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 AND FEP-05/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- DECEMBER 2012 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

/ / January 2013

ENVIRON

Ref.: AACWBIECEM00_0_3546L.13

11 January 2013

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

By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (December 2012) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for December 2012 dated 11 January 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	Mr. Jones Lai	by fax: 2714 5289
	CEDD	Mr. Patrick Keung	by fax: 2577 5040
	AECOM	Mr. Francis Leong / Mr. Stephen Lai	by fax: 2691 2649
	Lam	Mr. Raymond Dai	by fax: 2882 3331

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –December 2012 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 and FEP-05/356/2009. This report presents the environmental monitoring findings and information recorded during the period November 2012 to December 2012. 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)

- Rockfilling of HKCEC3E (East of HKCEC) between CH290 and CH385
- Lateral supporting temporary pipe pile wall including grouting and tie back installation works
- Removal of existing seawall and rock armour at Expo Drive East
- Dredging works for Type 2 sediment beneath Expo Drive East Bridge
- Installation of precast seawall blocks for caisson and box culvert (Bay 10) installation
- Fabrication of 3 nos. precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay10) and 2 nos. precast discharge outfall in precasting yard at Guangdong, China

Cross-Harbour Watermains Installation (CHA & CHB) and Marine Works (at TST)

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- Reinstatement works for the TST landfall was temporary suspended and the site area was handed over to LCSD
- Construction of transformer rectifier at new reclaimed area

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Mainlaying works at Zone B6-1, B6-3, B6-5, B3-1, A1-1, A1-2, A1-4, A1-2A & A1-3A, A2-3D, A3-2A, A3-4A, A3-5A, A3-3C, C1-6 and Run-out of Renaissance Hotel
- Mainlaying works and partially reinstatement in Zone A1-1 & A1-2
- Mainlaying works and subsequent reinstatement in Zone A2-3D (Stage 1), A3-2A & Heading No. 1 and A3-4B
- Mainlaying works at Zone A3-4A, A3-5A and A3-3C
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Mainlaying works in Zone C1-6 of Expo Drive East and TTA Zone C1-4

- Mainlaying works for proposed sewerage system in Zone B6-1, B6-3 (previously named B1-5A) and B6-5 (previously named B2-1)
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains 23 out of 27 sections of cooling mains pipeline has been satisfied the pressure test.

E&M

- Full commissioning test for Cooling Water Pumping Station P1
- Site test for all E&M equipment and facilities in Cooling Water Pumping Station P5
- Preparation works including testing and commissioning of all E&M equipment, BMS system and facilities in Cooling Water Pumping Station P3 and P4

iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:

- Concreting the slab with hanger wall for planting area (+13.55mPD) between G.L.3-6/B-C & E-F on Observation Deck Level (+14.65mPD)
- Concreting the base slab and wall of sprinkler water tank machine room and the slab of Machine Room
- Installation of concrete block wall for store room 1 and room 2 on Level 1
- Erecting the wall stem formwork for caisson seawall precast unit 2X on flat-top barge
- Modification work of PTI at Expo Drive East
- Modification work of bus station at Expo Drive East near EVA
- Breaking up the existing covered walkway footing at Expo Drive East
- Rectification works at bending block of cooling mains
- E&M works and ABWFs installation at WSD Salt Water Pumping Station
- Drilling hole and installation of pipe bracket for aeration and chlorination pipe inside salt water intake culvert Bay 3 to Bay 5
- Concreting of the structure at salt water intake culvert Bay 10 and Bay 11 at WCR1
- Steel fixing of the shaft of Bay 2a in salt water intake seaside cofferdam
- Breaking the existing concrete road slab for DN800 salt water mains at Ex-pet garden near gate 1
- Installation the shoring to trial pit of the permanent connection point to existing DN 600 water main at Hung Hing Road was commenced
- Installation of precast concrete short pipe extended from the existing 1800 drainage at Box Culvert N landside

iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:

- TZ1 and TS2 reclamation works
- Formation of temporary seawall at TS2

v. During this reporting period, the major work activities for Contract no. HK/2010/06 included:

- Sheet piling
- Platform Disassembly
- Bored pile casing cutting
- Grouting

vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:

- Marine bored piling
- Construction works for Box Culvert T
- Construction of 1500ϕ drainage pipe

Noise Monitoring

vii. 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.

viii. No action level exceedance and four limit level exceedances were recorded at M6 on 29 November 2012, 11, 17 and 27 December 2012. The limit level exceedances were considered as non-project related.

Real-time Noise Monitoring

ix. 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.

x. 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.

xi. Non-project related limit level exceedance was recorded at RTN2a during daytime hours in the reporting month.

Air Quality Monitoring

xii. 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.

xiii. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:

CMA2a: from 13 December 2012 to 14 December 2012
CMA3a: from 22 December 2012 to 24 December 2012
CMA6a: from 1 December 2012 to 3 December 2012

xiv. Air quality monitoring has been conducted at stations CMA1b, CMA2a, CMA3a, CMA4a, CMA5a and CMA6a. No exceedance was recorded in the reporting month.

Water Quality Monitoring

xv. Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood, the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

xvi. As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 and C9 were temporary suspended on 26 December 2012 during mid-ebb and mid-flood.

xvii. 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.

xviii. 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.

xix. 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;

xx. 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.

xxi. 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.

xxii. 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.

xxiii. 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.

xxiv. Water quality monitoring at 14 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***.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	1	2	0	2	0	0	0	0	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
	WSD7	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	0	1	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	1	0	0	0
Monitoring started on 8 Feb 2012	WSD21	0	1	0	0	0	0	0	0	0	0	1	0
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/19 Monitoring started on 28 Jan 2012	C8	0	0	0	0	0	0	0	0	1	0	0	0
	C9	0	0	2	1	2	0	0	0	0	0	0	0
Total		0	1	3	3	3	2	0	0	2	0	1	1

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

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.

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

xxvi. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table II***.

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

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	0	0	0	0
	Ex-WPCWA SW	0	1	0	0
	Ex-WPCWA SE	2	4	3	0
Total		2	5	3	0

xxvii. There were 5 action level exceedances and 5 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.

xxviii. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

Complaints, Notifications of Summons and Successful Prosecutions

xxix. There was no complaint received in this reporting month.

Site Inspections and Audit

xxx. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15 HK/2010/06 and HY/2009/19 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

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

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

Marine Works

- Fabrication of precast seawall blocks and precast discharge outfall in precasting yard at Guangdong, China and all precast units (including caissons, box culvert, seawall

block and discharge outfall) were anticipated to be delivered to Site
- Installation of precast seawall blocks for caisson and box culvert installation
- Installation of precast caisson, box culvert (Bay 10) and discharge outfall
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier
- Rockfilling at east of HKCEC near Expo Drive East
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore
- Fresh water flushing, final cleaning and sterilization for cross-harbour watermains CHA, CHB, CHE & CHF
- Installation of Impressed Current Cathodic Protection (ICCP) system including soil resistivity test, anode pits and transformer rectifier to CHA and CHB

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)
- Works would be continued at Zone B6-1, B6-3, B6-5, A1-1, A1-2, A1-4 (CHWM), A2-3D (Stage 2), A3-5A, A3-4A, A3-3C, run-out of Renaissance Hotel and C1-4
- Mainlaying works at Zone C1-4
- Mainlaying works for proposed sewerage system at Zone B6-1, B6-3 and B6-5
- Mainlaying works at the run-out of Renaissance Hotel
- Mainlaying works and entire road reinstatement in Zone A1-1 and A1-2 of Convention Avenue and the next TTA workfront at Zone A1-2 (CHWM)
- Pressure test, grouting works and connection works at jacking pit in Zone A1-2A & A1-3A of Convention Avenue
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Mainlaying works at Zone A3-5A and the works at Zone A3-3B would be subsequently commenced after the Zone A3-5A had been completed reinstated and reopened to public.
- Pressure test for cooling watermain (AC, AE & AF)

E&M Works
- Full commissioning for Cooling Water Pumping Station P1
- Full commissioning for Cooling Water Pumping Station P3 & P4
- Initial commissioning for Cooling Water Pumping Stations P5

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

- Complete rectification works of cooling mains and pressure test.

- Continue 800MS pipe installation inside Ex-pet Garden.
- Complete hard landscaping works at WSD Pumping Station
- Continue construction of Bay 1b and Bay 2a shaft construction at salt water intake culverts.
- Continue remaining drainage works and reinstatement works along Wan Shing Street.
- Continue Aeration and Chlorination pipe installation of Bay 3 to Bay 11 and Bay 19b to Bay 24 inside Salt Water Intake Culvert.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Resume works for the outfall pipe B connection inside DSD receiving pit and complete dye tests
- Continue construction of 1800 connection of Box Culvert N1, Bay 4 & Bay 5 and FRP installation at WCR1 area.
- Complete concreting works at the roof Level (except late cast portion) at the New Ferry Pier.

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

- Formation of temporary seawall at TS2
- TZ1 and TS2 reclamation works

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

- Sheet piling
- Platform Disassembly
- Dredging
- Bored pile casing cutting

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

- Construction works for Box Culvert T
- Marine Piling
- Construction of 1500ϕ drainage pipe
- Construction of Pile caps & columns

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 and FEP-05/356/2009 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 and FEP-05/356/2009 and during the period of November to December 2012. 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. ***Figure 2.1*** shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

2.3.1. Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.

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

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		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
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
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

2.4 Project Organization and Contact Personnel

2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.

2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in ***Figure 2.2***. Key personnel and contact particulars are summarized in ***Table 2.3***:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader	Contractor under Contract no.	Project Director	Mr. PL Yue	2162 9909	2587 1878

Party	Role	Post	Name	Contact No.	Contact Fax
Joint Venture	HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	
		Deputy Site Agent	Mr Andy Yu	96484896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Site Agent	Mr. Chan Sing Cho	3658 3002	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	Chan Wai Hung	2823 7813	2865 5229
		Site Manager	P J Fan	3557 6368	2566 2192
		Contractor's Representative	Mr. David Lau	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 -Leader JV	Contractor under Contract no. HK/2010/06	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
		Site Agent	Mr. Keith Tse	2529 2068	
		Environmental Officer	Mr. Lee Wai Man	9481 6024	
Chun Wo - CRGL - MBEC_ Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
		Site Agent	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	

Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		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	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics 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)

- Rockfilling of HKCEC3E (East of HKCEC) between CH290 and CH385
- Lateral supporting temporary pipe pile wall including grouting and tie back installation works
- Removal of existing seawall and rock armour at Expo Drive East
- Dredging works for Type 2 sediment beneath Expo Drive East Bridge
- Installation of precast seawall blocks for caisson and box culvert (Bay 10) installation
- Fabrication of 3 nos. precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay10) and 2 nos. precast discharge outfall in precasting yard at Guangdong, China

Cross-Harbour Watermains Installation (CHA & CHB) and Marine Works (at TST)

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- Reinstatement works for the TST landfall was temporary suspended and the site area was handed over to LCSD
- Construction of transformer rectifier at new reclaimed area

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Mainlaying works at Zone B6-1, B6-3, B6-5, B3-1, A1-1, A1-2, A1-4, A1-2A & A1-3A, A2-3D, A3-2A, A3-4A, A3-5A, A3-3C, C1-6 and Run-out of Renaissance Hotel
- Mainlaying works and partially reinstatement in Zone A1-1 & A1-2
- Mainlaying works and subsequent reinstatement in Zone A2-3D (Stage 1), A3-2A & Heading No. 1 and A3-4B
- Mainlaying works at Zone A3-4A, A3-5A and A3-3C
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Mainlaying works in Zone C1-6 of Expo Drive East and TTA Zone C1-4
- Mainlaying works for proposed sewerage system in Zone B6-1, B6-3 (previously named B1-5A) and B6-5 (previously named B2-1)
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains 23 out of 27 sections of cooling mains pipeline has been satisfied the pressure test.

E&M

- Full commissioning test for Cooling Water Pumping Station P1
- Site test for all E&M equipment and facilities in Cooling Water Pumping Station P5
- Preparation works including testing and commissioning of all E&M equipment, BMS system and facilities in Cooling Water Pumping Station P3 and P4

2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:

- Concreting the slab with hanger wall for planting area (+13.55mPD) between G.L.3-6/B-C & E-F on Observation Deck Level (+14.65mPD)
- Concreting the base slab and wall of sprinkler water tank machine room and the slab of Machine Room
- Installation of concrete block wall for store room 1 and room 2 on Level 1
- Erecting the wall stem formwork for caisson seawall precast unit 2X on flat-top barge
- Modification work of PTI at Expo Drive East
- Modification work of bus station at Expo Drive East near EVA
- Breaking up the existing covered walkway footing at Expo Drive East
- Rectification works at bending block of cooling mains
- E&M works and ABWFs installation at WSD Salt Water Pumping Station
- Drilling hole and installation of pipe bracket for aeration and chlorination pipe inside salt water intake culvert Bay 3 to Bay 5
- Concreting of the structure at salt water intake culvert Bay 10 and Bay 11 at WCR1
- Steel fixing of the shaft of Bay 2a in salt water intake seaside cofferdam
- Breaking the existing concrete road slab for DN800 salt water mains at Ex-pet garden near gate 1
- Installation the shoring to trial pit of the permanent connection point to existing DN

600 water main at Hung Hing Road was commenced

- Installation of precast concrete short pipe extended from the existing 1800 drainage at Box Culvert N landside

2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:

- TZ1 and TS2 reclamation works
- Formation of temporary seawall at TS2

2.4.6. For Contract no. HK/2010/06, the principal work activities in this reporting month included:

- Sheet piling
- Platform Disassembly
- Bored pile casing cutting
- Grouting

2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:

- Marine bored piling
- Construction works for Box Culvert T
- Construction of 1500ϕ drainage pipe

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

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

Marine Works

- Fabrication of precast seawall blocks and precast discharge outfall in precasting yard at Guangdong, China and all precast units (including caissons, box culvert, seawall block and discharge outfall) were anticipated to be delivered to Site
- Installation of precast seawall blocks for caisson and box culvert installation
- Installation of precast caisson, box culvert (Bay 10) and discharge outfall
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier
- Rockfilling at east of HKCEC near Expo Drive East
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore
- Fresh water flushing, final cleaning and sterilization for cross-harbour watermains CHA, CHB, CHE & CHF
- Installation of Impressed Current Cathodic Protection (ICCP) system including soil resistivity test, anode pits and transformer rectifier to CHA and CHB

Fresh Watermains, Cooling Watermains and Salt Watermains (On Land)

- Works would be continued at Zone B6-1, B6-3, B6-5, A1-1, A1-2, A1-4 (CHWM), A2-3D (Stage 2), A3-5A, A3-4A, A3-3C, run-out of Renaissance Hotel and C1-4
- Mainlaying works at Zone C1-4
- Mainlaying works for proposed sewerage system at Zone B6-1, B6-3 and B6-5
- Mainlaying works at the run-out of Renaissance Hotel
- Mainlaying works and entire road reinstatement in Zone A1-1 and A1-2 of Convention Avenue and the next TTA workfront at Zone A1-2 (CHWM)
- Pressure test, grouting works and connection works at jacking pit in Zone A1-2A & A1-3A of Convention Avenue
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Mainlaying works at Zone A3-5A and the works at Zone A3-3B would be subsequently commenced after the Zone A3-5A had been completed reinstated and reopened to public.
- Pressure test for cooling watermain (AC, AE & AF)

E&M Works

- Full commissioning for Cooling Water Pumping Station P1
- Full commissioning for Cooling Water Pumping Station P3 & P4
- Initial commissioning for Cooling Water Pumping Stations P5

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

- Complete rectification works of cooling mains and pressure test.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Complete hard landscaping works at WSD Pumping Station
- Continue construction of Bay 1b and Bay 2a shaft construction at salt water intake culverts.
- Continue remaining drainage works and reinstatement works along Wan Shing Street.
- Continue Aeration and Chlorination pipe installation of Bay 3 to Bay 11 and Bay 19b to Bay 24 inside Salt Water Intake Culvert.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Resume works for the outfall pipe B connection inside DSD receiving pit and complete dye tests
- Continue construction of 1800 connection of Box Culvert N1, Bay 4 & Bay 5 and FRP

installation at WCR1 area.

- Complete concreting works at the roof Level (except late cast portion) at the New Ferry Pier.

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

- Formation of temporary seawall at TS2
- TZ1 and TS2 reclamation works

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

- Sheet piling
- Platform Disassembly
- Dredging
- Bored pile casing cutting

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

- Construction works for Box Culvert T
- Marine Piling
- Construction of 1500ϕ drainage pipe
- Construction of Pile caps & columns

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	17 Aug 2009	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	Valid
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/A	25 Feb 2011	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	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***.

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
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS-1293-12	10 Dec 2012	10 Dec 2012 to 9 June 2013	Valid
	GW-RS0855-12	16 Aug 2012	17 Aug 2012 to 9 Feb 2013	Cancelled
	GW-RS0862-12	20 Aug 2012	28 Aug 2012 to 27 Feb 2013	Cancelled
	GW-RS0949-12	12 Sep 2012	16 Sep 2012 to 15 Mar 2013	Cancelled
	GW-RS0760-12	18 Jul 2012	20 Jul 2012 to 19 Jan 2013	Valid
	GW-RS0806-12	3 Aug 2012	4 Aug 2012 to 03 Feb 2013	Cancelled
	GW-RS0823-12	3 Aug 2012	3 Aug 2012 to 02 Feb 2013	Cancelled
	GW-RS0852-12	16 Aug 2012	16 Aug 2012 to 01 Feb 2013	Cancelled
	GW-RS1011-12	26 Sep 2012	30 Sep 2012 to 29 Mar 2013	Cancelled
	GW-RS1017-12	27 Sep 2012	30 Sep 2012 to 24 Mar 2013	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RE0793-12	21 Sep 2012	30 Sep 2012 to 29 Mar 2013	Valid
	GW-RS1040-12	8 Oct 2012	13 Oct 2012 to 12 Apr 2013	Valid
	GW-RS1177-12	15 Nov 2012	17 Nov 2012 to 10 May 2013	Valid
	GW-RS1184-12	15 Nov 2012	17 Nov 2012 to 8 May 2013	Valid
	GW-RS1185-12	19 Nov 2012	21 Nov 2012 to 8 May 2013	Valid
	GW-RS1179-12	20 Nov 2012	22 Nov 2012 to 21 May 2013	Valid
	GW-RS1187-12	20 Nov 2012	27 Nov 2012 to 26 May 2013	Valid
	GW-RS1199-12	20 Nov 2012	26 Nov 2012 to 25 May 2013	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-096	3 Dec 2012	4 Dec 2012 to 3 June 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/13-089	8 Nov 2012	12 Nov 2012 to 11 Dec 2012	Expired
	EP/MD/13-106	12 Dec 2012	17 Dec 2012 to 16 Jan 2013	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
Condition 2.8	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
Conditions 2.8 and 2.9	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010

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

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-RS0671-12	25 June 2012	17 Jul 2012 to 16 Jan 2013	Valid
	GW-RS0730-12	9 July 2012	10 Jul 2012 to 8 Jan 2013	Valid
	GW-RS0736-12	9 July 2012	9 Jul 2012 to 8 Jan 2013	Valid
	GW-RE0283-12	5 Apr 2012	1 May 2012 to 30 Nov 2012	Expired
	GW-RS0739-12	9 July 2012	1 Aug 2012 to 31 Jan 2013	Valid
	GW-RS1038-12	10 Oct 2012	10 Oct 2012 to 9 Apr 2013	Valid
	GW-RS1069-12	17 Oct 2012	19 Oct 2012 to 18 Apr 2013	Valid
	GW-RS0550-12	25 May 2012	7 June 2012 to 6 Dec 2012	Expired
	GW-RS0611-12	14 June 2012	15 Jun 2012 to 28 Nov 2012	Expired
	GW-RS0633-12	13 June 2012	16 Jun 2012 to 14 Dec 2012	Expired
	GW-RS0814-12	3 Aug 2012	6 Aug 2012 to 5 Dec 2012	Expired
	GW-RS0850-12	10 Aug 2012	14 Aug 2012 to 13 Feb 2013	Valid
	GW-RS0870-12	21 Aug 2012	16 Sept 2012 to 31 Dec 2012	Valid
	GW-RS0996-12	25 Sept 2012	26 Sept 2012 to 25 Mar 2013	Valid
	GW-RS1076-12	25 Oct 2012	1 Nov 2012 to 30 Apr 2013	Valid
	GW-RS1084-12	25 Oct 2012	1 Nov 2012 to 30 Apr 2013	Valid
	GW-RS1086-12	25 Oct 2012	28 Oct 2012 to 16 Apr 2013	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS1174-12	9 Nov 2012	11 Nov 2012 to 10 May 2013	Valid
	GW-RS1158-12	16 Nov 2012	18 Nov 2012 to 16 May 2013	Valid
	GW-RS1167-12	16 Nov 2012	23 Nov 2012 to 21 May 2013	Valid
	GW-RS1204-12	9 Nov 2012	29 Nov 2012 to 23 May 2013	Valid
	GW-RS1272-12	5 Dec 2012	5 Dec 2012 to 26 May 2013	Valid
	GW-RS1223-12	27 Nov 2012	7 Dec 2012 to 5 June 2013	Valid
	GW-RS1228-12	30 Nov 2012	30 Nov 2012 to 29 May 2013	Valid
	GW-RE1055-12	30 Nov 2012	3 Dec 2012 to 29 May 2013	Valid
	GW-RS1243-12	3 Dec 2012	5 Dec 2012 to 29 May 2013	Valid
	GW-RS1245-12	5 Dec 2012	6 Dec 2012 to 5 June 2013	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
	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/13015	25 May 2012	29 May 2012 to 28 Nov 2012	Expired
	EP/MD/13-095	19 Nov 2012	29 Nov 2012 to 28 May 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-086	31 Oct 2012	6 Nov 2012 to 5 Dec 2012	Expired
	EP/MD/13-098	29 Nov 2012	6 Dec 2012 to 5 Jan 2013	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	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
	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
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	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
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
-----	Acknowledge of Submission	22 Aug 2011

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

3.1.5. 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
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-01/416/2011	11 Nov 2011	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for Filling and Diaphragm Wall Works at TS4/ME4	GW-RS0924-12	31 Aug 2012	01 Sep 2012 to 28 Feb 2013	Cancelled
	GW-RS1191-12	26 Nov 2012	26 Nov 2012 to 11 May 2013	Valid
Construction Noise Permit (CNP) for bored pile construction at Eastern Breakwater of CBTS	GW-RS1009-12	03 Oct 2012	03 Oct 2012 to 25 Mar 2013	Valid
Construction Noise Permit (CNP) for Removal Works at TS1	GW-RS0607-12	12 Jun 2012	13 Jun 2012 to 7 Dec 2012	Expired
Construction Noise Permit (CNP) for Dredging at TS2	GW-RS1023-12	05 Oct 2012	09 Oct 2012 to 25 Mar 2013	Cancelled
	GW-RS1234-12	28 Nov 2012	28 Nov 2012 to 15 May 2013	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	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	03 Oct 2012	17 Oct 2012 to 16 Jan 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-018	6 Jun 2012	6 Jun 2012 to 5 Dec 2012	Expired
	EP/MD/13-097	28 Nov 2012	6 Dec 2012 to 5 Jun 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-103	18 Dec 2012	24 Dec 2012 to 23 Jan 2013	Valid
	EP/MD/13-094	19 Nov 2012	24 Nov 2012 to 23 Dec 2012	Expired

Table 3.9 Summary of submission status under FEP-04/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011

FEP Condition	Submission	Date of Submission
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Noise Management Plan	20 Oct 2010
	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***.

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

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 are shown in ***Table 3.10*** and ***Table 3.11***.

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

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-RS0012-12	18 June 2012	6 Jul 2012 to 5 Jan 2013	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0989-12	21 Sept 2012	6 Oct 2012 to 5 Apr 2013	Valid
	GW-RS0658-12	21 June 2012	13 Jul 2012 to 12 Jan 2013	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G2533-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 November 2011	31 July 2016	Valid`

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	24 October 2011
Condition 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Revised Silt Curtain Deployment Plan	31 Aug 2011
	Revised Silt Curtain Deployment Plan	22 Oct 2012
	Revised Silt Curtain Deployment Plan	26 Nov 2012
Condition 2.9	Silt Screen Deployment Plan	11 April 2011
Condition 2.23	Noise Management Plan	11 March 2011

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

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***.

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	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-RS0871-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III, V)	GW-RS0885-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0589-12	18-Jun-12	17-Dec-12	Cancelled
	GW-RS1230-12	28-Nov-12	25-May-13	Valid
Construction Noise Permit (CNP) (For IEC)	GW-RS0953-12	17-Sep-12	20-Mar-13	Cancelled
	GW-RS1210-12	29-Nov-12	28-May-13	Valid

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1065-12	16-Oct-12	20-Apr-13	Valid
Discharge Licence (Land)	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 (Type 1 – Open Sea Disposal)	EP/MD/13-101	24 Dec 2012	23 May 2013	Valid
Dumping Permit (Type 2 – Confined Marine Disposal)	EP/MD/13-100	24 Dec 2012	23 Jan 2013	Valid

4. 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
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

REAL-TIME NOISE MONITORING STATIONS

4.1.2. The real-time noise monitoring stations for the Project are listed and shown in ***Table 4.2*** and ***Figure 4.1***. ***Appendix 4.1*** shows the established Action/Limit Levels for the monitoring works.

4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

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

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.

Table 4.3 Air Monitoring Station

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai

Station ID	Monitoring Location	Description
CMA6a	WDII PRE Site Office *	Wan Chai

* 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 ***Appendix 6.1***.

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 9 WSD salt water intakes and 14 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in ***Table 4.4*** and ***Figure 4.1***. ***Appendix 4.1*** shows the established Action/Limit Levels for the monitoring works.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3
WSD9	Tai Wan	837921.0	818330.0
WSD10	Cha Kwo Ling	841900.9	817700.1
WSD15	Sai Wan Ho	841110.4	816450.1
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0

Station Ref.	Location	Easting	Northing
WSD20	Kennedy Town	830750.6	816030.3
WSD21	Wan Chai	836220.8	815940.1
RW1	Wan Chai (Reprovision)	836188.8	815911.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Great Eagle Centre	835932.8	815888.2
C4w	Wan Chai Tower	835629.8	815889.2
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6
RC1	Proposed HKAPA Extension	835487.7	815987.7
RC5	Sun Hung Kai Centre (Reprovision)	836291.4	816029.7
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6

WATER QUALITY PARAMETERS

4.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured in-situ while SS is determined in laboratory.

4.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. ***Table 4.5*** shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency[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

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

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:

- a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
- a temperature of 0-45 degree Celsius

4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

SALINITY

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

MONITORING POSITION EQUIPMENT

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

CALIBRATION OF IN-SITU INSTRUMENTS

4.3.16. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.

4.3.17. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.

4.3.18. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

4.3.19. Current calibration certificates of equipments are presented in ***Appendix 4.2***.

LABORATORY MEASUREMENT / ANALYSIS

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

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

4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.

4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in ***Table 4.6*** and ***Figure 4.1***.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

Station	Location

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

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 qualtiy 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. The proposed DO monitoring stations of the Project are shown in ***Table 4.7*** and ***Figure 4.1***.

Table 4.7 Marine Water Quality Stations for Additional DO Monitoring

Station	Easting	Northing
A	835468	815857
B	835572	815961
C	835659	816271

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

5.0.3. The environment monitoring schedules for reporting month and coming month are presented in ***Appendix 5.1***.

5.1 Noise Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC, Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East and Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line

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 and HK/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 Noise Monitoring Station for Contract no. HY/2009/15

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

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 ***Appendix 5.2***

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.

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

Station	Description
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

5.1.7. No action level exceedance and four limit level exceedances were recorded at M6 on 29 November 2012, 11, 17 and 27 December 2012. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***

5.2 Real-time Noise Monitoring

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

5.2.1 As the 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 Non-project related limit level exceedance was recorded in RTN2a in the reporting month.

5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

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

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

- *Real time noise monitoring results and graphical presentation during night time period are for information only.*
- *RTN2 had been relocated to RTN2a since 5 Oct 2012*
- *RTN1 monitoring had been finished on 28 Nov 2012*

5.2.6 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 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.

5.3.2. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:

CMA2a: from 13 December 2012 to 14 December 2012
CMA3a: from 22 December 2012 to 24 December 2012
CMA6a: from 1 December 2012 to 3 December 2012

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

5.3.3. 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.

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

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

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

5.3.4. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations 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

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

5.3.5. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in ***Table 5.9*** below. No exceedance was recorded in the reporting month.

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

Station	Description
CMA3a	CWB PRE Site Office

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

5.3.6. 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 St Community Liaison Centre
CMA2a	Causeway Bay Community Centre

5.4 Water Monitoring Results.

5.4.1. Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood, the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

5.4.2. As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 and C9 were temporary suspended on 26 December 2012 during mid-ebb and mid-flood.

5.4.3. 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.

5.4.4. 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.

5.4.5. 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;

5.4.6. 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.

5.4.7. 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.

5.4.8. 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.

5.4.9. 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.

5.4.10. 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.

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

5.4.11. 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.

5.4.12. Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood, the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

Table 5.12 Water Monitoring Stations for Contract no. HK/2009/01

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0

Station Ref.	Location	Easting	Northing
C4e	Great Eagle Centre	835932.8	815888.2
C4w	Wan Chai Tower	835629.8	815889.2

Remarks:

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

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

5.4.13. 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.

5.4.14. Due to the blockage of road access to C5e and C5w on 17 Nov 2012 during mid flood and mid-ebb tide, the sample was taken under contingency plan and the result was presented in C5e WQM result on 17 Nov 2012 during mid-flood and mid-ebb.

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

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			
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2

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.

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

5.4.15. Water monitoring for Contract no. HK/2010/06 was commenced on 8 March 2011. 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
Cooling Water Intake			

Station Ref.	Location	Easting	Northing
C2	Telecom House	835647.9	815864.4

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

5.4.16. 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.

5.4.17. 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.

Table 5.15 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C6	Excelsior Hotel	837009.6	815999.3
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.

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

5.4.18. As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 and C9 were temporary suspended on 26 December 2012 during mid-ebb and mid-flood.

5.4.19. 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.

Table 5.16 Water Monitoring Stations for Contract no. HY/2009/19

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6

Remarks: C8 and C9 monitoring commenced on 28 Jan 2012.

5.4.20. 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.

5.4.21. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land

and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.

5.4.22. 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.

5.4.23. 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.

5.4.24. Water monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in **Appendix 5.4**.

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	1	2	0	2	0	0	0	0	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
	WSD7	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	0	1	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	1	0	0	0
Monitoring started on 8 Feb 2012	WSD21	0	1	0	0	0	0	0	0	0	0	0	0
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/19 Monitoring started on 28 Jan 2012	C8	0	0	0	0	0	0	0	0	1	0	0	0
	C9	0	0	2	1	2	0	0	0	0	0	0	0
Total		0	1	3	3	3	2	0	0	2	0	0	1

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

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012

5.4.25. Investigation found that no exceedance was related to project works. The details of the recorded exceedances can be referred to the Section 6.4.

5.4.26. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table 5.18***.

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

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	0	0	0	0
	Ex-WPCWA SW	0	1	0	0
	Ex-WPCWA SE	2	4	3	0
Total		2	5	3	0

5.4.27. There were 5 action level exceedances and 5 limit level exceedances recorded in enhanced dissolved oxygen monitoring in this reporting period.

5.4.28. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in ***Appendix 5.4a***.

5.5 Waste Monitoring Results

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

5.5.1. No Inert C&D waste was disposed and non- inert C&D waste was disposed 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 disposed, m^3	0	22245.415	TKO137, TM38
Inert C&D materials recycled, m^3	0	5104.5	N/A
Non-inert C&D materials disposed, m^3	65.48	1157.56	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	300	8550	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
*Marine Sediment (Type 1 – Open Sea Disposal), m^3	701 (Bulk Volume)	91865.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	8465 (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 marine sediment (Type 1- Open Sea Disposal), marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in the reporting month.

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

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.***

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	5882.35	225299.38	TKO137 / TM 38
Inert C&D materials recycled, m^3	0	18161	N/A
Non-inert C&D materials disposed, m^3	48.54	745.91	SENT Landfill
Non-inert C&D materials recycled, m^3	N/A	N/A	N/A
Chemical waste disposed, kg	0	5686	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	154,827 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	2174	117420 (Bulk volume)	East of Sha Chau

Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) was disposed of in this reporting month.

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	141579.2	Tuen Mun Area 38
	NIL	65216	TKO137 FB
Inert C&D materials recycled, m^3	NIL	304	ex-PCWA
	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	NIL	97,857 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	NIL	207,285 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	7,050 (Bulk Volume)	East of Sha Chau

No Marine sediment (Type 1 – Open Sea Disposal) was disposed of in this reporting month.

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	0	11366.23	TM38
Inert C&D materials recycled, m^3	25.8	373.9	N/A
Non-inert C&D materials disposed, m^3	0	21.35	N/A
Non-inert C&D materials recycled, kg	0	1374.5	N/A
Chemical waste disposed, L	0	600	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	3,694 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	12,297 (Bulk Volume)	East Sha Chau

There were no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal dredging from bore-piling casing in the reporting month.

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	18079.91	111671.15	TM38
Inert C&D materials recycled, m^3	0	1323	N/A
Non-inert C&D materials disposed, m^3	38.55	190.08	N/A
Non-inert C&D materials recycled, kg	22.39	133.61	N/A
Chemical waste disposed, L	NIL	0.29	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	83	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	482	East Sha Chau

There was no marine sediment Type1- Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal dredging from bore-piling casing in the reporting month.

6. Compliance Audit

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

6.1 Noise Monitoring

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.

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

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 under FEP-07/364/2009/A

6.1.5 Four limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 29 November 2012, 11, 17 and 27 December 2012 in the reporting month. Investigations found that major traffic noise was contributed in the noise monitoring and not related to the Project.

6.2 Real-time noise Monitoring

6.2.1 Non-project related limit level exceedance was recorded at RTN2a during daytime hours in the reporting month.

6.3 Air Monitoring

6.3.1. No exceedance was recorded in 1-hr TSP and 24-hrs TSP monitoring 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 SS exceedance at C2 recorded during flood tide on 18 Dec 2012 in this reporting month. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 18 Dec 2012, pile head grouting under HK/2010/06 and dredging near to East Bridge under HK/2009/01 were conducted on that day. Checking with the Contractor and RSS daily records from contract no.HK/2009/01, the floating debris inside silt screen was found and removed immediately after inspection. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. The exceedance was possibly due to the

accumulation of floating debris near monitoring station. The exceedance was considered not related to Project work.

