP1630	EPP1650	
C3	7 14-Feb-12	21-Feb-12	59 EPP1640	EPP1662	
	7 22-Feb-12	29-Feb-12	59 EPP1650, EPP16	EPP1670	
C4			57 EBD1160, EPP16	EPP1680	
C4B4	4 03-Mar-12	07-Mar-12	57 LDD 1100, LT 1 10		
		07-Mar-12 15-Mar-12	57 EPP1670	EPP1690	
	B7B6B5B4B3B27C4C3C1C2e Construction Workdia. CasingB16B14B20B22B24B26B28B10B8B30T9B6T6B21B22B6T6B7B8B13B15B21B25B17B9B19B16B12B18B23B19B16B12B18B23B19B16B12B18B23B19B16B12B18B23B19B16B12B18B23B19B16B12B18B23B14B20B3B10B6B22B26B27B29B24	B7225-Oct-11B6422-Oct-11B7201-Nov-11B430-Aot-11B360-B-Oct-11C460-Cot-11C460-Cot-11C142-Oct-11C142-Oct-11C252-Oct-11da.Casing832-B-U1-11B1632-B-U1-11B1632-B-U1-11B1730-Aug-11B1830-Aug-11B2031-Aug-11B2231-Aug-11B2431-Aug-11B2632-Aug-11B2832-Aug-11B3032-Aug-11B431-Sep-11B541-Sep-11B611-Co-11Head11-Co-11Head41-Sep-11B550-Sep-11B1541-Sep-11B1641-Sep-11B1550-Sep-11B1641-Sep-11B2550-Sep-11B1641-Sep-11B2650-Ch-11B2760-Sep-11B2860-Sep-11B2940-Sep-11B2650-Ch-11B2750-Sep-11B2860-Sep-11B2960-Ch-11B2060-Ch-11B21	B7 2 25-0ct-11 26-0ct-11 B6 4 27-0ct-11 31-0ct-11 B6 3 03-Nov-11 05-Nov-11 B4 3 03-Nov-11 05-Nov-11 B1 3 04-0ct-11 07-0ct-11 B27 3 04-0ct-11 07-0ct-11 C1 4 20-0ct-11 04-0ct-11 C1 4 20-0ct-11 04-0ct-11 C1 4 22-0ct-11 04-0ct-11 C1 4 22-0ct-11 04-0ct-11 C1 4 22-0ct-11 03-Noy-11 C1 4 22-0ct-11 05-0ct-11 C1 4 22-0ct-11 03-Noy-11 C1 4 22-0ct-11 03-Noy-11 C1 3 22-Noy-11 30-Noy-11 D2 3 22-	Br 22 25 Oct-11 26 Oct-11 58 EB22500 66 4 27-Oct-11 31-Oct-11 58 EB22500 55 2 01-Nov-11 05-Nov-11 58 EB22500 53 05-Nov-11 05-Nov-11 68 EB22500 527 3 04-Oct-11 04-Oct-11 64 EB22500 527 3 04-Oct-11 24-Oct-11 64 EB22500 53 67-Oct-10 24 20-Oct-11 64 EB2250 53 27-Oct-10 04 EB2260 55 54 27-Oct-10 04-Norp-11 27 EB10 52 27-Oct-10 05-Norp-11 27 EB10 61 62-Oct-11 05-Norp-11 27 EB10 61 3 04-Norp-11 05-Norp-11 27 EB10100 816 3 04-Norp-11 05-Norp-11 27 EB10100 820 3 15-Norp-11 16-Norp-11	B7 B2 B2-0-B-11 B4 B2-0-B-11 B4 B2-250 B2P250 B2P250 B8 C 0-Nov-11 0-Nov-11 65 B2P250 EPP250 B4 C 0-Nov-11 0-Nov-11 65 EBP2500 EPP250 B4 C 0-Nov-11 0-Nov-11 66 EPP250 EPP250 EPP250 B5 C C 0-Nov-11 0-Nov-11 66 EPP250 EPP250 EPP250 C4 0-Nov-11 2-Nov-11 64 EPP250 EPP250 EPP250 C4 15-Od-11 2-Od-11 64 EPP250 EPP250 EPP250 C2 Construct/Nov/n C 12-Od-11 64 EPP250 EPP250 EPP250 C3 Construct/Nov/n C EPP250 EPP250 EPP250 EPP150 EPP150 C4 Construct/Nov/n C EP250 EPP150 EPP150 EPP150 EPP150 EPP150 EPP150

(Works Programme - Rev. L)

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05-Mar-13

Rev. L MF KT



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	C2	Duration 7 24-Mar-12	31-Mar-12	Float EBP2650, EPP1(EBC2320	Q1	Q2	Q3	Q4 Q1 Q2
EPP1700 RCD and Concre		7 24-Mar-12 158 18-Nov-11	31-Mar-12 23-Apr-12	57 EBP2650, EPP10 EBC2320				23-Apr-12, RCI
EBC2000	B16	4 18-Nov-11	22-Nov-11	27 EPP1470, WBC2 WBC2050, E				на віб
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01	01	2013	02
Q4	Q1	Q2	Q3
ace Core Test)			
		22-Apr-13, C	ost Savings Desigr
aining approval			
3			
stakeholders			
09)			
(for Box 4A)			
(for Box 3 and Box 4E	3)		
(for Box 2 and Wave		r)	
ug-12, Corrosion Mo	nitoring System		
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		4	LEADER
Leader J	oint ven	ture 🗷 📕	

	Activity Name	Original Start	Finish	Total Predecessors	Successors		011	Q4	20
CMS5010	ICE and Designer Approval for Corrosion Monitoring System	Duration 36 14-Dec-11	18-Jan-12	100 CMS5000	CMS5020	Q1 Q2	Q3		Q1 Q2
CMS5020	Installation of Corrosion Monitoring System and Pre-Testing	8 05-May-12		100 EPY4041, CMS5	CMS5030				Installati
CMS5030	Test Corrosion Monitoring System after Concreting	17 11-Aug-12	27-Aug-12	100 CMS5020	PPC6000				
recast Combined L		461 02-Sep-11		0			· · · · · · · · · · · · · · · · · · ·		
PPC6000	Completion of Precast Box Unit	0	05-Dec-12*	0 STG9005, STG1					
PPC6010	Material Preparation and Delivery for Construction (Formwork, S	90 02-Sep-11	30-Nov-11	108 EDK2020	STG1001			Materia	Preparation and Delivery for Constr
Stage 1		70 16-Jan-12	25-Mar-12	62				•	25-Mar-12, Stage 1
Box 4A - Base	Slab and Wall 32, 42, 43A, 43B, 48A & 49A Kicker	70 16-Jan-12	25-Mar-12	62				•	25-Mar-12, Box 4A
STG1001	Setting Out	60 16-Jan-12	19-Mar-12	62 EDK2060, PPC6	STG1002			L -	Setting Out
STG1002	Rebar Fixing	60 17-Jan-12	20-Mar-12	62 STG1001	STG1003			¦ ¦⊾	Rebar Fixing
STG1003	Formwork Erection	60 18-Jan-12	21-Mar-12	62 STG1002	STG1004			La 1	Formwork Erection
STG1004	Concreting	2 22-Mar-12	23-Mar-12	62 STG1003	STG1005				Concreting
STG1005	Formwork Removal	2 24-Mar-12	25-Mar-12	62 STG1004	STG4001				Formwork Removal
Stage 2	Deer Olek and Well 44, 454, 45D, 40, 47, 40D, 40D, 50 Kisker 0	98 26-Mar-12		0					
	- Base Slab and Wall 44, 45A, 45B, 46, 47, 48B, 49B, 53 Kicker, 8	98 26-Mar-12		0 EDK2070, EDK2	STC2002			<u> </u>	
STG2001 STG2002	Setting Out Rebar Fixing	30 26-Mar-12 28 27-Mar-12	24-Apr-12 23-Apr-12	0 EDK2070, EDK20 0 STG2001	STG2002 STG2003				Setting Out
STG2002 STG2003	Formwork Erection	28 27-Mar-12 29 28-Mar-12	23-Apr-12 25-Apr-12	0 STG2001	STG2003				Formwork E
STG2003 STG2004	Concreting	29 26-Mar-12 2 26-Apr-12	25-Apr-12 27-Apr-12	0 STG2002	STG2004 STG6001, S				Concreting
STG2004	Repouring (4B & WAC)	1 26-Jun-12	26-Jun-12	0 STG2003	STG2006				
STG2006	Formwork Removal	3 29-Jun-12	01-Jul-12	0 STG2005	STG1110				C
Stage 3		37 07-Apr-12		97					13-May-
	Base Slab and Wall 21, 22, 23, 24, 25, 33 & 34 Kicker	37 07-Apr-12	13-May-12	97					▼ 13 -May-
STG3001	Setting Out	29 07-Apr-12	05-May-12	97 EDK2070, EDK2	STG3002				Setting Ou
STG3002	Rebar Fixing	27 09-Apr-12	05-May-12	97 STG3001	STG3003				Rebar Fix
STG3003	Formwork Erection	28 11-Apr-12	08-May-12	97 STG3002	STG3004				Formwork
STG3004	Concreting	2 09-May-12	10-May-12	97 STG3003	STG3005				Concretir
STG3005	Formwork Removal	2 12-May-12	-	97 STG3004	STG7001, S				Formwol
_Stage 4		32 30-Apr-12		62					31-N
STG4001	/all 32 and 42 of (Box 4A)	32 30-Apr-12		62 62 STC 1005	STG4002				31-N
STG4001 STG4002	Setting Out Rebar Fixing	19 30-Apr-12	18-May-12	62 STG1005 62 STG4001	STG4002 STG4003				Setting Rebar
STG4002 STG4003	Formwork Erection	18 02-May-12 18 04-May-12		62 STG4001	STG4003 STG4004				Formw
STG4003	Concreting	2 22-May-12	-	62 STG4002	STG4004				- Concr
STG4004	Formwork Removal	6 26-May-12		62 STG4003	STG8001				Forn
Stage 5		25 22-May-12	-	102	0100001				
	/all 23 of (Box 2 & 3)	25 22-May-12		102					
STG5001	Setting Out	15 22-May-12		102 STG3005	STG5002				
STG5002	Rebar Fixing	12 24-May-12	04-Jun-12	102 STG5001	STG5003				
STG5003	Formwork Erection	12 26-May-12	06-Jun-12	102 STG5002	STG5004				Fol
STG5004	Concreting	1 07-Jun-12	07-Jun-12	102 STG5003	STG5005				Galactic Ca
STG5005	Formwork Removal	6 10-Jun-12	15-Jun-12	102 STG5004	STG7001				
Stage 5A		25 27-May-12		97					
	/all 22 of (Box 2 & 3)	25 27-May-12		97					
SGA5001	Setting Out	15 27-May-12		97 STG3005	SGA5002			·	
SGA5002	Rebar Fixing	12 29-May-12		97 SGA5001	SGA5003				
SGA5003	Formwork Erection	12 31-May-12		97 SGA5002	SGA5004				
SGA5004	Concreting	1 12-Jun-12	12-Jun-12	97 SGA5003	SGA5005				
SGA5005 Stage 6	Formwork Removal	6 15-Jun-12 25 12-Jun-12	20-Jun-12 06-Jul-12	97 SGA5004 82	STG7001				
8 Nos. Column	n of (WAC)	25 12-Jun-12 25 12-Jun-12	06-Jul-12	82				·····	
STG6001	Setting Out	15 12-Jun-12	26-Jun-12	0 STG2004	STG6002				
STG6002	Rebar Fixing	12 14-Jun-12	25-Jun-12	0 STG6001	STG6003				
STG6003	Formwork Erection	12 16-Jun-12	27-Jun-12	0 STG6002	STG6004				· · · · · · · · · · · · · · · · · · ·
STG6004	Concreting	1 28-Jun-12	28-Jun-12	0 STG6003	SGA1010, S ⁻				
STG6005	Formwork Removal	6 01-Jul-12	06-Jul-12	82 STG6004	STG1310				
Stage 7		31 21-Jun-12		97					
	/all 21,24,25,33, 34 of (Box 2 & 3)	31 21-Jun-12	21-Jul-12	97					
STG7001	Setting Out	17 21-Jun-12	07-Jul-12	97 STG3005, STG5					
STG7002	Rebar Fixing	17 23-Jun-12	09-Jul-12	97 STG7001	STG7003				
Actual Work		oved		Co	ntract	No.: HK/201	0/06		
Remaining Wo	ork 31-May-12 Rev. E MF KT			00					
Ũ	ing 23-Jun-12 Rev. F MF KT					. –			
Critical Remain	19-Jul-12 Rev. G MF KT]		Wan C	hai De	evelopment F	hase II	-	
Milestone				V V () I I V /			110.31 - 11		

Rev. J MF KT

Rev. K MF KT

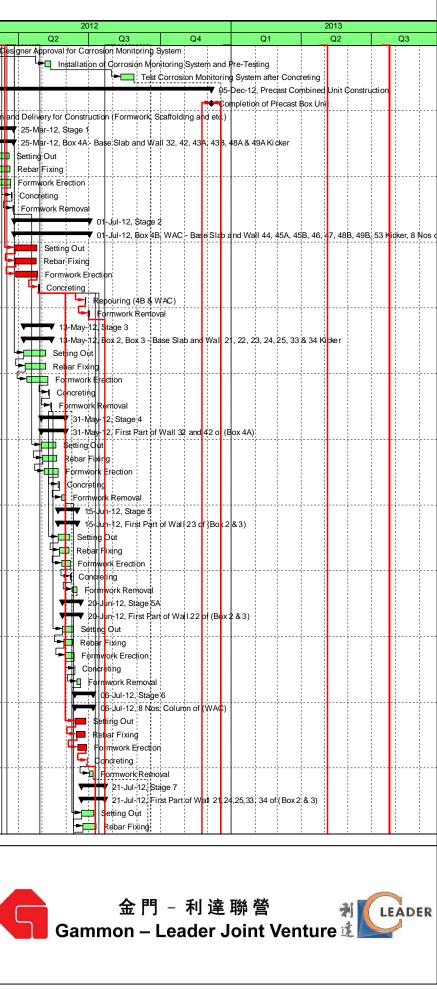
Rev. L MF KT

21-Nov-12 19-Feb-13

05-Mar-13

Central-Wan Chai Bypass over MTR Tuen Wan Line

(Works Programme - Rev. L)



STG7003 Formwork Erection STG7004 Concreting	Duration	Float		Q1 Q2	Q3 Q4	Q1	Q2 Q3 Q4 Q1	Q2
STG7004 Concreting	17 25 lun 12 11 lul 12	97 STG7002	STG7004		<u> </u>			
C	17 25-Jun-12 11-Jul-12 2 12-Jul-12 13-Jul-12	97 STG7002 97 STG7003	STG7004 STG7005				Concreting	
STG7005 Formwork Removal	6 16-Jul-12 21-Jul-12	97 STG7004	STG1210				Formwork Removal	
Stage 8	32 23-Jun-12 24-Jul-12	62					▼ 24-Jul-12 Stage 8	
First Part of Wall 48A, 49A(Side Wall) & 43A(Double Wall) of Box 4A and		62					24-Jul-12, First Part of V/all 43A, 49A(Side Wall) & 43	A(Double Wall)
STG8001 Setting Out	20 23-Jun-12 12-Jul-12	62 STG4005	STG8002				Setting Out	
STG8002 Rebar Fixing	20 25-Jun-12 14-Jul-12	62 STG8001	STG8003				Rebar Fixing	
STG8003 Forwork Erection	22 27-Jun-12 18-Jul-12	62 STG8002	STG8004					
STG8004 Concreting	2 19-Jul-12 20-Jul-12	62 STG8003	STG8005				Concreting	
STG8005 Formwork Removal	3 22-Jul-12 24-Jul-12	62 STG8004	STG1410				► Cormwork Removal	
Stage 9	27 21-Jul-12 16-Aug-12	111					16-Aug 12, Stage 9	
First Part of Wall 46 & 48B of (Box 4B)	27 21-Jul-12 16-Aug-12	111	0700000				16-Aug-12, First Part of Wall 46 & 48B of (Box 4E	3)
STG9001 Setting Out STG9002 Rebar Fixing	15 21-Jul-12 04-Aug-12 13 23-Jul-12 04-Aug-12	111 STG2004 111 STG9001	STG9002 STG9003				► Setting Out	
STG9002 Formwork Erection	13 25-Jul-12 04-Aug-12	111 STG9002	STG9003					
STG9004 Concreting	2 07-Aug-12 08-Aug-12	111 STG9002	STG9004					
STG9005 Formwork Removal	6 11-Aug-12 16-Aug-12	111 STG9004	PPC6000				Formwork Removal	
Stage 10	22 26-Jul-12 16-Aug-12	74					▼▼ 16-Aug-12, Stage 10	
First Part of Wall 47 (Internal Wall) (WAC)	22 26-Jul-12 16-Aug-12	74					16-Aug-12, First Part of Wall 47 (Internal Wall) ()	WAC)
STG1010 Setting Out	15 26-Jul-12 09-Aug-12	74 STG2004	STG1020				▶ Setting Out	
STG1020 Rebar Fixing	12 28-Jul-12 08-Aug-12	74 STG1010	STG1030				Rebar Fixing	
STG1030 Formwork Erection	12 30-Jul-12 10-Aug-12	74 STG1020	STG1040				Formwork Erection	
STG1040 Concreting	1 11-Aug-12 11-Aug-12	74 STG1030	STG1050					
STG1050 Formwork Removal	3 14-Aug-12 16-Aug-12	74 STG1040	STG1510				Formwork Removal	
Stage 10A	27 21-Jul-12 16-Aug-12	74					16-Aug-12, Stage 1DA	nd First Dort of
Intermediate Slab (Panel Slot Slab) and First Part of Wall 53, 54 & 55 of SGA1010 Setting Out	WAC 27 21-Jul-12 16-Aug-12 14 21-Jul-12 03-Aug-12	0 STG6004	SGA1020				16-Aug-12, Intermediate Slab (Panel Slot Slab) a	nu First Part of V
SGA1010 Setting Out SGA1020 Falsework Erection	14 21-Jul-12 03-Aug-12 12 23-Jul-12 03-Aug-12	0 SGA1010	SGA1020 SGA1030				Falsework:Erection	
SGA1020 Formwork Erection	11 25-Jul-12 04-Aug-12	0 SGA1010	SGA1030				Formwork Erection	
SGA1040 Rebar Fixing	11 27-Jul-12 06-Aug-12	0 SGA1030	SGA1050				Rebar Fixing	
SGA1050 Concreting	1 07-Aug-12 07-Aug-12	0 SGA1040	STG1310, S					
SGA1060 Formwork and Falsework Removal	5 12-Aug-12 16-Aug-12	74 SGA1050	STG1510				F-Q Forriwork and Falsework Removal	
Stage 11	29 02-Aug-12 30-Aug-12	97					→ → 30-Aug-12, Stage 11	
First Part of Wall 44,45A,45B, 49B of (Box 4B)	29 02-Aug-12 30-Aug-12	97					→ → → 30 -Aug-12, First Part of Wall 44,45A,45B, 49B	3 of (Box 4B)
STG1110 Setting Out	15 02-Aug-12 16-Aug-12	0 STG2006	STG1120				Setti ng Dut	
STG1120 Rebar Fixing	13 04-Aug-12 16-Aug-12	0 STG1110	STG1130				Rebar Fixing	
STG1130 Formwork Erection	13 06-Aug-12 18-Aug-12	0 STG1120	STG1140					
STG1140 Concreting STG1150 Formwork Removal	1 19-Aug-12 19-Aug-12 8 23-Aug-12 30-Aug-12	0 STG1130	STG1610, S				Conbreting	
STG1150 Formwork Removal Stage 12	8 23-Aug-12 30-Aug-12 42 20-Jul-12 30-Aug-12	97 STG1140 97	PPC6000				30-Aug-12, Stage 12	
Top Slab of Box 2 & 3	42 20-Jul-12 30-Aug-12						30-Aug-12, Stage 12	
STG1210 Setting Out	19 20-Jul-12 07-Aug-12	97 STG7005	STG1220				Setting Out	
STG1220 Falsework Erection	17 22-Jul-12 07-Aug-12	97 STG1210	STG1230					
STG1230 Formwork Erection	17 24-Jul-12 09-Aug-12	97 STG1220	STG1240					
STG1240 Rebar Fixing	17 26-Jul-12 11-Aug-12	97 STG1230	STG1250				Formvork Erection ← Rébar Fiking ← I Condeting	
STG1250 Concreting	2 12-Aug-12 13-Aug-12	97 STG1240	STG1260					
STG1260 Formwork and Falsework Removal	8 23-Aug-12 30-Aug-12	97 STG1250	PPC6000				Formwork and Falsev ork Removal	
Stage 13	23 27-Sep-12 19-Oct-12	0					v → 19-Ott+12, Stage 13	
Wall 52 (lower) -5.25 to 0.5 + Lower Roof Slab	23 27-Sep-12 19-Oct-12	0					19-0 dt 12, Wall 52 (lower) -5.25 to	0.5 + Lower Ro
STG1310 Setting Out	15 27-Sep-12 11-Oct-12	0 STG6005, SGA					Setting Out	
STG1320 Rebar Fixing STG1330 Formwork Erection	11 29-Sep-12 09-Oct-12 11 01-Oct-12 11-Oct-12	0 STG1310 0 STG1320	STG1330 STG1340				Formwork Election	
STG1330 Formwork Erection STG1340 Concreting	1 12-0ct-12 12-0ct-12	0 STG1320	STG1340 STG1350					
STG1350 Formwork Removal	2 18-Oct-12 19-Oct-12	0 STG1330	PPC6000, ST				Formwork Removal	
Stage 14	32 03-Sep-12 04-Oct-12	62					v q4-Oct-12 Stage 14	
Top Slab of Box 4A	32 03-Sep-12 04-Oct-12	62					▼ 04-Oct-12, Top S ab of Box 4A	
STG1410 Setting Out	11 03-Sep-12 13-Sep-12	62 STG8005	STG1420				-→□ Settirg Qut	
STG1420 Falsework Erection	11 06-Sep-12 16-Sep-12	62 STG1410	STG1430				Falsework Etection	
STG1430 Formwork Erection	10 08-Sep-12 17-Sep-12	62 STG1420	STG1440					
STG1440 Rebar Fixing	10 10-Sep-12 19-Sep-12	62 STG1430	STG1450				Reb <mark>a</mark> r Fixing	
Actual WorkDateRevisionChRemaining Work31-May-12Rev. EMFKTCritical Remaining23-Jun-12Rev. FMFKT19-Jul-12Rev. GMFKT14-Aug-12Rev. HMFKT	Approved			o.: HK/2010/ elopment Ph			金門 - 利達聯營	利
Summary 114-Aug-12 Rev. 1 Mill K1 19-Sep-12 Rev. I MF KT 21-Nov-12 Rev. J MF KT 19-Feb-13 Rev. K MF KT	Centra	I-Wan Ch	nai Bypas	ss over MTR	Tuen Wan	Line	Gammon – Leader Joint Vent	ture 🗓

	Activity Name	Original Start	Finish	Total Predecessors	Successors			011	- 04	01		2012 2013
STG1450	Concreting	Duration 2 20-Sep-12	21-Sep-12	62 STG1440	STG1460	Q1	Q2	Q3	Q4	Q1	Q2	Q3 Q4 Q1 Q2
	Falsework and Formwork Removal	8 27-Sep-12		62 STG1450	ITF3010, PP							Falsework and Formwork Removal
Stage 15		21 30-Oct-12										19-Nev-12, Stage 15
Wall 52 (Up to 1	Fop Slab)	21 30-Oct-12		0								v 19-140v-12, Wall 52 (Up to Top Sigb)
STG1510	Setting Out	10 30-Oct-12	08-Nov-12	0 STG1050, STG1	STG1520							Setting Out
STG1520	Falsewrok Erection	8 01-Nov-12	08-Nov-12	0 STG1510	STG1530					11		Falsevrok Erection
STG1530	Formwork Erection	8 03-Nov-12	10-Nov-12	0 STG1520	STG1540							Formvork Erection
STG1540	Rebar Fixing	8 05-Nov-12	12-Nov-12	0 STG1530	STG1550							Reba Fixing
STG1550	Concreting	1 13-Nov-12	13-Nov-12	0 STG1540	STG1560							Concreting
STG 1560	Formwork and Falsewrok Removal	3 17-Nov-12		0 STG1550	STG1710, C							Formwork and Falsewrok Remova
Stage 16		22 14-Oct-12										04-Nov 12, Stage 16
Top Slab of 4B		22 14-Oct-12		0 0 STG1140	STG1620							
STG1610 STG1620	Setting Out Falsework Erection	14 14-Oct-12 11 14-Oct-12	27-Oct-12 24-Oct-12	0 STG1140 0 STG1610	STG1620 STG1630							Setting Out
STG 1620 STG 1630	Formwork Erection	11 14-0d-12 11 15-0d-12	24-0ct-12 25-0ct-12	0 STG1610	STG1630 STG1640							
STG 1630	Rebar Fixing	11 15-0d-12 11 16-0d-12	25-Oct-12 26-Oct-12	0 STG1620	STG1640 STG1650		• • • • • • • • • • • • • • • • • • • •			÷		Rebar Fixing
STG 1640	Concreting	2 27-Oct-12	28-Oct-12	0 STG1640	STG1660							
	Falsework and Formwork Removal	4 01-Nov-12		0 STG1650	PPC6000, IT							Falsework and Formwork Removal
Stage 17		19 17-Nov-12		0								v alacwon and rommon (ternoval
Wall 52 (Jumpi	ng Slab)	19 17-Nov-12		0								₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
	Setting Out	12 17-Nov-12		0 STG1560	STG1720		· ; ; ;			*	· · · · · · · · · · · · · · · · · · ·	Setting Out
	Falsework Erection	10 18-Nov-12		0 STG1710	STG1730							Falsework Erection
STG1730	Formwork Erection	10 18-Nov-12		0 STG1720	STG1740							Formwork Erection
STG1740	Rebar Fixing	10 20-Nov-12	29-Nov-12	0 STG1730	STG1750							Rebar Fixing
STG1750	Concreting	1 30-Nov-12	30-Nov-12	0 STG1740	STG1760							Concreting
STG1760	Formwork & Falsework Removal	3 03-Dec-12	05-Dec-12	0 STG1750	FOD6010, P					11		Formwork & Falsework Removal
ransporting and Na	vigating	268 29-Jul-12	22-Apr-13	0								V 22-Apr-13, Trar
Site Clearance		104 03-Oct-12		67								▼ 14-Jan-13, Site Clearance
Coating Works		38 08-Dec-12		67								14-Jan-13, Coating Works
	Waterproofing Coating	9 06-Jan-13	14-Jan-13	62 STG1460	FOD6010							Waterproofing Coating
	Protective Coating at WAC	23 08-Dec-12		75 STG1560	BED3000, Bł							Protective Coating at WAC
Turrent		87 10-Oct-12	04-Jan-13	70	FORMU							V 04-Jan-13, Turrent
	Turrent Construction	87 10-Oct-12	04-Jan-13	65 STG1460	FOD6010							
	Fowing Furniture	95 03-Oct-12	05-Jan-13	68 82 STC 1460								Point 2/3 and Point 4/4
ITF3010 ITF3020	Box 2/3 and Box 4A Box 4B	59 03-Oct-12	30-Nov-12	82 STG1460 63 STG1660	DTC4010, BI BED3400			+		÷	-}	Box 2/3 and Box 4A
Dismantle of To		41 26-Nov-12 18 06-Dec-12		87	DLD3400							23-Dec-12, Dismantle of Tower Crane
	Dismantle of Tower Crane	18 06-Dec-12		82 ITF3010	BED3400							Dismantle of Tower Crane
Flooding of Dryde		20 08-Jan-13										27-Jan-13, Flooding of Drydock 1
FOD6010	Flooding from -9.0 to -5.6mCD	1 08-Jan-13	08-Jan-13	62 CWW1000, STG	PPU8000. F(
FOD6020	Watertighness Test (Stage 1)	2 09-Jan-13		62 FOD6010	FOD6030					*		Image: Flooding: filom - 9.0 to - 5.6mCD Image: Watertighters Test (Stage 1) Image: Flooding trans-5.6 to - 3.5mCD
	Flooding from -5.6 to -3.5mCD	1 11-Jan-13		62 FOD6020	FOD6040							Flooding from -5.6 to B.5mCD
FOD6040	Watertighness Test (Stage 2)	3 12-Jan-13		62 FOD6030	FOD6050							Flooding from -5.6 to -8.5mCD WatertighnessTest (Stage 2)
FOD6050	Testing of Ballast Tank (Stage 1)	13 15-Jan-13	27-Jan-13	62 FOD6040	FOD7010							Testing of Ballast Tank (Stage 1)
Flooding of Dryde	ock 2	11 28-Jan-13	07-Feb-13	67								07⊦Feb-13, Flooding of Drydock
FOD7010	Injection Grout at Base Slab (Box 4B & Box 3)	5 28-Jan-13	01-Feb-13	62 FOD6050	FOD7020							□ Injection Grout at Base \$lab (Box
FOD7020	Flooding from -3.5mCD to -2mCD	1 30-Jan-13	30-Jan-13	62 FOD7010	FOD7030							Flooding from -3.5mCD to -2mCI
FOD7030	Ballast Tank Water Tightness Test (Stage 2)	8 31-Jan-13	07-Feb-13	62 FOD7020	PPU8010							Ballast Tank Water Tightness Te
_	te the Navigation and Dock Gate	261 29-Jul-12	15-Apr-13	0								▼ 15-Apr-13, Blasti
BED3000	Erection Protective Fence for Blasting	4 03-Jan-13	06-Jan-13	81 CWW1010	PPU8000							Erection Protective Fender for Blasting
Navigation Cha		235 29-Jul-12	20-Mar-13	13								20-Mar 13, Navigation
	Excavation by Drilling Barge	186 29-Jul-12	30-Jan-13	0								▼ 30-Jan-13, Blasting and Excavatio
	Blasting and Excavation by Drilling Barge	186 29-Jul-12*	30-Jan-13	0	BED3200, Bł							Blasting and Excavation by Drillin
	ting by Scaffold Platform	12 31-Jan-13	11-Feb-13	50	PED2040							+ 11-Feb-13, Dri(<mark>li</mark> ng/Blasting by → □ Erect Scattfold Platform
	Erect Scaffold Platform	9 31-Jan-13	08-Feb-13	45 BED3100	BED3210					÷	·}····	□ Erect Scattold Platform
BED3210		3 09-Feb-13		50 BED3200	PPU8000							
	ting by Floating Platform Assembly of Floating Platform	52 28-Jan-13	20-Mar-13	9 0 BED3100	BED3310							Assembly of Floating Platform
	Drilling/Blasting (3x8 = 24 Positions)	4 28-Jan-13 29 01-Feb-13	31-Jan-13 06-Mar-13	0 BED3100	BED3310 BED3320, BI							Assembly of Floating Platform
	Excavation	13 07-Mar-13		0 BED3300	BED3320, Br BED3330							
BED3320		13 U7-Widf-13	10-IvidI-10	0 0203010	020330		<u>; ; ; ;</u>				; p; ;	
A - (1) A /	Date Revision Ch	Approved		~						1		
Actual Work	31-May-12 Rev E ME KT			CC	ntract	INO.: F	HK/2010	0/06				
Remaining Wor		1										

Actual Work	Date	Revision	Ch	Approved
Remaining Work	31-May-12	Rev. E	MF	KT
Ŭ	23-Jun-12	Rev. F	MF	КТ
Critical Remaining	19-Jul-12	Rev. G	MF	KT
 Milestone 	14-Aug-12	Rev. H	MF	КТ
Summary	19-Sep-12	Rev. I	MF	КТ
	21-Nov-12	Rev. J	MF	КТ
	19-Feb-13	Rev. K	MF	КТ
	05-Mar-13	Rev. L	MF	КТ

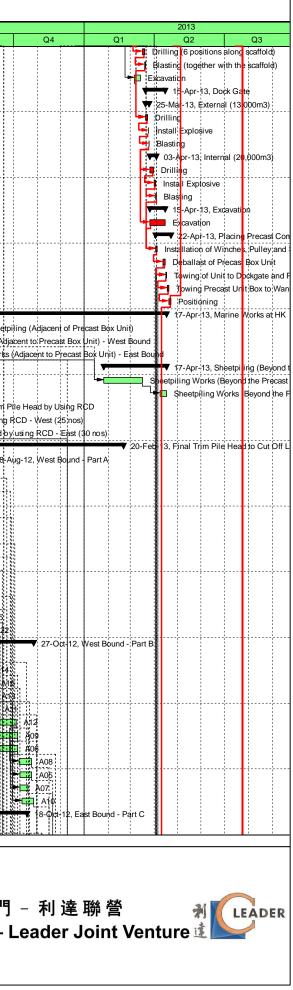
Wan Chai Development Phase II-

金門 – 利達聯營 剰 LEADER Gammon – Leader Joint Venture 建

Central-Wan Chai Bypass over MTR Tuen Wan Line



Activity Name	Original Start	Finish	Total Predecessors	Successors	Q1	Q2	2011 Q3	Q4	Q1	20 Q2
Drilling (6 positions along scaffold)	Duration 3 17-Mar-13	19-Mar-13	0 BED3320	BED3340			<u>U</u> 3	Q4		
Blasting (together with the scaffold)	1 20-Mar-13	20-Mar-13	0 BED3330	BED3400						
Excavation	9 06-Mar-13	14-Mar-13	15 BED3310	BED3400						
	26 21-Mar-13	15-Apr-13	0							
00m3)	5 21-Mar-13	25-Mar-13	0							
Drilling	3 21-Mar-13	23-Mar-13	0 ITF3010, DTC40	BED3410						
Install Explosive	1 24-Mar-13	24-Mar-13	0 BED3400	BED3420						
Blasting				BED3500, Bł						
00m3)		· · ·								
•										
•	· ·	· ·								
Blasting	· · ·			PP08000						
Execution				PPI 19000						
		· ·		FF08000						
	· · ·			PPU8005		• • • • • • • • • • • • • • • • • • • •				
	· ·									
	· ·	· ·								
Towing Precast Unit Box to Wan Chai	2 18-Apr-13	19-Apr-13	0 PPU8010, DRW							
Positioning	2 20-Apr-13	22-Apr-13	0 PPU8020	SSU9010, CI						
			108							k
ent of Precast Box Unit)	97 22-Mar-12	26-Jun-12	65							
Sheetpiling works (Adjacent to Precast Box Unit) - West Bound	59 22-Mar-12	05-Jun-12	55 WBC2320	PCW1810, V					┊┊┊╘╋ <u>╔</u>	She
Sheetpiling works (Adjacent to Precast Box Unit) - East Bound	37 14-May-12	26-Jun-12	55 PCW1800	EBC3820, El						
d the Precast Box Unit)	82 26-Jan-13	17-Apr-13	108							
Sheetpiling Works (Beyond the Precast Box Unit) - (Eastern)	40 26-Jan-13	16-Mar-13		PCW1820						
Sheetpiling Works (Beyond the Precast Box Unit) - (Western)	9 08-Apr-13	17-Apr-13								
Jsing RCD										
				EBC3830, El						·····
				WC 41960 V						
A20										
A17										·····
A28										L L L
A24	25 28-Jun-12	27-Jul-12	95 WBA1800	WGA1920, V						
A19	17 12-Jul-12	31-Jul-12	97 WBA1810	WGA1880, V						l l
A29	26 19-Jul-12	17-Aug-12	107 WBA1830	WBB2830, V						
A26	14 23-Jul-12	07-Aug-12	98 WBA1840	WGA1820, V						
A21	15 27-Jul-12	13-Aug-12	95 WBA1850	WGA1910, V						
A18	14 01-Aug-12	16-Aug-12	97 WBA1860	WGA1870, V						
A25	12 08-Aug-12	21-Aug-12	104 WBA1880	WBB2850, V						
A22	14 13-Aug-12	28-Aug-12	95 WBA1890	WGA1830, V						
art B	102 18-Jul-12	27-Oct-12	125							
A15	20 18-Jul-12	09-Aug-12	94 WBA1820	WBB2820, V						
A14	16 10-Aug-12	28-Aug-12	94 WBB2810	WBB2860, V						
A16	17 17-Aug-12	05-Sep-12	107 WBA1870	WGB2810, V						
A13	15 21-Aug-12	06-Sep-12	97 WBA1900	WBB2920, V						
			404 10000000000000000000000000000000000	14/05-55		1 1 1				
A11	16 23-Aug-12	10-Sep-12	121 WBA1910	WGB2860						
A11 A12	16 23-Aug-12 30 29-Aug-12	10-Sep-12 04-Oct-12	94 WBB2820	WBB2890, V						
A11 A12 A09	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12	10-Sep-12 04-Oct-12 06-Oct-12	94 WBB2820 100 WBA1920	WBB2890, V WBB2900, V						
A11 A12 A09 A06	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12 26 05-Sep-12	10-Sep-12 04-Oct-12 06-Oct-12 06-Oct-12	94 WBB2820 100 WBA1920 107 WBB2830	WBB2890, V WBB2900, V WGB2910, V						
A11 A12 A09 A06 A08	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12 26 05-Sep-12 14 08-Oct-12	10-Sep-12 04-Oct-12 06-Oct-12 06-Oct-12 24-Oct-12	94 WBB2820 100 WBA1920 107 WBB2830 100 WBB2860	WBB2890, W WBB2900, W WGB2910, V WGB2870						
A11 A12 A09 A06 A08 A05	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12 26 05-Sep-12 14 08-Oct-12 13 09-Oct-12	10-Sep-12 04-Oct-12 06-Oct-12 06-Oct-12 24-Oct-12 24-Oct-12	94 WBB2820 100 WBA1920 107 WBB2830 100 WBB2860 104 WBB2870	WBB2890, V WBB2900, V WGB2910, V WGB2870 WGB2890						
A11 A12 A09 A06 A08 A05 A07	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12 26 05-Sep-12 14 08-Oct-12 13 09-Oct-12 10 09-Oct-12	10-Sep-12 04-Oct-12 06-Oct-12 24-Oct-12 24-Oct-12 19-Oct-12	94 WBB2820 100 WBA1920 107 WBB2830 100 WBB2860 104 WBB2870 107 WBB2880	WBB2890, V WBB2900, V WGB2910, V WGB2870 WGB2890 WGB2890 WGB2900						
A11 A12 A09 A06 A08 A05	16 23-Aug-12 30 29-Aug-12 32 29-Aug-12 26 05-Sep-12 14 08-Oct-12 13 09-Oct-12	10-Sep-12 04-Oct-12 06-Oct-12 06-Oct-12 24-Oct-12 24-Oct-12	94 WBB2820 100 WBA1920 107 WBB2830 100 WBB2860 104 WBB2870	WBB2890, V WBB2900, V WGB2910, V WGB2870 WGB2890						
	Excavation	Bacevalion 9 06-Mar-13 Om3 5 21-Mar-13 Om3 2 21-Mar-13 Singling 3 21-Mar-13 Stall Explosive 1 24-Mar-13 Nasting 2 25-Mar-13 Dm3 9 26-Mar-13 Dm3 9 26-Mar-13 Dm3 9 26-Mar-13 Stall Explosive 2 11-Apr-13 Stall Explosive 2 11-Apr-13 Stall Explosive 2 12-Apr-13 Stall Explosive 2 13-Apr-13 Stall Explosive 2 13-Apr-13 Stall Explosive 2 13-Apr-13 Stallation of Winches, Pulley and Survey Tower at Box 4B top s1 2 03-Apr-13 Stallation of Winches, Pulley and Survey Tower at Box 4B top s1 2 2-Apr-13 Stallation of Winches, Pulley and Survey Tower at Box 4B top s1 2 2-Apr-13 Stallation of Winches, Pulley and Survey Tower at Box 4B top s1 2 2-Apr-13 Stallation of Winches, Pulley and Survey Tower at Bo	B 06-Mar-13 14-Mar-13 C 21-Mar-13 15-Apr-13 Omajon 5 21-Mar-13 25-Mar-13 Imiling 3 21-Mar-13 24-Mar-13 24-Mar-13 Imiling 3 21-Mar-13 24-Mar-13 24-Mar-13 Imiling 6 26-Mar-13 03-Apr-13 03-Apr-13 Imiling 6 26-Mar-13 03-Apr-13 03-Apr-13 Imiling 6 26-Mar-13 15-Apr-13 03-Apr-13 Imiling 1 26-Mar-13 15-Apr-13 03-Apr-13 Imiling 1 26-Mar-13 15-Apr-13 03-Apr-13 Imiling 1 26-Mar-13 15-Apr-13 03-Apr-13 Imiling 2 03-Apr-13 15-Apr-13 04-Apr-13 Imiling 2 03-Apr-13 15-Apr-13 04-Apr-13 15-Apr-13 Imiling 1 12-Apr-13 13-Apr-13 13-Apr-13 13-Apr-13 Imiling 10 10 22-Mar-13	Securation 9 06-Mar-13 14-Mar-13 15 BED3310 Om3 22 21-Mar-13 25-Mar-13 20 ITTO 3010, DTC40 Inling 3 21-Mar-13 25-Mar-13 20 BED3400 Isall Explosive 1 24-Mar-13 25-Mar-13 0 BED3400 Isall Explosive 1 25-Mar-13 0.5 BED3400 Isall Explosive 1 25-Mar-13 0.5 BED3400 Isall Explosive 1 34-Mar-13 0.4 BED3400 Isall Explosive 1 0.4-Apr-13 0.4-Apr-13 0.8 BED3400 Isall Explosive 1 0.4-Apr-13 0.4-Apr-13 0.9 BED3400 Isall Explosive 1 0.4-Apr-13 0.4-Apr-13 0.9 PED3400 Isall Explosive 2 0.4-Apr-13 0.4-Apr-13 0.9 PED3400 Isall Explosive 2 0.3-Apr-13 0.4-Apr-13 0.9 PED3400 Isall Explosive 2 0.3-Apr-13<	Scawation 9 66-Mar-13 14-Mar-13 15 BED3400 0000 21-Mar-13 25-Mar-13 25-Mar-13 00 0000 01110g 21-Mar-13 25-Mar-13 25-Mar-13 00 BED3400 BED3410 01110g 21-Mar-13 25-Mar-13 24-Mar-13 0 BED3410 BED3410 01110g 24-Mar-13 25-Mar-13 0 BED3410 BED3420 BED3500 BED3500 0110g 26-Mar-13 02-Apr-13 0 BED3420 BED3500 BED3520 0110g 02-Apr-13 0-Apr-13 0 BED3420 BED3510 BED3520 0110g 02-Apr-13 0-Apr-13 0 BED3420 BED3510 BED3510 0110g 02-Apr-13 0-Apr-13 0-Apr-13 0 PED3000 PUB3005 01200 0-Apr-13 0-Apr-13 0-Apr-13 0 PPUB302 PPUB302 02010-00000 02-Apr-13 0-Apr-13 0-Apr-13 0 PPUB302	Scawaion 9 06-Mar.13 14-Mar.13 15 BED310 BED3400 003 5 21-Mar.13 25-Mar.13 23-Mar.13 0 IFS010, DTC00 BED3410 BED3400 BED3200 BED3200	Science 9 0 </td <td>boundary99Mart-13141516BED3370BED337088main2222100<th< td=""><td>Sixuano00<td>Bicality9000<</td></td></th<></td>	boundary99Mart-13141516BED3370BED337088main2222100 <th< td=""><td>Sixuano00<td>Bicality9000<</td></td></th<>	Sixuano00 <td>Bicality9000<</td>	Bicality9000<



WDII- Central	- Wan Chai Bypass	Over MTR Tsuen	Wan Line (Rev	v. L) Page 10 of 15
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14-Aug-12