6.4.2 Turbidity and SS exceedances at WSD19 were occasionally recorded in this reporting month. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedances were possible in relation to the changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

6.4.3 There was DO exceedance recorded at WSD21 on 3 December 2012 during flood tide. No odour nuisance was noted during monitoring. Checking with contractor's works, rockfilling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was possibly due to the natural variation or changes of water quality in the vicinity of the water quality monitoring station. The exceedance was considered not project related.

6.4.4 There was turbidity exceedance recorded at C5w on 10 Dec 2012 during ebb tide. Checking with Contractor's work, rockfilling was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedance was possibly due to the Natural variation or changes of water quality in the vicinity of the water quality monitoring station

6.4.5 There was SS exceedance during ebb tide recorded at WSD21 on 26 December 2012. Confirmed with Contractor, there was no work conducted during the water quality monitoring. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

6.4.6 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.

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

6.4.7 There was SS exceedance at C2 recorded during flood tide on 18 Dec 2012 in this reporting month. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 18 Dec 2012, pile head grouting under HK/2010/06 and dredging near to East Bridge under

HK/2009/01 were conducted on that day. Checking with the Contractor and RSS daily records from contract no.HK/2009/01, the floating debris inside silt screen was found and removed immediately after inspection. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. The exceedance was possibly due to the accumulation of floating debris near monitoring station. The exceedance was considered not related to Project work.

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

6.4.8 There were occasionally turbidity and SS exceedances at C8 and C9 recorded in this reporting month. Confirmed with Contractor, there was no marine work conducted near C8 and C9.The exceedances were possible in relation to the accumulation of particles discharged from outfalls near monitoring stations and not related to project.

6.4.9 Summary for notification of exceedances can be referred to ***Appendix 6.2***.

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 month. The observations and recommendations made in each individual site audit session were presented in Section 8.

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 project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting month.

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 (November 2012) of Central Reclamation Phase III (CRIII), filling works, building construction works and pipe works were performed in the November 2012 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 activities at Reclamation Shoreline Sub-zones under Wan Chai Development Phase II were the filling at HKCEC3w, dredging at submarine sewage pipelines, reinstatement of seawall block construction at TCBR1W and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at, Causeway Bay and Wan Chai.

7.0.4. The major environmental impacts generated from the reclamation work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty. 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 and HY/2009/19. 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 28 November 2012, 5, 12, 20 and 27 December 2012 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

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

Item	Date	Observations	Action taken by Contractor	Outcome
121128_01	28-Nov-12	Mud trail was observed on the public road which should be cleaned. Measures should be taken to avoid the mud from vehicle or trucks deposited on road. (Near to Grand Hyatt)	The mud trail was cleaned.	Completion as observed on 12-Dec-12
121128_02	28-Nov-12	The oil drum should be provided with drip tray. (VIP area)	Drip tray was provided for oil drum.	Completion as observed on 12-Dec-12
121220_02	20-Dec-12	The oil stain was observed on ground which should be cleaned and removed as chemical waste. (VIP area, Near to Grand Hyatt)	The oil stain was removed	Completion as observed on 27-Dec-12
121220_03	20-Dec-12	The dusty trail was observed on the public road which should be cleaned up (VIP area)	The dusty trail was cleaned.	Completion as observed on 27-Dec-12
121227_01	27-Dec-12	Drip tray should be provided for oil drums (Water Channel)	Drip tray was provided for oil drum.	Completion as observed on 2-Jan-13

8.0.3. Five site inspections for Contract no. HK/2009/02 was carried out on 29 November 2012, 6, 13, 18 and 27 December 2012 during this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.2***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
121206_01	6-Dec-12	The condition of silt curtain should be improved to prevent any gaps to occur (Eastern Temporary seawall)	The condition of silt curtain has been improved.	Completion as observed on 13-Dec-12
121206_02	6-Dec-12	Label should be provided for chemical waste container (WCR1)	The label was provided for chemical waste container.	Completion as observed on 13-Dec-12
121218_01	18-Dec-12	The condition of silt curtain for the Eastern temporary seawall should be improved and prevent the occurrence of	The condition of silt curtain has been improved.	Completion as observed on 27-Dec-12

Item	Date	Observations	Action taken by Contractor	Outcome
		gaps. (Eastern Temporary seawall)		
121227_01	27-Dec-12	Watering within site area should be provided more regularly (WCR1)	Water spraying within the site area was observed.	Completion as observed on 3-Jan-12
121227_02	27-Dec-12	The oil stain was observed on ground which should be cleaned and removed as chemical waste (WCR1)	The oil stain was removed.	Completion as observed on 3-Jan-12

8.0.4. Four site inspections for Contract no. HY/2009/15 was carried out on 4, 11, 18 and 27 December 2012 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.3***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
121204_01	4-Dec-12	Filling materials should be avoid resting at the edge of seawall block to prevent overflow(TS2)	Filling material was removed from the edge of seawall block.	Completion as observed on 11 Dec 2012.
121204_02	4-Dec-12	Drip trays should be provided for oil drums(TS4,TS2)	Drip trays were provided for oil drums.	Completion as observed on 11 Dec 2012.
121204_03	4-Dec-12	Milky discharge observed at treatment outfall(Ex-PCWA)	Chemical discharge was readjusted and milky discharge ceased.	Completion as observed on 11 Dec 2012.
121204_04	4-Dec-12	Impermeable barrier should be tightened to avoid gaps	Condition of impermeable barrier was improved.	Completion as observed on 18 Dec 2012
121211_03	11-Dec-12	Drip tray should be provided for oil drum (TS1 near landing step)	Tarpaulin covering was provided to prevent leakage from oil drum	Completion as observed on 18 Dec 2012
121211_04	11-Dec-12	Silt curtain should be provided to barges carrying out filling material loading	Silt curtain was provided around loading barges.	Completion as observed on 18 Dec 2012.
121211_05	11-Dec-12	Sump trap should be cleared to prevent overflow (TS1breakwater)	Sump trap was cleared	Completion as observed on 18 Dec 2012
121218_04	18-Dec-12	Drip tray should be provided for oil bucket (TS2, SI work area)	Drip trays were provided	Completion as observed

Item	Date	Observations	Action taken by Contractor	Outcome
				on 27 Dec 2012
121227_01	27-Dec-12	Water pumping line should be connected to proper collection point or water treatment facilities (TS2)	Water pumping line was properly connected.	Completion as observed on 03 Jan 2013
121227_02	27-Dec-12	Defects were observed at southern seawall block at TS2. Contractor was advised to deploy impermeable barrier properly around the concerned seawall block during rectification work	Silt curtain and impermeable barrier are properly deployed.	Completion as observed on 08 Jan 2013.

8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 3, 10, 20 and 24 December 2012 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. HK/2010/06

Item	Date	Observations	Action taken by Contractor	Outcome
121203_01	3-Dec-12	The oil leakage from the hole of drip tray was observed which should be removed and the drip tray should be repaired (2e)	The oil stain was removed and the drip tray was repaired.	Completion as observed on 10-Dec-12
121220_01	20-Dec-12	The oil stain was observed on the platform which should be cleaned and removed as chemical waste (2w, 2e)	The oil stain was removed.	Completion as observed on 24-Dec-12
121220_02	20-Dec-12	Drip tray should be provided for oil drum (Barge)	The oil drum was removed.	Completion as observed on 31-Dec-12
121224_01	24-Dec-12	The stockpile should be covered by tarpaulin sheet. (section 2)	The stockpile was removed.	Completion as observed on 31-Dec-12
121224_02	24-Dec-12	Watering within site area should be provided more regularly. (2w, Section 2)	Water spraying within the site area was observed.	Completion as observed on 31-Dec-12

8.0.6. Four site inspections for Contract no. HY/2009/19 was carried out on 29 November 2012, 5, 12 and 19 December 2012 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.5***.

Table 8.5 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Outcome
121129_01	29-Nov-12	Muddy water discharge observed at outfall location	Muddy discharge terminated and protection work was provided to outfall.	Completion as observed on 05 Dec 2012

9. Complaints, Notification of Summons and Prosecution

9.0.1. There was no complaint received in this reporting month.

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	27
December 2012	0
Project-to-Date	**27**

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. 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 January 2012.

10.0.7. 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.

10.0.8. 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.

10.0.9. 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.

10.0.10. 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.

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	Marine Works • Fabrication of precast seawall blocks and precast discharge outfall in precasting yard at Guangdong, China and all precast units (including caissons, box culvert, seawall block and discharge outfall) were anticipated to be delivered to Site • Installation of precast seawall blocks for caisson and box culvert installation • Installation of precast caisson, box culvert (Bay 10) and discharge outfall • Dredging works for Type 2 sediment underneath Expo Drive East Bridge • Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier • Rockfilling at east of HKCEC near Expo Drive East • Rockfilling and rock armour protection works to cross-harbour watermains • Reinstatement works at TST seashore • Fresh water flushing, final cleaning and sterilization for cross-harbour watermains CHA,	• 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 screen and silt curtain to ensure its operation properly

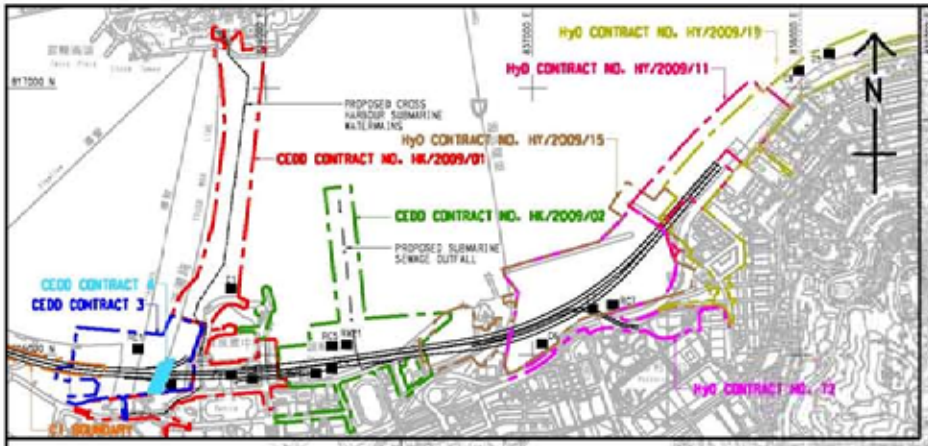
Contract No.	Key Construction Works	Recommended Mitigation Measures
	CHB, CHE & CHF • Installation of Impressed Current Cathodic Protection (ICCP) system including soil resistivity test, anode pits and transformer rectifier to CHA and CHB Fresh Watermains, Cooling Watermains and Salt Watermains (On Land) • Works would be continued at Zone B6-1, B6-3, B6-5, A1-1, A1-2, A1-4 (CHWM), A2-3D (Stage 2), A3-5A, A3-4A, A3-3C, run-out of Renaissance Hotel and C1-4 • Mainlaying works at Zone C1-4 • Mainlaying works for proposed sewerage system at Zone B6-1, B6-3 and B6-5 • Mainlaying works at the run-out of Renaissance Hotel • Mainlaying works and entire road reinstatement in Zone A1-1 and A1-2 of Convention Avenue and the next TTA workfront at Zone A1-2 (CHWM) • Pressure test, grouting works and connection works at jacking pit in Zone A1-2A & A1-3A of Convention Avenue • Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street • Mainlaying works at Zone A3-5A and the works at Zone A3-3B	

Contract No.	Key Construction Works	Recommended Mitigation Measures
	would be subsequently commenced after the Zone A3-5A had been completed reinstated and reopened to public. • Pressure test for cooling watermain (AC, AE & AF) E&M Works • Full commissioning for Cooling Water Pumping Station P1 • Full commissioning for Cooling Water Pumping Station P3 & P4 • Initial commissioning for Cooling Water Pumping Stations P5	
HK/2009/02	• Complete rectification works of cooling mains and pressure test. • Continue 800MS pipe installation inside Ex-pet Garden. • Complete hard landscaping works at WSD Pumping Station • Continue construction of Bay 1b and Bay 2a shaft construction at salt water intake culverts. • Continue remaining drainage works and reinstatement works along Wan Shing Street. • Continue Aeration and Chlorination pipe installation of Bay 3 to Bay 11 and Bay 19b to Bay 24 inside Salt Water Intake Culvert. • Continue 800MS pipe installation inside Ex-pet Garden. • Resume works for the outfall pipe B connection inside DSD receiving pit and complete dye	• 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 to ensure its operation properly • Review silt screen deployment 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
	tests • Continue construction of 1800 connection of Box Culvert N1, Bay 4 & Bay 5 and FRP installation at WCR1 area. • Complete concreting works at the roof Level (except late cast portion) at the New Ferry Pier.	
HY/2009/15	• Formation of temporary seawall at TS2 • TZ1 and TS2 reclamation works	• Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HK/2010/06	• Sheet piling • Platform Disassembly • Dredging • Bored pile casing cutting	• 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	• Construction works for Box Culvert T • Marine Piling • Construction of 1500ϕ drainage pipe • Construction of Pile caps & columns	• To conform the installation and setting as in the silt screen and silt curtain deployment plan

Figure 2.1

Project Layout



DETAIL 'A'

LEGEND:

- WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

- C1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- C2 TELECOM HOUSE/THE ACADEMY FOR PERFORMING ARTS / GOLF ON CENTRE
- C3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE II
- C4 WAN CHAI TOWER AND GREAT EAGLE CENTRE
- C5 SUN HUNG KAI CENTRE
- C6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
- C7 WINDSOR HOUSE
- C8 CITY GARDEN
- C9 PROVIDENT CENTRE
- RC1 PROPOSED HUKFA EXTENSION
- RC5 SUN HUNG KAI CENTRE (REPROVISION)
- RC7 WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

- #S021 WAN CHAI
- #W07 WAN CHAI (REPROVISION)
- #S07 KOWLOON SOUTH
- #S09 TAI WAN
- #S21C CHA KWO LING
- #S21S SAI WAN HO
- #S21T QUARRY BAY
- #S21V SHEUNG WAN
- #S22S KENNEDY TOWN

DESIGNATED PROJECTS (DP)

- DP1 - CENTRAL-WAN CHAI BYPASS ECWB (INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
- DP2 - ROAD P2 AND OTHER ROADS (PRIMARY / DISTRICT DISTRIBUTOR ROADS)
- DP3 - PERMANENT AND TEMPORARY RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE II (WDII) AREA
- ~~DP4 - TEMPORARY TYPHOON SHELTER (DP4 NOT TO BE IMPLEMENTED)~~
- DP5 - WAN CHAI EAST SEWAGE OUTFALL
- DP6 - DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 314/2009
DP2 IS COVERED BY EP - 376/2009
DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2005

WORKS CONTRACT	DESIGNATED PROJECT (PROJECTS)	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP5	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2012
CEDD CONTRACT 5	DP2	2013
HyD CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyD CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	OCTOBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT 12	DP1, DP3	MID 2013

CEDD 土木工程拓展署 Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II AND CENTRAL - WAN CHAI BYPASS - SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 1)

LOCATIONS OF WATER QUALITY MONITORING STATIONS

AECOM

DRG.NO. 60041297/C5/SK001

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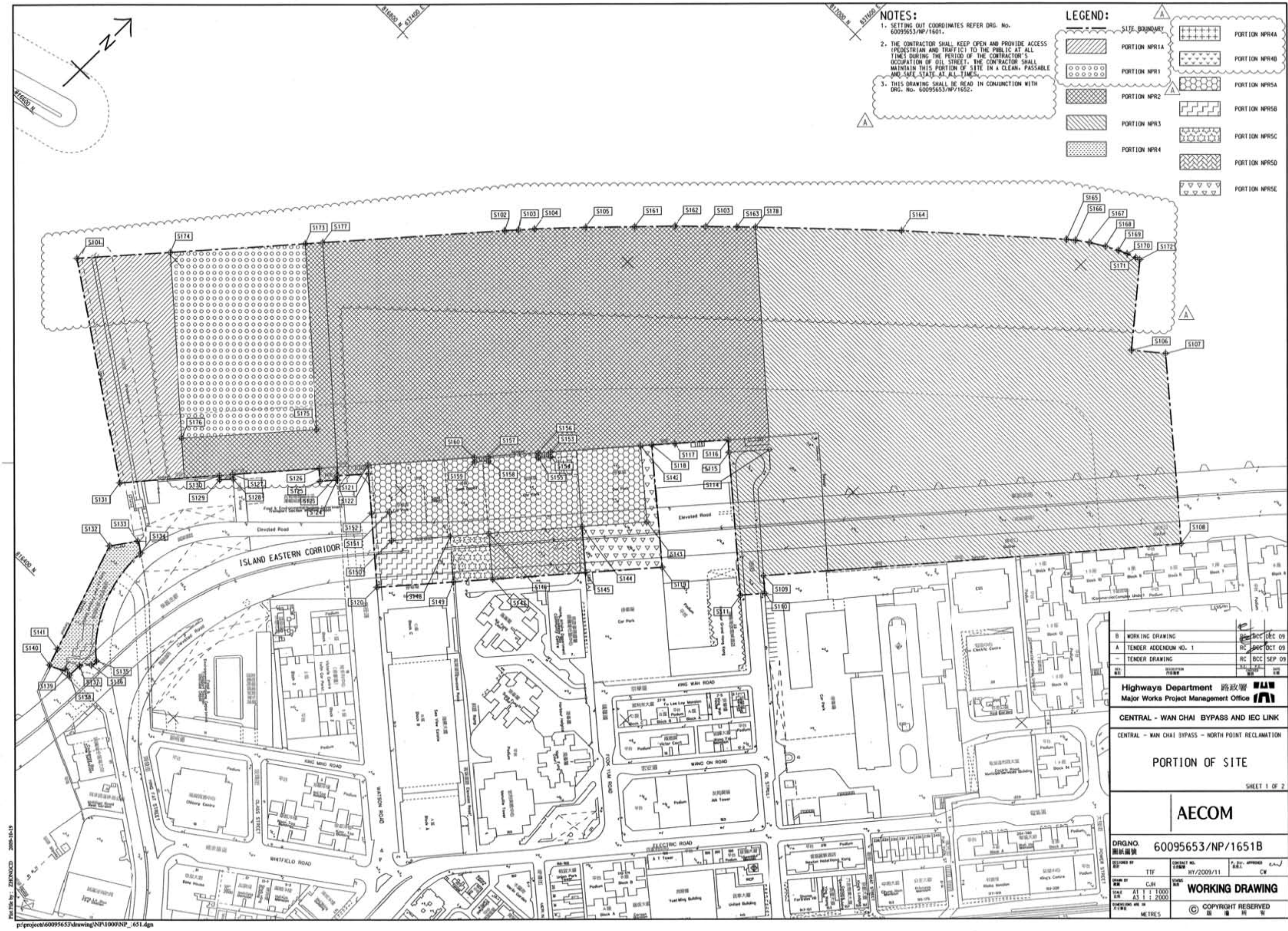
Plot Title by : 2009-3-17 CENAL

PATH: p:\projects\60041297\DRAWINGS\SETCH\C3\SKETCH 001.dgn



NOTES:

1. SETTING OUT COORDINATES REFER DRG. No. 60095653/NP/1601.
2. THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS (PEDESTRIAN AND TRAFFIC) TO THE PUBLIC AT ALL TIMES DURING THE PERIOD OF THE CONTRACTOR'S OCCUPATION OF OIL STREET. THE CONTRACTOR SHALL MAINTAIN THIS PORTION OF SITE IN A CLEAN, PASSABLE AND SAFE STATE AT ALL TIMES.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. 60095653/NP/1652.

LEGEND:

- SITE BOUNDARY
- PORTION NPR1A
- PORTION NPR1
- PORTION NPR2
- PORTION NPR3
- PORTION NPR4
- PORTION NPR4A
- PORTION NPR4B
- PORTION NPR5A
- PORTION NPR5B
- PORTION NPR5C
- PORTION NPR5D
- PORTION NPR5E

REV.	DESCRIPTION		CHECKED	DATE
B	WORKING DRAWING	RC	BCC	DEC 09
A	TENDER ADDENDUM NO. 1	RC	BCC	OCT 09
–	TENDER DRAWING	RC	BCC	SEP 09

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE

SHEET 1 OF 2

AECOM

DRG.NO. 60095653/NP/1651B

DESIGNED BY: TTF	CONTRACT NO.: HY/2009/11	P. DIV. APPROVED: CW
DRAWN BY: CJH	STATUS: WORKING DRAWING	
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DIMENSIONS ARE IN: METRES		

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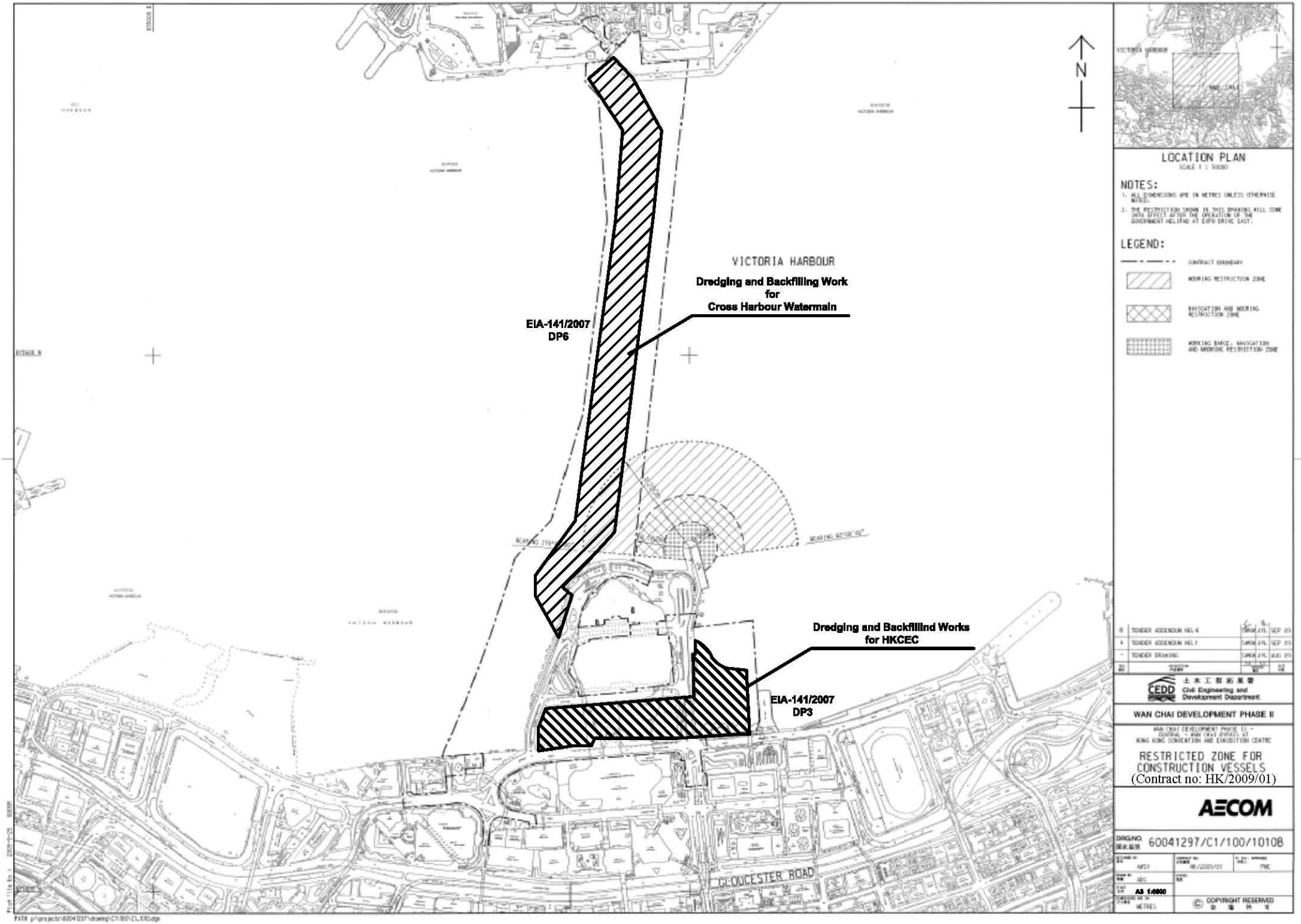
VICTORIA HARBOUR
Dredging and Backfilling Work
for
Cross Harbour Watermain
EIA-141/2007
DP6
Dredging and Backfillind Works
for HKCEC
EIA-141/2007
DP3
GLOUCESTER ROAD
N
LOCATION PLAN
SCALE 1 : 50000
NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. THE RESTRICTION SHOWN IN THIS DRAWING WILL CEASE TO HAVE EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EASTERN DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
B TENDER ADDENDUM NO.4 SEP 09
A TENDER ADDENDUM NO.1 SEP 09
- TENDER DRAWING AUG 09
CEDD
土木工程拓展署
Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - EXTERNAL WORKS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
RESTRICTED ZONE FOR CONSTRUCTION VESSELS
(Contract no: HK/2009/01)
AECOM
DRG.NO. 60041297/C1/100/10108
AS 1:6000
METRES
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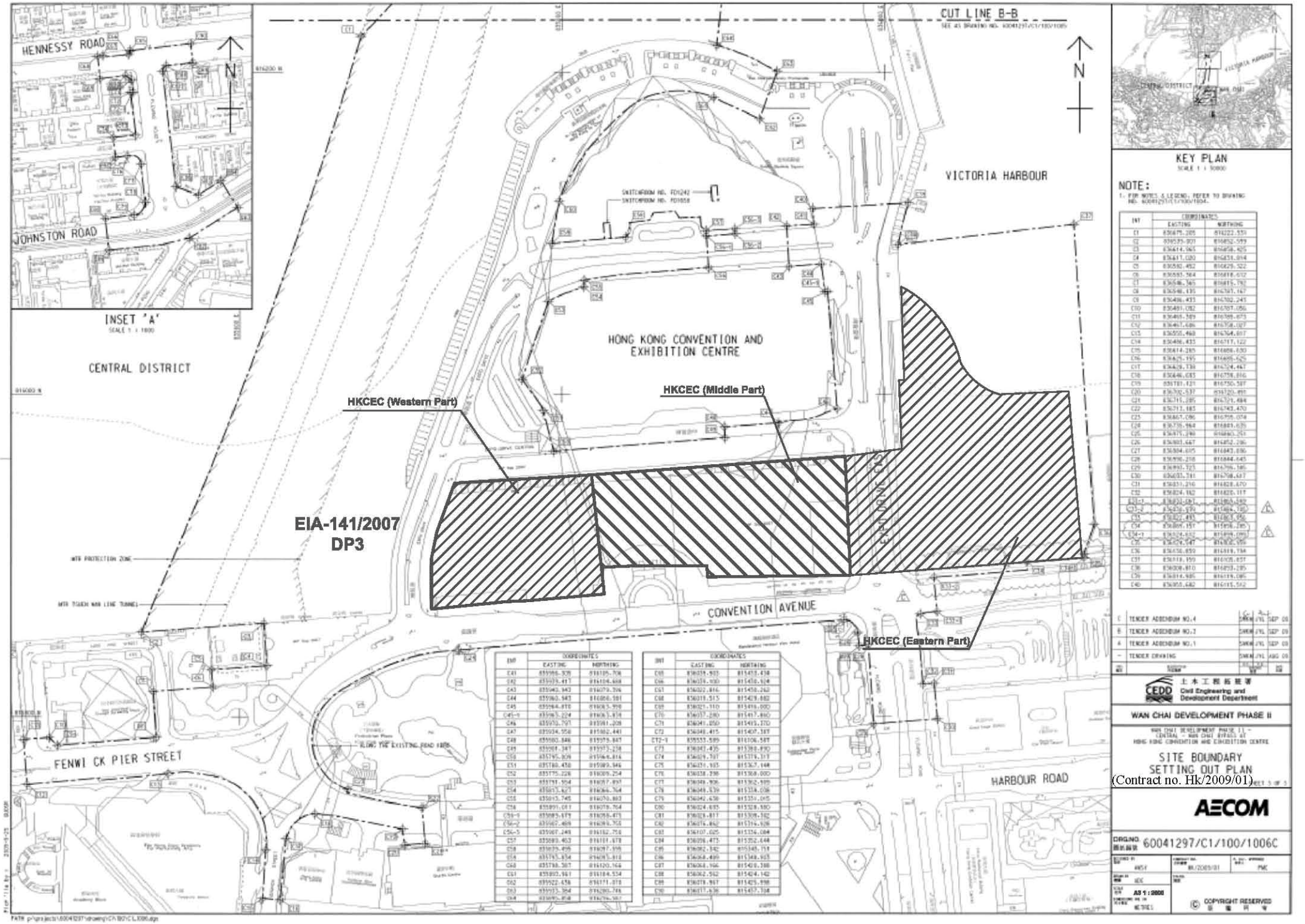
HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
CUT LINE B-B
SEE A3 DRAWING NO. 60041297/C1/100/1005
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
MTR TSUEN WAN LINE TUNNEL
CONVENTION AVENUE
FENWI CK PIER STREET
HARBOUR ROAD
KEY PLAN
SCALE 1 : 50000
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1004.
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
Civil Engineering and Development Department
AECOM
DRG.NO. 60041297/C1/100/1006C
AS 1:2000
METRES
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OVERALL WORKING SCHEDULE

ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 1 (Days 1 to 830)	830	28/01/10	06/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	146 (C)	22/05/10	19/10/10
DREDGING & LAYING OF SUBMARINE OUTFALL PIPE ON SEA	410	21/09/10	02/02/12

Stage 1 : Overall Working Sequence on Reclamation Area of WCR1 and Associated Area (Days 1 to 830)

Section of Works	A	Major Work at Area WCR1
XI	A1	Construct western and eastern temporary seawall
XI	A2	Dredging and construct new seawall
XI	A3	Reclamation to level +3.5mPD
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW
IVA, IVB, IVC V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1

Section of Works	B	Major Work in Associated Area
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations
V	B2	Construct WSD's pumping station
VI	B3	Construct connection chamber in Wan Chai East Preliminary Treatment Plant
IVA, IVB, IVC V, VI, VII	B4	Construct all drainage system, pipeworks of intakes and cooling system on public road
VI	B5	Dredging and construct the submarine outfall pipes
VIIIA	B6	Construct new Wan Chai Ferry Pier
III	B7	Construct new permanent helipad at Expo Drive
III	B8	Construct new public toilet and passenger terminal building at Expo Drive

Section of Works	C	Other Miscellaneous Works
III	C1	Construct new taxi and coach bus parking space at Expos Drive East
III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
III	C3	Road re-alignment work on existing PTI at Expo Drive
II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
III	C5	Demolition of existing above ground structure at Expo Drive
V	C6	Demolition of existing staircase of footbridge at Wan Shing Street
IXA	C7	Demolition of existing temporary helipad at ex-PCWA

Section of Works	D	Other Temporary Works
XI	D1	Divert existing 1800 mm diameter drain pipe

N

N 816230

N 816030

N 815830

GOLDEN BAUHINIA SQUARE

VICTORIA HARBOUR

RECLAMATION WORKS BY OTHERS

TUNNEL WORKS BY OTHERS

35m CLEAR SPACE

P7 P8 P9

DIRECTION OF TUNNEL WORKS

EXISTING WATER INTAKES

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

DRAINAGE DIVERSION OF 1800 PIPE

B1 B2 B3 B4 B5 B6 B7 B8

A1 A2 A3 A4 A5 A6

C1 C2 C3 C4 C6 C7

D1

0 20 40 60m

1 : 2000 SCALE BAR

REV	DATE	DESCRIPTION
C	19/05/2010	WORKING SCHEDULE UPDATED & TEMPORARY SEAWALL LAYOUT REVISED
B	14/04/2010	SECTION OF WORKS ADDED
A	08/04/2010	AS MARKED & TITLE BLOCK UPDATED

CLIENT

ENGINEER'S REPRESENTATIVE

CONTRACTOR

俊和－中國中鐵聯營
CHUN WO - CRGL JOINT VENTURE

PROJECT

CONTRACT NO. HK/2009/02
WAN CHAI DEVELOPMENT PHASE II
CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

DRAWING TITLE

DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

	DESIGN	DRAWN	CHECKED
INITIAL	-	M.S. SIN	-
DATE	-	07/04/2010	-

DRAWING NO. CWCRJV/HK200902/SK0031

REV C

SCALE 1 : 2000 (A3)

P:\01_Construction Team\CAD (sketch working)\2010_05_19 SK0031C\CWCRJV-HK200902-SK0031C.dwg, 20/5/2010 9:34:20

LEGEND:

WORKS AREA

DREDGING AREA FOR
MITGATION OF ODOUR(DP3)

SITE BOUNDARY

TCBR1E

TCBR2
AND
TCBR3

TCBR4

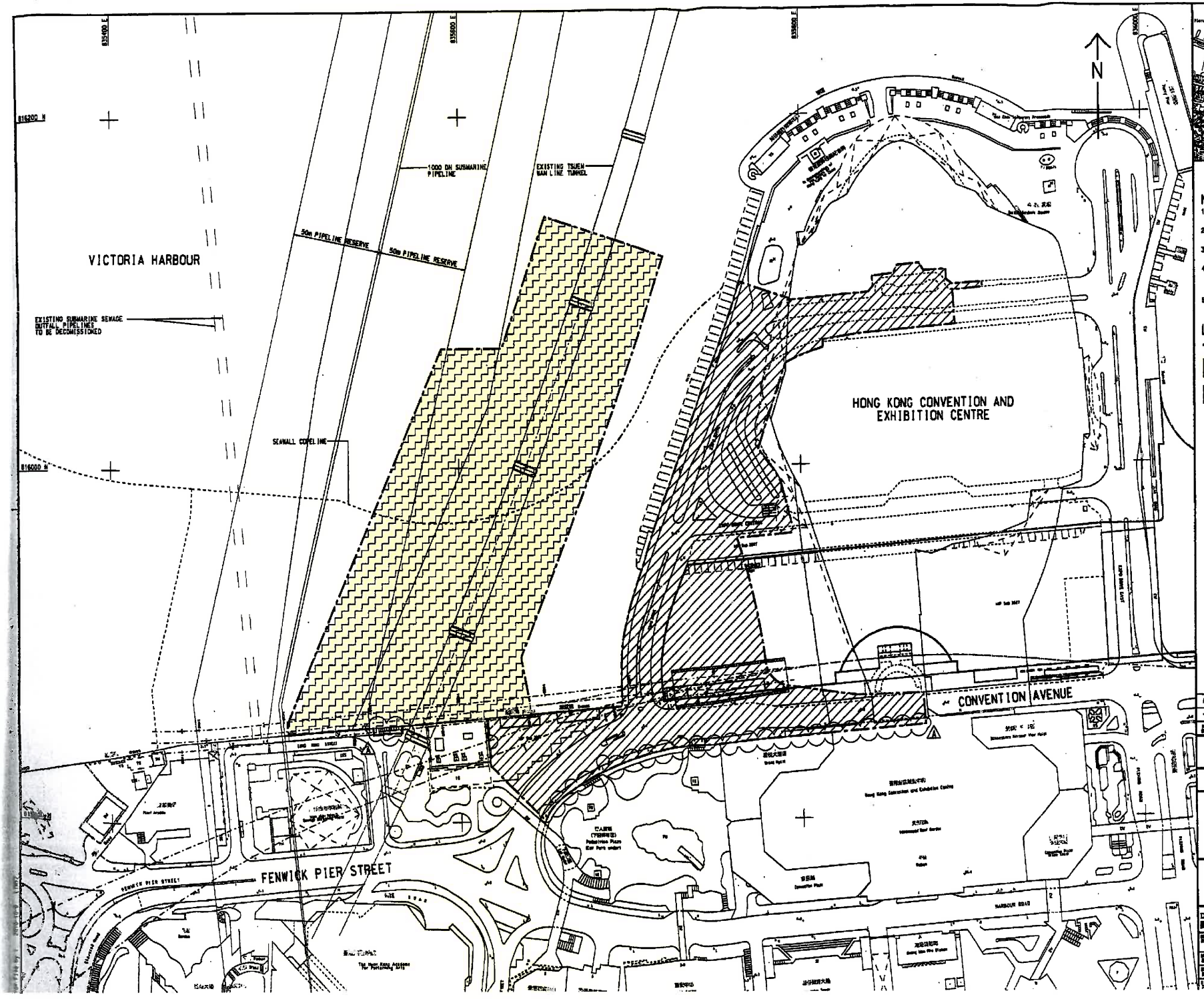
TCBR1W

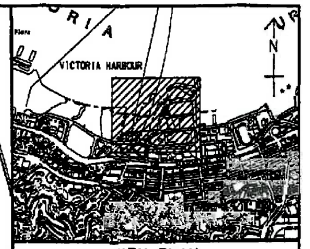
TPCWAE

TPCWAW

DP3

中國建築工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.	
Highways Department CONTRACT NO. HY/2009/15 CENTRAL–WAN CHAI BYPASS –TUNNEL (CAUSEWAY BAY TYPHOON SHELTER SECTION)	
TITLE LOCATION PLAN OF WORKS AREA	
DRG. NO. CWBT/EPD/001B	
SCALE 1:1000 @ A0	STATUS
DIMENSIONS ARE IN MILLIMETERS	COPYRIGHT RESERVED





KEY PLAN
SCALE 1 : 20000

NOTES:

1. COORDINATES ARE BASED ON HONG KONG METRIC GRID (1980) UNLESS OTHERWISE NOTED.
2. LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (HPD) UNLESS OTHERWISE NOTED.
3. DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SCALED PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
5. SITE BOUNDARY SETTING OUT POINTS SHALL REFER TO DRAWING NO. 60041297/C4/100/1201.