19-Sep-12

21-Nov-12

19-Feb-13

05-Mar-13

Milestone

Summary

Rev. H MF KT

Rev. I MF KT

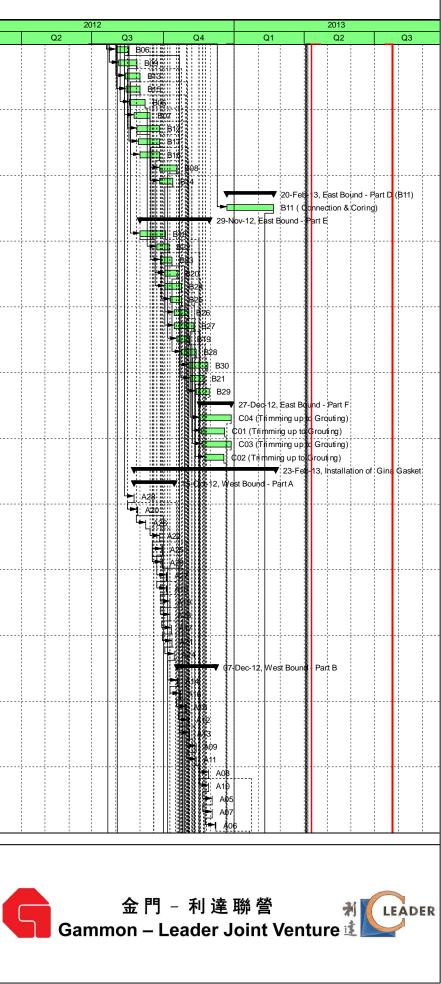
Rev. J MF KT

Rev. K MF KT

Rev. L MF KT

	Activity Name	Original Start	Finish	Total Predecessors	Successors	Q1		201 [,] Q2	1 Q3	Q4	Q1	Q2	2012
EBC3810	B06	Duration 15 31-Jul-12	16-Aug-12	27 PCW1825, PCW	EGC3800, E		-	Q2	Q3	Q4		Q2	
EBC3820	B09	20 04-Aug-12	27-Aug-12	62 PCW1805, PCW									
EBC3830	B13	17 13-Aug-12	31-Aug-12	66 PCW1825, PCW	-								
EBC3830	B15		-	84 PCW1805, PCW									
		16 14-Aug-12	31-Aug-12										
EBC3850	805	18 18-Aug-12	07-Sep-12	75 EBC3800	EBE5010, EC								
EBC3860	807	18 24-Aug-12	13-Sep-12	49 EBC3810	EGC3850, E								
EBC3870	B12	26 28-Aug-12	26-Sep-12	62 EBC3820	EGC3830, E								
EBC3880	B17	24 30-Aug-12	26-Sep-12	65 PCW1805, PCW									
EBC3890	B16	22 01-Sep-12	26-Sep-12	66 EBC3830	EGC3890, E								
EBC3900	B08	18 26-Sep-12	18-Oct-12	49 EBC3860	EGC3880, E								
EBC3910	B14	14 26-Sep-12	13-Oct-12	87 EBC3870	EBE5060, EC								
East Bound - Pa	Part D (B11)	61 22-Dec-12	20-Feb-13	48									
EBD4000	B11 (Connection & Coring)	46 22-Dec-12	20-Feb-13	37 PCW1825, PCW	EGC3920								
East Bound - Pa	Part E	90 01-Sep-12	29-Nov-12	109									
EBE5000	B18	26 01-Sep-12	03-Oct-12	88 EBC3840	EGD4050, E								
EBE5010	B22	12 22-Sep-12	08-Oct-12	86 EBC3850	EBE5050, EC								
EBE5020	B23	12 27-Sep-12	12-Oct-12	82 EBC3880	EGD4000, E								
EBE5030	B20	15 03-Oct-12	12-Oct-12	82 EBC3890	EGD4080, E								
EBE5040	B24	18 03-Oct-12	24-Oct-12	88 EBE5000	EGD4010, E								
EBE5050	B25	12 10-Oct-12	24-Oct-12	86 EBE5010	EBE5110, EC								
EBE5060	B26	16 15-Oct-12	02-Nov-12	87 EBC3910	EGD4030, E								
EBE5070	B27	22 15-Oct-12	09-Nov-12	82 EBE5020	EGD4070, E								
EBE5080	B19	13 19-Oct-12	03-Nov-12	86 EBC3900	EBE5140, EC								
EBE5090	B28	17 24-Oct-12	12-Nov-12	82 EBE5030	EBE5150, EC								
EBE5100	B30	21 03-Nov-12	27-Nov-12	88 EBE5040	EGD4090								
EBE5110	B21	16 05-Nov-12	22-Nov-12	86 EBE5050	EGD4040, E								
EBE5120	B29	16 12-Nov-12	29-Nov-12	87 EBE5060	EGD4100								
East Bound - Pa		41 17-Nov-12	27-Dec-12	105	2021100								
EBE5130	C04 (Trimming up to Grouting)	33 17-Nov-12	27-Dec-12	82 EBE5070	ECE6540								
EBE5130	C01 (Trimming up to Grouting)				ECE6510								
		27 19-Nov-12	19-Dec-12	86 EBE5080									
EBE5150	C03 (Trimming up to Grouting)	31 20-Nov-12	27-Dec-12	82 EBE5090	ECE6530								
EBE5160 Installation of Gir	C02 (Trimming up to Grouting)	21 24-Nov-12 184 24-Aug-12	18-Dec-12	87 EBE5110	ECE6520								
West Bound - F		53 24-Aug-12	15-Oct-12	87									
	A28	1 24-Aug-12	24-Aug-12	71 WBA1840	WGA1810, V								
	A20	1 28-Aug-12	28-Aug-12	71 WBA1820, WGA							-+		
					-								
	A26	1 08-Sep-12	08-Sep-12	71 WBA1880, WGA	WGA1830, V								
	A22	1 26-Sep-12	26-Sep-12	71 WBA1920, WGA									
	A25	1 29-Sep-12	29-Sep-12	71 WGA1850, WBA									
WGA1850	A29	1 29-Sep-12	29-Sep-12	71 WGA1830, WBA	WGA1840, V								
WGA1860	A27	1 05-Oct-12	05-Oct-12	71 WBA1800, WGA	WCA2020, V								
WGA1870	A18	1 05-Oct-12	05-Oct-12	71 WBA1900, WGA	WCA2100, V								
WGA1880	A19	1 09-Oct-12	09-Oct-12	71 WBA1860, WGA	WGA1890, V								
WGA1890	A23	1 09-Oct-12	09-Oct-12	71 WGA1880, WBA									
	A17	1 11-Oct-12	11-Oct-12	71 WGA1890, WBA									
		1 12-Oct-12	12-Oct-12	71 WGA1900, WBA			···· {···· }·						
WGA1910	A21												
	A21 A24			71 WRA1850 WGA	WCA2050 V		1.						
WGA1920	A24	1 15-Oct-12	15-Oct-12	71 WBA1850, WGA	WCA2050, V								
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WGA1920 West Bound - F WGB2800	A24 Part B A14	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12	15-Oct-12 07-Dec-12 19-Oct-12	90 71 WBB2820, WGA	WGB2810, V								
WGA1920 West Bound - F WGB2800 WGB2810	A24 Part B A14 A16	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12 2-Oct-12	15-Oct-12 07-Dec-12 19-Oct-12 22-Oct-12	90 71 WBB2820, WGA 71 WBB2830, WGB	WGB2810, V WGB2820, V								
WGA1920 West Bound - F WGB2800 WGB2810 WGB2820	A24 Part B A14 A16 A15	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12 2 1 22-Oct-12 1 30-Oct-12 1	15-Oct-12 07-Dec-12 19-Oct-12 22-Oct-12 30-Oct-12	90 71 WBB2820, WGA 71 WBB2830, WGB 71 WGB2810, WGB	WGB2810, V WGB2820, V WCD4020, V								
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WGA1920 West Bound - F WGB2800 WGB2810 WGB2820 WGB2830 WGB2830 WGB2840 WGB2850 WGB2860 WGB2870 WGB2880	A24 Part B A14 A16 A15 A12 A13 A09 A11 A08 A10	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12 2 1 22-Oct-12 30-Oct-12 1 02-Nov-12 1 03-Nov-12 1 12-Nov-12 1 12-Nov-12 1 12-Nov-12 2 1 28-Nov-12 1 28-Nov-12 1	15-Oct-12 07-Dec-12 19-Oct-12 22-Oct-12 30-Oct-12 02-Nov-12 03-Nov-12 12-Nov-12 12-Nov-12 28-Nov-12 28-Nov-12	90 71 WBB2820, WGA 71 WBB2830, WGB 71 WGB2810, WBB 71 WGB2820, WBB 71 WGB2820, WBB 71 WGB2820, WBB 71 WGB2840, WGB 71 WGB2840, WGB 71 WGB2840, WGB 71 WGB2840, WBB 71 WGB2840, WBB 71 WGB2840, WBB 71 WGB2840, WBB 71 WGB2800, WBB	WGB2810, V WGB2820, V WCD4020, V WCD4040, V WGB2850, V WGB2860 WGB2880, F WGB2890								
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WGA1920 West Bound - F WGB2800 WGB2810 WGB2830 WGB2830 WGB2840 WGB2840 WGB2850 WGB2860 WGB2870 WGB2880 WGB2890 WGB2900	A24 Part B A14 A16 A15 A12 A13 A09 A11 A08 A10 A05 A07	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12 2 1 2 1 30-Oct-12 1 1 02-Nov-12 1 03-Nov-12 1 12-Nov-12 1 12-Nov-12 1 28-Nov-12 1 03-Dec-12 1 03-Dec-12	15-Oct-12 07-Dec-12 19-Oct-12 22-Oct-12 30-Oct-12 02-Nov-12 03-Nov-12 12-Nov-12 28-Nov-12 28-Nov-12 03-Dec-12 03-Dec-12	90 71 WBB2820, WGA 71 WBB2830, WGB 71 WGB2810, WBB 71 WGB2820, WBB 71 WGB2820, WBB 71 WGB2840, WGB 71 WGB2840, WGB 71 WGB2840, WGB 71 WGB2840, WBB 71 WGB2840, WBB 71 WGB2800, WGB 71 WGB28900, WGB 71 WGB2890, WBB	WGB2810, V WGB2820, V WCD4020, V WCD4020, V WGB2850, V WGB2860 WGB2880, F WGB2890 WGB2900 WGB2910								
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WGA1920 West Bound - F WGB2800 WGB2810 WGB2820 WGB2830 WGB2830 WGB2840 WGB2850 WGB2850 WGB2860 WGB2870 WGB2880 WGB2890 WGB2890	A24 Part B A14 A16 A15 A12 A13 A09 A11 A08 A10 A05 A07 A06	1 15-Oct-12 50 19-Oct-12 1 19-Oct-12 2 1 2 1 2 1 30-Oct-12 1 1 02-Nov-12 1 03-Nov-12 1 12-Nov-12 1 12-Nov-12 1 28-Nov-12 1 03-Dec-12 1 03-Dec-12	15-Oct-12 07-Dec-12 19-Oct-12 22-Oct-12 30-Oct-12 02-Nov-12 03-Nov-12 12-Nov-12 28-Nov-12 28-Nov-12 03-Dec-12 03-Dec-12	90 71 WBB2820, WGA 71 WBB2830, WGB 71 WGB2810, WBB 71 WGB2820, WBB 71 WGB2840, WGB 71 WGB2800, WGB 71 WGB2800, WGB 71 WGB2870, WBB 71 WGB2890, WGB 71 WGB2890, WGB 71 WGB2890, WGB 71 WGB2890, WGB 71 WGB2880, WGB	WGB2810, V WGB2820, V WCD4020, V WCD4040, V WGB2850, V WGB2860 WGB2870, V WGB2880, F WGB2890 WGB2900 WGB2910 RBP1010			2010	/06				
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Central-Wan Chai Bypass over MTR Tuen Wan Line



WDII- Central-	- Wan Chai Bypass Over MT	R Tsuen Wan Line	(Rev. L) Page 11 of 15
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EGC3810 EGC3820 EGC3830 EGC3840 EGC3850 EGC3860 EGC3870 EGC3870 EGC3900 EGC3910 EGC3910 EGC3910 EGC3910 EGD4000 EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B06 B09 B05 B12 B15 B07 B13 B17 B08 B16 B10 B14 B14 B11 (Installation of Gina Gasket)	Duration 17 03-Nov-12 1 03-Nov-12 1 06-Nov-12 1 07-Nov-12 1 10-Nov-12 1 10-Nov-12 1 10-Nov-12 1 13-Nov-12 1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 27-Nov-12	19-Nov-12 03-Nov-12 06-Nov-12 07-Nov-12 10-Nov-12 13-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 15-Nov-12 19-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 19-Nov-12 19-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12 23-Nov-12	113 27 EBC3810 27 EGC3800, EBC3 27 EGC3810, EBC3 27 EGC3820, EBC3 27 EGC3840, EGC3 27 EGC3840, EBC3 27 EGC3840, EBC3 27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48 37 37 EBD4000 105 EBE5020 83 EBE5040, EGD4	RBP2060, RI EGD4010, E			Q3	Q4	Q1	Q2	
EGC3810 EGC3820 EGC3830 EGC3840 EGC3850 EGC3860 EGC3870 EGC3870 EGC3900 EGC3910 EGC3910 EGC3910 EGC3910 EGD4000 EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B09 B05 B12 B15 B07 B13 B17 B08 B16 B10 B14 B15 B11 (Installation of Gina Gasket) B23 B24 B25 B26 B21 B18	1 06-Nov-12 1 07-Nov-12 1 10-Nov-12 1 10-Nov-12 1 13-Nov-12 1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	06-Nov-12 07-Nov-12 10-Nov-12 10-Nov-12 13-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EGC3800, EBC3 27 EGC3810, EBC3 27 EGC3820, EBC3 27 EBC3840, EGC3 27 EGC3840, EBC3 27 EGC3840, EBC3 27 EGC3840, EBC3 27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48	EGC3820 EGC3830 RBP2080, E4 EGC3860, E EGC3870 EGC3850, E EGC3900, E EGC3900, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
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EGC3840 EGC3850 EGC3860 EGC3870 EGC3880 EGC3890 EGC3910 EGC3910 EGC3910 EGC3910 EGC3920 EGD4000 EGD4000 EGD4010 EGD4020 EGD4030 EGD4050 EGD4060 EGD4070	B15 B07 B13 B17 B08 B16 B10 B14 rt C (B11) B11 (Installation of Gina Gasket) rt D B23 B24 B25 B26 B21 B18	1 10-Nov-12 1 13-Nov-12 1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 2 1 24-Nov-12 1	10-Nov-12 13-Nov-12 13-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EBC3840, EGC3 27 EGC3860, EBC3 27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48	EGC3860, E EGC3870 EGC3850, E ECC5030, E EGC3900, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3840 EGC3850 EGC3860 EGC3870 EGC3880 EGC3890 EGC3910 EGC3910 EGC3910 EGC3910 EGC3920 EGD4000 EGD4000 EGD4010 EGD4020 EGD4030 EGD4050 EGD4060 EGD4070	B15 B07 B13 B17 B08 B16 B10 B14 rt C (B11) B11 (Installation of Gina Gasket) rt D B23 B24 B25 B26 B21 B18	1 10-Nov-12 1 13-Nov-12 1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 2 1 24-Nov-12 1	10-Nov-12 13-Nov-12 13-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EBC3840, EGC3 27 EGC3860, EBC3 27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48	EGC3860, E EGC3870 EGC3850, E ECC5030, E EGC3900, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							· · · ·
EGC3850 EGC3860 EGC3870 EGC3880 EGC3890 EGC3910 EGC3910 EGC3910 EGC3920 EGD4000 EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B07 B13 B17 B08 B16 B10 B14 rt C (B11) B11 (Installation of Gina Gasket) rt D B23 B24 B25 B26 B21 B18	1 13-Nov-12 1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	13-Nov-12 13-Nov-12 14-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EGC3860, EBC3 27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48	EGC3870 EGC3850, E ECC5030, E EGC3900, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3860 EGC3870 EGC3880 EGC3890 EGC3900 EGC3910 EGC3910 EGC3920 EGD4000 EGD4000 EGD4020 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B13 B17 B08 B16 B10 B14 rt C (B11) B11 (Installation of Gina Gasket) rt D B23 B24 B25 B26 B21 B18	1 13-Nov-12 1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	13-Nov-12 14-Nov-12 15-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EGC3840, EBC3 27 EGC3850, EBC3 27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	EGC3850, E ECC5030, E EGC3900, E EGC3880, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3870 EGC3880 EGC3890 EGC3900 EGC3910 EGC3910 EGC3920 EGD4000 EGD4000 EGD4020 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B17 B08 B16 B10 B14 rt C (B11) B11 (Installation of Gina Gasket) rt D B23 B24 B25 B26 B21 B18	1 14-Nov-12 1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 2 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	14-Nov-12 15-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EGC3850, EBC3 27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	ECC5030, E4 EGC3900, E EGC3880, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3880 EGC3890 EGC3900 EGC3910 East Bound - Pa EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B08 B16 B10 B14 art C (B11) B11 (Installation of Gina Gasket) art D B23 B24 B25 B26 B21 B18	1 15-Nov-12 1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 2 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	15-Nov-12 15-Nov-12 19-Nov-12 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EGC3890, EBC3 27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	EGC3900, E EGC3880, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3890 EGC3900 EGC3910 East Bound - Pa EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B16 B10 B14 art C (B11) B11 (Installation of Gina Gasket) art D B23 B24 B25 B26 B21 B18	1 15-Nov-12 1 19-Nov-12 1 19-Nov-12 1 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	15-Nov-12 19-Nov-12 19-Nov-12 23-Feb-13 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	27 EBC3890, EGC3 91 EBC3800, EGC3 91 EGC3900, EBC3 48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	EGC3880, E EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3900 EGC3910 East Bound - Pa EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4050 EGD4060 EGD4070	B10 B14 art C (B11) B11 (Installation of Gina Gasket) art D B23 B24 B25 B26 B21 B18	1 19-Nov-12 1 19-Nov-12 3 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	19-Nov-12 19-Nov-12 23-Feb-13 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	91 EBC3800, EGC3 91 EGC3900, EBC3 48	EGC3910, R ECC5010 RBP2060, RI EGD4010, E							
EGC3910 East Bound - Pa EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	B14 art C (B11) B11 (Installation of Gina Gasket) art D B23 B24 B25 B26 B26 B21 B18	1 19-Nov-12 3 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	19-Nov-12 23-Feb-13 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	91 EGC3900, EBC3 48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	ECC5010 RBP2060, RI EGD4010, E							
East Bound - Pa EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD40400 EGD4050 EGD4060 EGD4070	nt C (B11) B11 (Installation of Gina Gasket) nt D B23 B24 B25 B26 B26 B21 B18	3 21-Feb-13 3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	23-Feb-13 23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	48 37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	RBP2060, RI EGD4010, E							
EGC3920 East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	B11 (Installation of Gina Gasket) art D B23 B24 B25 B26 B21 B18	3 21-Feb-13 30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12 1 24-Nov-12	23-Feb-13 08-Dec-12 09-Nov-12 23-Nov-12	37 EBD4000 105 83 EBE5020 83 EBE5040, EGD4	EGD4010, E							
East Bound - Pa EGD4000 EGD4010 EGD4020 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	nt D B23 B24 B25 B26 B21 B18	30 09-Nov-12 1 09-Nov-12 1 23-Nov-12 1 23-Nov-12 1 24-Nov-12	08-Dec-12 09-Nov-12 23-Nov-12	105 83 EBE5020 83 EBE5040, EGD4	EGD4010, E							
EGD4000 EGD4010 EGD4020 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	823 824 825 826 821 818	1 09-Nov-12 1 23-Nov-12 23-Nov-12 23-Nov-12 1 24-Nov-12 24-Nov-12 24-Nov-12	09-Nov-12 23-Nov-12	83 EBE5020 83 EBE5040, EGD4		 1 1						
EGD4010 EGD4020 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	B24 B25 B26 B21 B18	1 23-Nov-12 23-Nov-12 24-Nov-12	23-Nov-12	83 EBE5040, EGD4		- i - i - i	- i - i -					1 1 1
EGD4020 EGD4030 EGD4040 EGD4050 EGD4060 EGD4070	B25 B26 B21 B18	1 23-Nov-12 1 24-Nov-12			FOD 4000 F							: []
EG D4030 EG D4040 EG D4050 EG D4060 EG D4070	B26 B21 B18	1 24-Nov-12	23-Nov-12		EGD4020, E							
EGD4040 EGD4050 EGD4060 EGD4070	B21 B18			83 EGD4010, EBE5	EGD4030, E							
EGD4050 EGD4060 EGD4070	B18	1 27-Nov-12	24-Nov-12	83 EBE5060, EGD4	ECE6000, E(
EGD4060 EGD4070			27-Nov-12	83 EBE5110, EGD4	EGD4050, E							
EGD4070	B22	1 28-Nov-12	28-Nov-12	83 EGD4040, EBE5	EGD4060, E							
		1 29-Nov-12	29-Nov-12	83 EBE5010, EGD4	EGD4070, E							
EGD4080	B27	1 29-Nov-12	29-Nov-12	83 EBE5070, EGD4	ECE6010, E(
	B20	1 30-Nov-12	30-Nov-12	83 EBE5030, EGD4	EGD4090, E							
EGD4090	B30	1 04-Dec-12	04-Dec-12	83 EBE5100, EGD4	EGD4100, E	 						·
	B29	1 05-Dec-12	05-Dec-12	83 EGD4090, EBE5	ECE6050, E(
	B19	1 06-Dec-12	06-Dec-12	83 EBE5080, EGD4	EGD4120, E							
	B28		08-Dec-12	84 EBE5090, EGD4								
	ng Platform and Pile	193 15-Aug-12		76	LOLOGO							
West Bound - Pa		35 08-Nov-12	12-Dec-12	105		 						;
	P59-P60 (Staging Platform and Pile)	6 08-Nov-12	14-Nov-12	84 WGA1850	WSPA1010							
	P25-P26 (Staging Platform and Pile)	2 15-Nov-12	16-Nov-12	84 WSPA1000	WSPA1020							
	P23-P24 (Staging Platform and Pile)	2 17-Nov-12	19-Nov-12	84 WSPA1010	WSPA1030							
	P21-P22 (Staging Platform and Pile)	2 19-Nov-12	20-Nov-12	84 WSPA1020	WSPA1040							
	P19-P20 (Staging Platform and Pile)	2 21-Nov-12	22-Nov-12	84 WSPA1030	WSPA1050	 						+
	P17-P18 (Staging Platform and Pile)	2 23-Nov-12	22-Nov-12	84 WSPA1030	WSPA1050							
	P15-P16 (Staging Platform and Pile)	2 26-Nov-12	27-Nov-12	84 WSPA1050	WSPC2070							
	P13-P14 (Staging Platform and Pile)	1 12-Dec-12	12-Dec-12	84 WSPA1060	WSPC2000							
West Bound - Pa		10 18-Dec-12	27-Dec-12	107		 						÷
	BP1-BP2 (Staging Platform and Pile)	2 18-Dec-12	19-Dec-12	84 WSPC2070	WSPC2010							
	P01-P02 (Staging Platform and Pile)	1 20-Dec-12		84 WSPC2000	WSPC2020							
	P03-P04 (Staging Platform and Pile)	1 21-Dec-12		84 WSPC2010	WSPC2030							
	P05-P06 (Staging Platform and Pile)		22-Dec-12	84 WSPC2020	WSPC2040							
	P07-P08 (Staging Platform and Pile)	1 27-Dec-12	27-Dec-12	84 WSPC2030	WSPC2050	 						
	P09-P10 (Staging Platform and Pile)	1 27-Dec-12	27-Dec-12	84 WSPC2040	WSPC2060							
WSPC2060	P11-P12 (Staging Platform and Pile)	1 27-Dec-12	27-Dec-12	84 WSPC2050	DRW1520							
East Bound - Pa	art 1	4 15-Aug-12	18-Aug-12	213								
ESPD3000	P57-P58 (Staging Platform and Pile)	2 15-Aug-12	16-Aug-12	173 EBC3800	ESPD3100							4
ESPD3100	P61-P62-P63 (Staging Platform and Pile)	2 17-Aug-12	18-Aug-12	173 ESPD3000	ESPD4000							
East Bound - Pa	art 2	12 24-Dec-12	04-Jan-13	32								
ESPB3070	PB5-PB3-PB4 (Staging Platform and Pile)	8 24-Dec-12	04-Jan-13	27 EGC3880	ESPB3080							
	P27-P28 (Staging Platform and Pile)	1 31-Dec-12	31-Dec-12	27 ESPB3070	ESPB3090							
	P29-P30 (Staging Platform and Pile)	2 02-Jan-13	03-Jan-13	27 ESPB3080	ESPD4000, [
East Bound - Pa		19 05-Jan-13	23-Jan-13	78								
	P55-P56 (Staging Platform and Pile)	4 05-Jan-13	09-Jan-13	60 ESPD3100, EGD	ESPD4010	 ···· · · · · · · ·						+
					ESPD4010 ESPD4020							
	P53-P54 (Staging Platform and Pile)	2 05-Jan-13	07-Jan-13	60 ESPD4000								
	P51-P52 (Staging Platform and Pile)	3 08-Jan-13	10-Jan-13	60 ESPD4010	ESPD4030							
	P49-P50 (Staging Platform and Pile)	1 11-Jan-13	11-Jan-13	60 ESPD4020	ESPD4040							
ESPD4040	P47-P48 (Staging Platform and Pile)	11 11-Jan-13	23-Jan-13	60 ESPD4030	ESPD4050							<u>: []</u>

Actual Work	Date	Revision	Ch	Approved	
Remaining Work	31-May-12	Rev. E	MF	кт	
Ŭ	23-Jun-12	Rev. F	MF	KT	
Critical Remaining	19-Jul-12	Rev. G	MF	КТ	
 Milestone 	14-Aug-12	Rev. H	MF	КТ	
Summary	19-Sep-12	Rev. I	MF	KT	
	21-Nov-12	Rev. J	MF	КТ	
	19-Feb-13	Rev. K	MF	КТ	
	05-Mar-13	Rev. L	MF	КТ	

Contract No.: HK/2010/06

Wan Chai Development Phase II-

金門 Gammon – I

Central-Wan Chai Bypass over MTR Tuen Wan Line

		2013	
Q4	Q1 -12, East Bound - Pa	Q2	Q3
	12,1200 Dound	Ũ	
B0 6 B 09			
B 05			
B 12			
B 15 B 07			
907 38 1813			
B 17			
B 08			
B16			
в10			
11 B14			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-13, East Bound - I	
	Dec 12, East Bound	stallation of Gina (Dasket)
23	Deuliz, Last Doulio		
🕈 B24			
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B26			
B21			
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B27			
B 20			
B3 0			
B29			
B19			
6 2			
	-Det-12, West Bour	-13, Dismantle of S	staging Platform a
11:00000.000000000000000000000000000000	(Staging Platform a		
1 1 10 10 10 10 10 10 10 10 11 10 1	6 (Staging Platform a		
	4 (Staging Platform		
	2 (Staging Platform		
► P19 P	20 (Staging Platform	and Pile)	
	18 (Staging Platform		
	P16 (Staging Platform I3-P14 (Staging Plat		
	27-Dec-12, West B		
bi- mein smit B fille bi- m- i	BP1-BP2 (Staging Pl		
	P01-P02 (Staging Pl	form and Pile)	
	P03-P04 (Staging Pl		
	P05 P06 (Staging P		
	P07-P08 (Staging P P09-P10 (Staging P		
	P11-P12 (Staging P		
g-12 Ealst Bownd - Pa	urt 1		
	and P ile)		
62-P63 (Stading Plat	orm and Pile)		
	04-Jan-13, East E DDC DD2 DD4 (C)		Dia
	PB5-PB3-PB4 (SB P27-P28 (Staging)	aging Platform and	Plie)
	P29-P30 (Staging		
		st Bound - Part 3	
	P55-P56 (Stagit	g Platform and Pile)
		Platform and Pile	
		g Platform and Pile	
		g Platform and Pile	
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Leader J	oint Vent	ture 🏽 📗	

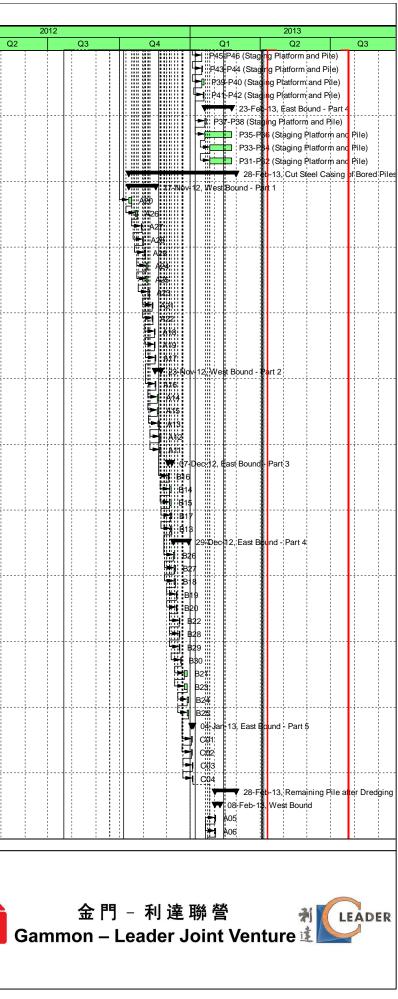
	Activity Name	Original Start	Finish	Total Float	Predecessors	Successors		Q1	Q2	2011	Q	3	Q)4	Q	1		Q2	2012	
ESPD4050	P45-P46 (Staging Platform and Pile)	1 15-Jan-13	15-Jan-13	60	ESPD4040	ESPD4060					1	1					;	1		TT
ESPD4060	P43-P44 (Staging Platform and Pile)	2 15-Jan-13	16-Jan-13	60	ESPD4050	ESPD4070														
ESPD4070	P39-P40 (Staging Platform and Pile)	4 15-Jan-13	18-Jan-13	60	ESPD4060	ESPD4080				1			1				1	1 1		
ESPD4080	P41-P42 (Staging Platform and Pile)	2 17-Jan-13	18-Jan-13	60	ESPD4070	ESPB3000														
East Bound - P		36 19-Jan-13	23-Feb-13	76																
ESPB3000	P37-P38 (Staging Platform and Pile)	2 19-Jan-13	21-Jan-13		ESPD4080	ESPB3010				1			†		+			1		
ESPB3010	P35-P36 (Staging Platform and Pile)	28 19-Jan-13	23-Feb-13		ESPB3000	ESPB3020														
ESPB3020	P33-P34 (Staging Platform and Pile)	22 26-Jan-13	23-Feb-13		ESPB3010	ESPB3030														
ESPB3030	P31-P32 (Staging Platform and Pile)	22 26-Jan-13	23-Feb-13		ESPB3020	DRW1520														
Cut Steel Casing		139 13-Oct-12	28-Feb-13	48		DIWIJZO														
West Bound - I		36 13-Oct-12	17-Nov-12	98									· +		·					
WCA2000	A20	3 13-Oct-12	16-Oct-12		WGA1810	WCA2010														
	A26	2 22-Oct-12	24-Oct-12																	
WCA2010	A20 A27				WGA1820, WCA															
WCA2020		2 29-Oct-12	30-Oct-12		WGA1860, WCA															
WCA2030	A28	2 31-Oct-12	01-Nov-12		WCA2020, WGA													¦}		
WCA2040	A29	2 02-Nov-12	03-Nov-12		WGA1850, WCA															
WCA2050	A24	2 05-Nov-12	06-Nov-12		WGA1920, WCA															
WCA2060	A25	2 05-Nov-12	06-Nov-12		WCA2050, WGA															
WCA2070	A23	2 07-Nov-12	08-Nov-12	78	WCA2060, WGA	WCA2080														
WCA2080	A21	2 12-Nov-12	13-Nov-12	78	WGA1910, WCA	WCA2090														
WCA2090	A22	2 12-Nov-12	13-Nov-12	78	WGA1830, WCA	WCA2100			[1							
WCA2100	A18	2 15-Nov-12	16-Nov-12	78	WGA1870, WCA	WCA2110														
WCA2110	A19	2 15-Nov-12	16-Nov-12	78	WCA2100, WGA	WCA2120														
WCA2120	A17	2 16-Nov-12	17-Nov-12		WCA2110, WGA															
West Bound - I		8 16-Nov-12	23-Nov-12	98																
WCD4000	A16	2 16-Nov-12	17-Nov-12		WGB2810, WCA	WCD4010				••••••			÷		+			{}		
WCD4000 WCD4010	A14	2 19-Nov-12	20-Nov-12		WCD4000, WGF															
WCD4010 WCD4020	A14 A15	2 19-Nov-12	20-Nov-12		WGB2820, WCE													1		
																	1	1		
WCD4030	A13	2 20-Nov-12	21-Nov-12		WCD4020, WGE															
WCD4040	A12	2 22-Nov-12	23-Nov-12		WCD4030, WGE													łł		
WCD4050	A11	2 22-Nov-12	23-Nov-12	_	WCD4040, WGE	ECC5000														
East Bound - P	The second se	5 03-Dec-12	07-Dec-12	98																
ECC5000	B16	2 03-Dec-12	04-Dec-12		EGC3890, WCD															
ECC5010	B14	2 05-Dec-12	06-Dec-12		ECC5000, EGC3															
ECC5020	B15	2 05-Dec-12	06-Dec-12	78	EGC3840, ECC5	ECC5030							<u> </u>					ii		
ECC5030	B17	2 06-Dec-12	07-Dec-12	78	ECC5020, EGC3	ECC5040														
ECC5040	B13	2 06-Dec-12	07-Dec-12	78	EGC3860, ECC5	ECE6000							1					1		
East Bound - P	Part 4	20 10-Dec-12	29-Dec-12	101																
ECE6000	B26	2 10-Dec-12	11-Dec-12	78	EGD4030, ECC5	ECE6010												1		
ECE6010	B27	2 11-Dec-12	12-Dec-12	78	EGD4070, ECE6	ECE6020														
ECE6020	B18	2 11-Dec-12	12-Dec-12	78	EGD4050, ECE6	ECE6030	1.1			1								1		
ECE6030	B19	2 13-Dec-12	14-Dec-12	78	EGD4110, ECE6	ECE6040														
ECE6040	B20	2 13-Dec-12	14-Dec-12		EGD4080, ECE6															
ECE6050	B22	2 17-Dec-12	18-Dec-12	_	EGD4100, ECE6												1			
ECE6060	B28	2 17-Dec-12	18-Dec-12	_	EGD4120, ECE6															
ECE6070	B29	2 17-Dec-12	18-Dec-12		EGD4060, ECE6		†- †			•••••	····†···		†		+			†		
ECE6080	B30	2 17-Dec-12 2 19-Dec-12	20-Dec-12		EGD4000, ECE6															
ECE6090	B21		20-Dec-12 27-Dec-12		EGD4090, ECE6															
		2 24-Dec-12 2 24-Dec-12																		
ECE6100	B23		27-Dec-12		EGD4000, ECE6															
ECE6110	B24	2 28-Dec-12	29-Dec-12		EGD4010, ECE6		<u> -</u>						·		·			∤		
ECE6120	B25	2 28-Dec-12	29-Dec-12	_	EGD4020, ECE6	ECE0510														
East Bound - P		3 02-Jan-13	04-Jan-13	99																
ECE6510	C01	2 02-Jan-13	03-Jan-13		EBE5140, ECE6 [,]															
ECE6520	C02	2 02-Jan-13	03-Jan-13	_	EBE5160, ECE6															
ECE6530	C03	2 03-Jan-13	04-Jan-13	78	EBE5150, ECE6	ECE6540	 . 						ļ					Įİ		
ECE6540	C04	2 03-Jan-13	04-Jan-13	78	EBE5130, ECE6	DRW1520	LL.													
Remaining Pile	e after Dredging	28 01-Feb-13	28-Feb-13	48																
West Bound	1	8 01-Feb-13	08-Feb-13	35																
RBP1000	A05	2 01-Feb-13	02-Feb-13	27	DRW1515	RBP1010														
	A06	2 01-Feb-13		_	WGB2910, RBP [,]		1	i i	;	. i		i i	. i	i	- i - i	- i - i		: i		

Actual Work	Date	Revision	Ch	Approved
	31-May-12	Rev. E	MF	КТ
Remaining Work	23-Jun-12	Rev. F	MF	КТ
Critical Remaining	19-Jul-12	Rev. G	MF	КТ
♦ Milestone	14-Aug-12	Rev. H	MF	кт
Summary	19-Sep-12	Rev. I	MF	КТ
	21-Nov-12	Rev. J	MF	КТ
	19-Feb-13	Rev. K	MF	КТ
	05-Mar-13	Rev I	MF	кт

Contract No.: HK/2010/06

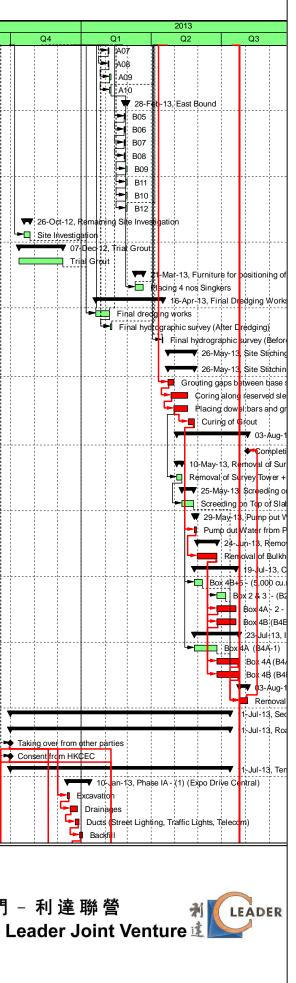
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line



WDII- Central- Wan Chai Bypass Over MTR Tsuen Wan Line (Rev. L) Page 13 of 15

	Activity Name	Original Start	Finish	Total Predecessors Float	Successors	Q1		Q2	2011	Q3		Q4		Q1		Q2	2012	C
RBP1020) A07	Duration 2 04-Feb-13	05-Feb-13	27 RBP1010	RBP1030			QZ		QS		Q4	_					
RBP1030		2 04-Feb-13	05-Feb-13	27 WGB2870, RBP	RBP1040			1										
RBP1040		3 06-Feb-13	08-Feb-13	27 RBP1030	RBP1050													
) A10	3 06-Feb-13	08-Feb-13	27 RBP1040	FPP1515, PF													
Bound		4 25-Feb-13	28-Feb-13	48	1111313,11													
RBP2000		2 25-Feb-13	26-Feb-13	40 37 DRW1515, EGC	RBP2010			·						·			; <u> </u>	·
RBP2010		2 25-Feb-13	26-Feb-13	37 RBP2000	RBP2030													
RBP2030	B07	2 25-Feb-13	26-Feb-13	37 RBP2010	RBP2040													
RBP2040	B08	2 25-Feb-13	26-Feb-13	37 RBP2030	RBP2050													
RBP2050	B09	2 27-Feb-13	28-Feb-13	37 RBP2040	RBP2060													;
RBP2060) B11	2 27-Feb-13	28-Feb-13	37 EGC3920, RBP2	RBP2070			1	{	1				1				17
RBP2070) B10	2 27-Feb-13	28-Feb-13	37 EGC3900, RBP2	RBP2080													
RBP2080) B12	2 27-Feb-13	28-Feb-13	37 EGC3830, RBP2	PPU8020													
Remaining Site I			26-Oct-12	119														
RSI6000	Site Investigation	6 19-Oct-12	26-Oct-12	96 WGA1850	DRW1515			1 1		1	1			i i i	1		: I	
	Site investigation				DRW1515												} <u></u> }	
Trial Grout		57 12-Oct-12	07-Dec-12	77														
TGR6500	Trial Grout	48 12-Oct-12*	07-Dec-12	60	DRW1515													
Furniture for pos	sitioning of precast unit	11 11-Mar-13	21-Mar-13	36														
FPP1515	Placing 4 nos Singkers	10 11-Mar-13	21-Mar-13	27 RBP1050	PPU8010			1			1			i i i	1		: I	
Final Dredging V	Vorks	88 19-Jan-13	16-Apr-13	1										i			: I	
DRW1515	Final dredging works	16 19-Jan-13	06-Feb-13	27 TGR6500, RSI60	DRW1520, F	1								, 				
DRW1520	Final hydrographic survey (After Dredging)	3 07-Feb-13	09-Feb-13	50 DRW1515, ESPE	PPU8020													
DRW1520								1										
	Final hydrographic survey (Before Positioning of Precast Box Uni	2 15-Apr-13	16-Apr-13	1 PPU8005	PPU8010			1										
Stiching of Pro	ecast Box Unit	34 23-Apr-13	26-May-13	0							1							
Stitching Precas	st Combined Unit	34 23-Apr-13	26-May-13	0				1										
SU9010	Grouting gaps between base slab and bored piles within the gas	7 23-Apr-13	30-Apr-13	0 PPU8030	SSU9020													
SU9020	Coring along reserved slevee pipe to bored piles (816nos.)	18 26-Apr-13	18-May-13	0 SSU9010	SSU9030													
SU9030	Placing dowel bars and grouting works (816nos.)	15 30-Apr-13	18-May-13	0 SSU9020	SSU9040, M			1 1						1	1			
		· · ·						1		1	1			1			: I	
SU9040	Curing of Grout	8 19-May-13	26-May-13	0 SSU9030	MPU10600, I									(: 1	
 Outstanding 	Works inside Precast Box Unit after Stitching	92 04-May-13	03-Aug-13	0														
P1100	Completion of Outstanding Works inside Precast Box Unit after S	0	03-Aug-13*	0 MPU10900														
noval of Survey T	Fower + Towing Furniture	7 04-May-13	10-May-13	60														
IPU10100	Removal of Survey Tower + Towing Furniture	6 04-May-13	10-May-13	48 SSU9030	MPU10200			1 1						1			1	
eeding on Top of	-	15 11-May-13	25-May-13	59				1										
					MDU40000													
/IPU10200	Screeding on Top of Slab	12 11-May-13	25-May-13	48 MPU10100	MPU10900												·	
mp out Water from	n Pre-cast Box Unit	3 27-May-13	29-May-13	0														
/IPU10300	Pump out Water from Pre-cast Box Unit	3 27-May-13	29-May-13	0 SSU9040	MPU10400			1						1				
moval of Bulkhea	ds	26 30-May-13	24-Jun-13	0				1						i			: 1	
/IPU10400	Removal of Bulkheads	21 30-May-13	24-Jun-13	0 MPU10300	MPU10510, I													
nstruction of Drai	in Pipes, Profile Barriers, Foam Concrete and Infill Concre	54 27-May-13	19-Jul-13	4														
/IPU10500	Box 4B+5 - (5,000 cu.m) (Foam Concrete)	10 27-May-13	06-Jun-13	38 SSU9040	MPU10900												·	
/PU10510	Box 2 & 3 - (B2-1/B2-2/B3) (5,000 cu.m) (Foam Concrete)	10 25-Jun-13	06-Jul-13	14 MPU10400	MPU10900			1						1			: I	
			_					1						i			: 1	
/IPU10520	Box 4A - 2 - (4BA-2)(Concrete Infill)	21 25-Jun-13	19-Jul-13	0 MPU10400	MPU10620													
/IPU10530	Box 4B (B4B-1/B4B-2) (Concrete Infill)	21 25-Jun-13	19-Jul-13	0 MPU10400	MPU10630													
ermediate Slab		58 27-May-13	23-Jul-13	0				. []						i				
/IPU10600	Box 4A (B4A-1)	24 27-May-13	24-Jun-13	24 SSU9040	MPU10900				1		1			1	1		1	1
/IPU10620	Box 4A (B4A-2)	24 25-Jun-13	23-Jul-13	0 MPU10520	MPU10900												; I	
/PU10630	Box 4B (B4B-1)	24 25-Jun-13	23-Jul-13	0 MPU10530	MPU10900			1										
moval of Turrents		11 24-Jul-13	03-Aug-13	0														
IPU10900	Removal of Turrets		-	0 MPU10510, MPL	MW/P1100			1									: İ	
		10 24-Jul-13	03-Aug-13					·			····-	···	····-	·				· -
ion II		284 01-Oct-12	11-Jul-13	0							1							
ad Works		284 01-Oct-12	11-Jul-13	0														
AR8000	Taking over from other parties	0 01-Oct-12*		0 CNO1010	P1A1000, P1													
AR8010	Consent from HKCEC	0 01-Oct-12*		0 CNO1010	P1A1000, P1			1										
	Road at HKCEC West Bridge	284 01-Oct-12	11-Jul-13	0				1	1		1				1		: 1	
	kpo Drive Central)	29 13-Dec-12	10-Jan-13	0													·	
					P1A1010													
P1A1000	Excavation	4 13-Dec-12	16-Dec-12	0 TAR8000, TAR80	P1A1010													
P1A1010	Drainages	10 17-Dec-12	26-Dec-12	0 P1A1000	P1A1020			1	1		1				1		:	
P1A1020	Ducts (Street Lighting, Traffic Lights, Telecom)	5 24-Dec-12	28-Dec-12	0 P1A1010	P1A1030						1							
P1A1030	Backfill	5 29-Dec-12	02-Jan-13	0 P1A1020	P1A1040													
	Date Revision Ch App	roved		~			1 11 4	100	101	<u> </u>				— Ť	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Actual Work				Co	ntract	INO.	HK	/2()	10/	06								
Remaining Wo	ork 31-May-12 Rev. E MF KT			00			• •	. _ v										
-	23-Jun-12 Rev. F MF KI														_			
Critical Remain	ning 19-Jul-12 Rev. G MF KT			Man C	hai Da		nm	ont	Dh	200	Н.					N		
Milestone		———————————————————————————————————————		Wan C			ηπ	CIII	1.11	ase	11-			1				
_	14-Aug-12 Rev. H MF KT																	
Summary	19-Sep-12 Rev. I MF KT		1		- ' D	_				—		^ /	. ·			C C	Samı	n
	21-Nov-12 Rev. J MF KT	— C	entra	I-Wan Ch	ai Bvd	ass	ove	rivi	IK	I UF	en v	van	LINE	Э				
														-				
														I				
	19-Feb-13 Rev. K MF KT				(Works													