LEGEND:

- SITE BOUNDARY
- PORTION 1
- PORTION 2 (DELAY POSSESSION)

REV	DESCRIPTION	BY	CHK	DATE
A	TENDER ADDENDUM NO.1	SWKM	JYL	OCT 10
-	TENDER DRAWING	SWKM	JYL	SEP 10

CEDD 土木工程拓展署 Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II - CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE

PORTIONS OF THE SITE
(Contract HK/2010/06)

AECOM

DRG.NO. 60041297/C4/100/1301A

DESIGNED BY	SWKM	CONTRACT NO.	HK/2010/06
CHECKED BY	ADC	SCALE	A1 1:1000
APPROVED	TKH		

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

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Project Proponent

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Fax: 25910558

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AECOM

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Principal Resident Engineer
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Fax: 2587 1877

Engineer's Representative for CWB

AECOM

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Principal Resident Engineer
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Independent Environmental Checker

ENVIRON Hong Kong Limited

Mr. David Yeung
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HK/2009/02 Contractor

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HY/2009/11 Contractor

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HY/2009/19 Contractor

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Mr. Rayland Lee
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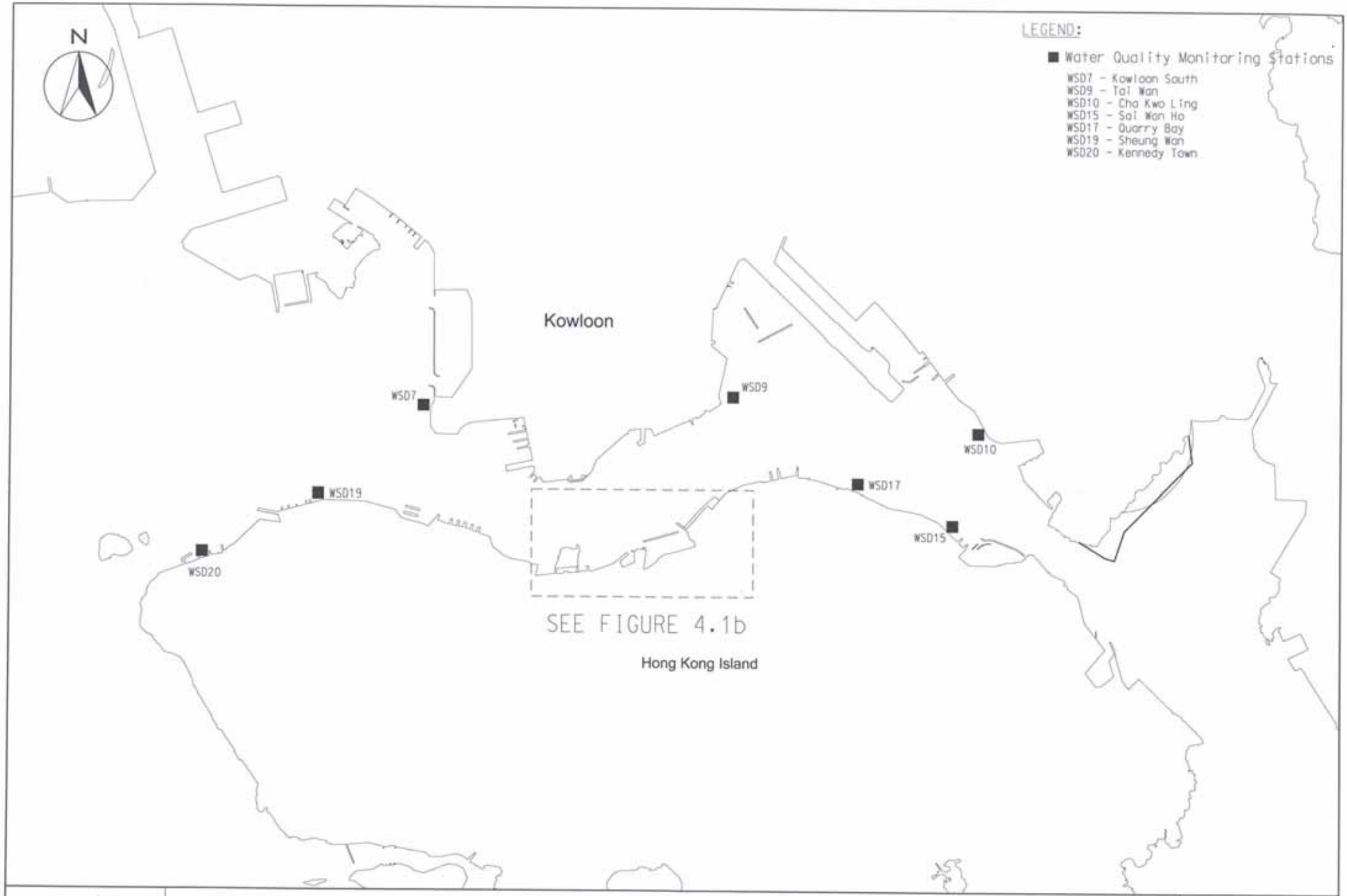
Environmental Team

Lam Geotechnics Limited

Mr. Raymond Dai
Environmental Team Leader
Tel: 2882 3939
Fax: 2882 3331

Figure 2.3

Locations of Monitoring Stations



MAUNSELL AECOM
Maunsell Consultants Asia Ltd

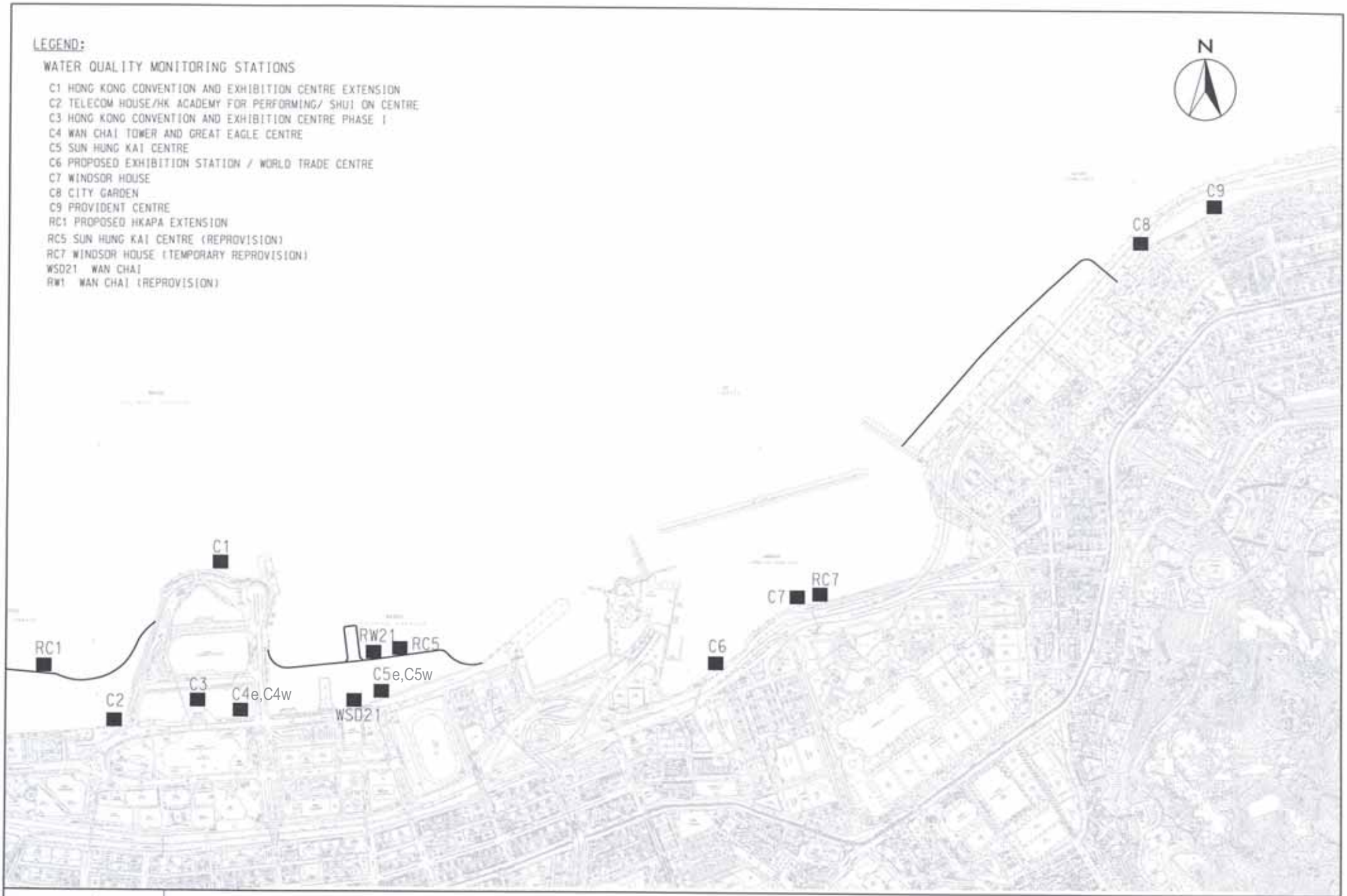
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

(SHEET 1 OF 2)

FIGURE 4.1a

P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1A.DGN SCALE: N.T.S. (A3)



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Maunsell Consultants Asia Ltd

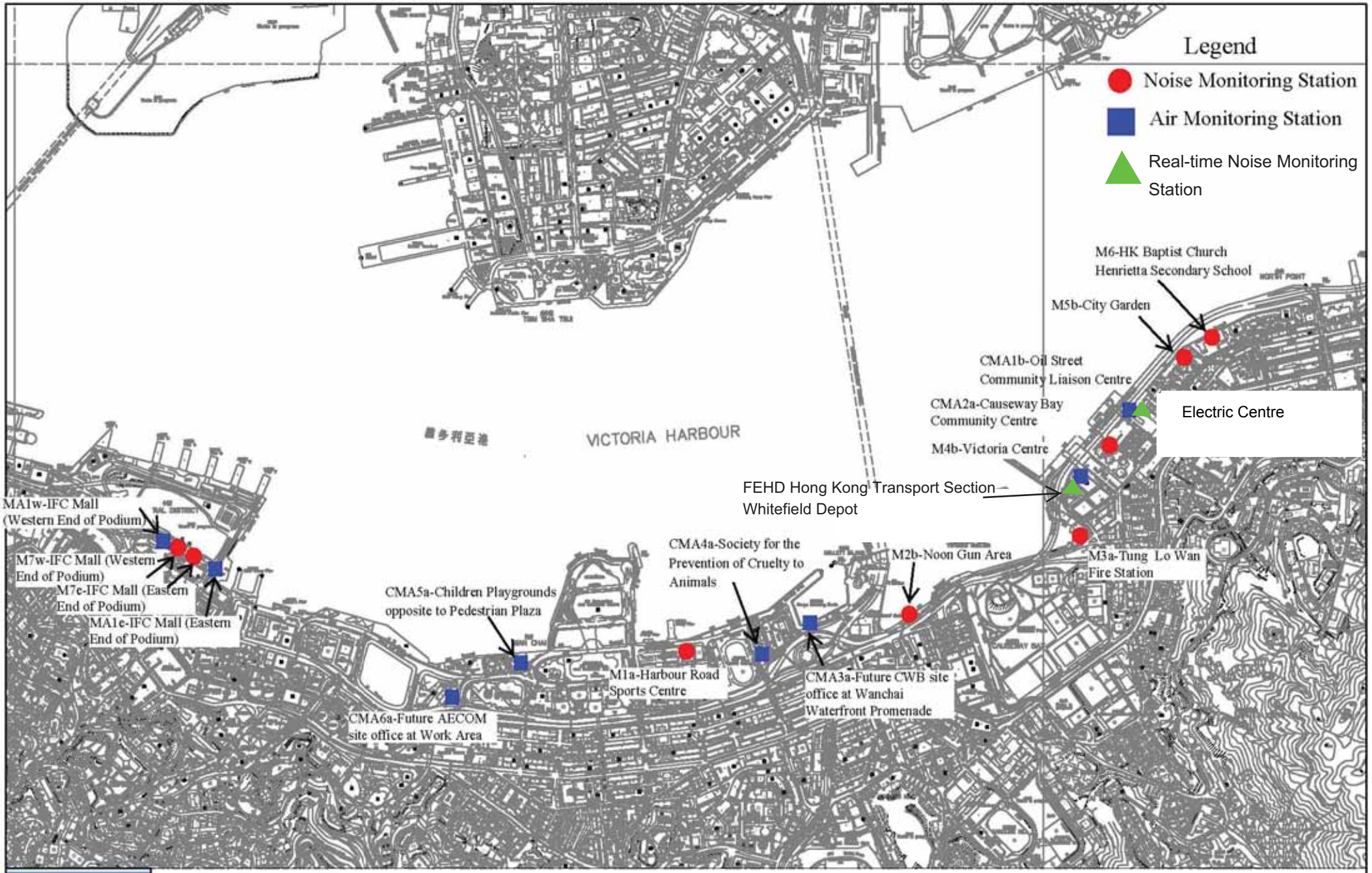
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

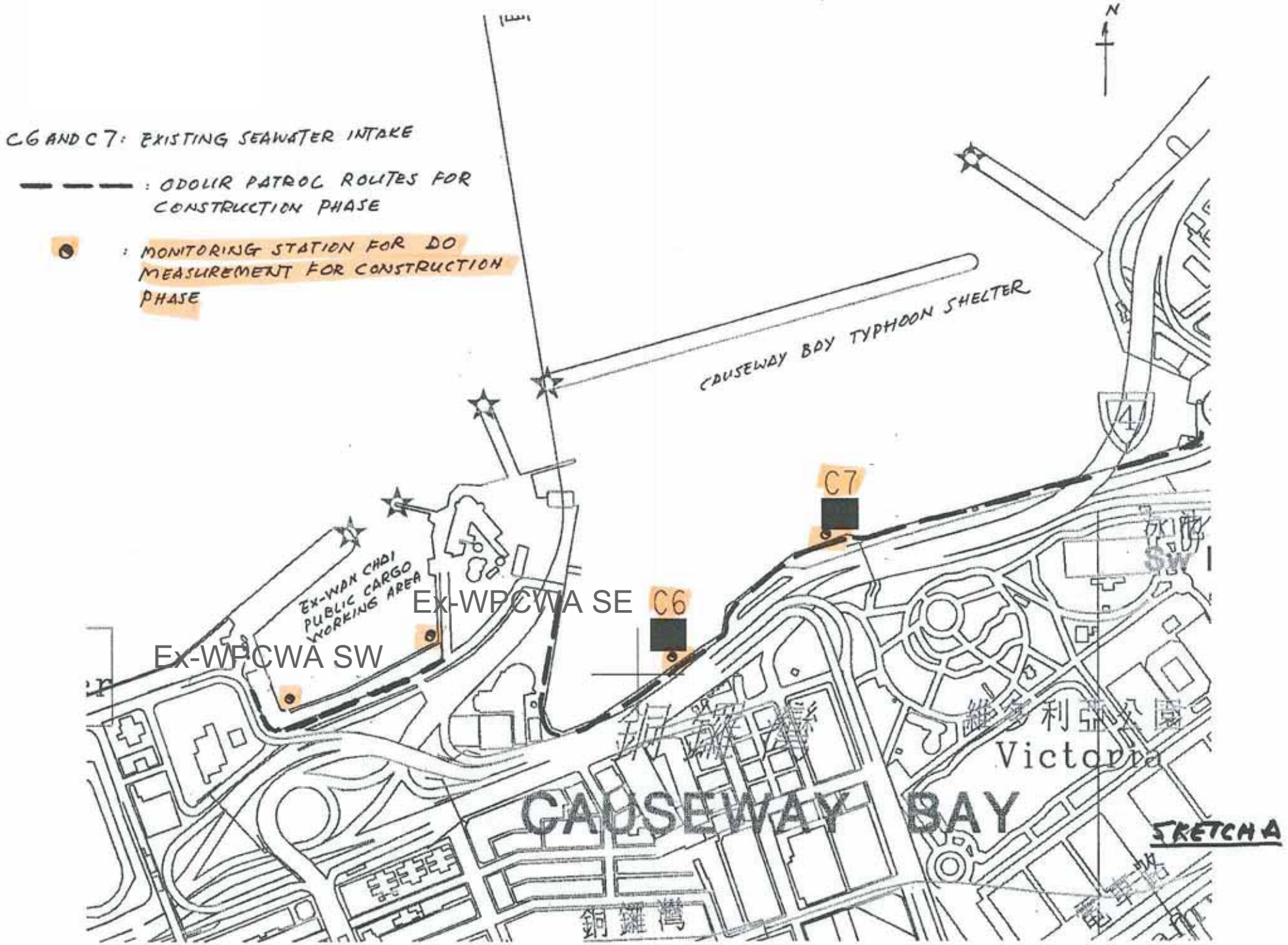
(SHEET 2 OF 2)

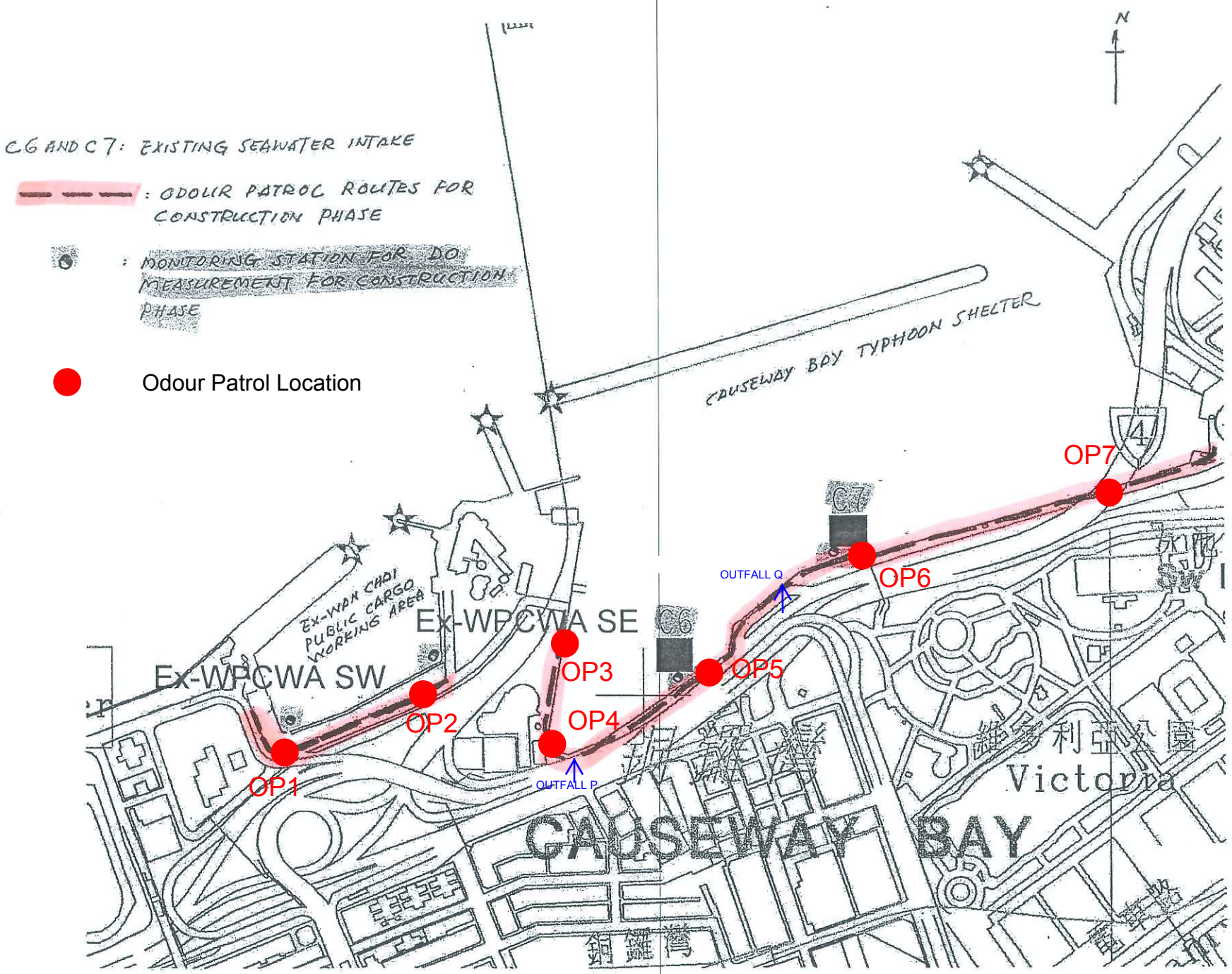
FIGURE 4.1b

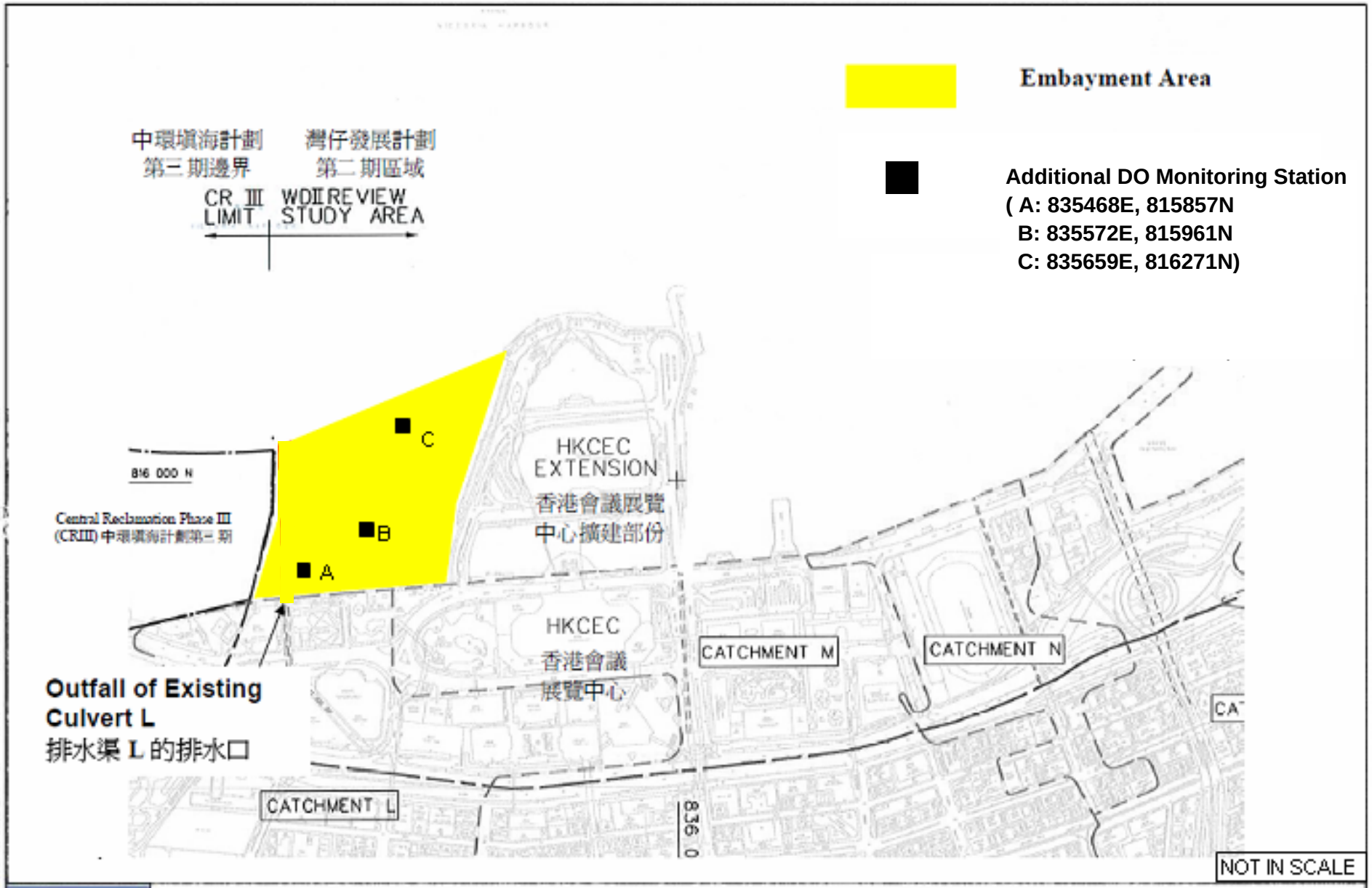
P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



Location plan of Environmental Monitoring Stations


C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
N
CAUSEWAY BAY TYPHOON SHELTER
C7
C6
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
CAUSEWAY BAY
Victoria
SKETCH A


C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL Q
C6
C7
CAUSEWAY BAY
Victoria



Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow

Appendix 3.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		√			EIAO-TM
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. • Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; • Watering during excavation and material handling; • Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	Work site / during construction	Contractor		√			

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	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]		√			EIAO-TM
Operation Phase								
For the Whole Project								

[1] CEDD will identify an implementation agent.

[2] CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on-going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD[1]			√		EIAO-TM
For DP1 – CWB (Within the Project Boundary)								
S3.6.53 – S3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			√		
S3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			√		EIAO-TM

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

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Slip road 8 tunnel • Construction of diaphragm wall and substructures of the tunnel approach ramp • Excavation • Construction of slabs • Backfill • Demolition and construction of substructures for the IEC • Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: • At-grade road construction • Substructure for IECL connection	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
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		√			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		√			EIAO-TM, NCO

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC • low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour	Near North Point / Before commencement of operation of road project	HyD	√	√	√		EIAO-TM
	For Future/Planned NSRs • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	√	√ #			

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

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

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: • Seawall construction in all the reclamation areas; • Construction of the CWB Tunnel • Construction of the proposed WSD water mains; and • Construction of the proposed Wan Chai East sewage outfall pipelines.	Work site / During the construction period	Contractor		√			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		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			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		√			EIAO-TM, WPCO

Reclamation Area		Maximum Dredging Rate		Maximum Dredging Rate (m^3 per week)
		m^3 per day	m^3 per hour (for 16 hrs per day)	
Dredging along seawall or breakwater				
North Point Shoreline Zone (NPR)		6,000	375	42,000
Causeway Bay Shoreline Zone	TBW	1,500	94	10,500
	TCBR	6,000	375	42,000
PCWA Zone		5,000	313	35,000

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<table><tr><td colspan="2">Wan Chai Shoreline Zone (WCR)</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td rowspan="2">HKCEC Shoreline Zone (HKCEC)</td><td>HKCEC Stage 1 & 3</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td>HKCEC Stage 2</td><td>6,000</td><td>375</td><td>42,000</td></tr><tr><td colspan="2">Cross Harbour Water Mains</td><td>1,500</td><td>94</td><td>10,500</td></tr><tr><td colspan="2">Wan Chai East Submarine Sewage Pipeline</td><td>1,500</td><td>94</td><td>10,500</td></tr></table> Note: 1,500 m^3 per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m^3 per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below: <table><tr><th>Interim Construction Stage</th><th>Location of Applications</th></tr><tr><td>**Scenario 2A** in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA, TBW, NP and Water Mains Zone</td><td>**WSD saltwater intakes** at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South **Cooling water intakes** for Hong Kong Convention and Exhibition Centre Extension, Hong Kong Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre</td></tr><tr><td>**Scenario 2B** in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.</td><td>**WSD saltwater intakes** at Sheung Wan, Wan Chai **Cooling water intakes** for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.</td></tr><tr><td>**Scenario 2C** in 2011 with concurrent dredging activities at HKCEC and TCBR.</td><td>**WSD saltwater intakes** at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. **Cooling water intakes** for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.</td></tr></table>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Other mitigation measures include: • mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used; • all vessels 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	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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 rate shall be reduced as much as practicable. Site audit and water quality monitoring shall be carried out at the seawater intakes during the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Implementation of harbour-front enhancement.	CEDD[3]		√			WPCO

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

[3] 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)
Monthly EM&A Report

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	*Storm Water Discharges* Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
Operation Phase								
DP1 – CWB (within the Project Boundary)								
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. • 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,	CWB/During design and operational period	HyD/TD[3]	√		√		WPCO

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

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

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works								
S6.7.2	***Marine Sediments*** The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 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.							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	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							
S6.7.6	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: • Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	• Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. • Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.							
S6.6.12	***Floating Refuse*** During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		√			
For the Whole Project								

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	*Chemical Wastes* After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	*Construction and Demolition Material* C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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		√			ETWB TCW No. 31/2004
S6.7.14	*Bentonite Slurry* The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole 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	√				"*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	√				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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

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

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

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

Table A13.6 Implementation Schedule for Marine Ecology

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

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

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP6 – Cross-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		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phase								
For the Whole Project - Schedule 3 DP								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		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	√	√	√		ETWB TCW 2/2004

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
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/	√	√	√		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[4]	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
For DP1 – CWB (Within the Project Boundary)								
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	√	√	√		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	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		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	HyD	√	√	√		ETWB TCW 2/2004
For DP2 – WDII Major Roads (Road P2)								

[4] CEDD will identify an implementation agent

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	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		√	√		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		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
For DP3 – Reclamation 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]	√	√	√		ETWB TCW 2/2004

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

[5] CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A)[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 $\mu g/m^3$		24-hour TSP Level in $\mu g/m^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b [Note 2]	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a [Note 2]	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
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 Season		Wet Season	
	Action	Limit	Action	Limit
WSD Salt Water Intake				
SS in mg L^{-1}	13.00	14.43	16.26	19.74
Turbidity in NTU	8.04	9.49	10.01	11.54
DO in mg/L	3.66	3.28	3.17	2.63
Cooling Water Intake				
SS in mg L^{-1}	15.00	22.13	18.42	27.54
Turbidity in NTU	9.10	10.25	11.35	12.71
DO in mg/L	3.36	2.73	3.02	2.44

Remarks:

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

Action and Limit Levels for Odour Patrol

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

Appendix 4.2

Copies of Calibration Certificates

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 23551 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

Address : 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No. : Q21462 **Date of receipt :** 11-Jun-12

Item Tested

Description : Digital Sound Level Meter

Manufacturer : B&K

Model : Type 2236 **Serial No. :** 2100736

Test Conditions

Date of Test : 12-Jun-12 **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 1260 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	15136	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 : P. F. Wong

Approved by : Dorothy Cheuk

Date: 12-Jun-12

This Certificate is issued by:
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

E

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Parameter	Frequency Wt.	Freq. Response		
20 - 100	SPL	dBA	F	94.0	93.8
			S		93.8
		dBC	F		93.9
		dBL	F		93.9
		1 kHz	F		93.9
40 - 120	SPL	dBA	F	94.0	93.9
		1 kHz	F		94.0
	SPL	dBA	F	114.0	114.0
			S		114.0
		dBC	F		114.0
		dBL	F		114.1
		1 kHz	F		114.0

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB
Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.8	-0.1	± 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	
90	64.0	63.9	0.0	
90	54.0	53.9	0.0	

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	- -	
	95.0	94.8	-0.1	± 0.2 dB

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.4	- 39.4 dB, ± 1.5 dB
63 Hz	-26.1	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1 dB
250 Hz	-8.6	- 8.6 dB, ± 1 dB
500 Hz	-3.2	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+1.0	+ 1.0 dB, ± 1 dB
8 kHz	-1.1	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.7	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 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 : ± 0.1 dB

Calibration Certificate

6. Filter Response

Filter Setting	Attenuation (dB)	IEC 1260 Class 1 Spec.
125 Hz	-63.5	< - 61
250 Hz	-44.7	< - 42
500 Hz	-20.8	< - 17.5
707 Hz	-3.5	- 2 ~ - 5
1 kHz (Ref.)	0.0 (Ref.)	--
1.414 kHz	-3.9	- 2 ~ - 5
2 kHz	-21.2	< - 17.5
4 kHz	-44.9	< - 42
8 kHz	-63.7	< - 61

Uncertainty : ± 0.2 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 992 hPa

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. **25144** Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

Address : 11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong.

Order No. : Q22033 **Date of receipt :** 2-Aug-12

Item Tested

Description : Sound Level Calibrator

Manufacturer : B & K

Model : Type 4230 **Serial No. :** 1411076

Test Conditions

Date of Test : 10-Aug-12 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	13535	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	15136	NIM-PRC & SCL-HKSAR
S041	Universal Counter	15610	SCL-HKSAR
S191	6½ dgt. Multimeter	20033	NIM-PRC

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 : Stephen Chu

Approved by : Dorothy Cheuk

Date: 10-Aug-12

This Certificate is issued by:
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

Calibration Certificate

Certificate No. 25144

Results :

1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	93.96	± 0.3 dB

Uncertainty : ± 0.2 dB

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.000 kHz	± 2 %

Uncertainty : $\pm 3.6 \times 10^{-6}$

3. Level Stability : 0.0 dB
IEC 942 Class 1 Spec. : ± 0.1 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 1.5 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The above measured values are the mean of 3 measurement.
3. The uncertainty claimed is for a confidence probability of not less than 95%.
4. Atmospheric Pressure : 995 hPa.

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

CASTCO
佳力高試驗中心有限公司
CASTCO TESTING CENTRE LTD.

TEST REPORT
Performance Check / Calibration of Turbidity Meter

Date of issue : 04-10-2012
Page 1 of 1 page(s)
Castco LRN: EN0120924-1

Sample details as supplied by customer:-

Customer: Lam Geotechnics Ltd.
Customer Ref. No.: --

Address: 11/F., Centre Point, 181-185 Gloucester Rosd, Wanchai, Hong Kong
Contract No.: --

Job Title: --

Sample Identification No.: --
Date Sampled: --

Laboratory Test Results:-

Date of sample received: 24-09-2012
Test period: 26-09-2012

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	Method
0	0.01	--	ENV-WAT-TUR
4	3.95	-1.2	
40	37.0	-7.5	
80	76.1	-4.9	
400	393	-1.8	
800	814	+1.8	

Remark(s):
1. Test results only relate to the specimen tested.
2. Compliance requirement : Tolerance Limit ± 10.0%.
3. Turbidity meter model No.: Turb 430T.
4. Turbidity meter serial No.: 12220419.
5. Next Calibration due date: 26-12-2012.
6. Reference method: APHA 21st Ed. 2130B (Nephelometric method).

Checked by : _____
Li Yiu Wah

Certified by : _____
MA HIU TUNG
Assistant Technical Manager

End of Report

Form No. ENV CAL Tur T1 dd 26/06/2012

香港粉嶺安居街33號 33, On Kui Street, Fanling, Hong Kong. Tel : 2677 2138
香港粉嶺安全街29A號 29A, On Chuen Street, Fanling, Hong Kong. Fax: 2677 0351
E-mail: castco@netvigator.com Website: www.castco.com.hk

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS EMILY KONG	**WORK ORDER:**	HK1229570
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	07/11/2012
		DATE OF ISSUE:	12/11/2012
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
Description:	Multimeter
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	11F100420
Equipment No.:	--
Date of Calibration:	12 November, 2012

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: 852-2610 1044
Fax: 852-2610 2021
Email: hongkong@alsglobal.com

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1229570
Date of Issue: 12/11/2012
Client: LAM GEOTECHNICS LIMITED

Description: Multimeter
Brand Name: YSI
Model No.: YSI Professional Plus
Serial No.: 11F100420
Equipment No.: --
Date of Calibration: 12 November, 2012 Date of next Calibration: 12 February, 2013

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.22	2.20	-0.02
5.18	4.98	-0.20
7.78	7.78	0.00
	Tolerance Limit (±mg/L)	0.20

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.98	-0.02
7.0	7.11	0.11
10.0	9.94	-0.06
	Tolerance Limit (±unit)	0.20

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.79	-2.1
20	19.56	-2.2
30	29.23	-2.6
	Tolerance Limit (±%)	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)
12.0	11.9	-0.1
21.0	20.9	-0.1
40.0	40.3	0.3
	Tolerance Limit (°C)	2.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

TISCH ENVIROMENTAL, INC.
145 SOUTH MIAMI AVE.
VILLAGE OF CLEVES, OH 45002
513.467.9000
877.263.7610 TOLL FREE
513.467.9009 FAX
WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 19, 2012 Rootsmeter S/N 0438320 Ta (K) - 298
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 751.84

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3840	3.2	2.00
2	NA	NA	1.00	0.9760	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8340	8.8	5.50
5	NA	NA	1.00	0.6890	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9850	0.7117	1.4066		0.9957	0.7194	0.8903
0.9809	1.0050	1.9892		0.9915	1.0159	1.2591
0.9788	1.1212	2.2240		0.9894	1.1333	1.4078
0.9777	1.1723	2.3326		0.9883	1.1850	1.4765
0.9725	1.4115	2.8132		0.9831	1.4268	1.7807
Qstd slope (m) =		2.01145		Qa slope (m) =		1.25953
intercept (b) =		-0.02803		intercept (b) =		-0.01774
coefficient (r) =		0.99995		coefficient (r) =		0.99995
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL452	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	301 Kelvin	**Pressure, P_a**	1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3\times298/T_a)^{1/2}/35.31$) **Y-axis**
1	6.1	6.1	12.2	1.7389	62	61.5897
2	5.0	5.0	10.0	1.5757	55	54.6360
3	4.1	4.1	8.2	1.4281	48	47.6824
4	2.5	2.5	5.0	1.1182	36	35.7618
5	1.4	1.4	2.8	0.8403	25	24.8346

By Linear Regression of Y on X

Slope, m = 40.7641 Intercept, b = -9.7338

Correlation Coefficient* = 0.9994

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL452	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.0	6.0	12.0	1.7489	62	62.4588
2	5.0	5.0	10.0	1.5977	55	55.4070
3	4.0	4.0	8.0	1.4305	47	47.3478
4	2.5	2.5	5.0	1.1338	35	35.2590
5	1.5	1.5	3.0	0.8814	24	24.1776

By Linear Regression of Y on X

Slope, m	=	43.8163	Intercept, b	=	-14.5928
Correlation Coefficient*	=	0.9996			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL380	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7389	57	56.6228
2	5.0	5.0	10.0	1.5757	52	51.6559
3	3.8	3.8	7.6	1.3754	45	44.7022
4	2.4	2.4	4.8	1.0959	35	34.7684
5	1.5	1.5	3.0	0.8693	27	26.8213

By Linear Regression of Y on X

Slope, m = 34.5420 Intercept, b = -3.0633

Correlation Coefficient* = 0.9997

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL380	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.1	6.1	12.2	1.7633	60	60.4440
2	5.1	5.1	10.2	1.6135	53	53.3922
3	3.9	3.9	7.8	1.4127	46	46.3404
4	2.4	2.4	4.8	1.1112	34	34.2516
5	1.5	1.5	3.0	0.8814	24	24.1776

By Linear Regression of Y on X

Slope, m	=	40.4247	Intercept, b	=	-11.1112
Correlation Coefficient*	=	0.9994			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL390	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7389	60	59.6030
2	5.0	5.0	10.0	1.5757	53	52.6493
3	3.8	3.8	7.6	1.3754	44	43.7088
4	2.4	2.4	4.8	1.0959	34	33.7750
5	1.4	1.4	2.8	0.8403	23	22.8478

By Linear Regression of Y on X

Slope, m = 40.4660 Intercept, b = -11.1111

Correlation Coefficient* = 0.9994

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL390	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.1	6.1	12.2	1.7633	62	62.4588
2	5.0	5.0	10.0	1.5977	54	54.3996
3	3.9	3.9	7.8	1.4127	46	46.3404
4	2.5	2.5	5.0	1.1338	34	34.2516
5	1.4	1.4	2.8	0.8520	22	22.1628

By Linear Regression of Y on X

Slope, m	=	43.9604	Intercept, b	=	-15.5072
Correlation Coefficient*	=	0.9998			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL888	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	6.1	6.1	12.2	1.7389	50	49.6691
2	4.7	4.7	9.4	1.5281	42	41.7221
3	4.0	4.0	8.0	1.4108	38	37.7485
4	2.4	2.4	4.8	1.0959	24	23.8412
5	1.4	1.4	2.8	0.8403	14	13.9074

By Linear Regression of Y on X

Slope, m = 40.2808 Intercept, b = -19.9065

Correlation Coefficient* = 0.9994

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL888	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.1	6.1	12.2	1.7633	52	52.3848
2	4.8	4.8	9.6	1.5657	43	43.3182
3	4.1	4.1	8.2	1.4481	38	38.2812
4	2.4	2.4	4.8	1.1112	24	24.1776
5	1.5	1.5	3.0	0.8814	15	15.1110

By Linear Regression of Y on X

Slope, m	=	42.1310	Intercept, b	=	-22.3882
Correlation Coefficient*	=	0.9997			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL449	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3\times298/T_a)^{1/2}/35.31$) **Y-axis**
	(up)	(down)	(difference)			
1	6.0	6.0	12.0	1.7247	53	52.6493
2	5.0	5.0	10.0	1.5757	45	44.7022
3	4.0	4.0	8.0	1.4108	38	37.7485
4	2.5	2.5	5.0	1.1182	26	25.8279
5	1.5	1.5	3.0	0.8693	15	14.9007

By Linear Regression of Y on X

Slope, m = 43.3273 Intercept, b = -22.8822

Correlation Coefficient* = 0.9992

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL449	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.0	6.0	12.0	1.7489	55	55.4070
2	4.9	4.9	9.8	1.5818	47	47.3478
3	3.9	3.9	7.8	1.4127	39	39.2886
4	2.5	2.5	5.0	1.1338	26	26.1924
5	1.5	1.5	3.0	0.8814	15	15.1110

By Linear Regression of Y on X

Slope, m	=	46.5380	Intercept, b	=	-26.2367
Correlation Coefficient*	=	0.9998			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	16-Oct-12
Equipment no.	:	EL448	**Calbration Due Dat**	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3\times298/T_a)^{1/2}/35.31$) **Y-axis**
	(up)	(down)	(difference)			
1	6.0	6.0	12.0	1.7247	61	60.5963
2	5.0	5.0	10.0	1.5757	54	53.6427
3	4.0	4.0	8.0	1.4108	46	45.6956
4	2.5	2.5	5.0	1.1182	34	33.7750
5	1.5	1.5	3.0	0.8693	23	22.8478

By Linear Regression of Y on X

Slope, m = 43.8163 Intercept, b = -15.3916

Correlation Coefficient* = 0.9996

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	16-Oct-12	**Date**	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	15-Dec-12
Equipment no.	:	EL448	**Calbration Due Dat**	:	15-Feb-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1018	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.0	6.0	12.0	1.7489	59	59.4366
2	5.0	5.0	10.0	1.5977	52	52.3848
3	4.1	4.1	8.2	1.4481	46	46.3404
4	2.5	2.5	5.0	1.1338	35	35.2590
5	1.5	1.5	3.0	0.8814	25	25.1850

By Linear Regression of Y on X

Slope, m	=	38.7082	Intercept, b	=	-8.9987
Correlation Coefficient*	=	0.9991			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam	**Checked by**	:	Derek Lo
Date	:	15-Dec-12	**Date**	:	15-Dec-12

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 (Stage2)

Tentative Environmental Monitoring Schedule
December 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Nov	26-Nov	27-Nov	28-Nov Impact WQM Mid-flood: 17:27	29-Nov Noise (Daytime) Impact WQM Mid-ebb: 0:27	30-Nov Impact WQM Mid-flood: 18:01	1-Dec 24hr TSP Impact WQM Mid-ebb: 1:13
2-Dec	3-Dec 24hr TSP (CMA6a) 1hr TSP Impact WQM Mid-ebb: 2:07 Mid-flood: 9:51	4-Dec Noise (Daytime)	5-Dec Impact WQM Mid-ebb: 3:23 Mid-flood: 11:30	6-Dec	7-Dec 24hr TSP Impact WQM Mid-ebb: 5:07 Mid-flood: 13:07	8-Dec 1hr TSP
9-Dec	10-Dec Impact WQM Mid-ebb: 9:30 Mid-flood: 15:16	11-Dec Noise (Daytime)	12-Dec Impact WQM Mid-flood: 16:45 Mid-ebb: 23:37	13-Dec 24hr TSP	14-Dec 24hr TSP (CMA2a) 1hr TSP	15-Dec Impact WQM Mid-ebb: 1:14 Mid-flood: 8:27
16-Dec	17-Dec Noise (Daytime)	18-Dec 24hr TSP Impact WQM Mid-ebb: 3:33 Mid-flood: 10:48	19-Dec 1hr TSP	20-Dec Impact WQM Mid-ebb: 5:01 Mid-flood: 12:23	21-Dec	22-Dec 24hr TSP Impact WQM Mid-flood: 13:52 Mid-ebb: 21:12
23-Dec	24-Dec 24hr TSP (CMA3a) 1hr TSP Impact WQM Mid-flood: 15:10 Mid-ebb: 22:39	25-Dec	26-Dec Impact WQM Mid-flood: 16:18 Mid-ebb: 23:42	27-Dec Noise (Daytime)	28-Dec 24hr TSP Impact WQM Mid-flood: 17:26	29-Dec 1hr TSP Impact WQM Mid-ebb: 0:42

Updated date: 2/1/2013

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
January 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-Dec	**31-Dec** Impact WQM Mid-ebb: 1:43 Mid-flood: 8:42	1-Jan	2-Jan Impact WQM Mid-ebb: 2:42 Mid-flood: 9:55	3-Jan 24hr TSP Noise (Daytime)	4-Jan 1hr TSP	5-Jan Impact WQM Mid-flood: 12:06 Mid-ebb: 18:30
6-Jan	7-Jan Impact WQM Mid-flood: 13:41 Mid-ebb: 20:53	8-Jan Noise (Daytime)	9-Jan 24hr TSP Impact WQM Mid-flood: 15:31 Mid-ebb: 22:41	10-Jan 1hr TSP	11-Jan Impact WQM Mid-flood: 17:20	12-Jan Impact WQM Mid-ebb: 0:19
13-Jan	14-Jan Impact WQM Mid-flood: 8:48 Mid-ebb: 14:25	15-Jan 24hr TSP Noise (Daytime)	16-Jan 1hr TSP Impact WQM Mid-flood: 10:03 Mid-ebb: 15:55	17-Jan	18-Jan Impact WQM Mid-flood: 11:22 Mid-ebb: 17:44	19-Jan
20-Jan	21-Jan 24hr TSP Impact WQM Mid-flood: 13:17 Mid-ebb: 21:40	22-Jan 1hr TSP	23-Jan Impact WQM Mid-flood: 10:35 Mid-ebb: 22:52	24-Jan Noise (Daytime)	25-Jan Impact WQM Mid-flood: 16:34 Mid-ebb: 23:54	26-Jan 24hr TSP
27-Jan						

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

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/12	10:25	Cloudy	72.6	75.0	68.0	72	62	75
04/12/12	10:44	Cloudy	72.8	75.5	68.5	72	64	75
11/12/12	10:05	Fine	72.5	75.5	66.5	72	61	75
17/12/12	9:55	Fine	73.3	76.0	69.0	72	67	75
27/12/12	10:25	Cloudy	71.6	74.5	66.0	72	72	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/12	11:00	Cloudy	73.1	76.0	69.5	68	72	75
04/12/12	11:27	Cloudy	71.3	75.0	67.0	68	69	75
11/12/12	10:50	Fine	72.6	77.0	68.0	68	71	75
17/12/12	10:35	Fine	75.1	77.5	70.5	68	74	75
27/12/12	11:10	Cloudy	73.5	76.5	69.0	68	72	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/12	13:00	Cloudy	67.1	69.0	64.0	69	67	75
04/12/12	13:00	Cloudy	67.3	69.0	64.5	69	67	75
11/12/12	11:03	Fine	66.9	68.0	63.5	69	67	75
17/12/12	11:25	Fine	69.4	71.0	67.0	69	61	75
27/12/12	13:00	Cloudy	67.2	69.0	64.5	69	67	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/12	13:40	Cloudy	70.7	72.0	68.0	67	68	75
04/12/12	13:40	Cloudy	72.0	73.0	69.5	67	70	75
11/12/12	13:35	Fine	70.9	72.0	68.5	67	68	75
17/12/12	13:00	Fine	73.3	74.5	71.0	67	72	75
27/12/12	13:40	Cloudy	75.5	79.5	69.5	67	75	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/12	14:40	Cloudy	72.6	74.0	70.0	68	71	75
04/12/12	14:20	Cloudy	70.1	70.5	69.0	68	66	75
11/12/12	14:30	Fine	74.3	76.5	69.5	68	73	75
17/12/12	13:40	Fine	71.0	72.0	70.0	68	68	75
27/12/12	14:25	Cloudy	71.7	73.0	67.0	68	69	75

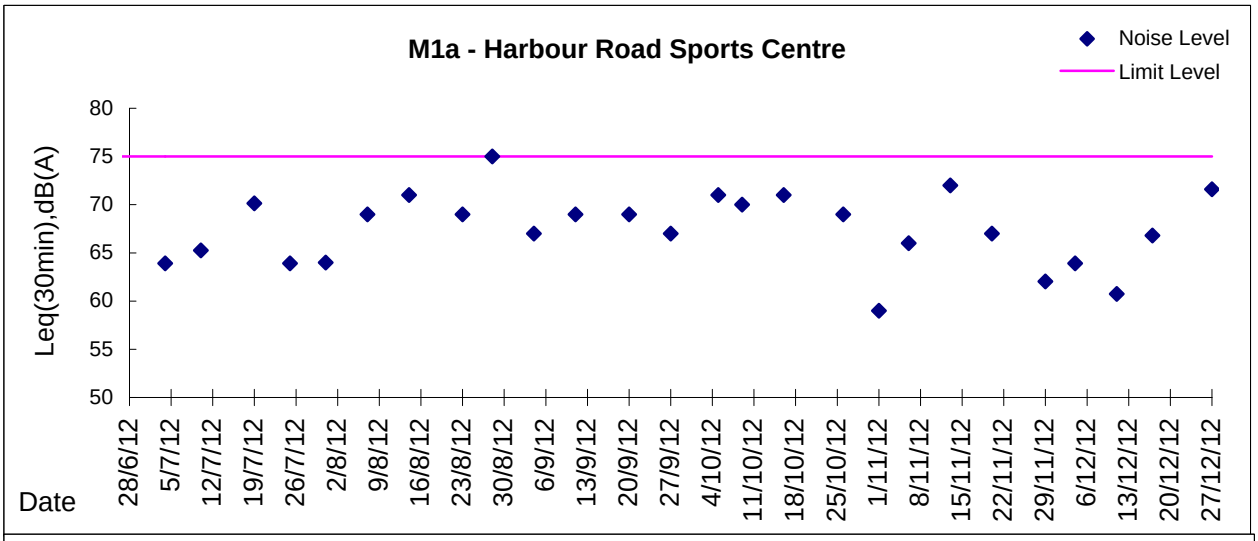
Location: M6 - HK Baptist Church Henrietta Secondary School

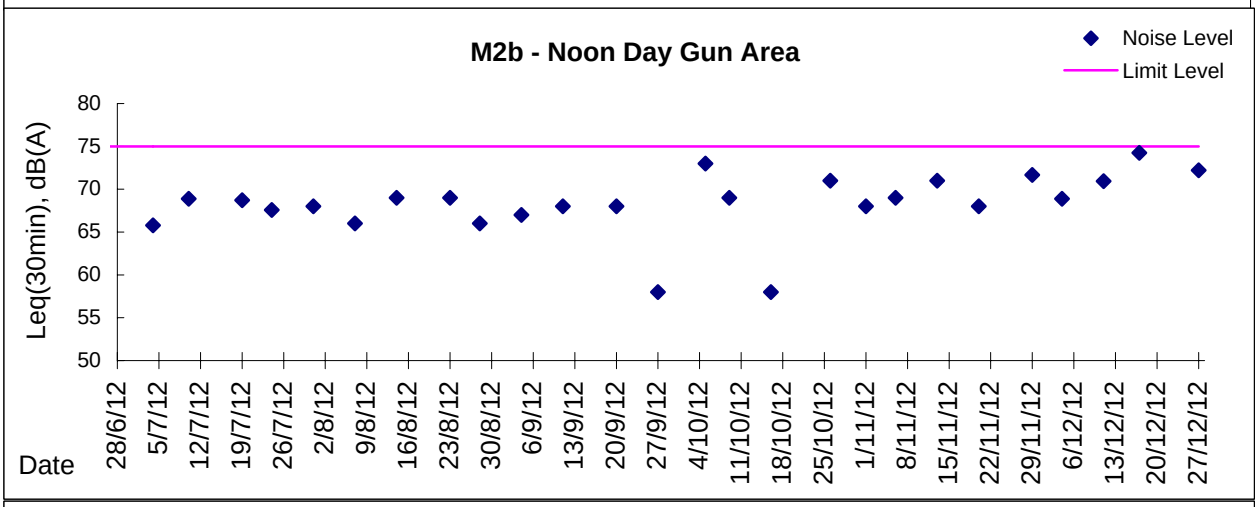
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/12	15:25	Cloudy	74.8	76.0	73.0	71	73	70
04/12/12	15:10	Cloudy	73.4	74.3	71.3	71	70	70
11/12/12	15:00	Fine	74.0	75.2	72.5	71	71	65
17/12/12	14:30	Fine	73.7	76.0	71.5	71	71	65
27/12/12	15:00	Cloudy	75.1	76.0	73.0	71	73	70

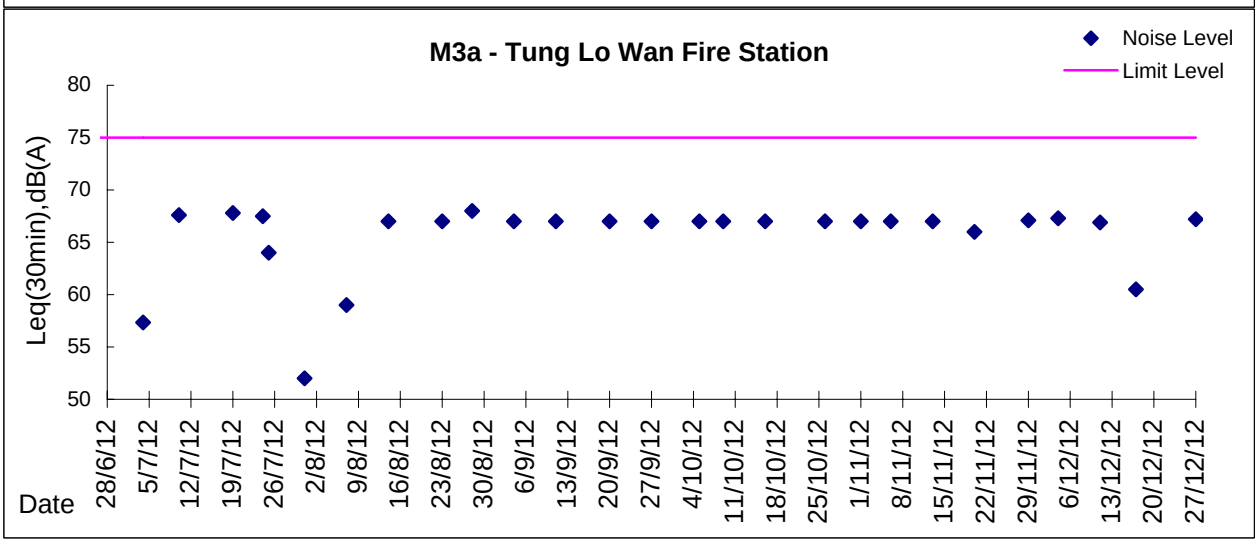
*Remarks:The limit level for M6 was adjusted from 70 dB(A) to 65 dB(A) from 7 Dec 2012 to 20 Dec 2012 during examination period.

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

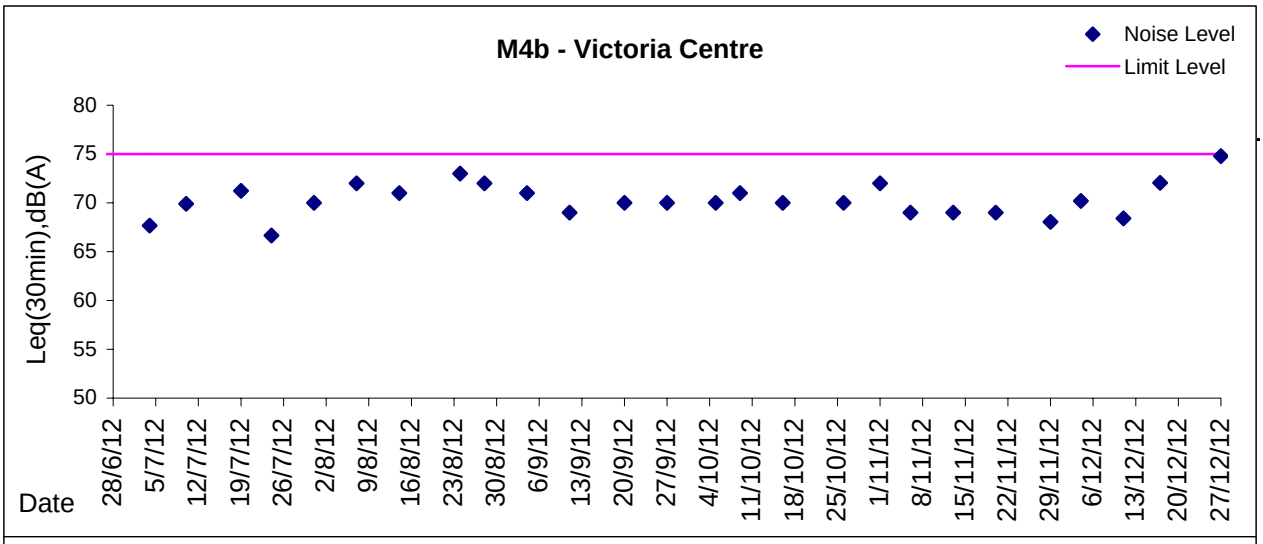


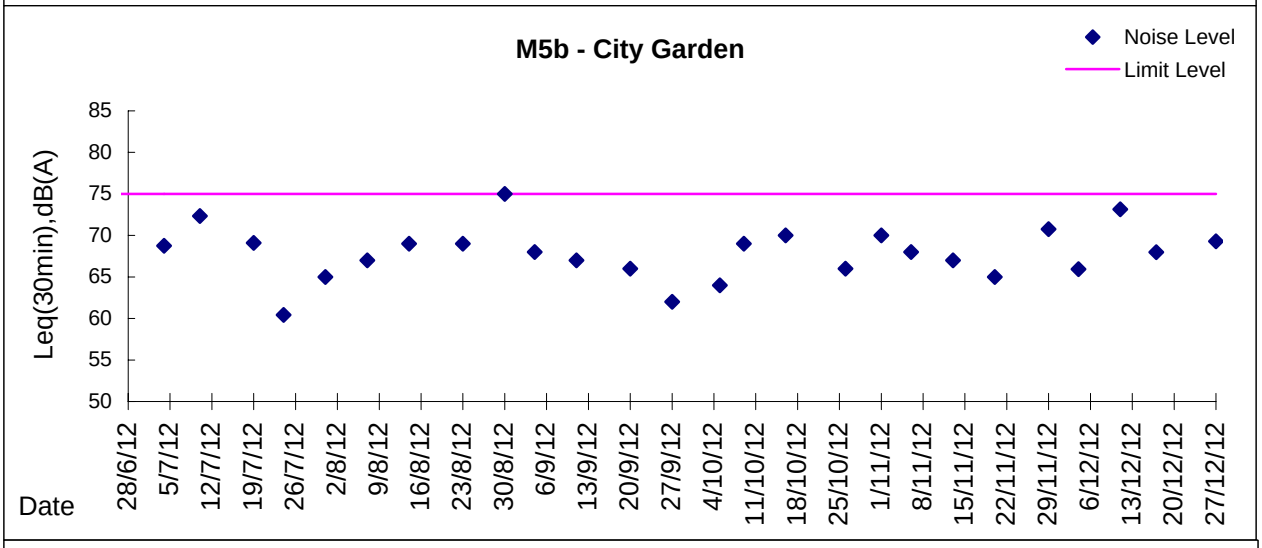


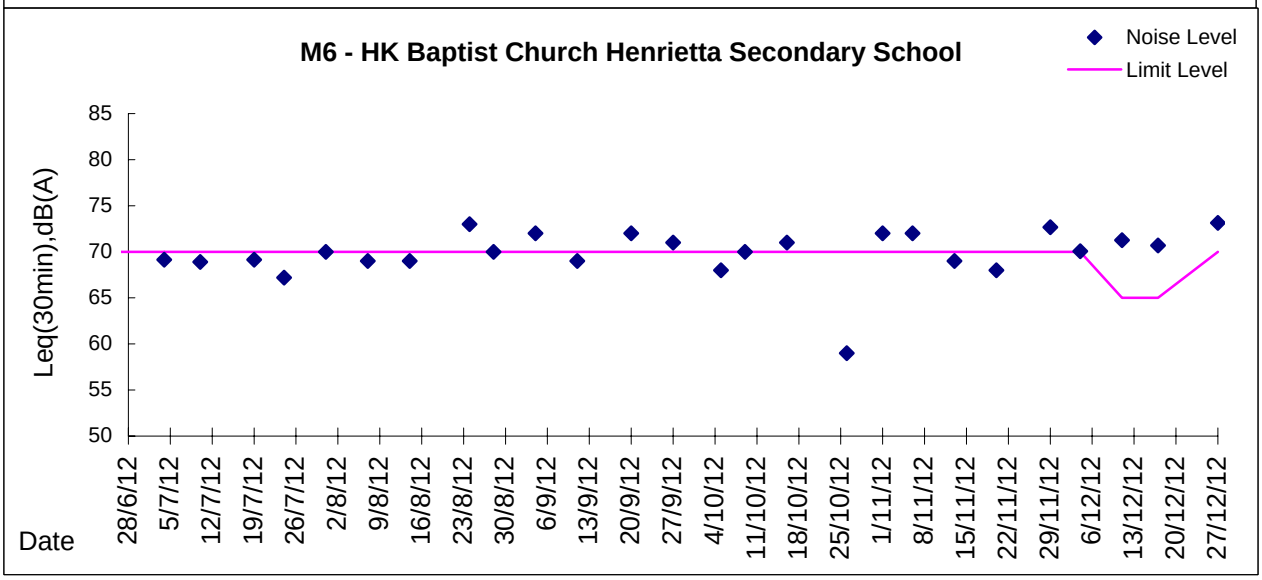


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

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

Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 176.7

Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-12	8:00	Fine	004045	2.7844	2.9062	2005.13	2029.13	24.00	0.95	1.15	1.05	1510	81
7-Dec-12	8:00	Cloudy	004313	2.6925	2.9062	2032.13	2056.13	24.00	1.19	1.19	1.19	1714	125
13-Dec-12	8:00	Fine	004037	2.8151	2.9643	2059.13	2083.13	24.00	1.19	1.09	1.14	1647	91
18-Dec-12	8:00	Cloudy	003405	2.7716	2.8762	2086.13	2110.13	24.00	1.27	1.32	1.29	1642	64
22-Dec-12	8:00	Fine	004159	2.7270	2.8462	2113.13	2137.13	24.00	1.07	0.96	1.01	1454	82

Report on 1-hour TSP monitoring

Action Level (μg/m3) - 320.1

Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	9:55	Cloudy	004308	2.6722	2.6789	2029.13	2030.13	1.00	1.12	1.12	1.12	67	99
3-Dec-12	11:00	Cloudy	004310	2.6916	2.6961	2030.13	2031.13	1.00	1.29	1.22	1.25	75	60
3-Dec-12	13:00	Cloudy	004312	2.6851	2.6888	2031.13	2032.13	1.00	1.22	1.22	1.22	73	51
8-Dec-12	8:21	Cloudy	004316	2.7264	2.7338	2056.13	2057.13	1.00	1.15	1.15	1.15	69	108
8-Dec-12	9:27	Cloudy	004318	2.7281	2.7360	2057.13	2058.13	1.00	0.95	0.91	0.93	56	141
8-Dec-12	10:30	Cloudy	004320	2.7171	2.7286	2058.13	2059.13	1.00	1.29	1.24	1.26	76	152
14-Dec-12	8:03	Fine	003400	2.7768	2.7902	2083.13	2084.13	1.00	1.24	1.24	1.24	74	181
14-Dec-12	9:05	Fine	004291	2.6725	2.6941	2084.13	2085.13	1.00	1.24	1.24	1.24	74	291
14-Dec-12	10:10	Fine	003407	2.7669	2.7785	2085.13	2086.13	1.00	1.24	1.24	1.24	74	156
19-Dec-12	8:30	Cloudy	004147	2.7206	2.7280	2110.13	2111.13	1.00	1.23	1.20	1.22	73	101
19-Dec-12	9:37	Cloudy	004145	2.7394	2.7472	2111.13	2112.13	1.00	1.23	1.23	1.23	74	106
19-Dec-12	10:41	Cloudy	004157	2.7447	2.7550	2112.13	2113.13	1.00	1.32	1.32	1.32	79	130
24-Dec-12	8:10	Fine	003744	2.7558	2.7659	2137.13	2138.13	1.00	1.23	1.14	1.19	71	142
24-Dec-12	9:25	Fine	003736	2.7590	2.7663	2138.13	2139.13	1.00	1.23	1.14	1.19	71	103
24-Dec-12	10:30	Fine	003725	2.7560	2.7661	2139.13	2140.13	1.00	1.23	1.19	1.21	73	139

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 Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-12	8:00	Fine	004044	2.7877	2.9248	11747.04	11771.04	24.00	1.56	1.58	1.57	2260	61
7-Dec-12	8:00	Cloudy	004314	2.6837	2.9253	11774.04	11798.04	24.00	1.52	1.52	1.52	2189	110
14-Dec-12	8:00	Fine	003404	2.7712	2.9267	11825.60	11849.60	24.00	1.53	1.51	1.52	2191	71
18-Dec-12	8:00	Cloudy	004156	2.7430	2.8602	11849.60	11873.59	23.99	1.47	1.49	1.48	2188	54
22-Dec-12	8:00	Fine	004158	2.7180	2.9840	11876.59	11900.59	24.00	1.48	1.54	1.51	2174	122

*Due to lack of electricity supply, the 24hr-TSP was rescheduled from 13 Dec 2012 to 14 Dec 2012.