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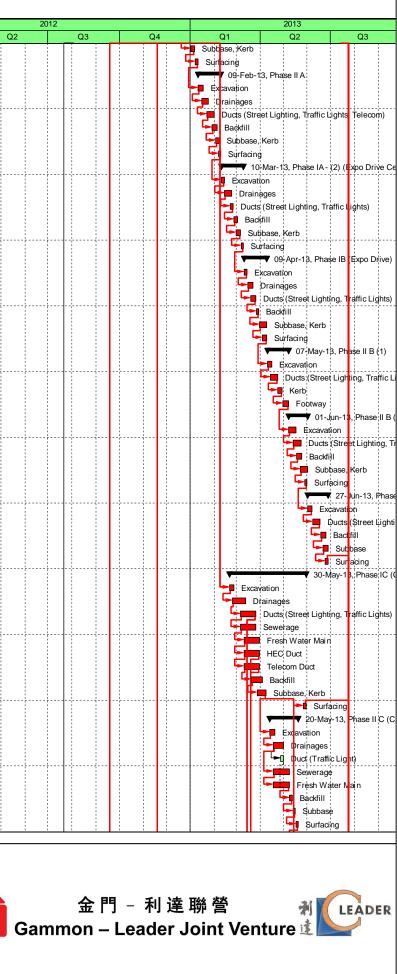
	Activity Name	Original Start	Finish	Total Predecessors Float	Successors
P1A1040	Sukkasa Kash	Duration	00 Jan 12		D1 41 050
	Subbase, Kerb	6 01-Jan-13	06-Jan-13	0 P1A1030	P1A1050
A1050	Surfacing	4 07-Jan-13 30 11-Jan-13	10-Jan-13 09-Feb-13	0 P1A1040	P1A1200
se II A 1A1200	Excavation	7 11-Jan-13	17-Jan-13	0 P1A1050	P1A1210
A1200	Drainages	10 15-Jan-13	24-Jan-13	0 P1A1030	P1A1210
1A1220	Ducts (Street Lighting, Traffic Lights, Telecom)	10 13-3an-13	31-Jan-13	0 P1A1200	P1A1230
1A1220	Backfill	7 29-Jan-13	04-Feb-13	0 P1A1210	P1A1240
P1A1240	Subbase, Kerb	6 02-Feb-13	07-Feb-13	0 P1A1230	P1A1250
P1A1250	Surfacing	4 06-Feb-13	09-Feb-13	0 P1A1240	P1A2060
	(Expo Drive Central)	29 10-Feb-13		0	1 17 2000
P1A2060	Excavation	4 10-Feb-13	13-Feb-13	0 P1A1250	P1A2070
P1A2070	Drainages	10 14-Feb-13	23-Feb-13	0 P1A2060	P1A2080
P1A2080	Ducts (Street Lighting, Traffic Lights)	5 21-Feb-13	25-Feb-13	0 P1A2070	P1A2090
P1A2090	Backfill	5 26-Feb-13	02-Mar-13	0 P1A2080	P1A2100
P1A2100	Subbase, Kerb	6 01-Mar-13	06-Mar-13	0 P1A2090	P1A2110
P1A2100	Surfacing	4 07-Mar-13	10-Mar-13	0 P1A2090	P1B2000
		30 11-Mar-13			FTB2000
Phase IB (Exp			·	0 8142110	P1P2010
P1B2000	Excavation	5 11-Mar-13	15-Mar-13	0 P1A2110	P1B2010
P1B2010	Drainages	7 16-Mar-13	22-Mar-13	0 P1B2000	P1B2020
P1B2020	Ducts (Street Lighting, Traffic Lights)	7 20-Mar-13	26-Mar-13	0 P1B2010	P1B2030
P1B2030	Backfill	4 27-Mar-13	30-Mar-13	0 P1B2020	P1B2040
P1B2040	Subbase, Kerb	10 31-Mar-13	09-Apr-13	0 P1B2030	P1B2050
P1B2050	Surfacing	6 04-Apr-13	09-Apr-13	0 P1B2040	P2B2100
Phase II B (1)		28 10-Apr-13	07-May-13	0	Dobo ····
P2B2100	Excavation	7 10-Apr-13	16-Apr-13	0 P1B2050	P2B2110
P2B2110	Ducts (Street Lighting, Traffic Lights)	10 14-Apr-13	23-Apr-13	0 P2B2100	P2B2120
P2B2120	Kerb	6 24-Apr-13	29-Apr-13	0 P2B2110	P2B2130
P2B2130	Footway	8 30-Apr-13	07-May-13	0 P2B2120	P2B2200
Phase II B (2)		25 08-May-13		0	
P2B2200	Excavation	10 08-May-13	17-May-13	0 P2B2130	P2B2210
P2B2210	Ducts (Street Lighting, Traffic Lights)	11 13-May-13	23-May-13	0 P2B2200	P2B2220
P2B2220	Backfill	7 18-May-13	24-May-13	0 P2B2210	P2B2230
P2B2230	Subbase, Kerb	10 23-May-13	01-Jun-13	0 P2B2220	P2B2240
P2B2240	Surfacing	4 28-May-13	31-May-13	0 P2B2230	P3B3000
Phase III B		27 01-Jun-13	27-Jun-13	0	
P3B3000	Excavation	7 01-Jun-13	07-Jun-13	0 P2B2240	P3B3010
P3B3010	Ducts (Street Lighting, Traffic Lights)	10 08-Jun-13	17-Jun-13	0 P3B3000	P3B3020
P3B3020	Backfill	7 18-Jun-13	24-Jun-13	0 P3B3010	P3B3030
P3B3030	Subbase	7 21-Jun-13	27-Jun-13	0 P3B3020	P3B3040
P3B3040	Surfacing	4 24-Jun-13	27-Jun-13	0 P3B3030	CNO1030
Phase IC (Con	vention Avenue)	100 20-Feb-13	30-May-13	0	
P1C4000	Excavation	7 20-Feb-13	26-Feb-13	0 TAR8000, TAR8	(P1C4010
P1C4010	Drainages	18 24-Feb-13	13-Mar-13	0 P1C4000	P1C4020
P1C4020	Ducts (Street Lighting, Traffic Lights)	21 06-Mar-13	26-Mar-13	0 P1C4010	P1C4030, M
P1C4030	Sewerage	21 06-Mar-13	26-Mar-13	0 P1C4020	P1C4040
P1C4040	Fresh Water Main	21 11-Mar-13	31-Mar-13	0 P1C4030	P1C4050
P1C4050	HEC Duct	21 11-Mar-13	31-Mar-13	0 P1C4040	P1C4060, M
P1C4060	Telecom Duct	21 11-Mar-13	31-Mar-13	0 P1C4050	P1C4070, M
P1C4070	Backfill	14 21-Mar-13		0 P1C4060	P1C4080
P1C4080	Subbase, Kerb	12 28-Mar-13	· ·	0 P1C4070	P1C4090, P2
P1C4090	Surfacing	4 27-May-13		0 P1C4080, MSW	-
	nvention Avenue)	38 13-Apr-13		0	
P2C4100	Excavation	7 13-Apr-13	19-Apr-13	0 P1C4080	P2C4110
P2C4100 P2C4110		14 18-Apr-13	01-May-13	0 P1C4080	P2C4110 P2C4120, P2
	Drainages				-
P2C4120	Duct (Traffic Light)	5 27-Apr-13	01-May-13	7 P2C4110	P2C4150
P2C4130	Sewerage	21 18-Apr-13	08-May-13	0 P2C4110	P2C4140
P2C4140	Fresh Water Main	21 18-Apr-13	08-May-13	0 P2C4130	P2C4150
P2C4150	Backfill	4 09-May-13		0 P2C4140, P2C4	
P2C4160	Subbase	4 13-May-13		0 P2C4150	P2C4170
P2C4170	Surfacing	4 17-May-13	20-May-13	0 P2C4160	P3C4200

Actual Work	Date	Revision	Ch	Approved
Remaining Work	31-May-12	Rev. E	MF	кт
Ũ	23-Jun-12	Rev. F	MF	КТ
Critical Remaining	19-Jul-12	Rev. G	MF	КТ
♦ Milestone	14-Aug-12	Rev. H	MF	КТ
Summary	19-Sep-12	Rev. I	MF	КТ
	21-Nov-12	Rev. J	MF	КТ
	19-Feb-13	Rev. K	MF	КТ
	05-Mar-13	Rev. L	MF	KT

Contract No.: HK/2010/06

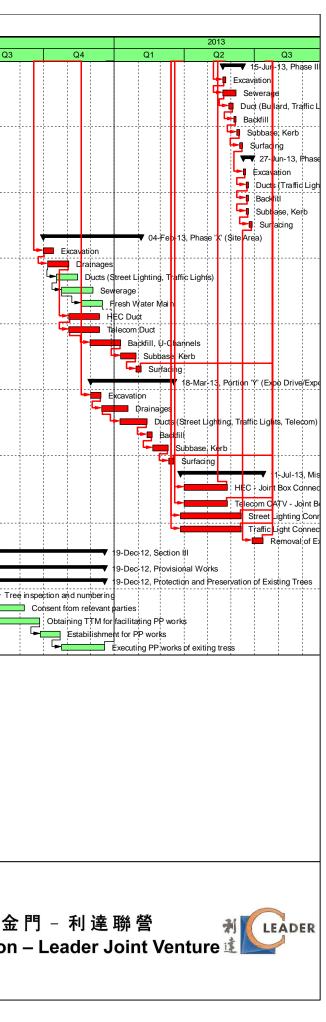
Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line



ID		Activity Name	Original	Start	Finish	Total Predecessors	Successors				201	1							201	2
			Duration			Float		Q1	l –	Q2		Qa	1		Q4		Q1	Q2		
		vention Avenue)		21-May-13		0				i.										
	P3C4200	Excavation	4	21-May-13	24-May-13	0 P2C4170	P3C4210													
	P3C4210	Sewerage	18	21-May-13	07-Jun-13	0 P3C4200	P3C4220			i i										
	P3C4220	Duct (Bullard, Traffic Lights)	7	28-May-13	03-Jun-13	0 P3C4210	P3C4230													
	P3C4230	Backfill	4	04-Jun-13	07-Jun-13	0 P3C4220	P3C4240				1									
	P3C4240	Subbase, Kerb	4	08-Jun-13	11-Jun-13	0 P3C4230	P3C4250													
	P3C4250	Surfacing	4	12-Jun-13	15-Jun-13	0 P3C4240	P4C4300													
	Phase IV C (Con	vention Avenue)	12	16-Jun-13	27-Jun-13	0														
	P4C4300	Excavation	4	16-Jun-13	19-Jun-13	0 P3C4250	P4C4310													
	P4C4310	Ducts (Traffic Lights)	4	20-Jun-13	23-Jun-13	0 P4C4300	P4C4320													
	P4C4320	Backfill	4	20-Jun-13	23-Jun-13	0 P4C4310	P4C4330				1									
	P4C4330	Subbase, Kerb	4	20-Jun-13	23-Jun-13	0 P4C4320	P4C4340													
	P4C4340	Surfacing	4	24-Jun-13	27-Jun-13	0 P4C4330	MSW7040													
	Phase 'X' (Site A	rea)	127	01-Oct-12	04-Feb-13	0														
	PXX5000	Excavation	14	01-Oct-12	14-Oct-12	0 TAR8000, TAR8(PXX5010			1	1	1		1		1 1			1 1	
	PXX5010	Drainages	28	06-Oct-12	02-Nov-12	0 PXX5000	PXX5050, P>				1	•••••		†						
	PXX5020	Ducts (Street Lighting, Traffic Lights)	28	18-Oct-12	14-Nov-12	23 PXX5010	PXX5030													
	PXX5030	Sewerage	42	24-Oct-12	04-Dec-12	23 PXX5020	PXX5040													
	PXX5040	Fresh Water Main		19-Nov-12	16-Dec-12	23 PXX5030	PXX5080													
	PXX5050	HEC Duct		03-Nov-12	12-Dec-12	0 PXX5010	PXX5060													
	PXX5060	Telecom Duct		03-Nov-12	12-Dec-12	0 PXX5050	PXX5070				1	····-		+						
	PXX5070	Backfill, U-Channels		30-Nov-12	08-Jan-13	0 PXX5060	PXX5080			į.										
	PXX5080	Subbase, Kerb		09-Jan-13	28-Jan-13	0 PXX5070, PXX50	PXX5090													
	PXX5090	Surfacing		29-Jan-13	04-Feb-13	0 PXX5080	CNO1030			į										
		o Drive/Expo Drive Central)		01-Dec-12	18-Mar-13	0														
	PYY6000	Excavation		01-Dec-12		0 TAR8000, TAR8(PYY6010				+	····-								
	PYY6010	Drainages		15-Dec-12	18-Jan-13	0 PYY6000	PYY6020													
	PYY6020	Ducts (Street Lighting, Traffic Lights, Telecom)		08-Jan-13	11-Feb-13	0 PYY6010	PYY6030	-												
	PYY6030	Backfill		12-Feb-13	18-Feb-13	0 PYY6020	PYY6040													
	PYY6040	Subbase, Kerb		19-Feb-13	11-Mar-13	0 PYY6030	PYY6050			1	1	1		1		1			1	
	PYY6050	Subbase, Kerb Surfacing		12-Mar-13	18-Mar-13	0 PYY6040	CNO1030	+- -			+			+						
	Miscellaneous W	•		27-Mar-13	11-Jul-13	0	CINO 1030													
	MSW7000	HEC - Joint Box Connection		01-Apr-13	26-May-13	0 P1C4050	P1C4090													
				· ·	-					-										
	MSW7010	Telecom CATV - Joint Box Connection		01-Apr-13	26-May-13	0 P1C4060	CNO1030			į.										
	MSW7020	Street Lighting Connection/Installation		27-Mar-13	13-Jun-13	0 P1C4020	CNO1030													
	MSW7030	Traffic Light Connection/Installation		27-Mar-13	13-Jun-13	0 P1C4020	CNO1030	-		į										
	MSW7040	Removal of Existing Street Lighting		28-Jun-13	11-Jul-13	0 P4C4340	CNO1030													
Sect	tion III		140	02-Aug-12	19-Dec-12	227				i i										
	ovisional Works			02-Aug-12		227														
	Protection and Pre	servation of Existing Trees			19-Dec-12	227					1l.			İ				.i		
	PPT9000	Tree inspection and numbering	0	02-Aug-12*		181 CNO1010	PPT9010													4
	PPT9010	Consent from relevant parties	31	02-Aug-12	06-Sep-12	181 PPT9000	PPT9020													
	PPT9020	Obtaining TTM for facilitating PP works	48	02-Aug-12	26-Sep-12	181 PPT9010	PPT9030													L
	PPT9030	Estabilishment for PP works	20	27-Sep-12	22-Oct-12	181 PPT9020	PPT9040													
	PPT9040	Executing PP works of exiting tress	49	24-Oct-12	19-Dec-12	181 PPT9030	CNO1040	1												

Actual Work	Date	Revision	Ch	Approved	Contract No.: HK/2010/06	
Remaining Work	31-May-12	Rev. E	MF	KT		
9	23-Jun-12	Rev. F	MF	КТ		
Critical Remaining	19-Jul-12	Rev. G	MF	кт	Wan Chai Development Phase II-	人田
♦ Milestone	14-Aug-12	Rev. H	MF	кт		金門
Summary	19-Sep-12	Rev. I	MF	кт		Gammon – L
	21-Nov-12	Rev. J	MF	кт	Central-Wan Chai Bypass over MTR Tuen Wan Line	
	19-Feb-13	Rev. K	MF	кт		
	05-Mar-13	Rev. L	MF	кт	(Works Programme - Rev. L)	



tivity ID	Activity Name	Rem	Start	Finish			NI-		2013			an la n	
		Dur			21 2	8 04	November 11	er 18	25	02	Dece 09	mber 16	23
3MRP - Nov	2013 to Feb 2013				•		•		•	1 1 1	· · ·		
02 - PRE-CO	NSTRUCTION WORKS					1 1 1 1							
02.3 - Method 9	Statement / Shop Drawings					1 1 1 1				1			
0230-1580	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Submission	28	16-Dec-13	12-Jan-14						1			
0230-1590	MS Bridge F1A/F2A Int. Noise Semi Enclosure - ER Review / Comment	18	13-Jan-14	30-Jan-14									
0230-1600	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Resubmission	18	31-Jan-14	17-Feb-14		7 1 1 1				· · · · · · · · · · · · · · · · · · ·			
0230-1610	MS Bridge F1A/F2A Int. Noise Semi Enclosure - No Adverse Comment	18	18-Feb-14	07-Mar-14									
0230-1930	MS Marine Temp Pile Removal - No Adverse Comment	2	18-Sep-13 A	21-Nov-13					IS Marine	Temp Pile I	Removal - N	No Adverse	
0230-1940	MS Beam Erection D1 to E2 - Submission	28	06-Jan-14*	02-Feb-14									
0230-1950	MS Beam Erection D1 to E2 - Comment/Resubmission	30	03-Feb-14	04-Mar-14									
0230-1372	MS Segment Erection by Crane - Submission	0	20-Sep-13 A	15-Nov-13 A			MS	Segme	ent Erectio	n by Crane	- Submissi	on	
0230-1374	MS Segment Erection by Crane - Comment/Resubmission	12	16-Nov-13 A	01-Dec-13						MS Segi	ment Erecti	ion by Cran	ie - Comr
0230-1376	MS Segment Erection by Crane - No Adverse Comment	12	02-Dec-13	13-Dec-13		1 1 1 1					M	S Segment	Erection
0230-2010	MS EVB ELS - Comment/Resubmission	0	20-Oct-13 A	31-Oct-13 A		MS EVB EL	_S - Comme	ent/Resu	ubmission				
0230-2020	MS EVB ELS - No Adverse Comment	0	01-Nov-13 A	12-Nov-13 A			MS EV	VB ELS	- No Adve	rse Comme	ent		
0230-2030	MS Beam Erection F8 to F15 - Submission	28	16-Dec-13*	12-Jan-14									
0230-2040	MS Beam Erection F8 to F15 - Review/Comment	15	13-Jan-14	27-Jan-14									
0230-2050	MS Beam Erection F8 to F15 - Resubmission	15	28-Jan-14	11-Feb-14									
0230-2060	MS Beam Erection F8 to F15 - No Adverse Comment	15	12-Feb-14	26-Feb-14									
0230-2070	MS ADB Pre-bored H-pile - Resubmission	6	21-Oct-13 A	25-Nov-13		, ,			MS A	DB Pre-bore	ed H-pile - I	Resubmissi	ion
0230-2080	MS ADB Pre-bored H-pile - No Adverse Comment	15	26-Nov-13	10-Dec-13							MS AD	B Pre-bore	ed H-pile
0230-1420	MS Noise Barrier - Submission	28	16-Dec-13	12-Jan-14		1 1 1 1							
0230-1430	MS Permanent Noise Barrier - ER Review & Comment	18	13-Jan-14	30-Jan-14		1 1 1 1							
0230-1440	MS Permanent Noise Barrier - Resubmission	18	31-Jan-14	17-Feb-14									
0230-1450	MS Permanent Noise Barrier - No Adverse Comment	18	18-Feb-14	07-Mar-14									
0230-1780	MS Temporary Bridge TD - Submission	28	03-Feb-14*	02-Mar-14									
	tor's Design and Build Items												
0240-1041	Temp Bridge "TD" Design - Submission	48	01-Mar-13 A	06-Jan-14		1 1 1				1 1 1			
0240-1042	Temp Bridge "TD" Design - ER review and comment	24	07-Jan-14	30-Jan-14		- - 							
0240-1042	Temp Bridge "TD" Design - Resubmission	30	31-Jan-14	01-Mar-14									
0240-1043	Int. Noise Enclosure Structural Design - Submission		20-Mar-13 A	01-Mai-14 01-Dec-13		, , , ,				Int Nois	e Enclosur	e Structural	al Design
		12									e Enelosuit	e official	, Design
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	28	02-Dec-13	29-Dec-13									
0240-1112	Int. Noise Enclosure Structural Design - No Adverse Comment	28	30-Dec-13	26-Jan-14									I
0240-1113	Int. Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	60	27-Jan-14	27-Mar-14					Noice	Barrier Stru	uctural Doc	ian ED Da	
0240-1127	Noise Barrier Structural Design - ER Review/Resubmission	6	30-May-13 A	25-Nov-13									
0240-1131	Noise Barrier - Procurement/Sub-contractor	26	01-Nov-13 A	15-Dec-13									
0240-1128	Noise Barrier Structural Design - No Adverse Comment	28	26-Nov-13	23-Dec-13									Noise B
0240-1132	Noise Barrier Structural - Shop Drawings	90	16-Dec-13	15-Mar-14		1 1 1 1					I		
0240-1133	Noise Barrier Structural - Fabrication/Delivery	120	15-Jan-14	14-May-14									
0240-1134	Noise Barrier Panel - Submission	36	16-Dec-13	20-Jan-14							l 		
0240-1136	Noise Barrier Panel - Design ER Review/Resubmission	28	21-Jan-14	17-Feb-14									
0240-1137	Noise Barrier Panel - Design No Adverse Comment	28	18-Feb-14	17-Mar-14									
0240-1138	Noise Barrier Panel - Fabrication Delivery	90	18-Feb-14	18-May-14		- - - - -							
0240-1141	Noise Barrier Green Wall - Design Submission	60	15-Jan-14	15-Mar-14									