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	9:45	Cloudy	004307	2.6781	2.6844	11771.04	11772.04	1.00	1.50	1.52	1.51	90	70
3-Dec-12	10:55	Cloudy	004309	2.6890	2.6940	11772.04	11773.04	1.00	1.50	1.52	1.51	90	55
3-Dec-12	13:00	Cloudy	004311	2.6888	2.6924	11773.04	11774.04	1.00	1.50	1.52	1.51	90	40
8-Dec-12	8:05	Cloudy	004315	2.6947	2.7021	11798.04	11799.04	1.00	1.47	1.47	1.47	88	84
8-Dec-12	9:10	Cloudy	004319	2.7437	2.7531	11799.04	11800.04	1.00	1.47	1.47	1.47	88	107
8-Dec-12	10:12	Cloudy	004317	2.7234	2.7331	11800.04	11801.04	1.00	1.47	1.47	1.47	88	110
14-Dec-12	8:05	Fine	003401	2.7779	2.7859	11822.60	11823.60	1.00	1.49	1.49	1.49	89	90
14-Dec-12	9:12	Fine	003408	2.7585	2.7653	11823.60	11824.60	1.00	1.44	1.44	1.44	87	78
14-Dec-12	10:15	Fine	003406	2.7724	2.7915	11824.60	11825.60	1.00	1.47	1.51	1.49	89	214
19-Dec-12	8:21	Cloudy	004148	2.7246	2.7347	11873.59	11874.59	1.00	1.47	1.51	1.49	89	113
19-Dec-12	9:25	Cloudy	004146	2.7471	2.7592	11874.59	11875.59	1.00	1.51	1.51	1.51	91	134
19-Dec-12	10:30	Cloudy	004144	2.7414	2.7560	11875.59	11876.59	1.00	1.55	1.51	1.53	92	159
24-Dec-12	8:05	Fine	003746	2.7452	2.7545	11900.59	11901.59	1.00	1.49	1.45	1.47	88	105
24-Dec-12	9:10	Fine	003723	2.7542	2.7627	11901.59	11902.59	1.00	1.58	1.56	1.57	94	90
24-Dec-12	10:12	Fine	003724	2.7421	2.7519	11902.59	11903.59	1.00	1.37	1.28	1.32	79	123

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 Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-12	8:00	Fine	003786	2.7494	3.0591	12500.52	12524.52	24.00	1.43	1.44	1.43	2065	150
7-Dec-12	8:00	Cloudy	004200	2.6904	3.0008	12527.51	12551.51	24.00	1.27	1.27	1.27	1829	170
13-Dec-12	8:00	Fine	004293	2.7051	3.0481	12554.52	12578.54	24.02	1.46	1.46	1.46	2104	163
18-Dec-12	8:00	Cloudy	003741	2.7495	2.9345	12581.54	12605.54	24.00	1.50	1.46	1.48	2102	88
24-Dec-12	14:05	Fine	004208	2.7564	3.1312	12632.91	12656.91	24.00	1.65	1.64	1.65	2376	158

*Due to lack of electricity supply, the 24hr-TSP was rescheduled from 22 Dec 2012 to 24 Dec 2012.

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	8:04	Cloudy	004006	2.7506	2.7628	12524.52	12525.52	1.00	1.29	1.39	1.34	80	152
3-Dec-12	9:10	Cloudy	004303	2.7030	2.7125	12525.52	12526.52	1.00	1.27	1.27	1.27	76	125
3-Dec-12	10:13	Cloudy	004301	2.6911	2.6981	12526.52	12527.52	1.00	1.32	1.32	1.32	79	89
8-Dec-12	8:02	Cloudy	004296	2.6679	2.6900	12551.51	12552.51	1.00	1.27	1.27	1.27	76	291
8-Dec-12	9:05	Cloudy	004295	2.6738	2.6962	12552.51	12553.51	1.00	1.27	1.27	1.27	76	295
8-Dec-12	10:10	Cloudy	004294	2.6937	2.7171	12553.51	12554.51	1.00	1.27	1.27	1.27	76	308
14-Dec-12	8:15	Fine	003722	2.7537	2.7661	12578.54	12579.54	1.00	1.46	1.46	1.46	87	142
14-Dec-12	9:20	Fine	004852	2.7393	2.7539	12579.54	12580.54	1.00	1.46	1.46	1.46	87	167
14-Dec-12	10:25	Fine	003745	2.7499	2.7688	12580.54	12581.54	1.00	1.48	1.46	1.47	88	215
19-Dec-12	8:05	Cloudy	003414	2.7719	2.7863	12605.44	12606.44	1.00	1.74	1.69	1.72	103	140
19-Dec-12	9:10	Cloudy	003415	2.7644	2.7840	12606.44	12607.44	1.00	1.55	1.60	1.58	95	207
19-Dec-12	10:12	Cloudy	003416	2.7596	2.7799	12607.44	12608.44	1.00	1.69	1.90	1.80	108	188
24-Dec-12	8:00	Fine	003420	2.8251	2.8425	12629.91	12630.91	1.00	1.65	1.65	1.65	99	176
24-Dec-12	10:50	Fine	004143	2.7179	2.7381	12630.91	12631.91	1.00	1.65	1.65	1.65	99	204
24-Dec-12	13:00	Fine	004210	2.7642	2.7826	12631.91	12632.91	1.00	1.65	1.65	1.65	99	186

Location: CMA4a - SPCA

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-12	8:00	Fine	003785	2.7560	2.8917	15918.21	15942.21	24.00	1.40	1.40	1.40	2018	67
7-Dec-12	8:00	Cloudy	004299	2.7068	2.9392	15945.22	15969.22	24.00	1.38	1.33	1.36	1958	119
13-Dec-12	8:00	Fine	004293	2.6771	2.7967	15972.22	15996.22	24.00	1.24	1.23	1.23	1777	67
18-Dec-12	8:00	Cloudy	003743	2.7507	2.8201	15999.22	16023.23	24.01	1.37	1.22	1.30	1772	39
22-Dec-12	8:00	Fine	003417	2.7656	2.9967	16026.23	16050.23	24.00	1.35	1.36	1.36	1958	118

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	8:03	Cloudy	004005	2.7621	2.7671	15942.21	15943.21	1.00	1.09	1.05	1.07	64	78
3-Dec-12	9:10	Cloudy	004302	2.6831	2.6857	15943.21	15944.21	1.00	1.38	1.36	1.37	82	32
3-Dec-12	10:12	Cloudy	004059	2.7948	2.7970	15944.21	15945.21	1.00	1.12	1.12	1.12	67	33
8-Dec-12	8:05	Cloudy	004170	2.7285	2.7405	15969.22	15970.22	1.00	1.43	1.43	1.43	86	140
8-Dec-12	9:10	Cloudy	004298	2.7110	2.7240	15970.22	15971.22	1.00	1.43	1.43	1.43	86	152
8-Dec-12	10:15	Cloudy	004297	2.7039	2.7186	15971.22	15972.22	1.00	1.43	1.43	1.43	86	172
14-Dec-12	8:05	Fine	004851	2.7471	2.7548	15996.22	15997.22	1.00	1.38	1.35	1.36	82	94
14-Dec-12	9:10	Fine	003721	2.7498	2.7566	15997.22	15998.22	1.00	1.28	1.28	1.28	77	89
14-Dec-12	10:12	Fine	003750	2.7445	2.7538	15998.22	15999.22	1.00	1.26	1.23	1.24	75	125
19-Dec-12	8:07	Cloudy	003411	2.7497	2.7620	16023.23	16024.23	1.00	1.44	1.38	1.41	85	145
19-Dec-12	9:12	Cloudy	003412	2.7732	2.7840	16024.23	16025.23	1.00	1.38	1.38	1.38	83	131
19-Dec-12	10:20	Cloudy	003413	2.7676	2.7744	16025.23	16026.23	1.00	1.38	1.38	1.38	83	82
24-Dec-12	8:00	Fine	003437	2.7833	2.7968	16050.23	16051.23	1.00	1.47	1.36	1.42	85	159
24-Dec-12	9:14	Fine	003438	2.7874	2.7998	16051.23	16052.23	1.00	1.43	1.36	1.39	84	148
24-Dec-12	10:22	Fine	003439	2.7873	2.8010	16052.23	16053.23	1.00	1.43	1.36	1.39	84	164

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring
Action Level (μg/m3) - 181
Limit Level (μg/m3) - 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-12	8:00	Fine	003805	2.7572	2.9350	16911.74	16935.74	24.00	1.52	1.52	1.52	2191	81
7-Dec-12	8:00	Cloudy	003765	2.7413	2.8864	16938.73	16962.73	24.00	1.16	1.16	1.16	1670	87
13-Dec-12	8:00	Fine	004858	2.7472	2.8666	16965.73	16989.73	24.00	1.47	1.38	1.42	2050	58
18-Dec-12	8:00	Cloudy	004850	2.7471	2.9020	16992.73	17016.73	24.00	1.46	1.49	1.47	2045	76
22-Dec-12	8:00	Fine	003769	2.7312	2.9238	17019.73	17043.73	24.00	1.29	1.30	1.29	1857	104

Report on 1-hour TSP monitoring
Action Level (μg/m3) - 332
Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	8:20	Cloudy	003784	2.7607	2.7814	16935.74	16936.74	1.00	1.16	1.10	1.13	68	305
3-Dec-12	9:30	Cloudy	003783	2.7684	2.7743	16936.74	16937.74	1.00	1.10	1.08	1.09	65	90
3-Dec-12	10:30	Cloudy	003782	2.7773	2.7809	16937.74	16938.74	1.00	1.10	1.16	1.13	68	53
8-Dec-12	8:30	Cloudy	003452	2.7994	2.8078	16962.73	16963.73	1.00	1.21	1.21	1.21	73	115
8-Dec-12	9:35	Cloudy	004853	2.7487	2.7586	16963.73	16964.73	1.00	1.38	1.44	1.41	85	117
8-Dec-12	10:40	Cloudy	003455	2.8128	2.8213	16964.73	16965.73	1.00	1.10	1.10	1.10	66	129
14-Dec-12	13:00	Fine	004854	2.7551	2.7615	16989.73	16990.73	1.00	1.21	1.15	1.18	71	90
14-Dec-12	14:05	Fine	003749	2.7551	2.7628	16990.73	16991.73	1.00	1.18	1.18	1.18	71	109
14-Dec-12	15:15	Fine	003747	2.7662	2.7749	16991.73	16992.73	1.00	1.24	1.24	1.24	74	117
19-Dec-12	8:15	Cloudy	004857	2.7449	2.751	17016.73	17017.73	1.00	1.34	1.34	1.34	80	76
19-Dec-12	9:20	Cloudy	003766	2.7622	2.7711	17017.73	17018.73	1.00	1.51	1.51	1.51	91	98
19-Dec-12	10:30	Cloudy	003767	2.7592	2.7658	17018.73	17019.73	1.00	1.41	1.39	1.40	84	79
24-Dec-12	10:57	Fine	004161	2.7170	2.7385	17043.72	17044.72	1.00	1.52	1.49	1.50	90	238
24-Dec-12	13:00	Fine	003728	2.7500	2.7626	17044.72	17045.72	1.00	1.47	1.49	1.48	89	142
24-Dec-12	14:10	Fine	003729	2.7448	2.7544	17045.72	17046.72	1.00	1.25	1.25	1.25	75	128

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3 µg/m3

Limit Level - 260 µg/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	11:40	Cloudy	003764	2.7493	2.8210	15234.71	15258.71	24.00	1.20	1.20	1.20	1722	42
7-Dec-12	8:00	Cloudy	003429	2.8178	2.9898	15258.71	15282.71	24.00	1.24	1.19	1.22	1757	98
13-Dec-12	8:00	Fine	004859	2.7574	2.8627	15285.71	15309.71	24.00	1.26	1.26	1.26	1814	58
18-Dec-12	8:00	Cloudy	003450	2.7925	2.8855	15312.72	15336.72	24.00	1.24	1.24	1.24	1814	51
22-Dec-12	8:00	Fine	003768	2.7467	2.9240	15339.72	15363.72	24.00	1.24	1.25	1.24	1786	99

*Due to lack of electricity supply, the 24hr-TSP was rescheduled from01 Dec 2012 to 03 Dec 2012.

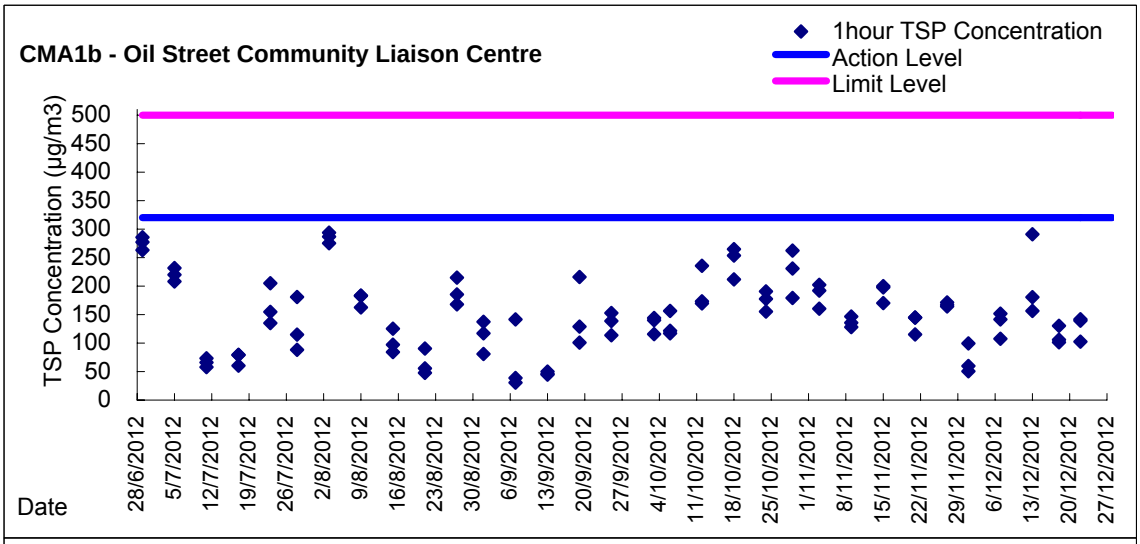
Report on 1-hour TSP monitoring

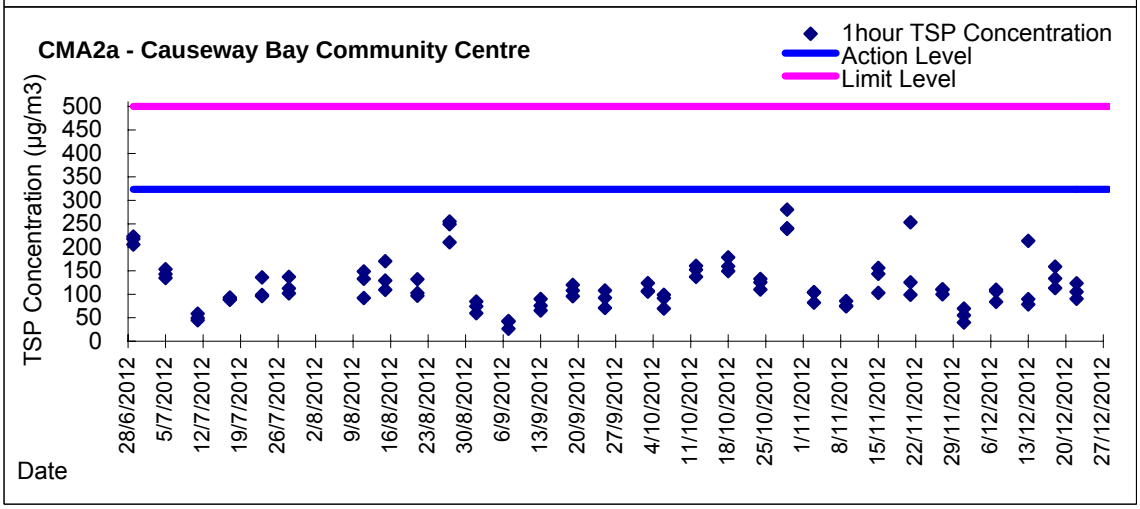
Action Level - 300.1 μ g/m^3

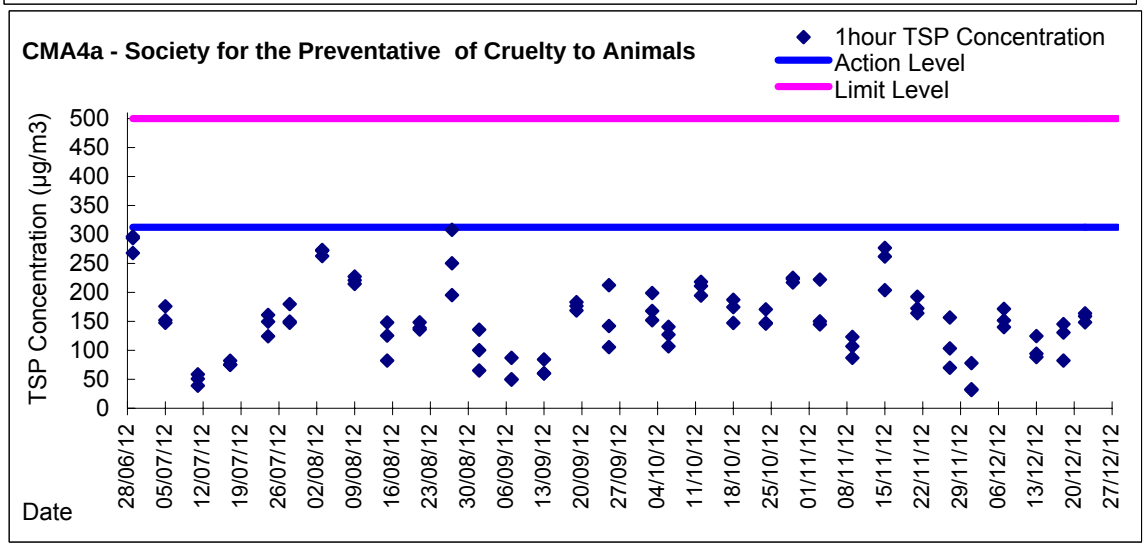
Limit Level - 500 μ g/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
3-Dec-12	8:20	Cloudy	003803	2.7372	2.7486	15231.70	15232.70	1.00	1.20	1.15	1.17	70	162
3-Dec-12	9:30	Cloudy	003430	2.7970	2.7992	15232.70	15233.70	1.00	1.31	1.31	1.31	78	28
3-Dec-12	10:35	Cloudy	003410	2.7656	2.7696	15233.70	15234.70	1.00	1.51	1.35	1.43	86	47
8-Dec-12	8:20	Cloudy	003451	2.7841	2.7918	15282.71	15283.71	1.00	1.26	1.28	1.27	76	101
8-Dec-12	9:30	Cloudy	003453	2.7973	2.8039	15283.71	15284.71	1.00	1.26	1.26	1.26	76	87
8-Dec-12	10:30	Cloudy	003454	2.7966	2.8031	15284.71	15285.71	1.00	1.33	1.33	1.33	80	82
14-Dec-12	13:00	Fine	003409	2.7735	2.7813	15309.72	15310.72	1.00	1.28	1.28	1.28	77	102
14-Dec-12	14:10	Fine	003748	2.7554	2.7628	15311.72	15312.72	1.00	1.28	1.28	1.28	77	96
14-Dec-12	15:15	Fine	004855	2.7368	2.7425	15312.72	15313.72	1.00	1.28	1.28	1.28	77	74
19-Dec-12	8:00	Cloudy	004856	2.7496	2.7569	15336.72	15337.72	1.00	1.40	1.24	1.32	79	92
19-Dec-12	9:05	Cloudy	003727	2.7559	2.7605	15337.72	15338.72	1.00	1.24	1.24	1.24	75	62
19-Dec-12	10:10	Cloudy	003726	2.7462	2.7530	15338.72	15339.72	1.00	1.52	1.55	1.53	92	74
24-Dec-12	10:47	Fine	004160	2.7247	2.7347	15363.71	15364.71	1.00	1.22	1.22	1.22	73	136
24-Dec-12	13:00	Fine	004289	2.6890	2.6970	15364.71	15365.71	1.00	1.22	1.22	1.22	73	109
24-Dec-12	14:10	Fine	003734	2.7632	2.7732	15365.71	15366.71	1.00	1.33	1.30	1.31	79	127

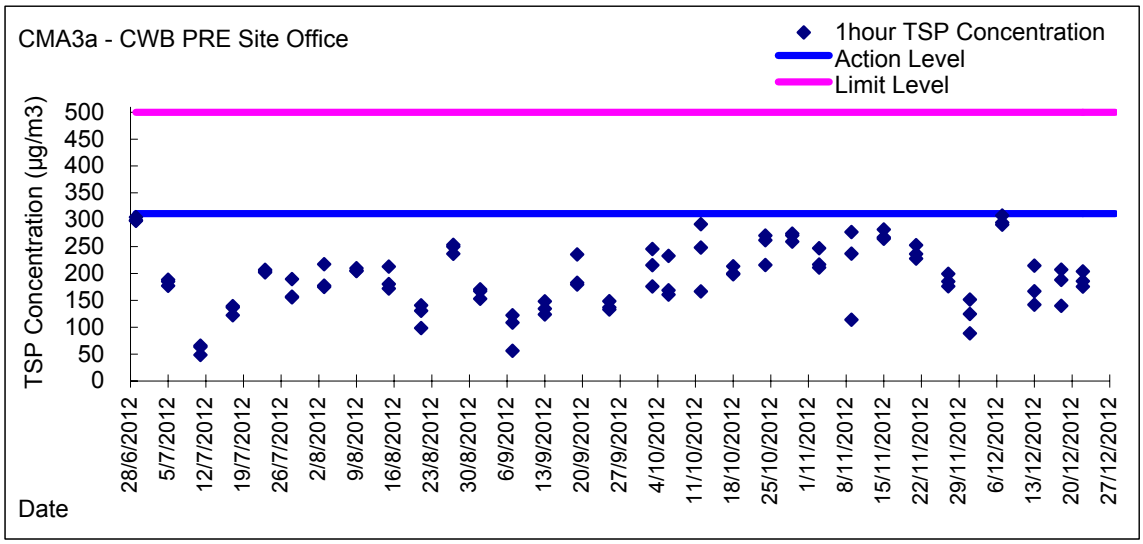
Graphic Presentation of 1 hour TSP Result

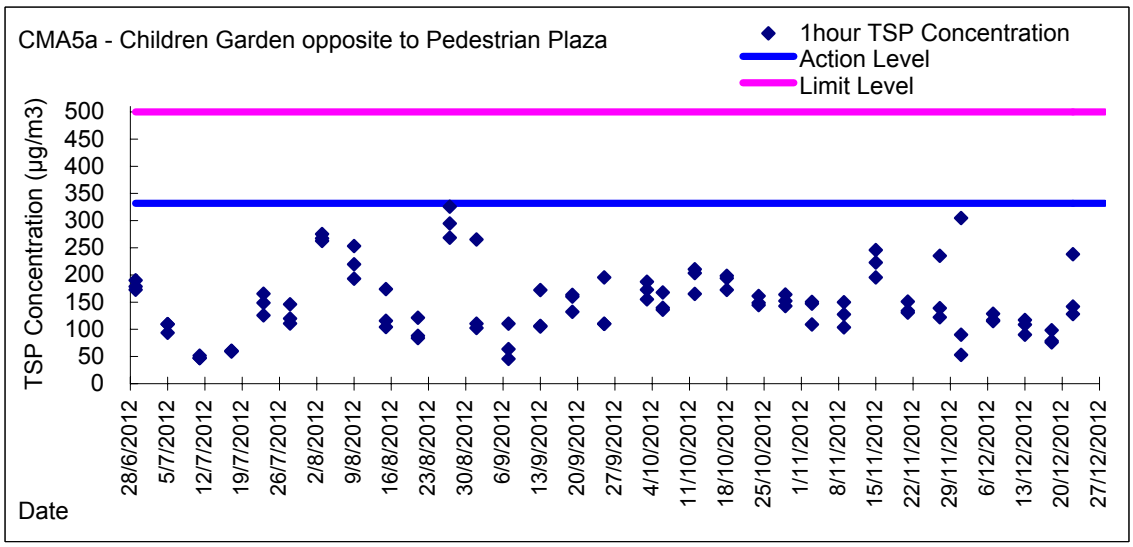


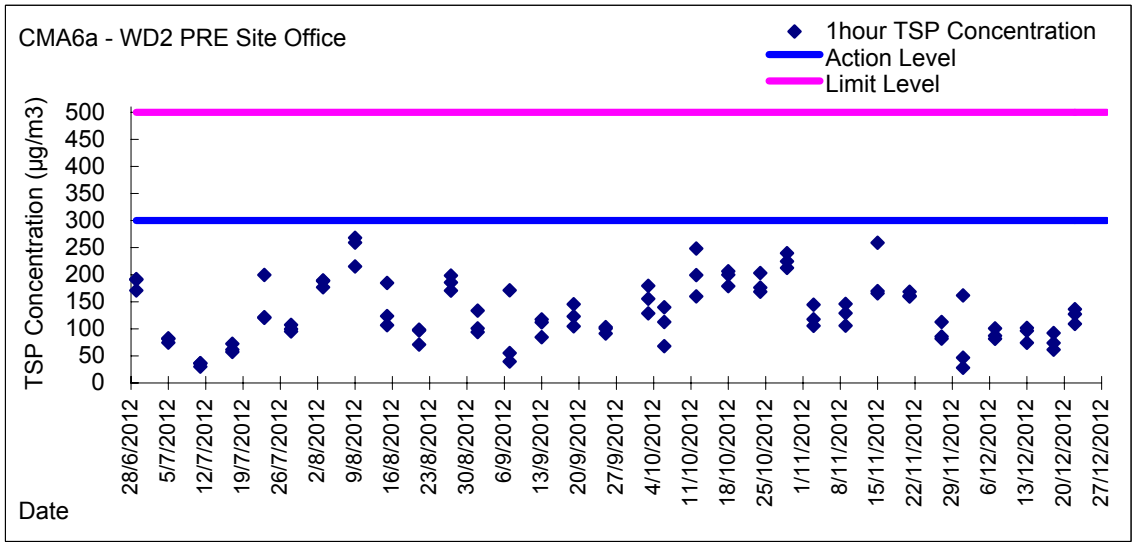




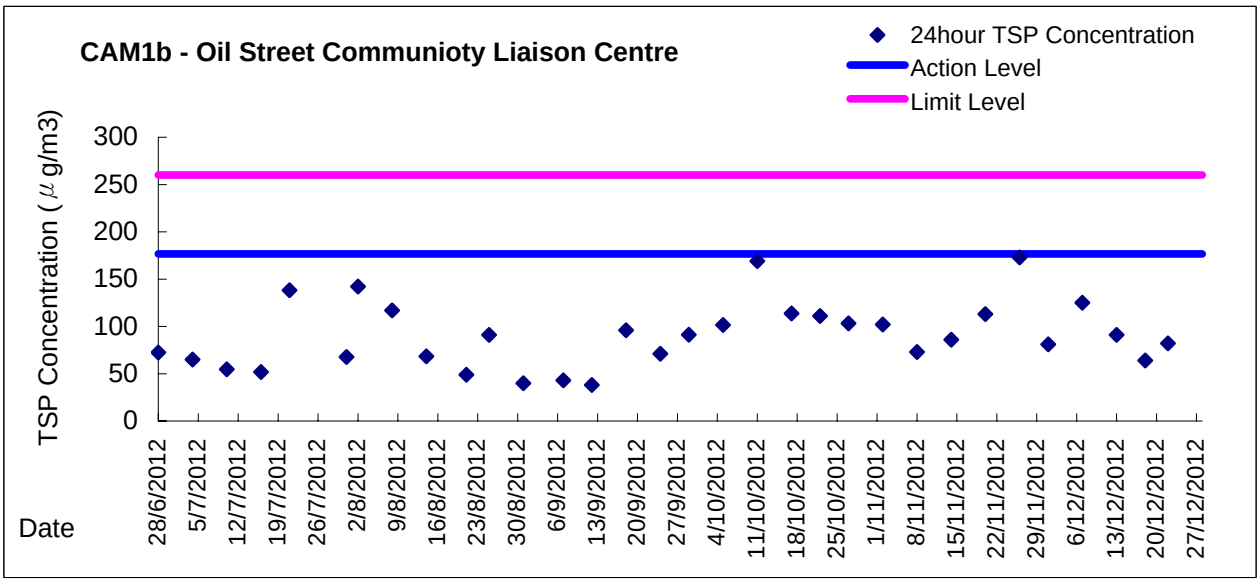
Graphic Presentation of 1 hour TSP Result

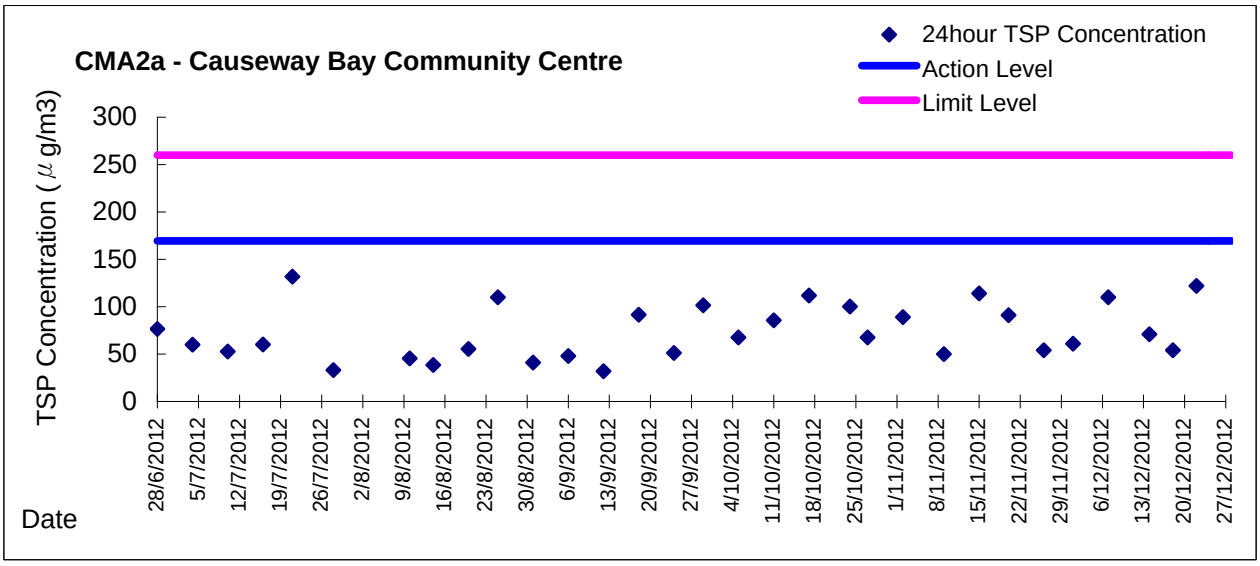


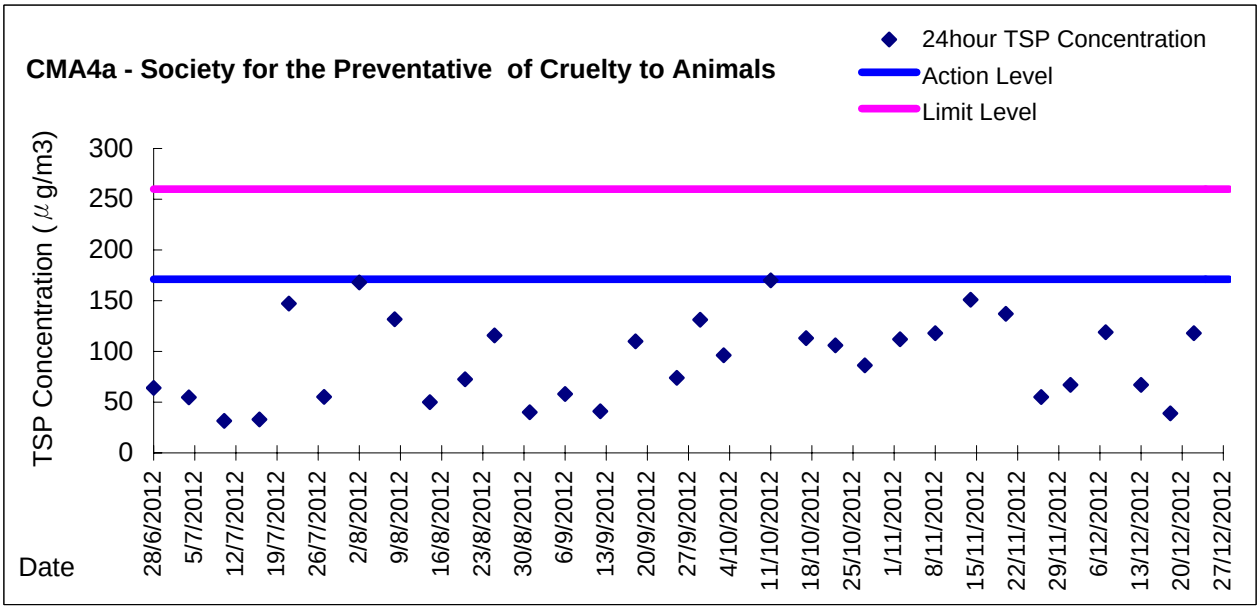




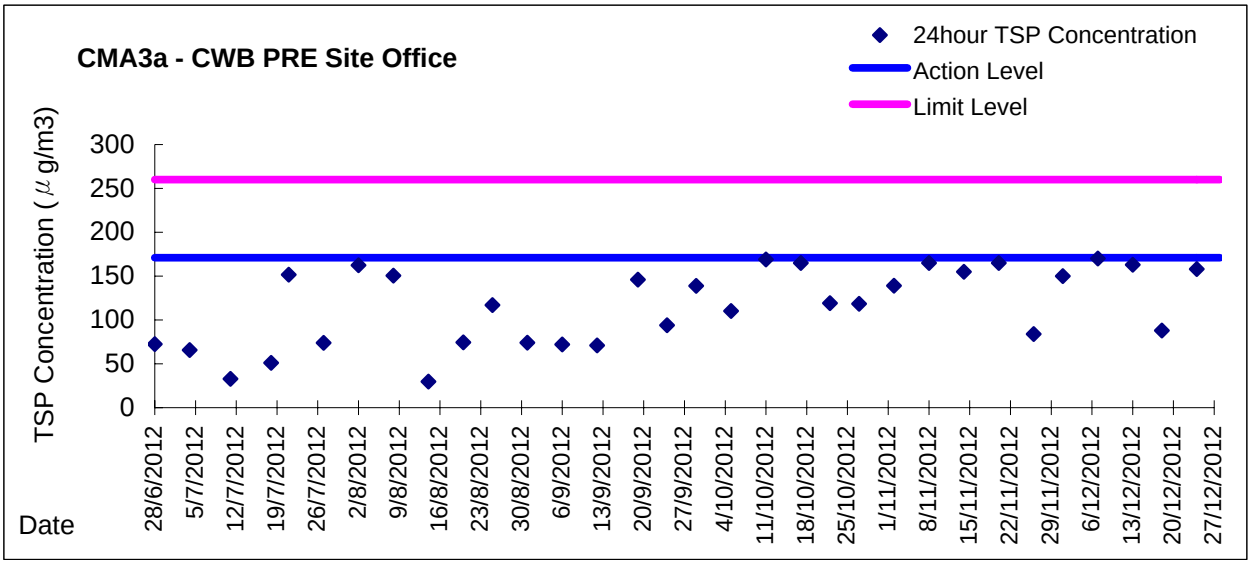
Graphic Presentation of 24 hour TSP Result