Actual Level of Effort

Actual Work

- Remaining Work
 Critical Remaining Work
- Milestone

Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)

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				2014	1	
	00		January	00	07	February
	30	06	13	20	27	03 10 17
			MS Bridge	e F1A/F2	2A Int. N	loise Semi Enclosure - Su
						MS Bridge F1A/F2A Int. N
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ent						
						MS Beam Erection D
ıme	nt/Resu	bmission				
n b	v Crane	- No Adve	erse Comm	ent		
			MS Beam	Erection	n F8 to	F15 - Submission
					MS	Beam Erection F8 to F15
						MS Bear
						INIS Bear
- N	lo Adver	se Comm	ient			
			MS Noise	Barrior	Submi	ccion
			IVIS INUISE	Damer		
						MS Permanent Noise Barı
		Temp B	ridge "TD"	Design -	Submi	ssion
						Temp Bridge "TD" Design
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l Ir	ht. Noise	Enclosu	re Structura	al Desigr	ı - ER F	eview/Resubmission
					Int. N	oise Enclosure Structural I
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Bar	rier Stru	ctural Des	sign - No A	dverse C	ommen	ht
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				Noise I	Barrier I	Panel - Submission
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P -	Nov 2	013 to F	eb 2013			
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1 0	of 8					

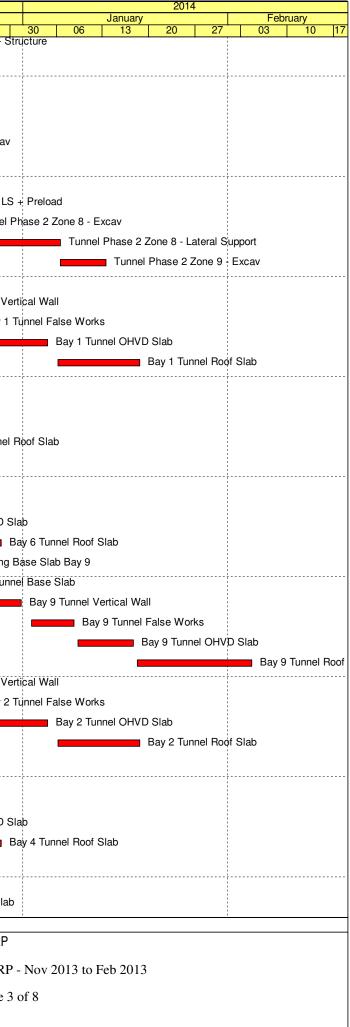
Activity ID	Activity Name	Rem	Start	Finish			2013	
ŕ		Dur			21	Novemb	er 18 25	December 02 09 16 23
0240-1163	Noise Enclosure - Procurement/Sub-contractor	26	01-Nov-13 A	15-Dec-13				Noise Enclosure - P
0240-1164	Interim Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	60	16-Dec-13	13-Feb-14				
0240-1165	Interim Noise Enclosure - Fabrication/Delivery Bridge F1A/F2A	75	15-Jan-14	30-Mar-14				
02.5 - Bridge Seg	gment/Beam Off-site Precasting							
0250-1700.41	Bridge Precast Beam Casting Bridge E Beam E2E1-A	0	16-Oct-13 A	12-Nov-13 A		Bridge	Precast Beam (Casting Bridge E Beam E2E1-A
0250-1700.51	Bridge Precast Beam Casting Bridge E Beam E2E1-B	6	26-Oct-13 A	25-Nov-13			Bri	dge Precast Beam Casting Bridge E Beam E2
0250-1700.61	Bridge Precast Beam Casting Bridge E Beam E2E1-C	24	20-Nov-13	13-Dec-13				Bridge Precast Beam C
0250-1600.14	Bridge D2 Pier D05 Precasting Segment (1-17) - Mould S1	42	20-Nov-13	31-Dec-13				
0250-1650.20	Bridge D1 Pier D02 Precasting Segment (1-17) - Mould S1	42	01-Jan-14	11-Feb-14	_			
0250-1650.18	Bridge D2 Pier D04 Precasting Segment (1-8) - Mould S2	0	19-Oct-13 A	13-Nov-13 A	_	Bridge	D2 Pier D04 P	recasting Segment (1-8) - Mould S2
0250-1600.15	Bridge D1 Pier D03 Precasting Segment (1-17) - Mould S2	42	20-Nov-13	31-Dec-13	_			
0250-1650.19	Bridge D1 Pier D04 Precasting Segment (1-8) - Mould S2	24	01-Jan-14	24-Jan-14				
0250-1650.21	Bridge D1 Pier D01 Precasting Segment (1-8) - Mould S2	24	25-Jan-14	17-Feb-14	_			
0250-1655.024	Bridge F3 - F07 Segment - Remaining (10 nos) - Mould T	0	15-Jul-13 A	14-Nov-13 A	-	Bride	ge F3 - F07 Seg	ment - Remaining (10 nos) - Mould T
0250-1710	Bridge Precast Beam Casting & Delivery Bridge E Pier D1 to P17 (13 nos)	48	14-Dec-13	30-Jan-14	-			
03 - PRELIMIN								
03.3 - Interface W	Vorks							
0330-1200	Agreement of HGHK Interim Temp Carpark	28	20-Jun-13 A	21-Dec-13	_			Agreement
05 - SECTION	2 & 2A OF THE WORKS							
05.1 - Cut & Cov	er Tunnel Ch 4855-4932 (APS Footprint)							
05.1.1 - D-Wall Co	instruction							
0511-1095	Install King Post - EVB Area (20 nos.)	0	23-Aug-13 A	31-Oct-13 A		Install King Post - EVB	Area (20 nos.)	
0511-1091	Install Observation Well - EVB Area (Rem 8 nos.)	9	20-Nov-13	29-Nov-13	-			Install Observation Well - EVB Area (Rem
0511-1100	Pump Test Ch 4855-4932	12	30-Nov-13	13-Dec-13	-			Pump Test Ch 4855-49
05.1.2 - ELS								
0512-1101	Excav Zone 1 EVB Area 1st Layer + Strut	8	04-Nov-13 A	09-Dec-13				Excav Zone 1 EVB Area 1st
0512-1102	Excav Zone 2 EVB Area 2nd Layer + Strut	26	14-Dec-13	15-Jan-14				
0512-1103	Excav Zone 3 EVB Area 3rd Layer + Strut	26	16-Jan-14	18-Feb-14	-			
0512-1120	Excav Zone 4 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	18	11-Dec-13	02-Jan-14	-			
0512-1130	Excav Zone 5 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	25	03-Jan-14	04-Feb-14	-			
0512-1140	Excav Zone 6 EVB Area 1st Layer + Strut + Dem. Bulk Head Wall	29	05-Feb-14	10-Mar-14	-			
05.2 - Cut & Cov	er Tunnel Ch 4932-5149							
05.2.1 - D-Wall Co	Instruction							
0521-1900.30	D-wall Panel N72	0	15-Oct-13 A	30-Oct-13 A		D-wall Panel N72		
0521-2165	Install Dewatering Well - Ch 4932-5149 (10 nos.)	18	20-Nov-13	10-Dec-13	_			Install Dewatering Well - Ch
0521-2166	Install Observation Well - Ch 4932-5149 (6 nos.)	18	20-Nov-13	10-Dec-13	_			Install Observation Well - C
0521-2167	Install Recharging Well - Ch 4932-5149 (2 nos.)	18	20-Nov-13	10-Dec-13				Install Recharging Well - Ch
0521-2168	Install King Posts - Ch 4932-5149 (4 nos.)	0	01-Nov-13 A	15-Nov-13 A	_	Ins	ta <mark>l</mark> King Posts	- Gh 4932-5149 (4 nos.)
0521-2170	Pump Test Ch 4932-5149	6	11-Dec-13	17-Dec-13	-			Pump Test Ch 49
05.2.2 - Barrette Co	Construction							
0522-2211	Complete Dismatling of Bentonite Plants at EVB Area	0	19-Aug-13 A	30-Oct-13 A		Complete Dismatling of E	Sentonite Plants	at EVB Area
05.2.3 - ELS								
0524-2888	Pump Sump - Sheet Piling	6	20-Nov-13	26-Nov-13			P	ump Sump - Sheet Piling
0524-2889	Pump Sump - Excavation & Lateral Support	6	27-Nov-13	03-Dec-13	-		-	Pump Sump - Excavation & Lateral S
<u></u>						1	1	
Remaining Level of Eff				Cont	ract H	IY/2009/19		3MRP

Remaining Level of Effort	Contract HY/2009/19	3MRP
Actual Level of Effort		
Actual Work	Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)	3MRP -
Remaining Work		Deces 2
Critical Remaining Work		Page 2 c
♦ ♦ Milestone		

		14		
_	January	07	Febri	
Pro	30 06 13 20 ocurement/Sub-contractor	27	03	10 17
				Interin
F2F	E1-B			
1 Ca	asting Bridge E Beam E2E1-C			
	Bridge D2 Pier D05 Precasting Se	egment (1	-17) - Mould S	31
				Bridge D
	Bridge D1 Pier D03 Precasting Se	egment (1	-17) - Mould S	32
			1 Pier D04 Pr	
		Blidge D		ecasting Se
			Bridge Precas	st Beam Cas
nt o	f HGHK Interim Temp Carpark			
n 8	nos.)			
493	2			
st L	ayer + Strut			
	Excav Zone	2 EVB A	rea 2nd Layer	+ Strut
		-		
	Excav Zone 4 EVB Area 1st La	ayer + Str	ut + Dem. Bu	lk Head Wal
			Excav	Zone 5 EVB
Ch	4932-5149 (10 nos.)			
Ch	4932-5149 (6 nos.)			
Ch	4932-5149 (2 nos.)			
102	2-5149			
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tivity ID	Activity Name	Rem	Start	Finish		2013	
		Dur		2	Novembe 21 28 04 11	18 25	December 02 09 16 23
0524-2890	Pump Sump - Structure	12	04-Dec-13	17-Dec-13			Pump Sump - St
0524-2925	Tunnel Phase 2 Zone 4 - Excav	0	07-Oct-13 A	02-Nov-13 A	Tunnel Phase 2 Zone 4		
0524-2935	Tunnel Phase 2 Zone 4 - LS + Preload	0	22-Oct-13 A	09-Nov-13 A	Tunnel Phase	e 2 Zone 4 - LS	+ Preload
0524-2945	Tunnel Phase 2 Zone 5 - Excav	3	12-Sep-13 A	22-Nov-13		Tunnel P	hase 2 Zone 5 - Excav
0524-2955	Tunnel Phase 2 Zone 5 - LS + Preload	9	26-Oct-13 A	29-Nov-13			Tunnel Phase 2 Zone 5 - LS + Preload
0524-2980	Tunnel Phase 2 Zone 7 - Excav	9	02-Oct-13 A	06-Dec-13		-	Tunnel Phase 2 Zone 7 - Excav
0524-2963	Tunnel Phase 2 Zone 1 - Remaining LS + Preload	1	30-Sep-13 A	20-Nov-13			se 2 Zone 1 - Remaining LS + Preload
0524-2965	Tunnel Phase 2 Zone 6 - Excav	7	20-Nov-13	28-Nov-13			Funnel Phase 2 Zone 6 - Excav
0524-2975	Tunnel Phase 2 Zone 6 - LS + Preload	9	28-Nov-13	09-Dec-13			Tunnel Phase 2 Zone 6 - LS
0524-2985	Tunnel Phase 2 Zone 8 - Excav	12	09-Dec-13	23-Dec-13			Tunnel P
0524-3000	Tunnel Phase 2 Zone 8 - Lateral Support	10	23-Dec-13	06-Jan-14			
0524-3005	Tunnel Phase 2 Zone 9 - Excav	6	06-Jan-14	13-Jan-14			
05.2.4 - Tunnel S	tructure			-			
0524-3015	Bay 1 Tunnel Vertical Wall	7	10-Dec-13	17-Dec-13			Bay 1 Tunnel Ver
0524-3025	Bay 1 Tunnel False Works	6	18-Dec-13	24-Dec-13			Bay 1
0524-3035	Bay 1 Tunnel OHVD Slab	8	26-Dec-13	04-Jan-14			
0524-3045	Bay 1 Tunnel Roof Slab	12	06-Jan-14	18-Jan-14			
0524-3065	Bay 3 Tunnel Vertical Wall	0	21-Oct-13 A	28-Oct-13 A	Bay 3 Tunnel Vertical Wall		
0524-3075	Bay 3 Tunnel False Works	6	20-Nov-13	26-Nov-13		Bay	3 Tunnel False Works
0524-3085	Bay 3 Tunnel OHVD Slab	8	27-Nov-13	05-Dec-13			Bay 3 Tunnel OHVD Slab
0524-3095	Bay 3 Tunnel Roof Slab	12	06-Dec-13	19-Dec-13			Bay 3 Tunnel I
0524-3155	Bay 6 Tunnel Base Slab	0	22-Oct-13 A	29-Oct-13 A	Bay 6 Tunnel Base Slab		
0524-3165	Bay 6 Tunnel Vertical Wall	7	30-Oct-13 A	27-Nov-13		Ba	ay 6 Tunnel Vertical Wall
0524-3175	Bay 6 Tunnel False Works	6	28-Nov-13	04-Dec-13			Bay 6 Tunnel False Works
0524-3185	Bay 6 Tunnel OHVD Slab	8	05-Dec-13	13-Dec-13			Bay 6 Tunnel OHVD SI
0524-3195	Bay 6 Tunnel Roof Slab	12	14-Dec-13	28-Dec-13			
0524-3305	Tunnel Waterproofing Base Slab Bay 9	6	07-Dec-13	13-Dec-13			Tunnel Waterproofing E
0524-3315	Bay 9 Tunnel Base Slab	7	14-Dec-13	21-Dec-13			Bay 9 Tunn
0524-3325	Bay 9 Tunnel Vertical Wall	7	23-Dec-13	31-Dec-13			
0524-3335	Bay 9 Tunnel False Works	6	02-Jan-14	08-Jan-14			
0524-3345	Bay 9 Tunnel OHVD Slab	8	09-Jan-14	17-Jan-14			
0524-3355	Bay 9 Tunnel Roof Slab	12	18-Jan-14	04-Feb-14			
0524-3115	Bay 2 Tunnel Vertical Wall	7	10-Dec-13	17-Dec-13			Bay 2 Tunnel Ver
0524-3125	Bay 2 Tunnel False Works	6	18-Dec-13	24-Dec-13			Bay 2
0524-3125	Bay 2 Tunnel OHVD Slab	8	26-Dec-13	04-Jan-14			
0524-3135	Bay 2 Tunnel Roof Slab						
	•	12	06-Jan-14	18-Jan-14	Bay 4 Tunnel Ba	se Slah	
0524-3205	Bay 4 Tunnel Base Slab	0	30-Oct-13 A	06-Nov-13 A			ay 4 Tunnel Vertical Wall
0524-3215	Bay 4 Tunnel Vertical Wall	7	20-Nov-13	27-Nov-13			Bay 4 Tunnel False Works
0524-3225	Bay 4 Tunnel False Works	6	28-Nov-13	04-Dec-13		_	Bay 4 Tunnel OHVD SI
0524-3235	Bay 4 Tunnel OHVD Slab	8	05-Dec-13	13-Dec-13			Bay 4 Tunner On VD Si
0524-3245	Bay 4 Tunnel Roof Slab	12	14-Dec-13	28-Dec-13			
0524-3265	Bay 5 Tunnel Vertical Wall	5	07-Nov-13 A	25-Nov-13		вау	5 Tunnel Vertical Wall
0524-3275	Bay 5 Tunnel False Works	6	26-Nov-13	02-Dec-13			Bay 5 Tunnel False Works
0524-3285	Bay 5 Tunnel OHVD Slab	8	03-Dec-13	11-Dec-13			Bay 5 Tunnel OHVD Slab

Remaining Level of Effort Actual Level of Effort	Contract HY/2009/19	3MRP
Actual Work Remaining Work	Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)	3MRP - N
Critical Remaining Work		Page 3 of
Milestone		



ity ID	Activity Name	Rem	Start	Finish				Neversla		013		Description	r
		Dur			21	28	04	Novembe	r 18	25	02	December 09 10	
0524-3295	Bay 5 Tunnel Roof Slab	12	12-Dec-13	26-Dec-13			-						
0524-3375	Bay 7 Tunnel Base Slab	7	14-Dec-13	21-Dec-13	-						1		Bay 7 1
0524-3385	Bay 7 Tunnel Vertical Wall	7	23-Dec-13	31-Dec-13	-						1		
0524-3395	Bay 7 Tunnel False Works	6	02-Jan-14	08-Jan-14					-		1 1 1		
0524-3405	Bay 7 Tunnel OHVD Slab	8	09-Jan-14	17-Jan-14									
0524-3415	Bay 7 Tunnel Roof Slab	12	18-Jan-14	04-Feb-14									
0524-3425	Bay 8 Tunnel Base Slab	7	23-Dec-13	31-Dec-13							1		
0524-3435	Bay 8 Tunnel Vertical Wall	7	02-Jan-14	09-Jan-14	-						1		
0524-3445	Bay 8 Tunnel False Works	6	10-Jan-14	16-Jan-14							· · · · · · · · · · · · · · · · · · ·		
0524-3455	Bay 8 Tunnel OHVD Slab	8	17-Jan-14	25-Jan-14	-						1		
0524-3465	Bay 8 Tunnel Roof Slab	12	27-Jan-14	12-Feb-14							 		
0524-3485	Bay 10 Tunnel Base Slab	7	15-Jan-14	23-Jan-14									
0524-3495	Bay 10 Tunnel Vertical Wall	7	23-Jan-14	04-Feb-14									
0524-3505	Bay 10 Tunnel False Works	6	04-Feb-14	11-Feb-14									
0524-3515	Bay 10 Tunnel OHVD Slab	8	11-Feb-14	20-Feb-14	-						1		
0524-3535	Bay 11 Tunnel Base Slab	7	23-Jan-14	04-Feb-14	-						1		
0524-3545	Bay 11 Tunnel Vertical Wall	7	04-Feb-14	12-Feb-14	-						1 U U		
0524-3555	Bay 11 Tunnel False Works	6	12-Feb-14	19-Feb-14							1		
0524-3585	Bay 12 Tunnel Base Slab	7	15-Jan-14	23-Jan-14									
0524-3595	Bay 12 Tunnel Vertical Wall	7	23-Jan-14	04-Feb-14	_								
0524-3605	Bay 12 Tunnel False Works	6	04-Feb-14	11-Feb-14	_								
0524-3615	Bay 12 Tunnel OHVD Slab	8	11-Feb-14	20-Feb-14	-								
0524-3635	Bay 13 Tunnel Base Slab	7	23-Jan-14	04-Feb-14	-								
0524-3645	Bay 13 Tunnel Vertical Wall	7	04-Feb-14	12-Feb-14					-				
0524-3655	Bay 13 Tunnel False Works	6	12-Feb-14	19-Feb-14	-								
0524-3365	Waterproof Top Slab Bay 1 to Bay 4	7	20-Jan-14	27-Jan-14	-								
0524-3475	Waterproof Top Slab Bay 5 to Bay 9	12	13-Feb-14	26-Feb-14	-								
0524-2580	Tunnel Base Slab N65-N73 - Concrete	18	04-Feb-14*	24-Feb-14	-								
0524-2660	Tunnel Base Slab N74-N87 - Prepare CJ and form keys into D-wall	18	04-Feb-14	24-Feb-14					-				
0524-2670	Tunnel Base Slab N74-N87 - Waterproofing Membrane	18	11-Feb-14	03-Mar-14	-								
0524-2590	Tunnel Wall N65-N73 - Rebar Fixing	18	18-Feb-14	10-Mar-14							1		
0524-2680	Tunnel Base Slab N74-N87 - Rebar Fixing	18	18-Feb-14	10-Mar-14							1		
	Miscellaneous Works		1010011	To Mai TT							1		
0525-2882	Backfill above Tunnel Structure Bay 1 to Bay 4	7	28-Jan-14	07-Feb-14							÷		
05.3 - Box Culv					_								
0530-3086	Bay 1 - Instal Temporary Diversion Steel Pipe	0	07-Oct-13 A	30-Oct-13 A		Bay	1 - Instal	Temporary I	Diversion :	Steel F	ipe		
0530-3408	Bay 1 - Demolish Existing Culvert	9	31-Oct-13 A	29-Nov-13	_						Bay 1 - Dem	olish Existing	Culvert
0530-3079	Bay 1 - Base Slab	18	30-Nov-13	20-Dec-13	-						-	-	Bay 1 -
0530-3081	Bay 1 - Wall & Roof	18	21-Dec-13	13-Jan-14							÷		
	3 OF THE WORKS			10 041111									
06.1 - Westbou													
0610-2120	Pier 29-1 Bored Pile	0	19-Sep-13 A	11-Nov-13 A				Pier 29-1 I	Bored Pile	•			
0610-2120	Pier 29-2 Bored Pile	30	13-Nov-13 A	24-Dec-13	_								Pi
0610-2122	Pier 29-3 Bored Pile	30	26-Dec-13	30-Jan-14	+								
0010-2124		50	20-060-13	50-5all-14					1		1		_