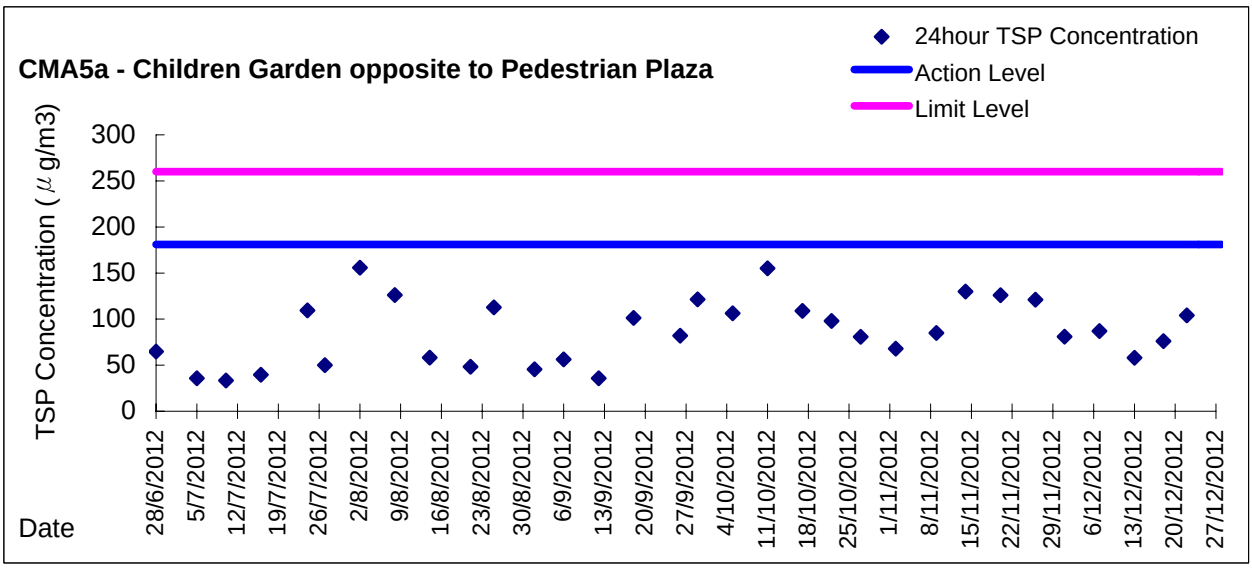


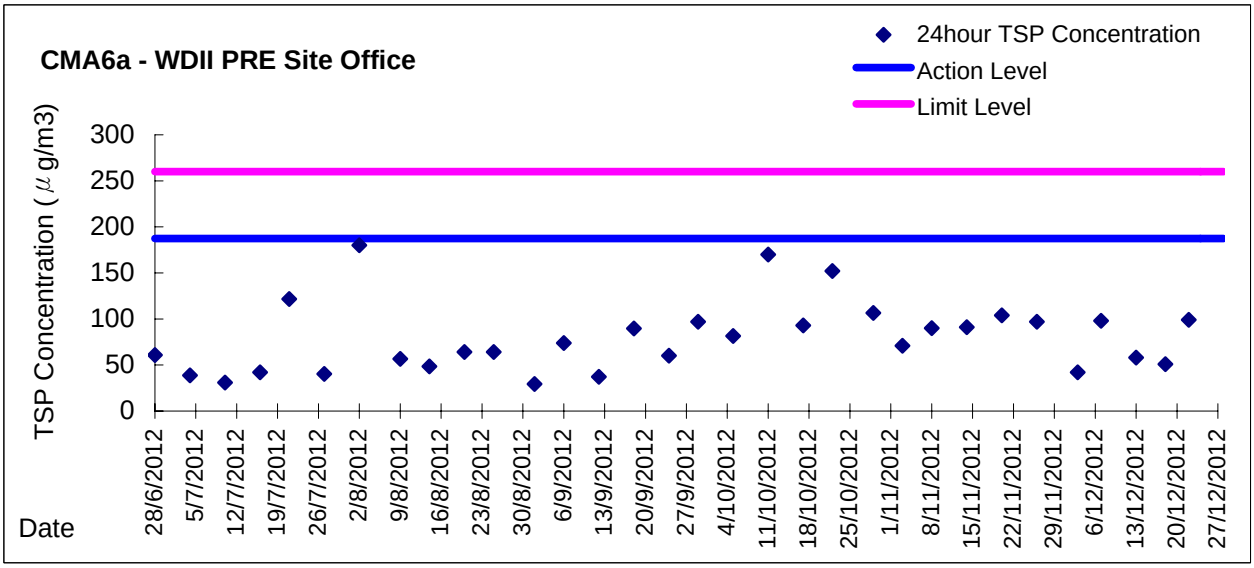




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	15:50	Cloudy	Middle	2.5	21.70	21.70	21.70	8.09	8.09	8.09	33.44	33.44	33.46	68.4	68.0	67.7	4.95	4.92	4.90	6.44	6.75	6.62	6	6.50
	15:52		Middle	2.5	21.70	21.70		8.09	8.09		33.47	33.47		67.4	67.0		4.88	4.85		6.71	6.58		7	
30/11/2012	16:00	Cloudy	Middle	2.5	22.40	22.40	22.40	8.02	8.02	8.02	33.26	33.26	33.26	90.1	90.4	90.5	6.45	6.47	6.47	3.84	3.80	3.89	4	3.50
	16:01		Middle	2.5	22.40	22.40		8.02	8.02		33.26	33.26		90.9	90.6		6.49	6.48		3.94	3.96		3	
3/12/2012	12:45	Cloudy	Middle	2.5	21.20	21.20	21.20	7.99	7.99	7.99	32.98	32.98	32.98	90.7	91.9	91.8	6.65	6.75	6.74	3.79	3.88	3.86	7	6.00
	12:46		Middle	2.5	21.20	21.20		7.99	7.99		32.98	32.98		92.5	91.9		6.79	6.75		4.01	3.77		5	
5/12/2012	10:28	Cloudy	Middle	2.0	20.70	20.70	20.65	8.00	8.00	8.01	33.00	33.00	33.01	82.1	82.8	83.9	6.22	6.25	6.28	5.31	5.56	5.52	6	6.50
	10:30		Middle	2.0	20.60	20.60		8.01	8.01		33.02	33.02		84.6	85.9		6.26	6.37		5.60	5.62		7	
7/12/2012	13:57	Fine	Middle	2.5	21.00	21.00	21.00	8.03	8.03	8.03	33.11	33.11	33.11	92.3	91.9	92.1	6.74	6.75	6.75	3.63	3.35	3.43	3	2.50
	13:59		Middle	2.5	21.00	21.00		8.03	8.03		33.11	33.11		92.0	92.1		6.76	6.76		3.66	3.07		2	
10/12/2012	13:58	Fine	Middle	2.5	20.50	20.50	20.40	8.04	8.04	8.04	33.38	33.38	33.37	92.3	93.5	93.8	6.84	6.93	6.95	4.03	3.74	3.84	4	3.50
	14:00		Middle	2.5	20.30	20.30		8.04	8.04		33.35	33.35		95.1	94.2		7.05	6.99		3.78	3.81		3	
12/12/2012	15:00	Fine	Middle	2.5	20.20	20.20	20.20	7.98	7.98	7.98	33.02	33.02	33.01	94.5	93.8	93.8	7.09	7.01	7.01	6.18	5.78	5.78	7	6.50
	15:02		Middle	2.5	20.20	20.20		7.98	7.98		33.00	33.00		93.3	93.5		6.97	6.98		5.54	5.63		6	
15/12/2012	7:33	Fine	Middle	2.5	20.90	20.90	20.90	7.94	7.94	7.94	32.00	32.00	32.01	84.0	84.6	84.0	6.20	6.25	6.71	2.35	2.58	2.51	4	4.00
	7:35		Middle	2.5	20.90	20.90		7.94	7.94		32.01	32.01		85.0	82.3		8.30	6.08		2.47	2.64		4	
18/12/2012	8:57	Fine	Middle	2.5	20.80	20.80	20.80	7.90	7.90	7.92	32.72	32.72	32.74	80.1	82.7	81.8	5.92	6.11	6.05	2.63	3.02	2.78	6	6.00
	8:59		Middle	2.5	20.80	20.80		7.93	7.93		32.75	32.75		82.5	82.0		6.10	6.06		2.64	2.81		6	
20/12/2012	10:10	Fine	Middle	2.0	19.10	19.10	19.10	8.04	8.04	8.04	33.05	33.05	33.05	88.4	88.8	88.4	6.72	6.76	6.73	2.83	2.52	2.63	4	3.50
	10:12		Middle	2.0	19.10	19.10		8.04	8.04		33.04	33.04		88.6	87.7		6.74	6.68		2.57	2.60		3	
22/12/2012	11:00	Fine	Middle	2.0	20.20	20.20	20.25	8.04	8.04	8.05	33.02	33.02	33.03	92.4	93.7	92.3	6.88	6.98	6.87	2.07	1.86	1.91	7	7.50
	11:02		Middle	2.0	20.30	20.30		8.05	8.05		33.04	33.04		92.4	90.6		6.88	6.75		1.80	1.89		8	
24/12/2012	15:46	Fine	Middle	2.0	18.00	18.00	18.00	8.09	8.09	8.08	32.92	32.92	32.94	92.1	91.6	92.5	7.28	7.20	7.28	1.56	1.58	1.56	2	2.00
	15:48		Middle	2.0	18.00	18.00		8.07	8.07		32.95	32.95		93.1	93.1		7.32	7.32		1.56	1.55		2	
26/12/2012	15:18	Cloudy	Middle	2.5	19.00	19.00	19.00	8.03	8.03	8.03	33.21	33.21	33.21	94.5	94.7	95.3	7.20	7.11	7.23	0.56	0.84	0.72	5	4.50
	15:19		Middle	2.5	19.00	19.00		8.03	8.03		33.21	33.21		96.1	95.7		7.32	7.29		0.77	0.72		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	14:50	Cloudy	Middle	3.0	22.00	22.00	22.00	8.12	8.12	8.12	33.46	33.46	33.46	84.4	82.1	82.0	6.08	5.91	5.91	5.16	5.09	5.05	7	7.50
	14:52		Middle	3.0	22.00	22.00		8.11	8.11		33.46	33.46		81.2	80.4		5.84	5.79		4.98	4.98		8	
30/11/2012	18:08	Cloudy	Middle	3.0	22.40	22.40	22.40	8.04	8.04	8.04	33.41	33.41	33.41	92.7	92.9	93.3	6.62	6.63	6.66	5.41	5.40	5.50	4	4.50
	18:09		Middle	3.0	22.40	22.40		8.04	8.04		33.41	33.41		93.7	93.8		6.69	6.69		5.65	5.54		5	
3/12/2012	8:27	Cloudy	Middle	2.5	21.20	21.20	21.15	7.98	7.98	7.98	33.02	33.02	33.02	91.2	91.6	91.4	6.70	6.72	6.70	6.56	6.48	6.59	11	11.00
	8:28		Middle	2.5	21.10	21.10		7.98	7.98		33.02	33.02		91.7	91.0		6.72	6.66		6.72	6.58		11	
5/12/2012	14:20	Cloudy	Middle	3.0	20.70	20.70	20.65	8.07	8.07	8.08	33.11	33.11	33.13	90.8	93.4	92.3	6.70	6.90	6.82	3.61	3.42	3.45	3	3.50
	14:22		Middle	3.0	20.60	20.60		8.08	8.08		33.15	33.15		92.7	92.1		6.85	6.82		3.33	3.45		4	
7/12/2012	12:26	Fine	Middle	3.0	21.20	21.30	21.25	8.06	8.06	8.06	33.36	33.36	33.36	94.3	94.9	94.0	6.90	6.94	6.88	4.56	4.30	4.43	6	6.50
	12:28		Middle	3.0	21.20	21.30		8.06	8.06		33.36	33.36		94.0	92.8		6.88	6.79		4.49	4.36		7	
10/12/2012	15:07	Fine	Middle	3.5	20.50	20.50	20.45	8.05	8.05	8.06	33.41	33.41	33.42	96.7	96.3	96.6	7.16	7.13	7.15	5.47	5.56	5.32	4	4.50
	15:09		Middle	3.5	20.40	20.40		8.06	8.06		33.43	33.43		96.9	96.5		7.18	7.14		5.05	5.20		5	
12/12/2012	14:05	Fine	Middle	3.5	20.50	20.50	20.55	8.01	8.01	8.01	33.00	33.00	33.00	88.3	87.9	88.0	6.55	6.52	6.53	4.13	3.88	3.80	5	5.00
	14:07		Middle	3.5	20.60	20.60		8.00	8.00		33.00	33.00		87.4	88.2		6.48	6.56		3.65	3.53		5	
15/12/2012	10:33	Fine	Middle	3.0	21.20	21.20	21.23	7.99	7.99	7.99	32.89	32.89	32.89	89.1	89.2	90.0	6.50	6.51	6.57	3.42	3.44	3.40	7	7.00
	10:35		Middle	3.0	21.30	21.20		7.99	7.99		32.89	32.89		90.8	90.8		6.63	6.62		3.31	3.42		7	
18/12/2012	11:50	Fine	Middle	3.0	19.90	19.90	19.85	8.01	8.01	8.02	32.93	32.93	32.94	89.7	89.9	89.8	6.74	6.75	6.75	3.96	4.33	4.18	7	7.50
	11:52		Middle	3.0	19.80	19.80		8.02	8.02		32.95	32.95		90.5	89.0		6.80	6.71		4.14	4.27		8	
20/12/2012	11:40	Fine	Middle	3.5	19.50	19.50	19.45	8.05	8.05	8.06	33.06	33.06	33.08	89.6	89.3	88.7	6.78	6.76	6.71	3.93	3.67	3.77	7	6.50
	11:42		Middle	3.5	19.40	19.40		8.06	8.06		33.09	33.09		88.4	87.4		6.69	6.62		3.65	3.84		6	
22/12/2012	14:54	Fine	Middle	3.5	20.20	20.20	20.20	8.00	8.00	8.00	32.91	32.91	32.93	89.7	89.8	89.4	6.69	6.69	6.67	2.05	1.94	1.88	6	6.50
	14:56		Middle	3.5	20.20	20.20		8.00	8.00		32.94	32.94		89.7	88.5		6.69	6.60		1.79	1.73		7	
24/12/2012	14:32	Fine	Middle	3.5	18.50	18.50	18.45	8.10	8.10	8.10	32.61	32.61	32.62	88.1	87.5	87.4	6.79	6.74	6.73	2.18	2.20	2.20	4	4.50
	14:34		Middle	3.5	18.40	18.40		8.10	8.10		32.63	32.63		87.2	86.7		6.72	6.68		2.30	2.10		5	
26/12/2012	17:08	Cloudy	Middle	3.0	19.00	19.00	19.00	8.08	8.08	8.08	33.35	33.35	33.35	98.4	99.2	98.8	7.50	7.55	7.52	4.17	4.27	4.14	6	6.00
	17:09		Middle	3.0	19.00	19.00		8.08	8.08		33.35	33.35		99.4	98.2		7.56	7.45		4.03	4.10		6	

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

Water Monitoring Result at C9 - Provident Centre
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	15:00	Cloudy	Middle	2.0	22.20	22.20	22.10	8.00	8.00	8.00	32.91	32.91	32.91	71.6	71.0	71.2	5.16	5.12	5.12	5.42	5.41	5.40	8	8.00
	15:01		Middle	2.0	22.00	22.00		8.00	8.00		32.90	32.90		70.2	72.1		5.10	5.11		5.38	5.39		8	
30/11/2012	17:48	Cloudy	Middle	2.0	22.30	22.30	22.30	8.00	8.00	8.00	33.11	33.11	33.11	98.7	97.7	99.1	7.08	7.00	7.10	9.72	10.20	**10.26**	7	7.50
	17:49		Middle	2.0	22.30	22.30		8.00	8.00		33.11	33.11		99.9	99.9		7.16	7.16		10.70	10.40		8	
3/12/2012	8:07	Cloudy	Middle	2.0	20.80	20.80	20.80	7.94	7.94	7.94	32.11	32.11	32.13	94.1	94.1	93.7	6.98	6.99	6.96	9.83	9.96	**9.85**	19	**19.00**
	8:08		Middle	2.0	20.80	20.80		7.94	7.94		32.15	32.15		93.8	92.8		6.97	6.89		9.83	9.76		19	
5/12/2012	13:56	Cloudy	Middle	2.0	20.60	20.60	20.60	8.00	8.00	8.00	32.99	32.99	33.00	86.1	85.6	85.4	6.38	6.34	6.33	6.98	7.02	7.03	8	7.50
	13:58		Middle	2.0	20.60	20.60		7.99	7.99		33.00	33.00		85.3	84.5		6.32	6.26		7.03	7.10		7	
7/12/2012	12:04	Fine	Middle	2.5	21.20	21.20	21.20	8.04	8.04	8.04	33.06	33.06	33.06	91.6	91.5	91.4	6.71	6.70	6.69	9.00	8.71	8.92	14	14.50
	12:06		Middle	2.5	21.20	21.20		8.04	8.04		33.06	33.06		91.3	91.2		6.68	6.67		8.92	9.04		15	
10/12/2012	17:35	Fine	Middle	2.0	20.20	20.20	20.20	8.04	8.04	8.04	33.44	33.44	33.44	101.6	100.1	98.0	7.56	7.41	7.27	7.48	7.13	7.21	9	8.50
	17:37		Middle	2.0	20.20	20.20		8.04	8.04		33.44	33.44		96.8	93.3		7.19	6.93		7.04	7.19		8	
12/12/2012	14:09	Fine	Middle	2.5	20.60	20.60	20.65	8.04	8.04	8.04	33.23	33.23	33.23	79.1	78.8	79.5	5.83	5.82	5.87	4.98	5.01	4.97	5	5.00
	14:11		Middle	2.5	20.70	20.70		8.03	8.03		33.22	33.22		80.3	79.7		5.93	5.88		4.94	4.96		5	
15/12/2012	10:03	Fine	Middle	2.0	21.40	21.40	21.50	7.91	7.91	7.91	32.87	32.87	32.82	61.4	61.1	59.5	4.48	4.45	4.34	4.21	4.25	4.11	9	8.00
	10:07		Middle	2.0	21.60	21.60		7.91	7.91		32.76	32.76		58.0	57.5		4.23	4.19		3.91	4.05		7	
18/12/2012	11:30	Fine	Middle	2.5	20.00	20.00	19.95	7.91	7.91	7.91	32.54	32.54	32.55	90.1	90.1	90.1	6.76	6.76	6.76	10.70	9.75	**10.10**	15	**15.50**
	11:32		Middle	2.5	19.90	19.90		7.91	7.91		32.56	32.56		90.2	90.1		6.77	6.76		9.75	10.20		16	
20/12/2012	12:58	Fine	Middle	2.0	19.70	19.70	19.70	7.92	7.92	5.42	33.17	33.17	33.18	70.1	70.2	70.5	5.08	5.09	5.11	2.11	2.23	2.29	6	5.50
	13:00		Middle	2.0	19.70	19.70		2.92	2.92		33.18	33.18		70.9	70.6		5.13	5.12		2.33	2.49		5	
22/12/2012	14:36	Fine	Middle	2.0	20.10	20.10	20.20	7.96	7.96	7.97	32.80	32.80	32.80	81.3	81.9	81.8	6.06	6.10	6.10	5.88	5.90	5.95	10	10.00
	14:38		Middle	2.0	20.30	20.30		7.97	7.97		32.79	32.79		81.9	82.1		6.11	6.12		6.14	5.87		10	
24/12/2012	14:10	Fine	Middle	2.5	18.60	18.60	18.60	8.02	8.02	8.03	32.72	32.72	32.73	88.8	88.2	87.8	6.82	6.78	6.74	8.02	8.20	8.02	8	8.00
	14:12		Middle	2.5	18.60	18.60		8.03	8.03		32.73	32.73		87.2	86.8		6.70	6.67		7.92	7.92		8	
* 26/12/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
*As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C9 was temporary suspended on 26 December 2012 during mid-flood.

Water Monitoring Result at C8 - City Garden
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	15:05	Cloudy	Middle	2.0	22.40	22.40	22.35	8.09	8.09	8.09	32.97	32.97	32.99	70.8	71.1	71.0	5.08	5.10	5.09	3.11	3.37	3.25	9	9.00
	15:07		Middle	2.0	22.30	22.30		8.08	8.08		33.01	33.01		71.0	71.0		5.09	5.09		3.25	3.25		9	
30/11/2012	17:35	Cloudy	Middle	2.0	22.40	22.40	22.40	7.96	7.96	7.96	32.95	32.95	32.95	86.3	86.7	86.3	6.19	6.22	6.19	8.85	9.06	8.87	7	6.50
	17:36		Middle	2.0	22.40	22.40		7.96	7.96		32.95	32.95		86.6	85.5		6.21	6.13		9.04	8.52		6	
3/12/2012	7:56	Cloudy	Middle	2.0	21.10	21.10	21.10	7.95	7.95	7.95	31.97	31.97	31.97	82.9	83.5	83.4	6.12	6.17	6.17	6.34	6.04	6.27	9	9.50
	7:57		Middle	2.0	21.10	21.10		7.95	7.95		31.97	31.97		83.8	83.4		6.20	6.17		6.36	6.33		10	
5/12/2012	13:39	Cloudy	Middle	2.0	21.00	21.00	20.90	7.96	7.96	7.96	32.23	32.23	32.24	74.3	72.3	72.9	5.49	5.34	5.39	6.27	6.36	6.31	7	6.50
	13:41		Middle	2.0	20.80	20.80		7.96	7.96		32.24	32.24		72.6	72.4		5.37	5.34		6.21	6.41		6	
7/12/2012	11:50	Fine	Middle	2.0	21.10	21.10	21.10	8.00	8.00	8.00	33.12	33.12	33.12	87.0	88.4	88.2	6.39	6.49	6.48	6.43	5.87	6.12	9	9.00
	11:52		Middle	2.0	21.10	21.10		8.00	8.00		33.12	33.12		88.4	88.8		6.49	6.53		6.07	6.09		9	
10/12/2012	17:17	Fine	Middle	2.0	20.50	20.50	20.45	8.02	8.02	8.02	33.35	33.35	33.36	92.8	94.6	92.8	6.88	7.01	6.88	6.26	6.35	6.31	8	7.50
	17:19		Middle	2.0	20.40	20.40		8.02	8.02		33.36	33.36		92.4	91.2		6.83	6.79		6.53	6.08		7	
12/12/2012	14:15	Fine	Middle	2.5	20.80	20.80	20.85	7.97	7.97	7.96	33.14	33.14	33.17	78.7	79.1	79.3	5.80	5.82	5.84	3.71	3.74	3.73	3	2.50
	14:16		Middle	2.5	20.90	20.90		7.95	7.95		33.19	33.19		79.8	79.4		5.87	5.85		3.77	3.68		2	
15/12/2012	9:51	Fine	Middle	1.5	21.70	21.70	21.80	7.89	7.89	7.89	32.44	32.44	32.46	75.2	74.7	74.7	5.46	5.42	5.42	8.19	8.76	8.58	5	5.50
	9:53		Middle	1.5	21.90	21.90		7.89	7.89		32.47	32.47		74.6	74.3		5.41	5.39		8.74	8.62		6	
18/12/2012	11:18	Fine	Middle	2.0	20.20	20.20	20.15	7.90	7.90	7.91	32.54	32.54	32.54	78.8	77.2	78.3	5.90	5.78	5.87	6.58	6.42	6.56	14	13.50
	11:20		Middle	2.0	20.10	20.10		7.91	7.91		32.54	32.54		78.8	78.5		5.90	5.88		6.99	6.23		13	
20/12/2012	12:46	Fine	Middle	2.0	19.70	19.70	19.70	7.95	7.95	7.95	33.21	33.21	33.21	70.2	68.4	67.3	5.28	5.12	5.05	2.05	2.31	2.18	4	4.50
	12:48		Middle	2.0	19.70	19.70		7.95	7.95		33.21	33.21		66.3	64.2		4.96	4.83		2.23	2.11		5	
22/12/2012	14:20	Fine	Middle	2.0	20.60	20.60	20.70	7.90	7.90	7.90	32.64	32.64	32.62	79.2	78.9	78.8	5.86	5.84	5.81	6.54	6.40	6.37	12	11.50
	14:22		Middle	2.0	20.80	20.80		7.89	7.89		32.60	32.60		78.3	78.6		5.80	5.74		6.23	6.30		11	
24/12/2012	13:55	Fine	Middle	2.0	18.80	18.80	18.80	7.97	7.97	7.98	32.76	32.76	32.77	87.8	88.0	88.0	6.73	6.74	6.74	6.40	7.01	6.75	7	7.50
	13:57		Middle	2.0	18.80	18.80		7.98	7.98		32.78	32.78		88.2	88.0		6.76	6.74		6.85	6.72		8	
* 26/12/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
*As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 was temporary suspended on 26 December 2012 during mid-flood.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	15:24	Cloudy	Middle	1.5	22.30	22.30	22.30	8.03	8.03	8.03	32.26	32.26	32.26	60.6	60.8	60.7	4.38	4.40	4.40	1.83	2.11	2.04	5	5.00
	15:26		Middle	1.5	22.30	22.30		8.03	8.03		32.26	32.26		60.9	60.6		4.41	4.39		2.12	2.10		5	
30/11/2012	17:10	Cloudy	Middle	1.5	22.30	22.30	22.30	7.91	7.91	7.91	32.23	32.23	32.23	74.8	76.0	75.2	5.39	5.48	5.42	3.80	3.75	3.83	2	2.00
	17:11		Middle	1.5	22.30	22.30		7.90	7.90		32.23	32.23		75.3	74.6		5.43	5.38		3.87	3.91		2	
3/12/2012	7:32	Cloudy	Middle	1.5	20.70	20.70	20.70	7.85	7.85	7.85	29.59	29.59	29.58	77.1	77.6	77.3	5.82	5.86	5.83	6.77	6.39	6.66	9	8.00
	7:33		Middle	1.5	20.70	20.70		7.85	7.85		29.57	29.57		77.4	77.0		5.85	5.80		6.72	6.77		7	
5/12/2012	13:21	Cloudy	Middle	1.5	20.90	20.90	20.85	7.86	7.86	7.86	31.80	31.80	31.80	69.0	68.9	68.6	5.12	5.12	5.10	4.61	4.57	4.59	7	7.00
	13:23		Middle	1.5	20.80	20.80		7.86	7.86		31.80	31.80		68.4	68.2		5.08	5.07		4.59	4.60		7	
7/12/2012	11:37	Fine	Middle	1.5	21.40	21.40	21.40	7.88	7.88	7.88	32.41	32.41	32.41	71.6	72.0	72.3	5.24	5.27	5.29	4.66	4.81	4.33	4	4.00
	11:39		Middle	1.5	21.40	21.40		7.88	7.88		32.41	32.41		72.6	72.9		5.31	5.34		4.41	3.42		4	
10/12/2012	17:00	Fine	Middle	2.0	20.90	20.90	20.85	7.91	7.91	7.91	32.44	32.44	32.45	74.1	74.2	73.9	5.48	5.48	5.47	4.65	4.50	4.60	5	5.50
	17:02		Middle	2.0	20.80	20.80		7.91	7.91		32.46	32.46		74.0	73.4		5.47	5.43		4.49	4.74		6	
12/12/2012	14:30	Fine	Middle	1.5	20.70	20.70	20.70	7.89	7.89	7.88	32.55	32.55	32.58	61.0	60.6	61.1	4.52	4.49	4.53	3.67	3.70	3.69	3	3.00
	14:32		Middle	1.5	20.70	20.70		7.86	7.86		32.61	32.61		61.6	61.1		4.56	4.53		3.74	3.66		3	
15/12/2012	9:21	Fine	Middle	1.5	21.40	21.40	21.40	7.83	7.83	7.82	32.32	32.32	32.31	66.2	66.1	65.9	4.85	4.84	4.82	5.24	5.01	5.32	9	9.00
	9:29		Middle	1.5	21.40	21.40		7.81	7.81		32.30	32.30		65.7	65.4		4.80	4.78		5.51	5.53		9	
18/12/2012	11:00	Fine	Middle	1.5	20.40	20.40	20.40	7.80	7.80	7.79	32.12	32.12	32.13	57.7	57.2	56.8	4.31	4.28	4.24	6.29	6.39	6.39	11	12.00
	11:02		Middle	1.5	20.40	20.40		7.78	7.78		32.14	32.14		56.4	55.9		4.21	4.17		6.21	6.65		13	
20/12/2012	12:35	Fine	Middle	1.5	19.70	19.70	19.70	7.80	7.80	7.80	32.61	32.61	32.62	61.7	62.4	60.0	4.67	4.72	4.54	2.27	2.35	2.12	6	5.50
	12:37		Middle	1.5	19.70	19.70		7.80	7.80		32.63	32.63		59.3	56.4		4.49	4.27		1.89	1.97		5	
22/12/2012	13:58	Fine	Middle	1.5	20.60	20.60	20.70	7.81	7.81	7.81	31.37	31.37	31.64	58.1	58.6	58.2	4.32	4.36	4.33	2.26	2.19	2.19	7	6.50
	14:00		Middle	1.5	20.80	20.80		7.81	7.81		32.40	31.40		58.5	57.5		4.36	4.28		2.17	2.15		6	
24/12/2012	13:40	Fine	Middle	1.5	19.10	19.10	19.10	8.00	8.00	8.00	32.06	32.06	32.04	70.5	70.4	70.6	5.39	5.38	5.40	4.12	4.04	4.00	<2	<2
	13:42		Middle	1.5	19.10	19.10		8.00	8.00		32.02	32.02		70.4	71.1		5.39	5.44		3.86	3.97		<2	
26/12/2012	16:02	Cloudy	Middle	1.5	19.50	19.50	19.50	7.95	7.95	7.95	32.12	32.12	32.12	89.5	89.9	89.9	6.80	6.82	6.83	3.01	3.22	3.09	5	4.50
	16:03		Middle	1.5	19.50	19.50		7.95	7.95		32.12	32.12		89.5	90.8		6.80	6.90		3.13	3.00		4	

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

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

Date	Time	Weater Condition	Sampling Depth m		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	16:12	Cloudy	Middle	2.5	22.40	22.40	22.40	7.94	7.94	7.94	32.96	32.96	32.96	74.8	74.1	75.1	5.38	5.33	5.41	4.20	4.31	4.25	6	5.00
	16:14		Middle	2.5	22.40	22.40		7.94	7.94		32.96	32.96		75.5	76.0		5.44	5.47		4.22	4.27		4	
30/11/2012	16:58	Cloudy	Middle	2.5	22.20	22.20	22.10	7.87	7.87	7.87	33.00	33.00	33.00	72.1	71.8	71.7	5.19	5.17	5.17	3.09	3.05	3.04	<2	<2
	16:59		Middle	2.5	22.00	22.00		7.87	7.87		32.99	32.99		71.6	71.4		5.16	5.15		3.04	2.99		<2	
3/12/2012	7:13	Cloudy	Middle	2.0	21.60	21.60	21.60	8.04	8.04	8.04	33.00	33.00	33.01	71.1	70.3	70.5	5.20	5.15	5.17	2.62	2.62	2.56	4	4.00
	7:15		Middle	2.0	21.60	21.60		8.03	8.03		33.01	33.01		70.4	70.3		5.16	5.15		2.51	2.48		4	
5/12/2012	12:21	Cloudy	Middle	2.0	21.10	21.10	21.00	7.88	7.88	7.87	32.94	32.94	32.97	68.0	67.7	68.1	5.02	5.00	5.04	4.07	4.11	4.08	9	8.50
	12:23		Middle	2.0	20.90	20.90		7.86	7.86		32.99	32.99		68.7	68.0		5.09	5.03		4.08	4.05		8	
7/12/2012	12:25	Fine	Middle	2.5	21.20	21.20	21.20	7.64	7.64	7.64	33.09	33.09	33.09	63.3	60.5	59.8	4.63	4.43	4.38	6.58	7.15	6.93	9	8.00
	12:27		Middle	2.5	21.20	21.20		7.64	7.64		33.09	33.09		58.4	56.9		4.28	4.17		7.15	6.84		7	
10/12/2012	14:31	Fine	Middle	2.5	20.10	20.10	20.15	7.88	7.88	7.87	32.99	32.99	32.98	72.0	71.0	71.8	5.37	5.29	5.36	1.84	1.87	1.81	4	3.50
	14:33		Middle	2.5	20.20	20.20		7.86	7.86		32.97	32.97		72.4	71.7		5.40	5.36		1.78	1.76		3	
12/12/2012	15:15	Fine	Middle	2.5	20.50	20.50	20.35	8.04	8.04	8.02	33.16	33.16	33.17	80.7	80.4	80.7	6.01	6.00	6.02	3.84	3.65	3.77	3	3.00
	15:17		Middle	2.5	20.20	20.20		8.00	8.00		33.18	33.18		81.2	80.4		6.06	6.01		3.70	3.88		3	
* 15/12/2012	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
18/12/2012	10:10	Fine	Middle	2.0	20.30	20.30	20.30	7.84	7.84	7.84	32.93	32.93	32.93	74.1	74.2	74.3	5.53	5.54	5.55	2.67	2.50	2.55	7	7.50
	10:12		Middle	2.0	20.30	20.30		7.84	7.84		32.93	32.93		74.4	74.3		5.56	5.55		2.57	2.45		8	
20/12/2012	11:56	Fine	Middle	2.0	19.70	19.70	20.00	7.95	7.95	7.95	33.24	33.24	33.24	79.4	78.0	78.9	5.99	5.89	5.96	1.80	2.39	2.18	5	5.00
	11:58		Middle	2.0	20.90	19.70		7.95	7.95		33.24	33.24		79.0	79.2		5.97	5.98		2.28	2.25		5	
22/12/2012	13:06	Fine	Middle	2.0	19.80	19.80	19.80	7.90	7.90	7.90	33.25	33.25	33.25	78.1	78.5	78.2	5.89	5.93	5.91	5.28	5.70	5.63	8	8.00
	13:08		Middle	2.0	19.80	19.80		7.90	7.90		33.25	33.25		78.3	77.9		5.92	5.89		5.93	5.59		8	
24/12/2012	14:52	Fine	Middle	2.5	18.70	18.70	18.70	7.94	7.94	7.94	33.17	33.17	33.17	77.7	78.2	77.9	5.99	6.04	6.02	4.35	4.29	4.30	2	2.50
	14:54		Middle	2.5	18.70	18.70		7.94	7.94		33.17	33.17		77.8	77.9		6.01	6.03		4.30	4.25		3	
26/12/2012	17:43	Cloudy	Middle	3.0	19.10	19.10	19.10	7.83	7.83	7.82	33.04	33.04	33.04	81.3	81.1	80.9	6.27	6.26	6.25	3.76	3.74	3.73	4	4.00
	17:45		Middle	3.0	19.10	19.10		7.81	7.81		33.04	33.04		80.8	80.5		6.24	6.22		3.72	3.71		4	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
*Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood,
the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

Water Monitoring Result at C2 - TH / APA / SOC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	17:05	Cloudy	Middle	2.0	22.40	22.40	22.40	7.97	7.97	7.97	33.03	33.03	33.03	73.1	73.3	73.5	5.25	5.27	5.29	4.48	4.26	4.37	5	5.00
	17:07		Middle	2.0	22.40	22.40		7.97	7.97		33.03	33.03		73.7	74.0		5.30	5.33		4.36	4.38		5	
30/11/2012	16:41	Cloudy	Middle	2.0	22.10	22.10	22.05	7.89	7.89	7.88	33.02	33.02	33.02	70.4	70.2	70.1	5.09	5.08	5.08	3.31	3.30	3.30	3	2.50
	16:43		Middle	2.0	22.00	22.00		7.87	7.87		33.01	33.01		70.0	69.8		5.07	5.06		3.29	3.28		2	
3/12/2012	7:01	Cloudy	Middle	1.5	21.50	21.50	21.40	9.52	9.52	9.51	32.64	32.64	32.63	62.5	62.3	62.0	4.58	4.57	4.55	1.58	1.55	1.60	4	3.50
	7:03		Middle	1.5	21.30	21.30		9.50	9.50		32.62	32.62		62.0	61.3		4.55	4.49		1.55	1.70		3	
5/12/2012	11:23	Cloudy	Middle	1.5	21.00	21.00	20.95	8.19	8.19	8.19	32.99	32.99	32.99	63.0	64.7	63.8	4.63	4.76	4.70	2.95	3.01	2.97	7	7.50
	11:25		Middle	1.5	20.90	20.90		8.19	8.19		32.99	32.99		64.4	63.2		4.75	4.66		2.97	2.96		8	
7/12/2012	12:15	Fine	Middle	2.0	21.10	21.10	21.10	7.47	7.47	7.47	33.22	33.22	33.22	71.1	71.6	70.9	5.22	5.25	5.20	6.95	7.14	6.92	4	4.00
	12:17		Middle	2.0	21.10	21.10		7.47	7.47		33.22	33.22		71.0	69.8		5.21	5.12		6.83	6.77		4	
10/12/2012	14:23	Fine	Middle	2.0	20.60	20.60	20.70	7.91	7.91	7.90	33.07	33.07	33.09	75.6	74.5	75.5	5.57	5.49	5.56	1.02	1.07	1.05	4	3.50
	14:25		Middle	2.0	20.80	20.80		7.89	7.89		33.10	33.10		76.4	75.4		5.63	5.56		1.05	1.04		3	
12/12/2012	16:10	Fine	Middle	2.0	20.50	20.50	20.50	7.96	7.96	7.95	33.20	33.20	33.21	78.4	77.7	77.9	5.81	5.76	5.78	4.81	4.76	4.76	3	3.00
	16:12		Middle	2.0	20.50	20.50		7.94	7.94		33.21	33.21		78.7	76.9		5.83	5.71		4.74	4.72		3	
15/12/2012	8:20	Fine	Middle	1.5	20.80	20.80	20.80	7.85	7.85	7.85	33.11	33.11	33.11	71.9	71.3	71.8	5.29	5.25	5.29	3.21	3.09	3.17	6	6.00
	8:22		Middle	1.5	20.80	20.80		7.85	7.85		33.11	33.11		72.0	72.1		5.30	5.31		3.26	3.10		6	
18/12/2012	9:49	Fine	Middle	2.0	20.90	20.90	20.90	8.11	8.11	8.11	32.80	32.80	32.80	76.7	77.4	77.1	5.75	5.70	5.76	3.75	3.56	3.68	18	**17.50**
	9:51		Middle	2.0	20.90	20.90		8.11	8.11		32.80	32.80		77.0	77.2		5.78	5.79		3.78	3.64		17	
20/12/2012	10:55	Fine	Middle	2.0	19.90	19.90	19.90	8.10	8.10	8.10	33.32	33.32	33.32	73.6	73.2	73.7	5.52	5.50	5.54	2.00	2.01	2.09	6	5.50
	10:57		Middle	2.0	19.90	19.90		8.10	8.10		33.32	33.32		74.5	73.6		5.59	5.53		2.05	2.28		5	
22/12/2012	12:50	Fine	Middle	2.0	20.20	20.20	20.20	7.92	7.92	7.92	33.16	33.16	33.16	71.2	72.3	72.3	5.29	5.38	5.38	4.78	3.83	4.11	8	8.00
	12:52		Middle	2.0	20.20	20.20		7.92	7.92		33.16	33.16		73.0	72.5		5.46	5.39		3.98	3.86		8	
24/12/2012	14:33	Fine	Middle	2.0	19.30	19.30	19.30	7.94	7.94	7.94	33.29	33.29	33.29	79.1	78.5	79.2	5.99	5.90	5.96	3.18	3.12	3.19	2	2.00
	14:35		Middle	2.0	19.30	19.30		7.94	7.94		33.29	33.29		79.7	79.6		5.97	5.98		3.25	3.20		2	
26/12/2012	15:13	Cloudy	Middle	2.5	19.50	19.50	19.45	7.84	7.84	7.84	33.17	33.17	33.18	66.3	66.1	66.1	5.00	4.99	4.99	2.94	2.92	2.91	4	4.50
	15:15		Middle	2.5	19.40	19.40		7.83	7.83		33.18	33.18		66.0	65.9		4.99	4.98		2.90	2.89		5	

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

Water Monitoring Result at C3 - HKCEC Phase I
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	16:49	Cloudy	Middle	3.5	22.80	22.80	22.80	7.94	7.94	7.94	32.85	32.85	32.85	61.8	62.6	62.5	4.41	4.47	4.46	2.80	2.82	2.82	3	3.50
	16:51		Middle	3.5	22.80	22.80		7.94	7.94		32.85	32.85		62.7	62.9		4.47	4.49		2.93	2.72		4	
30/11/2012	18:45	Cloudy	Middle	2.5	22.30	22.30	22.25	7.84	7.84	7.84	32.85	32.85	32.86	62.6	62.4	62.3	4.51	4.50	4.49	3.71	3.69	3.68	3	2.50
	18:48		Middle	2.5	22.20	22.20		7.84	7.84		32.86	32.86		62.1	62.0		4.48	4.47		3.66	3.64		2	
3/12/2012	8:12	Cloudy	Middle	3.0	22.10	22.10	22.15	8.91	8.91	8.92	32.90	32.90	32.89	57.2	56.8	57.2	4.14	4.11	4.15	1.78	1.77	1.66	6	7.00
	8:14		Middle	3.0	22.20	22.20		8.93	8.93		32.88	32.88		57.3	57.5		4.16	4.17		1.57	1.51		8	
5/12/2012	11:31	Cloudy	Middle	3.5	21.40	21.40	21.35	7.86	7.86	7.86	32.65	32.65	32.72	52.5	52.4	53.0	3.85	3.85	3.89	3.15	3.03	3.04	5	5.50
	11:33		Middle	3.5	21.30	21.30		7.85	7.85		32.78	32.78		53.4	53.8		3.93	3.92		2.96	3.01		6	
7/12/2012	13:17	Fine	Middle	3.0	21.00	21.00	21.00	7.86	7.86	7.86	33.02	33.02	33.02	54.9	55.6	55.6	4.03	4.09	4.09	3.85	3.94	3.83	3	3.00
	13:20		Middle	3.0	21.00	21.00		7.86	7.86		33.02	33.02		55.6	56.3		4.09	4.15		3.71	3.83		3	
10/12/2012	15:37	Fine	Middle	3.5	20.60	20.60	20.50	7.85	7.85	7.85	32.96	32.96	32.98	63.9	62.4	63.5	4.76	4.64	4.73	0.47	0.45	0.48	3	3.50
	15:39		Middle	3.5	20.40	20.40		7.84	7.84		32.99	32.99		64.0	63.6		4.76	4.74		0.46	0.53		4	
12/12/2012	15:55	Fine	Middle	3.0	20.90	20.90	20.80	7.85	7.85	7.85	32.86	32.86	32.85	65.7	65.2	65.7	4.86	4.82	4.86	5.90	5.80	5.79	6	5.00
	15:57		Middle	3.0	20.70	20.70		7.85	7.85		32.84	32.84		66.2	65.8		4.90	4.87		5.65	5.82		4	
15/12/2012	9:42	Fine	Middle	3.0	21.00	21.00	21.00	7.84	7.84	7.84	33.00	33.00	33.00	65.5	65.8	66.1	4.81	4.83	4.86	2.12	2.32	2.21	6	5.50
	9:44		Middle	3.0	21.00	21.00		7.84	7.84		33.00	33.00		66.4	66.7		4.88	4.90		2.37	2.02		5	
18/12/2012	11:20	Fine	Middle	2.5	20.80	20.80	20.80	7.76	7.76	7.76	32.66	32.66	32.66	56.7	57.4	57.2	4.20	4.25	4.24	1.72	1.83	1.79	9	8.50
	11:22		Middle	2.5	20.80	20.80		7.76	7.76		32.66	32.66		57.5	57.2		4.26	4.23		1.94	1.68		8	
20/12/2012	11:04	Fine	Middle	3.5	20.00	20.00	20.00	7.87	7.87	7.87	33.07	33.07	33.07	66.2	67.1	67.3	4.97	5.04	5.05	2.78	2.95	2.87	6	5.50
	11:06		Middle	3.5	20.00	20.00		7.87	7.87		33.07	33.07		67.7	68.1		5.08	5.11		2.81	2.94		5	
22/12/2012	14:12	Fine	Middle	3.0	19.90	19.90	19.90	7.84	7.84	7.84	32.98	32.98	32.98	61.0	60.8	60.7	4.60	4.59	4.57	3.57	3.54	3.61	8	7.50
	14:14		Middle	3.0	19.90	19.90		7.84	7.84		32.98	32.98		60.7	60.2		4.56	4.51		3.64	3.68		7	
24/12/2012	15:55	Fine	Middle	3.5	18.50	18.50	18.50	7.88	7.88	7.88	33.15	33.15	33.15	63.7	63.5	63.2	4.94	4.92	4.90	4.49	4.85	4.76	2	2.00
	15:57		Middle	3.5	18.50	18.50		7.88	7.88		33.15	33.15		62.8	62.7		4.87	4.86		4.71	5.00		2	
26/12/2012	15:33	Cloudy	Middle	3.0	19.10	19.10	19.05	7.95	7.95	7.93	33.07	33.07	33.08	68.9	68.7	68.6	5.21	5.20	5.20	5.03	5.00	4.99	10	9.50
	15:35		Middle	3.0	19.00	19.00		7.90	7.90		33.08	33.08		68.5	68.4		5.19	5.19		4.97	4.95		9	

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

Water Monitoring Result at C4e - WCT / GEC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	16:40	Cloudy	Middle	2.0	22.60	22.60	22.60	8.02	8.02	8.02	32.88	32.88	32.88	70.3	70.7	71.1	5.04	5.07	5.10	2.74	2.73	2.67	4	5.00
	16:42		Middle	2.0	22.60	22.60		8.02	8.02		32.88	32.88		71.3	71.9		5.11	5.16		2.63	2.56		6	
30/11/2012	17:51	Cloudy	Middle	2.0	22.70	22.70	22.65	7.86	7.86	7.86	32.83	32.83	32.83	64.9	64.7	64.5	4.64	4.63	4.62	2.81	2.79	2.77	3	2.50
	17:53		Middle	2.0	22.60	22.60		7.86	7.86		32.82	32.82		64.3	64.2		4.61	4.60		2.76	2.73		2	
3/12/2012	8:00	Cloudy	Middle	1.5	21.50	21.50	21.40	8.45	8.45	8.46	31.92	31.92	31.94	47.5	46.9	46.7	3.49	3.45	3.43	1.22	1.24	1.27	4	4.50
	8:02		Middle	1.5	21.30	21.30		8.46	8.46		31.95	31.95		46.6	45.8		3.42	3.37		1.30	1.32		5	
5/12/2012	11:45	Cloudy	Middle	2.0	21.50	21.50	21.40	8.02	8.02	8.01	31.87	31.87	31.87	55.6	55.0	55.6	4.09	4.05	4.10	1.01	1.02	1.02	6	5.50
	11:47		Middle	2.0	21.30	21.30		7.99	7.99		31.86	31.86		56.1	55.7		4.14	4.11		1.01	1.04		5	
7/12/2012	13:05	Fine	Middle	1.5	21.40	21.40	21.30	7.59	7.59	7.59	32.84	32.84	32.85	62.6	63.2	60.7	4.59	4.63	4.45	7.78	7.44	7.49	13	12.00
	13:07		Middle	1.5	21.20	21.20		7.59	7.59		32.86	32.86		60.3	56.8		4.42	4.16		7.31	7.43		11	
10/12/2012	15:15	Fine	Middle	1.5	21.00	21.00	20.85	7.87	7.87	7.86	32.90	32.90	32.92	67.3	65.9	66.8	4.97	4.82	4.93	0.89	0.85	0.86	4	3.50
	15:17		Middle	1.5	20.70	20.70		7.85	7.85		32.94	32.94		67.6	66.3		5.00	4.91		0.86	0.82		3	
12/12/2012	15:44	Fine	Middle	2.0	20.90	20.90	20.85	7.90	7.90	7.88	32.78	32.78	32.81	69.1	68.6	69.0	5.12	5.08	5.12	7.64	7.84	7.72	6	7.00
	15:45		Middle	2.0	20.80	20.80		7.86	7.86		32.83	32.83		69.7	68.7		5.17	5.10		7.66	7.72		8	
15/12/2012	9:25	Fine	Middle	2.0	21.10	21.10	21.10	7.97	7.97	7.97	32.80	32.80	32.80	69.8	70.0	70.0	5.12	5.14	5.14	3.30	2.57	2.93	4	4.00
	9:27		Middle	2.0	21.10	21.10		7.97	7.97		32.80	32.80		69.9	70.2		5.14	5.17		2.97	2.88		4	
18/12/2012	11:00	Fine	Middle	2.0	20.40	20.40	20.40	7.90	7.90	7.90	32.80	32.80	32.80	64.4	64.6	64.9	4.82	4.84	4.86	0.71	0.62	0.70	6	5.50
	11:02		Middle	2.0	20.40	20.40		7.90	7.90		32.80	32.80		65.2	65.3		4.89	4.90		0.71	0.74		5	
20/12/2012	11:19	Fine	Middle	2.0	20.00	20.00	20.00	8.16	8.16	8.16	33.00	33.00	33.00	73.5	72.8	72.8	5.51	5.46	5.46	4.71	4.15	4.38	8	8.00
	11:21		Middle	2.0	20.00	20.00		8.16	8.16		33.00	33.00		72.4	72.3		5.43	5.43		4.33	4.34		8	
22/12/2012	13:58	Fine	Middle	2.0	20.00	20.00	20.00	7.88	7.88	7.88	32.94	32.94	32.94	63.8	63.1	63.6	4.79	4.74	4.78	6.61	6.88	6.54	7	6.50
	14:00		Middle	2.0	20.00	20.00		7.88	7.88		32.94	32.94		63.0	64.3		4.75	4.83		6.41	6.26		6	
24/12/2012	15:38	Fine	Middle	1.0	18.50	18.50	18.50	7.91	7.91	7.91	32.96	32.96	32.96	67.7	67.6	67.8	5.23	5.22	5.24	7.22	7.46	7.28	4	3.50
	15:40		Middle	1.0	18.50	18.50		7.91	7.91		32.96	32.96		67.8	68.0		5.24	5.26		7.09	7.33		3	
26/12/2012	16:04	Cloudy	Middle	2.0	19.00	19.00	18.90	8.01	8.01	7.96	33.03	33.03	33.03	70.6	70.5	70.2	5.38	5.38	5.37	5.39	5.37	5.35	5	5.00
	16:05		Middle	2.0	18.80	18.80		7.90	7.90		33.03	33.03		69.9	69.8		5.35	5.35		5.33	5.32		5	

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

Water Monitoring Result at C4w - WCT / GEC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	16:45	Cloudy	Middle	1.5	22.90	22.90	22.90	7.90	7.90	7.90	32.83	32.83	32.83	70.9	71.0	71.1	5.05	5.07	5.07	3.82	3.88	3.77	12	12.00
	16:47		Middle	1.5	22.90	22.90		7.90	7.90		32.83	32.83		71.2	71.4		5.08	5.09		3.65	3.72		12	
30/11/2012	18:22	Cloudy	Middle	2.0	22.80	22.80	22.65	7.84	7.84	7.85	32.82	32.82	32.82	63.3	63.0	63.0	4.54	4.52	4.52	2.78	2.75	2.75	<2	<2
	18:24		Middle	2.0	22.50	22.50		7.85	7.85		32.82	32.82		62.9	62.7		4.51	4.50		2.74	2.73		<2	
3/12/2012	8:05	Cloudy	Middle	1.5	22.00	22.00	21.95	8.75	8.75	8.76	32.81	32.81	32.82	51.8	51.4	51.1	3.76	3.73	3.71	5.45	5.31	5.30	6	6.50
	8:07		Middle	1.5	21.90	21.90		8.76	8.76		32.82	32.82		51.1	50.1		3.71	3.64		5.23	5.21		7	
5/12/2012	11:40	Cloudy	Middle	2.0	21.60	21.60	21.50	8.10	8.10	8.10	32.62	32.62	32.62	59.7	58.6	59.6	4.38	4.30	4.37	1.04	1.07	1.07	7	6.50
	11:42		Middle	2.0	21.40	21.40		8.10	8.10		32.62	32.62		60.2	59.9		4.41	4.40		1.10	1.08		6	
7/12/2012	13:10	Fine	Middle	1.5	21.50	21.50	21.50	7.96	7.96	7.95	32.88	32.88	32.89	58.7	59.5	57.5	4.29	4.35	4.20	3.72	3.64	3.58	3	3.50
	13:12		Middle	1.5	21.50	21.50		7.93	7.93		32.89	32.89		55.8	56.0		4.05	4.10		3.51	3.43		4	
10/12/2012	15:25	Fine	Middle	1.5	20.80	20.80	20.70	7.86	7.86	7.85	32.87	32.87	32.90	62.7	62.3	62.7	4.65	4.62	4.65	0.60	0.54	0.58	3	3.00
	15:27		Middle	1.5	20.60	20.60		7.84	7.84		32.93	32.93		63.2	62.4		4.70	4.62		0.57	0.61		3	
12/12/2012	15:50	Fine	Middle	2.0	20.90	20.90	20.80	7.85	7.85	7.85	32.91	32.91	32.92	64.8	62.7	63.9	4.78	4.64	4.73	5.26	5.24	5.24	4	5.00
	15:52		Middle	2.0	20.70	20.70		7.85	7.85		32.93	32.93		65.2	63.0		4.82	4.67		5.27	5.19		6	
15/12/2012	9:35	Fine	Middle	1.5	21.10	21.10	21.10	7.79	7.79	7.79	32.88	32.88	32.88	54.6	54.8	55.1	4.01	4.02	4.05	1.59	1.63	1.58	3	3.50
	9:37		Middle	1.5	21.10	21.10		7.79	7.79		32.88	32.88		55.4	55.7		4.06	4.09		1.42	1.66		4	
18/12/2012	11:10	Fine	Middle	2.0	20.40	20.40	20.40	7.77	7.77	7.77	32.81	32.81	32.81	64.2	65.2	65.3	4.79	4.87	4.88	1.28	1.43	1.32	7	6.50
	11:12		Middle	2.0	20.40	20.40		7.77	7.77		32.81	32.81		65.4	66.2		4.89	4.95		1.26	1.32		6	
20/12/2012	11:11	Fine	Middle	2.0	19.80	19.80	19.80	7.87	7.87	7.87	32.95	32.95	32.95	67.0	67.6	67.0	5.05	5.09	5.06	4.52	4.76	4.76	15	15.00
	11:13		Middle	2.0	19.80	19.80		7.87	7.87		32.95	32.95		66.1	67.2		5.04	5.07		4.76	5.01		15	
22/12/2012	14:06	Fine	Middle	2.0	19.80	19.80	19.80	7.80	7.80	7.80	32.87	32.87	32.87	58.6	58.1	58.6	4.41	4.38	4.42	4.05	3.89	4.06	5	4.50
	14:08		Middle	2.0	19.80	19.80		7.80	7.80		32.87	32.87		58.5	59.2		4.40	4.47		4.09	4.19		4	
24/12/2012	15:42	Fine	Middle	1.0	18.50	18.50	18.50	7.89	7.87	7.88	33.01	33.01	33.01	67.0	67.0	67.2	5.23	5.19	5.21	4.24	4.60	4.25	4	3.50
	15:44		Middle	1.0	18.50	18.50		7.87	7.89		33.01	33.01		66.8	68.0		5.17	5.26		4.16	4.00		3	
26/12/2012	15:47	Cloudy	Middle	2.0	18.90	18.90	18.85	7.93	7.93	7.92	33.07	33.07	33.08	69.1	68.9	68.7	5.27	5.26	5.25	4.28	4.23	4.23	4	3.50
	15:49		Middle	2.0	18.80	18.80		7.90	7.90		33.08	33.08		68.6	68.3		5.24	5.22		4.21	4.20		3	

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

Water Monitoring Result at C5e - Sun Hung Kai Centre
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	14:20	Cloudy	Middle	1.5	22.40	22.40	22.40	8.05	8.05	8.05	32.80	32.80	32.81	67.1	68.1	68.2	4.82	4.89	4.90	5.45	5.30	5.31	4	5.00
	14:22		Middle	1.5	22.40	22.40		8.05	8.05		32.81	32.81		68.2	69.3		4.90	4.98		5.28	5.21		6	
30/11/2012	19:28	Cloudy	Middle	1.5	22.30	22.30	22.30	7.97	7.97	7.97	33.04	33.04	33.04	93.1	93.7	93.4	6.69	6.73	6.71	4.24	4.25	4.15	<2	<2
	19:29		Middle	1.5	22.30	22.30		7.97	7.97		33.04	33.04		93.7	93.2		6.73	6.70		4.13	3.99		<2	
3/12/2012	9:52	Cloudy	Middle	1.0	21.60	21.60	21.60	7.93	7.93	7.93	32.64	32.64	32.64	81.1	81.7	81.5	5.91	5.97	5.95	4.13	4.39	4.42	4	4.50
	9:53		Middle	1.0	21.60	21.60		7.93	7.93		32.64	32.64		81.5	81.5		5.95	5.95		4.56	4.61		5	
5/12/2012	12:30	Cloudy	Middle	1.5	21.10	21.10	21.20	7.94	7.93	7.93	32.82	32.82	32.84	72.2	72.2	71.9	5.29	5.29	5.27	4.40	4.40	4.38	8	7.00
	12:32		Middle	1.5	21.30	21.30		7.93	7.93		32.85	32.85		71.6	71.4		5.25	5.23		4.22	4.50		6	
7/12/2012	10:55	Fine	Middle	1.5	21.80	21.80	21.80	7.95	7.95	7.95	32.72	32.72	32.72	75.7	76.3	76.0	5.49	5.53	5.51	3.28	3.68	3.63	<2	<2
	10:57		Middle	1.5	21.80	21.80		7.95	7.95		32.72	32.72		76.0	76.1		5.51	5.52		4.07	3.47		<2	
10/12/2012	16:05	Fine	Middle	1.0	20.90	20.90	20.90	7.94	7.94	7.95	33.11	33.11	33.12	85.7	85.0	84.3	6.31	6.25	6.20	4.42	4.16	4.24	4	5.00
	16:07		Middle	1.0	20.90	20.90		7.95	7.95		33.13	33.13		83.9	82.5		6.17	6.06		4.33	4.04		6	
12/12/2012	13:34	Fine	Middle	1.5	21.40	21.40	21.45	7.88	7.88	7.88	32.77	32.77	32.76	78.9	78.4	78.9	5.76	5.73	5.76	6.69	6.70	6.73	8	7.00
	13:35		Middle	1.5	21.50	21.50		7.88	7.88		32.75	32.75		79.0	79.2		5.76	5.78		6.80	6.74		6	
15/12/2012	8:40	Fine	Middle	2.0	21.50	21.50	21.50	7.85	7.85	7.85	32.50	32.50	32.50	64.7	63.9	62.4	4.99	4.70	4.62	2.12	2.03	2.06	6	5.50
	8:42		Middle	2.0	21.50	21.50		7.85	7.85		32.50	32.50		61.6	59.4		4.46	4.33		2.07	2.01		5	
18/12/2012	10:15	Fine	Middle	1.5	20.50	20.50	20.50	7.83	7.83	7.83	32.38	32.38	32.38	72.3	72.2	71.8	5.38	5.37	5.35	2.48	2.60	2.63	5	5.50
	10:17		Middle	1.5	20.50	20.50		7.83	7.83		32.38	32.38		71.7	71.1		5.34	5.30		2.70	2.72		6	
20/12/2012	13:10	Fine	Middle	1.5	19.90	19.90	19.85	7.87	7.87	7.87	32.73	32.73	32.75	64.5	63.4	64.4	4.85	4.77	4.84	1.04	1.06	1.06	2	2.00
	13:12		Middle	1.5	19.80	19.80		7.87	7.87		32.77	32.77		64.2	65.4		4.83	4.91		1.00	1.13		2	
22/12/2012	13:20	Fine	Middle	1.5	21.10	21.10	21.10	7.82	7.82	7.83	32.74	32.74	32.73	66.5	66.3	66.5	4.89	4.87	4.89	2.50	2.56	2.53	5	4.50
	13:22		Middle	1.5	21.10	21.10		7.83	7.83		32.72	32.72		66.5	66.7		4.89	4.90		2.46	2.60		4	
24/12/2012	13:00	Fine	Middle	2.0	18.70	18.70	18.70	8.04	8.04	8.04	33.13	33.13	33.12	73.2	71.5	71.1	5.61	5.48	5.45	3.40	3.26	3.38	4	3.00
	13:02		Middle	2.0	18.70	18.70		8.04	8.04		33.10	33.10		70.3	69.3		5.39	5.30		3.37	3.49		2	
26/12/2012	18:10	Cloudy	Middle	1.5	19.20	19.20	19.20	7.96	7.96	7.96	32.93	32.93	32.93	94.6	95.1	95.6	7.21	7.23	7.27	7.46	7.49	7.37	12	13.00
	18:11		Middle	1.5	19.20	19.20		7.96	7.96		32.93	32.93		96.8	95.9		7.36	7.29		7.32	7.21		14	