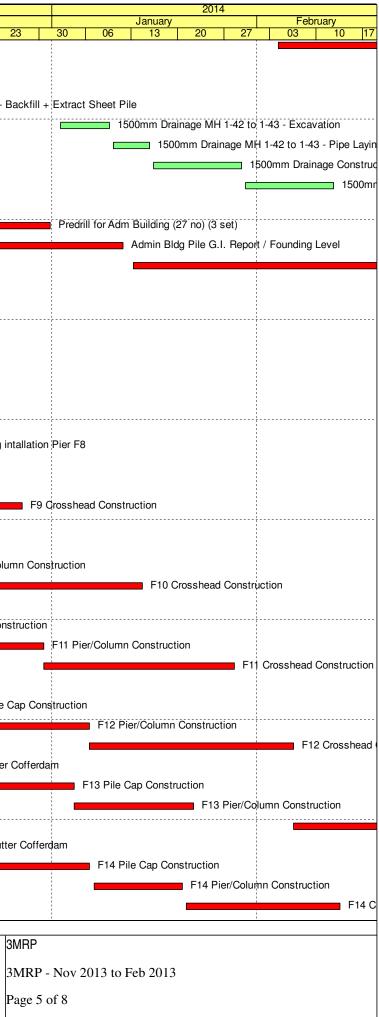
Remaining Level of Effort	Contract HY/2009/19	3MRP
Actual Level of Effort		
Actual Work	Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)	3MRP -
Remaining Work		Page 4 o
Critical Remaining Work		i age 4 v
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vity ID	Activity Name	Rem	Start	Finish			2013
		Dur			21 2	November 8 04 11	r December 18 25 02 09 16 23
0610-2126	Pier 29-4 Bored Pile	30	04-Feb-14	10-Mar-14			
06.2 - Box Culv	vert U1						
0620-2600	1500mm Drainage Construct MH 1-43	0	02-Oct-13 A	23-Oct-13 A	1500mm	Drainage Construct MH 1-4	13
0620-2610	1500mm Drainage MH 1-43 to 1-59A - Backfill + Extract Sheet Pile	6	02-Oct-13 A	26-Nov-13			1500mm Drainage MH 1-43 to 1-59A - Bao
0620-2630	1500mm Drainage MH 1-42 to 1-43 - Excavation	7	02-Jan-14	09-Jan-14			
0620-2640	1500mm Drainage MH 1-42 to 1-43 - Pipe Laying	5	10-Jan-14	15-Jan-14	_		
0620-2650	1500mm Drainage Construct MH 1-42	12	16-Jan-14	29-Jan-14	_		
0620-2660	1500mm Drainage MH 1-42 to 1-43 - Backfill + Extract Sheet Pile	9	30-Jan-14	12-Feb-14	_		
06.3 - Admin B	uilding						
0630-3100	Predrill for Adm Building (27 no) (3 set)	35	31-Oct-13 A	31-Dec-13	1	······	
0630-3105	Admin Bldg Pile G.I. Report / Founding Level	18	20-Dec-13	11-Jan-14			
0630-3110	Pre-bored H-pile for Adm bldg (55 no) (3 set)	130	13-Jan-14	21-Jun-14			
10 - SECTION	N X OF THE WORKS						
10.1 - E/B Bridg	ges (Bridge D, E and F)						
10.1.1 - Marine F	Pier Construction						
Pier F03 to F15				_			
1011-2235	Bearing intallation Pier F5	0	14-Oct-13 A	31-Oct-13 A		Bearing intallation Pier F5	5
1011-2261	Bearing intallation Pier F6	0	22-Oct-13 A	04-Nov-13 A		Bearing intallation I	P <mark>i</mark> er F6
1011-2291	Bearing intallation Pier F7	6	29-Oct-13 A	26-Nov-13			Bearing intallation Pier F7
1011-2320	F8 Crosshead Construction	6	21-Oct-13 A	26-Nov-13			F8 Crosshead Construction
1011-2345	Bearing intallation Pier F8	12	04-Dec-13	17-Dec-13	_		Bearing inta
1011-3115	F9 Pile Cap Construction	0	26-Sep-13 A	26-Oct-13 A	F 9 P	le Cap Construction	
1011-2390	F9 Pier/Column Construction	8	28-Oct-13 A	28-Nov-13			F9 Pier/Column Construction
1011-2400	F9 Crosshead Construction	24	28-Nov-13	27-Dec-13	-		
1011-2410	F10 Pile Cap Shutter Cofferdam	0	16-Sep-13 A	26-Oct-13 A	F10 I	lie Cap Shutter Cofferdam	1
1011-3125	F10 Pile Cap Construction	7	28-Oct-13 A	27-Nov-13			F10 Pile Cap Construction
1011-2420	F10 Pier/Column Construction	15	28-Nov-13	14-Dec-13	-		F10 Pier/Column
1011-2430	F10 Crosshead Construction	24	16-Dec-13	14-Jan-14			
1011-2350	F11 Pile Cap Shutter Cofferdam	0	30-Sep-13 A	02-Nov-13 A		F11 Pile Cap Shutter (Cofferdam
1011-3135	F11 Pile Cap Construction	19	04-Nov-13 A	11-Dec-13			F11 Pile Cap Constru
1011-2360	F11 Pier/Column Construction	15	11-Dec-13	30-Dec-13	_		
1011-2370	F11 Crosshead Construction	24	30-Dec-13	28-Jan-14	_		
1011-2440	F12 Pile Cap Shutter Cofferdam	3	21-Oct-13 A	22-Nov-13			F12 Pile Cap Shutter Cofferdam
1011-3145	F12 Pile Cap Construction	21	22-Nov-13	17-Dec-13	-		F12 Pile Ca
1011-2450	F12 Pier/Column Construction	15	17-Dec-13	06-Jan-14			
1011-2460	F12 Crosshead Construction	24	06-Jan-14	06-Feb-14	_		
1011-2470	F13 Pile Cap Shutter Cofferdam	16	04-Nov-13 A	09-Dec-13			F13 Pile Cap Shutter Co
1011-3155	F13 Pile Cap Construction	21	09-Dec-13	04-Jan-14			
1011-2480	F13 Pier/Column Construction	15	04-Jan-14	22-Jan-14			
1011-2490	F13 Crosshead Construction	18	06-Feb-14	27-Feb-14			
1011-2490	F14 Pile Cap Shutter Cofferdam	18	20-Nov-13*	10-Dec-13	_		F14 Pile Cap Shutter
1011-2300	F14 Pile Cap Construction	21	11-Dec-13*	06-Jan-14	_		
1011-2510	F14 Pier/Column Construction		07-Jan-14		_		
		12		20-Jan-14			
1011-2520	F14 Crosshead Construction	18	21-Jan-14	13-Feb-14		1	
Remaining Lev	el of Effort			^		//2000/10	ЗМ
Actual Level of				Cont	raci m	//2009/19	510

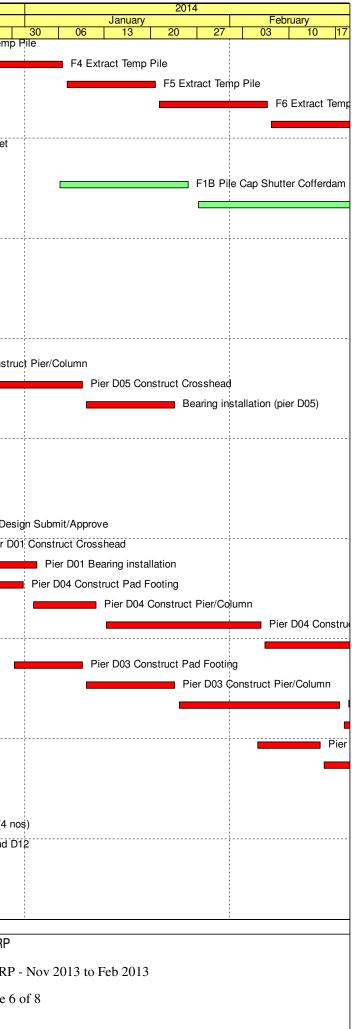
	Actual Work
	Remaining Work

- Critical Remaining Work
- Milestone



vity ID	Activity Name	Rem	Start	Finish		2013
		Dur			Novembe 21 28 04 11	r December 18 25 02 09 16 23
1011-2975	F3 Extract Temp Pile	15	30-Nov-13	17-Dec-13		F3 Extract Temp
1011-2985	F4 Extract Temp Pile	15	18-Dec-13	06-Jan-14		
1011-3105	F5 Extract Temp Pile	12	07-Jan-14	20-Jan-14		
1011-2265	F6 Extract Temp Pile	12	21-Jan-14	06-Feb-14		
1011-2025	F7 Extract Temp Pile	12	07-Feb-14	20-Feb-14		
1011-3095	Existing IEC Bridge F8-F14 - Demolish Existing Parapet	0	08-Oct-13 A	19-Nov-13 A		Existing IEC Bridge F8-F14 - Demolish Existing Parapet
Pier F01 to F02) 			
1011-2890	F1B Pile Cap Shutter Cofferdam	18	06-Jan-14*	25-Jan-14		
1011-2895	F1B Pile Cap Construction	18	27-Jan-14	19-Feb-14		
1011-2963	Extract Temp Pile F2	9	30-Sep-13 A	29-Nov-13		Extract Temp Pile F2
10.1.2 - Land Pier	Construction					
Pier D05 to D07						
1012-1500	Pier D05 Excavation and Lateral Support	0	21-Oct-13 A	09-Nov-13 A	Pier D05 Ex	avation and Lateral Support
1012-1590	Pier D05 - Modify Tunnel Lateral Support	0	21-Oct-13 A	09-Nov-13 A	Pier D05 - N	odify Tunnel Lateral Support
1012-1600	Pier D05 - Break D-wall / Pile head	6	11-Nov-13 A	26-Nov-13		Pier D05 - Break D-wall / Pile head
1012-1610	Pier D05 - Pile Cap	9	27-Nov-13	06-Dec-13		Pier D05 - Pile Cap
1012-1620	Pier D05 Construct Pier/Column	9	07-Dec-13	17-Dec-13		Pier D05 Constru
1012-1630	Pier D05 Construct Crosshead	18	18-Dec-13	09-Jan-14		
1012-1640	Bearing installation (pier D05)	12	10-Jan-14	23-Jan-14		
1012-1365	Pier D07 Bearing Installation	0	31-Oct-13 A	13-Nov-13 A	Pier D	07 Bearing Installation
1012-1320	Pier D06 Construct Pier/Column	0	11-Oct-13 A	28-Oct-13 A	Pier D06 Construct Pier/Colun	1 1
1012-1330	Pier D06 Construct Crosshead	0	04-Nov-13 A	16-Nov-13 A	Pie	r D06 Construct Crosshead
1012-1370	Pier D06 Bearing Installation	4	18-Nov-13 A	23-Nov-13		Pier D06 Bearing Installation
Pier D01 to D04				231107 13		
1012-1395	Pier D01 Crosshead Temp Work Design Submit/Approve	12	21-Oct-13 A	03-Dec-13		Pier D01 Crosshead Temp Work Des
						Pier DC
1012-1400	Pier D01 Construct Crosshead	18	04-Dec-13	24-Dec-13		
1012-1570	Pier D01 Bearing installation	6	26-Dec-13	02-Jan-14		
1012-1470	Pier D04 Construct Pad Footing	9	20-Dec-13	31-Dec-13		
1012-1480	Pier D04 Construct Pier/Column	9	02-Jan-14	11-Jan-14		
1012-1490	Pier D04 Construct Crosshead	18	13-Jan-14	05-Feb-14		
1012-1540	Bearing installation (pier D04)	12	06-Feb-14	19-Feb-14		
1012-1440	Pier D03 Construct Pad Footing	9	30-Dec-13	09-Jan-14		•
1012-1450	Pier D03 Construct Pier/Column	12	10-Jan-14	23-Jan-14		
1012-1460	Pier D03 Construct Crosshead	18	24-Jan-14	17-Feb-14		
1012-1550	Bearing installation (pier D03)	6	18-Feb-14	24-Feb-14		
1012-1410	Pier D02 Construct Pad Footing	9	05-Feb-14	14-Feb-14		
1012-1420	Pier D02 Construct Pier/Column	12	15-Feb-14	28-Feb-14		
10.1.3 - E/B Bridge	e Construction					
Bridge D3						
1013-1080	Bridge D3 Segment Launching from Abutment D12 (4 nos)	1	18-Nov-13 A	20-Nov-13		Bridge D3 Segment Launching from Abutment D12 (4 no
1013-1120	Bridge D3 Stitching at midspan between D11 and D12	3	21-Nov-13	23-Nov-13		Bridge D3 Stitching at midspan between D11 and D
1013-1130	Bridge D3 Permanent Stressing	6	25-Nov-13	30-Nov-13		Bridge D3 Permanent Stressing
Bridge F1A						
1013-1155	Bridge F1A Pier Segments at D12+F1A+F2A	0	10-Oct-13 A	08-Nov-13 A	Bridge F1A Pi	er Segments at D12+F1A+F2A

Remaining Level of Effort	Contract HY/2009/19	3MRP
Actual Level of Effort		
Actual Work	Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)	3MRP -
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Critical Remaining Work		Page 6 of
♦ ♦ Milestone		



Activity ID	Activity Name	Rem	Start	Finish		November	2013	December
		Dur			21 28	04 11	18 25 02 09) 16 23
1013-1160	Bridge F1A Segment Launching from Abutment D12 (4 nos)	0	05-Nov-13 A	07-Nov-13 A			ment Launching from Abutment D	. ,
1013-1170	Bridge F1A Segment Launching from Pier F1A (12 nos)	0	24-Oct-13 A	04-Nov-13 A			t Launching from Pier F1A (12 nos	
1013-1200	Bridge F1A Stitching at midspan between D12 and F1A	0	07-Nov-13 A	09-Nov-13 A		Bridge F1A S	titching at midspan between D12	
1013-1180	Bridge F1A Segment Launching from Pier F2A (11 nos)	6	25-Nov-13	30-Nov-13				ment Launching from Pi
1013-1190	Bridge F1A Segment Launching from Pier F3 (6 nos)	5	02-Dec-13	06-Dec-13			Bridge	F1A Segment Launching
1013-1210	Bridge F1A Stitching at midspan between F1A and F2A	3	02-Dec-13	04-Dec-13				A Stitching at midspan b
1013-1220	Bridge F1A Stitching at midspan between F2A and F3	3	07-Dec-13	10-Dec-13			B	ridge F1A Stitching at m
1013-1230	Bridge F1A Permanent Stressing	4	11-Dec-13	14-Dec-13			-	Bridge F1A Perman
1013-1240	Bridge F1A Construct Parapet (111/6m - 4sets @ 2d)	28	04-Feb-14*	07-Mar-14				
Bridge F2A								
1013-1270	Bridge F2A Segment Launching from Pier F4 (13 nos)	8	07-Dec-13	16-Dec-13				Bridge F2A Segr
1013-1260	Bridge F2A Segment Launching from Pier F3 (5 nos)	3	17-Dec-13	19-Dec-13				Bridge F2A S
1013-1280	Bridge F2A Segment Launching from Pier F5 (6 nos)	7	20-Dec-13	28-Dec-13	-			
1013-1330	Bridge F2A Stitching at midspan between F3 and F4	3	20-Dec-13	23-Dec-13	_			Bridge
1013-1340	Bridge F2A Stitching at midspan between F4 and F5	3	30-Dec-13	02-Jan-14				
1013-1350	Bridge F2A Permanent Stressing	6	03-Jan-14	09-Jan-14	-			
Bridge D2								
1013-1480	Bridge D2 Segment Launching by Crane Pier D06 T-span (17 nos)	21	02-Dec-13	26-Dec-13				Br
1013-1490	Bridge D2 Segment Launching by Crane Pier D07 T-span (17 nos)	18	27-Dec-13	17-Jan-14	-			_
1013-1470	Bridge D2 Segment Launching by Crane Pier D08 End-span (8 nos)	9	18-Jan-14	28-Jan-14	-			
1013-1520	Bridge D2 Stitching at midspan between D06-D07	3	18-Jan-14	21-Jan-14	_			
1013-1530	Bridge D2 Stitching at midspan between D07-D08	3	29-Jan-14	04-Feb-14				
1013-1500	Bridge D2 Segment Launching by Crane Pier D05 T-span (17 nos)	18	08-Feb-14	28-Feb-14	_			
All E/B Bridges (18	00-1 60-14	20-1 60-14				
1013-1770	Procurement of Parapet Sub-contractor	30	21-Oct-13 A	24-Dec-13				Procu
1013-1780	Parapet Temp. Work Design + ICE	24	27-Nov-13	24-Dec-13	_			Para
1013-1790	Parapet Temp. Work Design ER No Adverse Comment	18	26-Dec-13	16-Jan-14				
1013-1800	Parapet Temp. Work Fabrication	30	26-Dec-13	30-Jan-14	-			
	/ Hing Fat Slip Road		20 200 10					
Pier Constructio								
1014-1087	Pier E2 Crosshead	0	03-Sep-13 A	24-Oct-13 A	Pier E2 C	rosshead		
1014-1240	Pier E1b-1 Bored Pile	0	18-Oct-13 A	16-Nov-13 A		Pie	r F1b-1 Bored Pile	
1014-1020	Pier E1b Bored Pile Testing	11	18-Nov-13 A	02-Dec-13	_			ed Pile Testing
1014-1020	Pier E1b Construct Cap & Pier	11	03-Dec-13	23-Dec-13	_	_		Pier E
	Pier E1b Construct Cap & Pier				_			
1014-1040	Pier E1b Construct Pier/Column Pier E1b Construct Crosshead	12	24-Dec-13	08-Jan-14	_			
1014-1050		18	09-Jan-14	29-Jan-14				
10.5 - Temporary								
10.5.1 - Temporar			1			Tomporer Dridge TA1	ridge Steel Erome Structure	
1051-1016	Temporary Bridge TA1 - Bridge Steel Frame Structure	0	02-Sep-13 A	31-Oct-13 A	_	Temporary Bhuge TAT - E	Bridge Steel Frame Structure	Drides Deckies Tie
1051-1017	Temporary Bridge TA1 - Bridge Decking + Tie-in to Existiing HFSR	6	23-Sep-13 A	26-Nov-13				- Bridge Decking + Tie
1051-1018	Temporary Bridge TA1 - Parapet	14	20-Nov-13	05-Dec-13			Tempora	ry Bridge TA1 - Parapet
10.6 - Tunnel Ap								
	h Ramp (Excluding Portion IIB)							
Bored Piles								
Remaining Level	al of Effort			^	root LIV	/2009/19		3MRP
Actual Level of E				Cont		2005/15		
Actual Work		Three M	Ionth Rol	ling Prog	ramme	(20 Nov 2013	to 19 Feb 2013)	3MR
Remaining Work								Page
Unical Remainin								

				2014				
_			January				ruary	1
	30	06	13	20	27	03	10	17
ier I	F2A (11	nos)						
		,						
g iro	pm Pier	F3 (6 nos	5)					
oetv	veen F1	A and F2/	4					
hids	pan bet	ween F2A	and F3					
	Stressi							
ent	0116551	ng						
nen	t Launc	hina from	Pier F4 (1	3 nos)				
Seg	ment La	aunching t	rom Pier F	-3 (5 nos)				
Bri	dge F2A	A Segmen	t Launchin	g from Pie	er F5 (6	nos)		
F2	A Stitch	ing at mic	lspan betw	veen F3 ar	nd F4			
_	- Brid	- 100 E24 S	Stitching at	midenan	hotwoo	n E4 and E5		
						n F4 and F5		
		Bri	dge F2A P	ermanent	Stressi	ng		
ida	D2 Se	ament I a	unchina h	Crane Pi	er D06	T-span (17 n	os)	
lugi	02 00	ginent La						
			В	ridge D2 S	Segmen	t Launching	by Crane	Pier
					📕 Brio	dge D2 Segn	nent Lau	nchir
				🗖 Bridae	D2 Sti	tching at mid	dspan be	twee
						•	•	
						Bridge	e D2 Stit	cning
	a ant of	Devenet C	who and the	ator				
urer	nent of	Parapet S	Sub-contrac	Ctor				
bet	Temp. V	Vork Desi	gn + ICE					
			Pa	rapet Tem	o. Work	Design ER	No Adve	rse (
				· ·	1	Parapet Tem		
						arapet terri	p. vv on	
1b (Construc	ct Cap & I	Pier					
			E1b Cons	truct Dior/	Column			
		Fiel			į			
					Pi	er E1b Cons	truct Cro	sshe
-in	to Existi	iing HFSF	3					
P -	Nov 2	013 to F	Feb 2013					
-	60							
/ 0	of 8							

Activity ID	Activity Name	Rem Start	Finish	2013	2014
		Dur		November December	January February
				21 28 04 11 18 25 02 09 16 23	30 06 13 20 27 03 10 1
1061-1580	Bored Pile Ramp - BN07	9 25-Oct-13 A	29-Nov-13	Bored Pile Ramp - BN07	
1061-1661	Bored Pile Ramp - BM40	12 03-Oct-13 A	03-Dec-13	Bored Pile Ramp - BM40	
1061-1670	Remaining Pre-drilling for Approach Ramp Bored Piles	42 19-Jul-13 A	09-Jan-14		Remaining Pre-drilling for Approach Ramp Bored Piles
1061-1680	Bored Pile Ramp - BM42	18 04-Dec-13	24-Dec-13	Bore	d Pile Ramp - BM42
1061-1690	Bored Pile Ramp - BM39	18 26-Dec-13	16-Jan-14		Bored Pile Ramp - BM39
1061-1700	Bored Pile Ramp - BM43	18 17-Jan-14	10-Feb-14		Bored P
1061-1710	Bored Pile Ramp - BM40	18 11-Feb-14	03-Mar-14		

	Remaining Level of Effort
	Actual Level of Effort
	Actual Work
	Remaining Work
	Critical Remaining Work
◆	Milestone

Contract HY/2009/19

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Three Month Rolling Programme (20 Nov 2013 to 19 Feb 2013)



LEADER 中國建築-利達聯營

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II

	Activity Name	Orig Dur Early Star	rt Early Finish		2012																								
_				D J F M A	A M J Jul	ASC	D N D	JFM	20 A M J	Jul A	S O N	D J F	MAN	2015 M J Jul	A S O	ND.	JFM		2016 J Jul A	SON	1 D J	FM		017 Jul A	SON	1 D J	F M A	2018 M J J	ul A
Dredging and	Reviewed Works Programme - (Conforming) - Rev.0/1 23 Aug 2	013																											
	Reclamation																												
Marine Work	Construction																												
Area C - Demo	lish Expo Drive West Bridge																												
MAR12840	Area C - Expo Drive - saw cut and remove (Bay 3)	5 11-Aug-13	3 A 24-Aug-13			D																							
MAR13220	Area C - Expo Drive - saw cut and remove (Bay 4)	5 13-Aug-13	3 A 24-Aug-13			ø																							
MAR13240	Area C - Expo Drive - saw cut and remove (Bay 5)	5 26-Aug-1	13 30-Aug-13			0																							
MAR13260	Area C - Expo Drive - saw cut and remove (Bay 6)	5 31-Aug-1	13 05-Sep-13			Q																							
MAR13280	Area C - Expo Drive - saw cut and remove (Bay 7)	5 06-Sep-1	13 11-Sep-13			D																							
MAR13440	Area C - Expo Drive - saw cut and remove (Bay 8)	5 12-Sep-1	13 17-Sep-13			0																							
MAR13480	Area C - Expo Drive - saw cut and remove (Bay 9)	5 18-Sep-1				0																							
MAR13500	Area C - Expo Drive - saw cut and remove (Bay 10)	5 25-Sep-1				d																							
MAR13520	Area C - Expo Drive - saw cut and remove ((Bay 11)	5 02-Oct-1				л																							
	Alea C - Expo Drive - Saw cut and remove ((bay 11)	5 02-001-1	13 07-001-13																										
Dredging																													
Dredging - Zo																		ļ											
MAR11340	Zone C - Dredging [R6, R7] (25m control zone / temp seawall)	3 30-Aug-1				U																							
MAR11350	Zone C - Dredging [R3-R5] (25m control zone)	4 03-Sep-1	13 06-Sep-13			D																							
MAR11360	Zone C - remove existing rock armour [S7-S8] (temp seawall)	7 07-Sep-1	13 14-Sep-13			۵																							
MAR11380	Zone C - Final Hydrographic Survey (temp seawall)	3 16-Sep-1	13 18-Sep-13			1																							
MAR11410	Zone C - Dredging [S3-S6, T4-T5]	13 16-Sep-1	13 02-Oct-13																										
MAR11460	Zone C - remove exiisting rock armour [T6-T7, U6-U7] (bridge area)	7 08-Oct-1	13 16-Oct-13			۵																							
MAR11480	Zone C - Dredging [U4-U7] (bridge area)	3 17-Oct-1	13 19-Oct-13			I	I																						
MAR11500	Zone C - Dredging [T4-T7] (bridge area)	6 21-Oct-1	13 26-Oct-13				0																						
MAR11580	Zone C - Final Hydrographic Sruvey (bridge area)	4 28-Oct-1	13 31-Oct-13				0																						
Dredging - Zo	ne B																												
MAR10900	Zone B - dredging [Q6-Q8] (25m control zone / seawall)	4 30-Aug-1	13 03-Sep-13																										
MAR10910	Zone B - dredging [Q2-Q5] (25m control zone)	4 04-Sep-1				0																							
MAR10920	Zone B - dredging [P6-P8] (seawall)	6 09-Sep-1				D																							
MAR12100	Zone B - dredging [P2-P5]	6 28-Oct-1	· ·																										
							•																						
MAR12140	Zone B - Final Hydrographic Sruvey	7 04-Nov-1	13 11-Nov-13																										
Dredging - Zo																													
MAR10120	Zone A2 - Complete discommissioning of Submarine Sewage Outfall (conforming by others)	0	20-Aug-13			I																							
MAR10140	Zone A2 - Complete discommissioning of Cross Harbour Watermains (conforming by others)	0	20-Aug-13																										
MAR10160	Zone A2 - dredging [L6-L8, M6-M8] (seawall)	11 16-Sep-1	13 28-Sep-13																										
MAR10200	Zone A2 - dredging [M1-M5]	11 04-Nov-1	13 15-Nov-13																										
MAR12440	Zone A2 - dredging [L0-L5]	5 16-Nov-1	13 21-Nov-13				0																						
MAR12460	Zone A2 - abandon / remove existing submarine sewage outfall [L2-L5]	52 30-Sep-1	13 30-Nov-13			-																							
Among I						- · ·											· ·		1	Date			Revisi	on I	Ch	ecked		Approve	
Data Date:	Current Milestone											_	_						29-Aug			Rev			011				
20-Aug-13	Actual Work Critical Remaining Work Remaining Work Remaining Level of Effort		3 N	lonths	Rollin	ng P	rogr	ramn	ne f	or A	Area	Outs	side	e Zoi	ne C	RIII													



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	Network CHINA STATE - LEADER JOINT VENTU			CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West								Page : 2 / 2																				
D	Activity Name	Orig Dur	Early Start	Early Finish			2013				:	2014				2	2015					2016					2017				2018	
MAR12480	Zone A2 - abandon / remove cross harbour watermains [M2-M8]	52	30-Sep-13	30-Nov-13	DJF		M J Jul	ASC		JFM	A M .	J Jul A	so	N D J	JFM	AMJ	I Jul A	SO	N D	JFM	AM	J Jul /	s o	N D	JFM	AM	J Jul A	A S O	N D	JFM	AM,	J Jul
MAR12500	Zone A2 - Final Hydrographic Sruvey	7	22-Nov-13	29-Nov-13					œ																							
Dredging - Z	ne A1																															
MAR10240	Zone A1 - dredging [J4-J7, K5-K7] (seawall)	22	30-Sep-13	26-Oct-13				-	•																							
MAR12520	Zone A1 - dredging [J1-J3, K0-K4]	11	22-Nov-13	04-Dec-13	-																											
Dredging - Z																																
MAR11880	Zone D - Remove existing rock armour [S8-S10]	22	28-Oct-13	21-Nov-13																												
MAR11900	Zone D - dredging [R8-R10]	5	22-Nov-13	27-Nov-13	-				D																							
Seawall Cons																																
Seawall Con	truction - Zone C																															
MAR11560	Zone C - temp. seawall - fill rubble mound to -4.0mPD	14	19-Sep-13	07-Oct-13																												
MAR11570	Zone C - temp. seawall - place temp concrete block to +4.0mPD	10		19-Oct-13	_																											
MAR11600	Zone C - C4 unit - Grade 75 rockfill along C4 unit		21-Oct-13	12-Nov-13																												
MAR11620	Zone C - WDII Box 1 temp SW - place rock mound		13-Nov-13	23-Nov-13																												
MAR11660	Zone C - WDII Box 1 temp SW - place concrete block			03-Dec-13																												
	truction - Zone B	8	20 100-13	00-000-10																												
MAR10980	Zone B - seawall - fill rubble mound for seawall	19	19-Sep-13	11-Oct-13																												
MAR10980	Zone B - seawall - init fublic filourid for seawall Zone B - seawall - install block seawall type 7	7		21-Oct-13																												
MAR11040	Zone B - C4 unit - Grade 75 rockfill along C4 unit		21-Oct-13	12-Nov-13	_																											
MAR11060	Zone B - WDII Box 1 temp SW - place rock mound	6	13-Nov-13	19-Nov-13					n																							
MAR11080	Zone B - WDII Box 1 temp SW - place concrete block	8		28-Nov-13	_																											
MAR11200	Zone B - seawall - install block seawall type 5		01-Nov-13																													
MAR11210	Zone B - seawall - install caisson seawall no. 2N	3	29-Oct-13	31-Oct-13																												
	truction - Zone A2							_																								
MAR10720	Zone A2 - seawall - fill rubble mound for seawall		12-Oct-13	07-Nov-13																												
MAR10740	Zone A2 - seawall - install Caisson Seawall no. 2L	4	01-Nov-13	05-Nov-13					J																							
	truction - Zone A1																															
MAR10290	Zone A1 - seawall - fill rubble mound for seawall	18	05-Nov-13	25-Nov-13																												
Filling																																
Filling - Zone	c																															
MAR11700	Zone C - public fill [T4-T7, U4-U7] - (bridge area)	28	01-Nov-13	03-Dec-13																												
lorks for Se	ction Completion																															
Construction																																
Box Culvert L	, L1 & FRP-L Construction																															
Sec VI A - Bo	x Culvert La bay 1-3 and Roadwork																															
CUL10140	Sec VI A - Area 1 - relocation of kiosks	10	28-Aug-13	07-Sep-13				Þ																								
CUL10160	Sec VI A - Area 1 - Culvert L bay 1-3 - road offset and TTA	30	06-Sep-13	12-Oct-13				-																								
CUL10440	Sec VI A - Area 1 - Culvert L bay 1-3 - Sheet pile installation	20	15-Oct-13	06-Nov-13				ſ																								
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	36	07-Nov-13	18-Dec-13																												

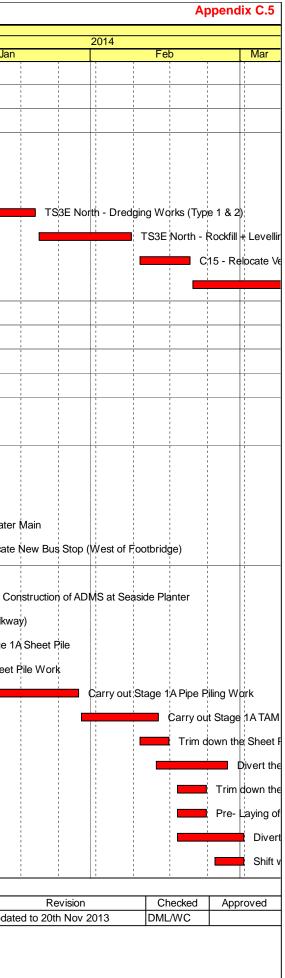
Page : 2 / 2

ity ID	Activity Name	Original Duration	Start	Finish					2013					
						No	DV		2013	Dec				
IY/2010/08: C	WB-SR8 Three Months Rolling Programme_updated up to	201311	20											
Vorks in TS3							-				i i i			
	t Reclamation Works													
TS3E - Reclama	ation (Advance Works)													
TS3E.MW.1010	Commence Advance Marine Works	0	04-Nov-13 A		Com	mence	Ådva	nce Marin	Works					
TS3E.MW.1020	TS3E North - Dredging Works (Type 3)	18	04-Nov-13 A	23-Nov-13			1	TS3I	North -	Dredging Worl	s (Type 3	3)		
TS3E.MW.1025	TS3E North - Dredging Works (Type 1 & 2)	41	02-Dec-13	21-Jan-14										
TS3E.MW.1030	TS3E North - Rockfill + Levelling Works	13	22-Jan-14	08-Feb-14										
TS3E.MW.1050	C15 - Relocate Vessels	9	10-Feb-14	19-Feb-14										
TS3E.MW.1060	C15 - Dredging at Temporary Mooring Area	18	20-Feb-14	12-Mar-14										
orks in SR8	(Open Cut Method)													
R8 - Cofferdam	a & Cut & Cover Tunnel Works													
SR8 East Bound	d - (Seaside to Victoria Road / IEC Central Divider)													
TTA Stage 0 - Ea	ast Bound													
Stage 0A - East	t Bound (Seaside) (Ref. DRG. No.CDD/SR8/081)													
SR8.EB.0150	Ground Pre-treatment works at Seawall Part 1	12	31-Oct-13 A	13-Nov-13 A			Grour	nd Pre-trea	itment wo	orks at Seawall	Part 1			
Stage 0B - East	t Bound (Seaside) (Ref. DRG. No. CDD/SR8/081)]	<u> </u>					 						
SR8.EB.0210	Implement TTM (DRG REF. 4843/012/030)	0	14-Nov-13 A			٠	Imple	ment TTN	(DRG R	EF. 4843/012/0)30)			
SR8.EB.0220	Ground Pre-Treatment works at Seawall Part 2	6	14-Nov-13 A	20-Nov-13				Ground	Pre-Trea	atment works at	Seawall	Part 2	2	
SR8.EB.0230	Construct Proposed Walkway and Install Pipe for Water Main	12	16-Nov-13 A	29-Nov-13					Constr	uct Proposed V	/alkway a	and In	stall Pipe	for W
SR8.EB.0240	Demolish Island / Construct & Relocate New Bus Stop (West of Footbridge)	24	16-Nov-13 A	13-Dec-13						Demo	olish Islan	d / Cc	nstruct {	k Reloc
Stage 1A - East	t Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)													
SR8.EB.1140	Construction of ADMS at Seaside Planter	44	24-Oct-13 A	13-Jan-14										
SR8.EB.1010	Implement TTM (Divert Pedestrian to Proposed Walkway)	0		29-Nov-13	-					nent TTM (Dive	rt Pedest	irian to) Propos	ed Wa
SR8.EB.1020	Carry out Pre-Boring Work for Stage 1A Sheet Pile	12	30-Nov-13	13-Dec-13	-					Carry	out Pre-	Borinç) Work f	; ⊳r \$tag
SR8.EB.1030	Carry out Stage 1A Sheet Pile Work	15	07-Dec-13	24-Dec-13	-						c	arryo	ut Stage	1A Sh
SR8.EB.1040	Carry out Stage 1A Pipe Piling Work	28	27-Dec-13	29-Jan-14	-									
SR8.EB.1050	Carry out Stage 1A TAM Grout	10	30-Jan-14	13-Feb-14	_									
SR8.EB.1060	Trim down the Sheet Pile and Pipe Pile and construct the Gas Main Trough	6	10-Feb-14	15-Feb-14	-									
SR8.EB.1070	Divert the Water Main to Seaside	12	13-Feb-14	26-Feb-14	-									
SR8.EB.1090	Trim down the Sheet Pile/Pipe Pile and Divert HEC Cable (11kv) to completed Pipe pile	6	17-Feb-14	22-Feb-14	-									
SR8.EB.1100	Pre- Laying of One Gas Main Pipe to Gas Trough for diversion at Stage 2	6	17-Feb-14	22-Feb-14	-									
SR8.EB.1080	Divert Gas Main from Foot Path to Gas Main Trough	12	17-Feb-14	01-Mar-14	-									
SR8.EB.1110	Shift wiring tand Relocation of Lamp Post	6	24-Feb-14	01-Mar-14	-									
	Actual Work	Par	ge 1 of 3										Date	
	Remaining Work		,									27-1	Nov-13	Up

Milestone

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Road 8 Section) - 3 Months Rolling Progamme



	Activity Name	Original Duration	Start	Finish			2013						
		Duration			Nov		2013	Dec		Jan	2014	Feb	
	Shift Wiring and Relocation of Traffic Control Box	6	24-Feb-14	01-Mar-14									
SR8.EB.1130	Relocation of Hydrant	6	24-Feb-14	01-Mar-14									-
Stage 1B - East	Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)												
SR8.EB.1210	Carry-out preboring for Stage 1B Sheet Pile	11	27-Feb-14	11-Mar-14									-
SR8 West Boun	d - Ch. 369.000 to 495.000 (Victoria Road / IEC Central Divider)												
TTA Stage 0 (We	est Bound)											I I I I I I I I I I I I I I I	
Stage 1A - Wes	t Bound (Inside VP) (Ref. DRG. No.CDD/SR8/085)											I I I I I I I I I I I I I I I	
SR8.WB.1030	Carry out stage 1A1 Sheet Pile Work (Row A)	22	16-Oct-13 A	09-Nov-13 A	Carry out	stage	e 1A1 Sheet Pile	Work (Row A)				I I I I I I I I I I I I I I I I I I I	
SR8.WB.1040	Trial Test Pile + Test Report	5	06-Nov-13 A	11-Nov-13 A	Trial Te	st Pile	e + Test Report						
SR8.WB.1050	Carry out stage 1A1 Pipe Piling Work (Row A)	73	12-Nov-13 A	11-Feb-14								Carry out sta	age 1/
SR8.WB.1060	Site formation / Construct temporry platform	12	13-Nov-13 A	25-Nov-13			Site formatio	n / Construct temporry	platform				
SR8.WB.1090	Permanent Diversion of 11kV cable	80	19-Nov-13 A	27-Feb-14									
SR8.WB.1070	Carry out Stage 1A2 Sheet Pile Work (Row B)	21	26-Nov-13	19-Dec-13	-			Carry	ut Stage 1A2	Sheet Pile Work (Row	v B)		
SR8.WB.1080	Carry out Stage 1A2 Pipe Piling Work (Row B)	63	20-Dec-13	10-Mar-14	-								
SR8.WB.1035	Install Sheet Pile for Road Diversion (Row C)	28	23-Dec-13	27-Jan-14	_						Install Shee	t Pile for Road Div	/ersio
SR8.WB.1100	Install King Post for Traffic Deck	18	18-Feb-14	10-Mar-14	-								
SR8.WB.1110	Relocate Fire Hyrdant and divert the water main	12	25-Feb-14	10-Mar-14	_								
R8 Ch.369.000) to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	h.369.000 to Ch317.500 (Tunnel Portal) (Ref. DRG. No.CDD/SR8/087)											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	Carry Out Stage 4 Sheet Pile Works	90	21-Feb-14	13-Jun-14	-								
	W & Subway Extension & Toe Wall at Hing Fat St											I I I I I I I I I I I I I I I	
	Subway Extension (Portion V)											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	at Tsing Fung Street (Portion V)										1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
VP_1215	Construct Temporary Pedestrian Walkway	60	20-Nov-13	04-Feb-14	_							onstruct Temporary	v Ped
orks in Victo													
e-Provisioning													
hildren's Play													
Procurement	y, ound											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
VP_0120	Material/Equipment- fabrication	90	30-Jul-13 A	14-Nov-13 A	Mat	arial/F	Equipment- fabri	cation				I I I I I I I I I I I I I I I	
VP_0125	Material/Equipment- delivery	48	15-Nov-13 A							Material/Equi	oment-i deliver		
			13-1107-1374									$\frac{h}{1}$ 1 1 $\frac{1}{1}$ 1 $\frac{1}{1}$ 1 1 1 1 1 1 1	
VP 1060.02		6	01-Nov-13 A	07-Nov-13 A		orke	sito dopropos						
VP_1060.02	CP - Initial works, site clearance				_		site clearance	Dond					
VP_1080.01	CP - Demolition of Water Pond	6	08-Nov-13 A				nolition of Water						
VP_1080.02	CP - Backfill and Site Formation Works	6	15-Nov-13 A			0		Site Formation Works		. 0			
VP_1080.03	CP - Catchpits + U-Channel Drainage System	12	22-Nov-13	05-Dec-13				CP - Catchpits + U-Cha	nnel Drainage	e System			
	Actual Work		ge 2 of 3						Date	Rev	ision	Checked	Арр
	Actual Work		ye 2 01 3						27-Nov-13			DML/WC	

ctivity ID	Activity Name	Original Duration	Start	Finish	20'	13		
		Duration			Nov	Dec	Jan	-
VP_1090	CP - Footings / Foundation Works	12	29-Nov-13	12-Dec-13		CP - Footings / F	oundation Works	
VP_1100	CP - Base Slab	12	13-Dec-13	28-Dec-13			CP - Base Slab	
VP_1690	CP - Kerbs and Planters	12	30-Dec-13	13-Jan-14			CP	- Ke
VP_1140	CP - Lighting System	18	07-Jan-14	27-Jan-14				_
VP_1200	CP - Install Play Equipment	18	28-Jan-14	20-Feb-14				
VP_1230	CP - Install Safety Matting	12	14-Feb-14	27-Feb-14				1
VP_1160	CP - Completion of KD4 - Works in Section1B	0		27-Feb-14				1
Bowling Gree	n Office							
BGO - Constr	uction Works							
VP_1110	BGO - Site Possession, Portion VI & XI (245d)	0	21-Nov-13		♦ BGO - Site	Possession, Portion VI & XI (2	!5d)	
VP_1100.01	BGO - hoarding erection	24	22-Nov-13	19-Dec-13		BGO - h	parding erection	
VP_1100.02	BGO - site clearance	24	20-Dec-13	20-Jan-14				—
VP_1150	BGO - Underground utilities & foundation works	36	21-Jan-14	06-Mar-14				
Tree Transplan	nting at Portion XIV (Victoria Park Open Space)							
VP_1040	Tree Transplanting & Upkeep at Portion XIV	347	16-Oct-13 A	13-Dec-14				_
Mooring Con	nponents 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				
Works for Pu	ublic Works Regional Laboratory (North Lantau)							
Maintenance a	nd Upkeep of New PWRL (Portion XVII)							
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	20-Nov-17				_
Demolition of E	Existing PWRL (Portion XVIII)	I	I					
PWRL_1060	Demolition of Existing PWRL & Reinstatement works	49	17-Sep-13 A	15-Nov-13 A	Demolition of Exist	ting PWRL & Reinstatement w	orks	
PWRL_1070	Completion of KD16 - Completion of Section 10A	0		15-Nov-13 A	Completion of KD ²	16 - Completion of Section 10A		

	Actual Work	Page 3 of 3	Date	
	Remaining Work		27-Nov-13	Update
	v	Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip		
	Critical Remaining Work			
	 Milestone 	Road 8 Section) - 3 Months Rolling Progamme		

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