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

Water Monitoring Result at C5w - Sun Hung Kai Centre
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	14:15	Cloudy	Middle	1.5	22.50	22.50	22.50	8.07	8.07	8.07	32.60	32.60	32.60	48.8	50.5	49.6	3.50	3.62	3.56	6.69	6.37	6.45	6	6.50
	14:17		Middle	1.5	22.50	22.50		8.06	8.06		32.60	32.60		49.3	49.9		3.54	3.58		6.61	6.14		7	
30/11/2012	19:35	Cloudy	Middle	1.5	22.40	22.40	22.40	7.97	7.97	7.97	33.11	33.11	33.11	88.4	88.3	88.3	6.33	6.33	6.32	3.41	3.21	3.39	<2	<2
	19:36		Middle	1.5	22.40	22.40		7.97	7.97		33.11	33.11		88.3	88.0		6.32	6.30		3.73	3.22		<2	
3/12/2012	9:58	Cloudy	Middle	1.5	22.10	22.10	22.10	7.92	7.92	7.92	32.50	32.50	32.50	73.7	74.4	73.9	5.34	5.38	5.36	4.03	4.02	4.13	7	8.00
	9:59		Middle	1.5	22.10	22.10		7.92	7.92		32.50	32.50		74.1	73.5		5.37	5.33		4.39	4.09		9	
5/12/2012	12:34	Cloudy	Middle	1.5	21.20	21.20	21.20	7.97	7.97	7.96	32.61	32.61	32.62	70.8	71.6	71.6	5.20	5.26	5.26	4.38	4.47	4.43	6	6.50
	12:36		Middle	1.5	21.20	21.20		7.94	7.94		32.62	32.62		72.3	71.7		5.32	5.27		4.48	4.38		7	
7/12/2012	11:00	Fine	Middle	1.5	21.80	21.80	21.80	7.99	7.99	7.99	32.86	32.86	32.86	77.6	77.7	77.8	5.62	5.63	5.63	5.00	4.80	4.59	4	4.00
	11:02		Middle	1.5	21.80	21.80		7.99	7.99		32.86	32.86		78.0	77.8		5.65	5.63		4.25	4.30		4	
10/12/2012	16:10	Fine	Middle	1.0	20.90	20.90	20.90	7.95	7.95	7.95	33.14	33.14	33.15	83.0	84.5	83.4	6.11	6.23	6.14	4.30	4.10	4.14	4	5.00
	16:12		Middle	1.0	20.90	20.90		7.95	7.95		33.15	33.15		83.0	83.2		6.11	6.12		4.12	4.02		6	
12/12/2012	13:39	Fine	Middle	1.5	21.10	21.10	21.10	7.84	7.84	7.84	32.57	32.57	32.57	65.6	65.0	65.5	4.82	4.77	4.81	0.94	1.03	1.01	3	3.50
	13:40		Middle	1.5	21.10	21.10		7.83	7.83		32.57	32.57		66.2	65.1		4.86	4.78		0.99	1.06		4	
15/12/2012	8:35	Fine	Middle	2.0	21.60	21.60	21.60	7.88	7.88	7.88	32.62	32.62	32.62	60.7	59.4	59.0	4.42	4.33	4.29	4.67	4.57	4.53	5	5.50
	8:37		Middle	2.0	21.60	21.60		7.87	7.87		32.61	32.61		58.4	57.4		4.23	4.18		4.38	4.51		6	
18/12/2012	10:10	Fine	Middle	1.5	20.60	20.60	20.65	7.82	7.82	7.82	32.31	32.31	32.32	69.6	69.1	69.0	5.07	5.12	5.10	4.28	4.05	4.20	8	8.00
	10:12		Middle	1.5	20.70	20.70		7.82	7.81		32.33	32.33		68.6	68.6		5.10	5.10		4.37	4.09		8	
20/12/2012	13:15	Fine	Middle	1.5	20.00	20.00	19.95	7.94	7.94	7.95	32.78	32.78	32.79	79.7	79.6	78.7	5.98	5.95	5.90	3.77	3.57	3.65	7	7.00
	13:17		Middle	1.5	19.90	19.90		7.95	7.95		32.80	32.80		78.5	77.1		5.89	5.78		3.49	3.76		7	
22/12/2012	13:25	Fine	Middle	1.5	20.90	20.90	20.90	7.87	7.87	7.88	32.71	32.71	32.72	72.6	72.5	72.2	5.35	5.35	5.33	3.06	2.94	2.97	7	7.50
	13:27		Middle	1.5	20.90	20.90		7.88	7.88		32.72	32.72		72.2	71.5		5.33	5.28		3.03	2.86		8	
24/12/2012	13:04	Fine	Middle	2.0	18.80	18.80	18.80	7.97	7.97	7.97	32.74	32.74	32.72	71.6	71.0	70.8	5.49	5.44	5.42	6.90	7.35	7.26	9	8.50
	13:06		Middle	2.0	18.80	18.80		7.96	7.96		32.70	32.70		70.4	70.0		5.40	5.36		7.36	7.44		8	
26/12/2012	18:03	Cloudy	Middle	1.5	19.10	19.10	19.10	7.96	7.96	7.96	33.02	33.02	33.02	92.7	94.1	93.8	7.06	7.16	7.14	7.45	7.71	7.61	11	10.50
	18:04		Middle	1.5	19.10	19.10		7.96	7.96		33.02	33.02		94.2	94.0		7.17	7.15		7.61	7.68		10	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	16:25	Cloudy	Middle	2.0	22.70	22.70	22.70	8.02	8.02	8.02	32.94	32.94	32.94	69.2	72.0	71.6	4.96	5.15	5.12	6.62	6.74	6.70	8	8.00
	16:27		Middle	2.0	22.70	22.70		8.02	8.02		32.94	32.94		72.4	72.7		5.18	5.20		6.68	6.77		8	
30/11/2012	17:30	Cloudy	Middle	1.5	22.60	22.60	22.55	7.96	7.96	7.91	32.95	32.95	32.95	66.6	66.4	66.3	4.79	4.78	4.77	3.13	3.11	3.09	2	2.50
	17:32		Middle	1.5	22.50	22.50		7.86	7.86		32.94	32.94		66.2	66.0		4.76	4.75		3.06	3.04		3	
3/12/2012	7:30	Cloudy	Middle	2.0	22.20	22.20	22.20	8.62	8.62	8.63	31.91	31.91	31.91	44.0	44.2	44.1	3.20	3.21	**3.21**	6.34	6.32	6.38	10	10.50
	7:32		Middle	2.0	22.20	22.20		8.64	8.64		31.91	31.91		44.1	44.0		3.21	3.20		6.42	6.43		11	
5/12/2012	11:59	Cloudy	Middle	2.0	21.60	21.60	21.50	7.88	7.88	7.87	32.70	32.70	32.76	60.8	59.4	60.3	4.44	4.34	4.40	3.75	3.81	3.77	9	8.50
	12:01		Middle	2.0	21.40	21.40		7.86	7.86		32.81	32.81		61.0	59.8		4.45	4.37		3.77	3.76		8	
7/12/2012	12:45	Fine	Middle	2.5	21.40	21.40	21.40	7.67	7.67	7.67	33.02	33.02	33.03	67.7	67.8	68.0	4.96	4.96	4.73	5.24	4.93	5.08	3	3.00
	12:47		Middle	2.5	21.40	21.40		7.67	7.67		33.04	33.04		67.5	69.0		4.94	4.05		5.12	5.04		3	
10/12/2012	14:54	Fine	Middle	2.0	20.80	20.80	20.70	7.89	7.89	7.88	33.09	33.09	33.09	70.3	68.8	69.7	6.19	5.09	5.66	2.33	2.34	2.36	4	4.00
	14:56		Middle	2.0	20.60	20.60		7.87	7.87		33.08	33.08		70.6	69.2		6.22	5.12		2.40	2.36		4	
12/12/2012	15:30	Fine	Middle	2.0	20.70	20.70	20.60	7.92	7.92	7.91	33.07	33.07	33.11	74.1	72.6	73.7	5.49	5.38	5.47	4.62	4.57	4.58	4	4.50
	15:32		Middle	2.0	20.50	20.50		7.90	7.90		33.15	33.15		74.5	73.7		5.54	5.48		4.60	4.53		5	
15/12/2012	8:53	Fine	Middle	1.5	21.00	21.00	20.95	7.94	7.94	7.94	33.08	33.08	33.08	75.5	75.3	75.7	5.55	5.53	5.56	3.53	3.28	3.34	7	7.00
	8:55		Middle	1.5	20.90	20.90		7.93	7.93		33.08	33.08		75.7	76.3		5.56	5.60		3.30	3.26		7	
18/12/2012	10:30	Fine	Middle	2.0	20.50	20.50	20.50	7.90	7.90	7.90	32.81	32.81	32.81	65.4	66.6	67.0	4.90	4.95	5.01	2.24	3.07	2.60	6	6.00
	10:32		Middle	2.0	20.50	20.50		7.90	7.90		32.81	32.81		68.2	67.7		5.11	5.09		2.43	2.67		6	
20/12/2012	11:36	Fine	Middle	2.0	19.60	19.60	19.60	8.02	8.02	8.02	33.28	33.28	33.28	72.2	73.2	71.5	5.43	5.50	5.37	3.76	3.32	3.53	6	6.50
	11:38		Middle	2.0	19.60	19.60		8.02	8.02		33.28	33.28		70.7	69.7		5.31	5.24		3.81	3.21		7	
22/12/2012	13:30	Fine	Middle	2.0	19.70	19.70	19.70	8.02	8.02	8.02	33.12	33.12	33.12	73.2	73.6	73.4	5.54	5.56	5.55	5.53	5.67	5.44	9	8.50
	13:32		Middle	2.0	19.70	19.70		8.02	8.02		33.12	33.12		74.0	72.6		5.60	5.49		5.38	5.17		8	
24/12/2012	15:10	Fine	Middle	1.5	18.70	18.70	18.70	8.15	8.15	8.15	33.18	33.18	33.18	74.9	75.1	75.3	5.79	5.80	5.82	6.18	6.88	6.49	5	5.00
	15:12		Middle	1.5	18.70	18.70		8.15	8.15		33.18	33.18		75.2	75.9		5.80	5.87		6.41	6.49		5	
26/12/2012	16:50	Cloudy	Middle	2.0	19.00	19.00	18.95	7.93	7.93	7.90	33.12	33.12	33.12	76.5	76.4	76.3	5.86	5.86	5.85	6.80	6.77	6.76	10	9.50
	16:52		Middle	2.0	18.90	18.90		7.86	7.86		33.12	33.12		76.2	76.0		5.85	5.84		6.73	6.73		9	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2012	17:05	Cloudy	Middle	3.0	22.10	22.10	22.10	8.03	8.03	8.02	33.27	33.27	33.28	71.7	70.5	70.3	5.18	5.07	5.06	8.81	8.73	**8.77**	7	7.50
	17:07		Middle	3.0	22.10	22.10		8.00	8.00		33.29	33.29		69.6	69.4		5.01	4.97		8.75	8.78		8	
30/11/2012	20:10	Cloudy	Middle	2.0	22.20	22.20	22.20	7.97	7.97	7.97	33.15	33.15	33.15	94.6	95.7	95.2	6.80	6.88	6.84	6.69	6.65	6.63	4	4.00
	20:11		Middle	2.0	22.20	22.20		7.97	7.97		33.15	33.15		95.1	95.3		6.84	6.85		6.27	6.89		4	
3/12/2012	6:54	Cloudy	Middle	1.5	21.20	21.20	21.20	7.95	7.95	7.95	32.77	32.77	32.77	87.9	88.6	88.6	6.47	6.52	6.52	5.50	5.75	5.82	15	**14.50**
	6:55		Middle	1.5	21.20	21.20		7.95	7.95		32.77	32.77		88.8	89.0		6.53	6.55		6.26	5.76		14	
5/12/2012	14:50	Cloudy	Middle	2.5	20.30	20.30	20.30	7.92	7.92	7.92	32.91	32.91	32.92	79.8	78.9	78.6	5.95	5.87	5.86	4.62	4.66	4.52	12	12.50
	14:52		Middle	2.5	20.30	20.30		7.92	7.92		32.92	32.92		77.9	77.9		5.80	5.80		4.41	4.38		13	
7/12/2012	10:24	Fine	Middle	2.5	21.20	21.20	21.20	7.94	7.94	7.94	32.95	32.95	32.95	90.6	90.4	90.3	6.64	6.63	6.62	12.20	12.00	**12.20**	15	**16.00**
	10:26		Middle	2.5	21.20	21.20		7.94	7.94		32.95	32.95		90.0	90.1		6.59	6.60		13.10	11.50		17	
10/12/2012	15:40	Fine	Middle	2.5	20.50	20.50	20.50	7.90	7.90	7.90	33.04	33.04	33.05	84.6	84.5	84.4	6.27	6.27	6.26	4.51	4.52	4.39	6	5.50
	15:42		Middle	2.5	20.50	20.50		7.90	7.90		33.05	33.05		84.2	84.4		6.24	6.26		4.25	4.26		5	
12/12/2012	16:09	Fine	Middle	2.5	20.50	20.60	20.53	7.86	7.86	7.86	32.79	32.79	32.79	81.0	79.8	79.8	6.01	5.92	5.92	11.27	12.24	**11.56**	8	7.50
	16:11		Middle	2.5	20.50	20.50		7.85	7.85		32.78	32.78		79.2	79.0		5.88	5.87		11.46	11.27		7	
15/12/2012	8:15	Fine	Middle	2.5	21.00	21.00	21.00	6.75	6.75	6.75	32.71	32.71	32.72	58.5	57.9	57.6	4.30	4.25	4.23	3.16	3.15	3.12	8	7.00
	8:17		Middle	2.5	21.00	21.00		6.75	6.75		32.72	32.72		57.2	56.6		4.21	4.16		3.09	3.07		6	
18/12/2012	9:25	Fine	Middle	2.5	20.40	20.40	20.35	7.91	7.91	7.90	32.30	32.30	32.31	84.1	84.2	82.9	6.30	6.30	6.20	4.85	4.70	4.76	6	6.00
	9:27		Middle	2.5	20.30	20.30		7.88	7.88		32.31	32.31		81.6	81.5		6.11	6.10		4.60	4.87		6	
20/12/2012	12:40	Fine	Middle	2.5	19.40	19.40	19.35	7.91	7.91	7.92	32.74	32.74	32.76	76.9	77.3	77.1	5.84	5.87	5.86	2.21	1.97	2.06	3	3.00
	12:42		Middle	2.5	19.30	19.30		7.93	7.93		32.77	32.77		76.1	78.1		5.78	5.93		1.93	2.13		3	
22/12/2012	12:58	Fine	Middle	2.5	20.30	20.30	20.31	7.91	7.91	7.92	32.84	32.84	32.84	82.4	80.8	81.3	6.14	6.01	6.05	4.43	4.40	4.50	10	10.50
	13:00		Middle	2.5	20.32	20.30		7.92	7.92		32.84	32.84		81.6	80.4		6.07	5.98		4.67	4.48		11	
24/12/2012	16:25	Fine	Middle	2.5	18.50	18.50	18.40	7.99	7.99	7.99	32.91	32.91	32.93	79.7	79.5	79.5	6.15	6.13	6.13	1.42	1.56	1.59	3	3.00
	16:27		Middle	2.5	18.30	18.30		7.98	7.98		32.94	32.94		79.4	79.3		6.13	6.11		1.60	1.79		3	
26/12/2012	19:00	Cloudy	Middle	2.0	19.00	19.00	19.00	7.99	7.99	7.99	33.08	33.08	33.08	91.3	91.0	90.8	6.97	6.92	6.93	2.91	2.35	2.44	8	7.50
	19:01		Middle	2.0	19.00	19.00		7.99	7.99		33.08	33.08		90.2	90.7		6.89	6.92		2.22	2.26		7	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	0:25	Cloudy	Middle	2.0	22.10	22.10	22.10	8.25	8.25	8.25	32.12	32.12	32.12	93.8	93.8	93.6	8.17	8.16	8.15	6.93	6.66	6.90	10	9.00
	0:26		Middle	2.0	22.10	22.10		8.25	8.25		32.12	32.12		93.5	93.3		8.14	8.12		7.03	6.96		8	
1/12/2012	2:04	Cloudy	Middle	2.0	21.80	21.80	21.80	8.05	8.05	8.05	33.38	3.38	25.88	95.4	96.0	96.1	6.89	6.93	6.94	3.88	3.91	3.89	4	4.50
	2:05		Middle	2.0	21.80	21.80		8.05	8.05		33.38	33.38		96.1	96.9		6.94	6.99		3.85	3.90		5	
3/12/2012	2:04	Cloudy	Middle	2.0	21.10	21.10	21.10	8.05	8.05	8.05	33.32	33.32	33.32	93.6	93.8	93.8	6.87	6.88	6.88	4.94	4.92	4.89	11	10.50
	2:05		Middle	2.0	21.10	21.10		8.05	8.05		33.32	33.32		94.1	93.7		6.90	6.87		4.86	4.83		10	
5/12/2012	1:43	Cloudy	Middle	2.0	20.60	20.60	20.60	8.05	8.05	8.05	33.20	33.20	33.20	94.1	94.0	94.1	6.98	6.97	6.98	3.61	3.54	3.59	5	5.50
	1:44		Middle	2.0	20.60	20.60		8.05	8.05		33.20	33.20		94.1	94.0		6.99	6.96		3.50	3.72		6	
7/12/2012	2:50	Cloudy	Middle	2.0	19.60	19.60	19.60	8.04	8.04	8.04	33.22	33.22	33.22	92.5	93.4	93.3	6.97	7.04	7.03	3.38	3.12	3.30	3	3.50
	2:51		Middle	2.0	19.60	19.60		8.04	8.04		33.21	33.21		93.7	93.7		7.06	7.06		3.37	3.34		4	
10/12/2012	7:41	Fine	Middle	2.0	19.80	19.80	19.75	8.03	8.03	8.04	33.28	33.28	33.30	91.8	91.1	92.5	6.89	6.84	6.95	3.38	3.36	3.45	4	5.00
	7:43		Middle	2.0	19.70	19.70		8.04	8.04		33.31	33.31		93.6	93.6		7.03	7.03		3.45	3.61		6	
12/12/2012	23:10	Cloudy	Middle	2.0	19.60	19.60	19.60	8.06	8.06	8.06	33.52	33.52	33.52	98.4	99.6	99.0	7.40	7.51	7.45	2.65	2.79	2.70	4	4.00
	23:11		Middle	2.0	19.60	19.60		8.06	8.06		33.52	33.52		99.3	98.6		7.47	7.42		2.69	2.67		4	
15/12/2012	0:15	Fine	Middle	2.0	21.00	21.00	21.00	8.06	8.06	8.06	33.48	33.48	33.48	96.5	97.6	97.4	7.07	7.15	7.13	1.99	1.96	2.01	4	4.00
	0:16		Middle	2.0	21.00	21.00		8.06	8.06		33.48	33.48		98.0	97.4		7.17	7.14		2.04	2.05		4	
18/12/2012	2:00	Cloudy	Middle	2.5	20.60	20.60	20.60	8.02	8.02	8.02	33.23	33.23	33.23	94.7	94.1	93.6	7.00	6.95	6.91	0.70	0.63	0.67	5	5.00
	2:01		Middle	2.5	20.60	20.60		8.02	8.02		33.23	33.23		92.8	92.7		6.84	6.84		0.68	0.65		5	
20/12/2012	2:47	Cloudy	Middle	2.5	18.60	18.60	18.60	8.07	8.07	8.07	33.31	33.31	33.32	96.7	97.9	97.9	7.43	7.52	7.51	0.92	0.88	0.86	3	3.00
	2:48		Middle	2.5	18.60	18.60		8.07	8.07		33.32	33.32		98.5	98.3		7.57	7.52		0.80	0.83		3	
22/12/2012	20:21	Cloudy	Middle	2.0	19.00	19.00	19.00	8.08	8.08	8.08	33.37	33.37	33.37	99.1	99.6	98.9	7.53	7.58	7.53	0.64	0.46	0.51	6	5.50
	20:22		Middle	2.0	19.00	19.00		8.08	8.08		33.37	33.37		99.5	97.5		7.57	7.42		0.49	0.43		5	
24/12/2012	21:28	Cloudy	Middle	2.0	18.10	18.10	18.10	8.11	8.11	8.11	33.38	33.38	33.38	99.2	99.8	98.5	7.73	7.72	7.64	2.86	2.52	2.38	4	3.50
	21:29		Middle	2.0	18.10	18.10		8.11	8.11		33.38	33.38		98.1	97.0		7.60	7.51		2.08	2.06		3	
26/12/2012	1:10	Cloudy	Middle	2.0	18.70	18.70	18.70	7.81	7.81	7.81	33.29	33.29	33.29	97.1	98.3	98.4	7.42	7.56	7.54	2.72	2.75	2.68	4	3.50
	1:11		Middle	2.0	18.70	18.70		7.81	7.81		33.29	33.29		99.6	98.5		7.61	7.58		2.60	2.65		3	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	2:07	Cloudy	Middle	3	22.20	22.20	22.20	8.49	8.49	8.49	32.71	32.71	32.71	83.7	83.5	83.2	6.02	6.02	5.86	5.11	5.44	5.29	9	10.00
	2:08		Middle	3	22.20	22.20		8.49	8.49		32.71	32.71		83.1	82.6		5.98	5.41		5.12	5.47		11	
1/12/2012	0:01	Cloudy	Middle	3	22.00	22.00	22.00	8.08	8.08	8.08	33.29	33.30	33.30	90.8	91.4	91.6	6.55	6.59	6.61	4.30	4.71	4.34	4	3.50
	0:02		Middle	3	22.00	22.00		8.08	8.08		33.30	33.30		91.9	92.4		6.62	6.66		4.32	4.04		3	
3/12/2012	3:34	Cloudy	Middle	3	21.40	21.40	21.40	8.00	8.00	8.00	33.06	33.06	33.06	88.0	89.5	89.1	6.43	6.54	6.51	4.95	5.22	5.13	4	4.00
	3:35		Middle	3	21.40	21.40		8.00	8.00		33.06	33.06		89.5	89.2		6.55	6.52		5.36	4.97		4	
5/12/2012	5:15	Cloudy	Middle	3	20.70	20.70	20.70	8.03	8.03	8.03	32.98	32.98	32.98	93.2	93.8	93.7	6.88	6.92	6.92	4.25	3.83	3.95	8	8.00
	5:16		Middle	3	20.70	20.70		8.03	8.03		32.98	32.98		94.1	93.6		6.95	6.91		3.97	3.76		8	
7/12/2012	5:20	Cloudy	Middle	3	20.20	20.20	20.20	8.09	8.09	8.09	33.46	33.46	33.46	98.6	98.7	97.5	7.35	7.35	7.25	3.88	3.93	3.93	4	4.50
	5:21		Middle	3	20.20	20.20		8.09	8.09		33.46	33.46		96.2	96.4		7.17	7.14		4.08	3.81		5	
10/12/2012	9:15	Fine	Middle	3	20.30	20.30	20.30	8.07	8.07	8.07	33.48	33.48	33.48	89.7	89.7	89.6	6.66	6.65	6.65	4.66	4.53	4.56	6	5.50
	9:17		Middle	3	20.30	20.30		8.07	8.07		33.48	33.48		89.4	89.4		6.63	6.64		4.43	4.60		5	
12/12/2012	2:52	Cloudy	Middle	3	19.80	19.80	19.80	8.01	8.01	8.01	33.11	33.11	33.11	96.9	96.8	96.7	7.28	7.27	7.27	2.19	2.26	2.33	3	3.00
	2:53		Middle	3	19.80	19.80		8.01	8.01		33.11	33.11		96.8	96.4		7.27	7.24		2.70	2.15		3	
15/12/2012	2:00	Fine	Middle	3	20.90	20.90	20.93	7.99	7.99	7.99	32.96	32.96	32.96	88.7	89.9	89.3	6.52	6.61	6.56	3.22	3.28	3.28	3	3.50
	2:01		Middle	3	21.00	20.90		7.99	7.99		32.96	32.96		89.6	89.0		6.58	6.54		3.30	3.33		4	
18/12/2012	3:52	Cloudy	Middle	3	20.50	20.50	20.50	8.01	8.01	8.01	33.23	33.23	33.23	94.4	94.4	94.1	6.98	6.98	6.96	2.08	2.14	2.07	8	8.00
	3:53		Middle	3	20.50	20.50		8.01	8.01		33.23	33.23		94.0	93.7		6.94	6.93		2.04	2.02		8	
20/12/2012	6:10	Cloudy	Middle	3	18.70	18.70	18.70	8.07	8.07	8.07	33.39	33.39	33.39	95.6	96.4	96.2	7.33	7.38	7.38	1.93	2.10	1.94	5	4.50
	6:11		Middle	3	18.70	18.70		8.07	8.07		33.39	33.39		96.8	96.1		7.42	7.37		1.80	1.94		4	
22/12/2012	22:12	Cloudy	Middle	3	18.60	18.60	18.60	8.09	8.09	8.09	33.42	33.42	33.42	97.9	99.3	99.1	7.50	7.61	7.59	4.89	4.41	4.41	8	7.50
	22:13		Middle	3	18.60	18.60		8.09	8.09		33.42	33.42		99.9	99.2		7.65	7.60		4.20	4.15		7	
24/12/2012	23:08	Cloudy	Middle	3	17.90	17.90	17.90	8.06	8.06	8.06	33.10	33.10	33.10	99.0	99.0	99.4	7.70	7.71	7.74	3.34	4.05	3.80	3	2.50
	23:09		Middle	3	17.90	17.90		8.06	8.06		33.10	33.10		99.8	99.8		7.77	7.77		4.11	3.70		2	
26/12/2012	22:55	Cloudy	Middle	3	19.00	19.00	19.00	7.93	7.93	7.93	32.83	32.83	32.83	96.9	97.0	96.4	7.40	7.40	7.35	3.81	3.96	3.80	3	3.00
	22:56		Middle	3	19.00	19.00		7.93	7.93		32.83	32.83		96.4	95.3		7.35	7.23		3.84	3.58		3	

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

Water Monitoring Result at C9 - Provident Centre
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	1:50	Cloudy	Middle	2	22.20	22.20	22.20	8.57	8.57	8.57	32.69	32.69	32.69	87.5	86.7	86.9	6.31	6.25	6.26	5.32	5.21	5.23	10	10.00
	1:51		Middle	2	22.20	22.20		8.57	8.57		32.69	32.69		86.9	86.5		6.26	6.23		5.18	5.22		10	
1/12/2012	23:45	Cloudy	Middle	2	21.90	21.90	21.90	8.06	8.06	8.06	33.34	33.34	33.34	95.3	95.8	95.7	6.88	6.92	6.91	4.81	4.91	4.90	3	4.00
	23:46		Middle	2	21.90	21.90		8.06	8.06		33.34	33.34		96.0	95.8		6.92	6.92		5.02	4.85		5	
3/12/2012	3:18	Cloudy	Middle	2	21.10	21.10	21.13	7.98	7.98	7.98	33.08	33.08	33.08	88.9	89.5	89.5	6.52	6.57	6.57	4.88	4.98	4.96	6	5.50
	3:19		Middle	2	21.20	21.10		7.98	7.98		33.08	33.08		89.9	89.7		6.60	6.58		5.13	4.84		5	
5/12/2012	4:50	Cloudy	Middle	2	21.20	21.20	21.20	8.02	8.02	8.02	32.94	32.94	32.94	86.8	88.3	88.1	6.37	6.48	6.46	4.25	4.29	4.27	6	6.00
	4:51		Middle	2	21.20	21.20		8.02	8.02		32.94	32.94		88.7	88.5		6.50	6.49		4.51	4.01		6	
7/12/2012	5:02	Cloudy	Middle	2	20.10	20.10	20.05	8.01	8.01	8.01	33.23	33.23	33.23	91.6	92.1	92.2	6.84	6.91	6.88	3.16	3.42	3.47	4	3.50
	5:03		Middle	2	20.00	20.00		8.01	8.01		33.23	33.23		92.6	92.3		6.89	6.89		3.36	3.93		3	
10/12/2012	11:36	Fine	Middle	2	20.30	20.30	20.30	8.07	8.07	8.06	33.37	33.37	33.38	94.2	93.6	93.6	6.99	6.94	6.95	6.79	6.42	6.42	5	5.50
	11:38		Middle	2	20.30	20.30		8.05	8.05		33.38	33.38		92.9	93.7		6.90	6.96		6.28	6.18		6	
12/12/2012	2:33	Cloudy	Middle	2	19.90	19.90	19.90	8.01	8.01	8.01	33.12	33.12	33.12	91.7	92.0	92.3	6.90	6.90	6.93	8.12	8.02	7.89	10	9.50
	2:34		Middle	2	19.90	19.90		8.01	8.01		33.12	33.12		93.0	92.5		6.98	6.94		7.85	7.58		9	
15/12/2012	1:04	Fine	Middle	2	21.20	21.20	21.20	8.00	8.00	8.00	33.22	33.22	33.22	96.2	96.0	95.1	7.02	7.01	6.93	5.03	4.73	4.81	4	4.00
	1:41		Middle	2	21.20	21.20		8.00	8.00		33.22	33.22		93.6	94.4		6.82	6.88		4.67	4.82		4	
18/12/2012	3:33	Cloudy	Middle	2	20.70	20.70	20.70	7.95	7.95	7.95	32.96	32.96	32.96	91.8	92.2	92.1	6.79	6.81	6.80	6.05	6.03	6.01	8	7.50
	3:34		Middle	2	20.70	20.70		7.95	7.95		32.96	32.96		92.3	91.9		6.82	6.79		6.02	5.92		7	
20/12/2012	5:45	Cloudy	Middle	2	19.00	19.00	18.98	8.05	8.05	8.05	33.32	33.32	33.32	92.6	94.0	94.0	7.06	7.17	7.17	2.00	2.01	2.11	3	3.00
	5:46		Middle	2	18.90	19.00		8.05	8.05		33.32	33.32		94.9	94.6		7.24	7.21		2.34	2.09		3	
22/12/2012	21:51	Cloudy	Middle	2	18.90	18.90	18.90	8.03	8.03	8.04	33.21	33.21	33.21	92.7	94.4	94.2	7.10	7.20	7.19	4.18	4.04	4.04	9	9.50
	21:52		Middle	2	18.90	18.90		8.04	8.04		33.21	33.21		95.0	94.6		7.24	7.21		3.98	3.96		10	
24/12/2012	22:50	Cloudy	Middle	2	17.90	17.90	17.90	8.06	8.06	8.06	33.15	33.15	33.15	96.5	98.6	97.8	7.50	7.67	7.60	4.44	4.58	4.17	4	4.50
	22:51		Middle	2	17.90	17.90		8.06	8.06		33.15	33.15		98.5	97.4		7.66	7.57		3.98	3.66		5	
* 26/12/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
* As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C9 was temporary suspended on 26 December 2012 during mid-ebb

Water Monitoring Result at C8 - City Garden
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	1:38	Cloudy	Middle	2	22.20	22.20	22.20	8.83	8.83	8.83	32.43	32.43	32.43	83.3	83.4	83.0	6.01	6.01	5.98	5.26	5.44	5.44	6	6.50
	1:39		Middle	2	22.20	22.20		8.83	8.83		32.43	32.43		83.0	82.2		5.98	5.93		5.27	5.77		7	
1/12/2012	23:32	Cloudy	Middle	2	21.90	21.90	21.90	8.02	8.02	8.02	32.86	32.86	32.86	86.9	88.1	87.8	6.29	6.37	6.36	4.92	5.28	5.07	3	2.50
	23:33		Middle	2	21.90	21.90		8.02	8.02		32.86	32.86		88.2	88.1		6.38	6.38		4.99	5.09		2	
3/12/2012	3:08	Cloudy	Middle	2	21.20	21.20	21.20	7.89	7.89	7.89	32.52	32.52	32.52	81.4	81.9	81.7	5.99	6.03	6.02	4.54	4.49	4.69	5	5.00
	3:09		Middle	2	21.20	21.20		7.89	7.89		32.52	32.52		81.9	81.7		6.03	6.01		4.96	4.76		5	
5/12/2012	4:41	Cloudy	Middle	2	21.10	21.10	21.10	7.96	7.96	7.96	32.00	32.00	32.00	84.3	84.1	84.2	6.22	6.20	6.21	4.15	4.35	4.28	6	6.50
	4:42		Middle	2	21.10	21.10		7.96	7.96		32.00	32.00		84.4	84.1		6.22	6.20		4.32	4.28		7	
7/12/2012	4:52	Cloudy	Middle	2	20.20	20.20	20.15	7.82	7.82	7.82	32.09	32.09	32.09	79.8	78.1	78.5	6.00	5.84	5.90	5.00	5.08	5.14	3	3.50
	4:53		Middle	2	20.10	20.10		7.82	7.82		32.09	32.09		77.8	78.3		5.85	5.89		5.22	5.26		4	
10/12/2012	11:20	Fine	Middle	2	20.40	20.40	20.35	8.04	8.04	8.04	33.25	33.25	33.27	89.5	88.9	89.4	6.64	6.60	6.64	7.56	8.04	7.62	6	6.50
	11:22		Middle	2	20.30	20.30		8.03	8.03		33.28	33.28		89.5	89.5		6.65	6.65		7.34	7.52		7	
12/12/2012	2:19	Cloudy	Middle	2	20.00	20.00	20.00	8.00	8.00	8.00	33.22	33.22	33.22	95.1	95.0	93.7	7.13	7.11	7.03	8.10	8.44	8.07	13	13.50
	2:20		Middle	2	20.00	20.00		8.00	8.00		33.22	33.22		92.9	91.6		6.91	6.96		7.81	7.93		14	
15/12/2012	1:10	Fine	Middle	2	21.20	21.20	21.15	7.91	7.91	7.91	32.57	32.57	32.57	86.2	86.7	86.2	6.34	6.37	6.34	6.46	6.27	6.35	5	5.50
	1:11		Middle	2	21.10	21.10		7.90	7.90		32.57	32.57		86.3	85.7		6.34	6.30		6.25	6.40		6	
18/12/2012	3:15	Cloudy	Middle	2	20.90	20.90	20.90	7.83	7.83	7.83	32.16	32.16	32.16	83.7	84.1	84.2	6.18	6.21	6.22	10.37	9.95	**10.04**	7	6.00
	3:16		Middle	2	20.90	20.90		7.83	7.83		32.16	32.16		84.6	84.2		6.25	6.22		9.97	9.85		5	
20/12/2012	5:35	Cloudy	Middle	2	18.90	18.90	18.90	7.88	7.88	7.88	31.98	31.98	31.98	83.6	83.6	83.8	6.44	6.44	6.46	4.37	4.15	4.19	3	3.00
	5:36		Middle	2	18.90	18.90		7.88	7.88		31.98	31.98		84.0	84.0		6.48	6.47		4.13	4.12		3	
22/12/2012	21:41	Cloudy	Middle	2	19.20	19.20	19.20	8.00	8.00	8.00	32.79	32.79	32.79	85.7	87.7	87.4	6.52	6.66	6.64	7.16	7.27	7.26	10	9.50
	21:42		Middle	2	19.20	19.20		8.00	8.00		32.79	32.79		88.1	87.9		6.69	6.68		7.23	7.39		9	
24/12/2012	22:35	Cloudy	Middle	2	18.20	18.20	18.20	7.97	7.97	7.97	32.15	32.15	32.15	94.4	94.1	93.7	7.35	7.33	7.30	6.24	6.20	6.21	4	3.50
	22:36		Middle	2	18.20	18.20		7.97	7.97		32.15	32.15		93.7	92.6		7.29	7.21		6.17	6.22		3	
* 26/12/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
* As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 was temporary suspended on 26 December 2012 during mid-ebb

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	1:15	Cloudy	Middle	1	22.20	22.20	22.20	8.03	8.03	8.03	31.10	31.10	31.10	91.6	92.2	91.9	6.65	6.70	6.67	3.39	3.41	3.37	3	3.50
	1:16		Middle	1	22.20	22.20		8.03	8.03		31.10	31.10		92.6	91.0		6.73	6.61		3.31	3.36		4	
1/12/2012	22:48	Cloudy	Middle	2	22.10	22.10	22.10	7.98	7.98	7.98	33.11	33.11	33.12	86.7	87.4	86.8	6.25	6.30	6.26	5.28	5.38	5.30	6	5.00
	22:49		Middle	2	22.10	22.10		7.98	7.98		33.12	33.12		86.2	86.9		6.21	6.26		5.22	5.33		4	
3/12/2012	2:45	Cloudy	Middle	1	20.60	20.60	20.60	7.84	7.85	7.85	30.32	30.32	30.32	86.2	86.6	86.6	6.48	6.51	6.51	3.42	3.36	3.41	4	5.00
	2:46		Middle	1	20.60	20.60		7.85	7.84		30.32	30.32		86.8	86.8		6.53	6.53		3.45	3.40		6	
5/12/2012	4:18	Cloudy	Middle	1	20.50	20.50	20.50	7.83	7.83	7.83	28.70	28.70	28.70	82.6	83.3	82.6	6.28	6.33	6.28	3.83	3.72	3.78	6	6.00
	4:19		Middle	1	20.50	20.50		7.83	7.83		28.70	28.70		82.5	82.0		6.27	6.24		3.82	3.73		6	
7/12/2012	4:30	Cloudy	Middle	1	19.50	19.50	19.50	7.84	7.84	7.84	30.59	30.59	30.59	89.9	90.0	90.2	6.90	6.90	6.92	3.11	3.26	3.16	2	2.50
	4:31		Middle	1	19.50	19.50		7.84	7.84		30.59	30.59		90.1	90.7		6.91	6.98		3.18	3.08		3	
10/12/2012	11:00	Fine	Middle	2	20.50	20.50	20.45	7.91	7.91	7.91	32.61	32.61	32.61	78.8	79.3	79.0	5.88	5.90	5.89	6.69	6.79	6.71	6	7.00
	11:02		Middle	2	20.40	20.40		7.91	7.91		32.61	32.61		79.0	79.0		5.88	5.88		6.47	6.89		8	
12/12/2012	1:33	Cloudy	Middle	1	19.30	19.30	19.30	7.90	7.90	7.90	30.78	30.78	30.78	83.1	83.9	83.0	6.35	6.42	6.35	3.39	3.37	3.31	3	3.50
	1:34		Middle	1	19.30	19.30		7.90	7.90		30.78	30.78		83.0	82.1		6.34	6.27		3.31	3.18		4	
15/12/2012	0:40	Fine	Middle	1	21.10	21.10	21.15	7.93	7.93	7.93	31.24	31.24	31.24	88.3	88.3	88.8	6.53	6.53	6.57	2.92	2.90	2.94	4	4.00
	0:41		Middle	1	21.20	21.20		7.92	7.92		31.24	31.24		90.0	88.7		6.66	6.57		2.94	2.99		4	
18/12/2012	2:32	Cloudy	Middle	1	20.70	20.70	20.70	7.85	7.85	7.85	31.54	31.54	31.54	78.3	78.9	78.4	5.83	5.86	5.83	1.41	1.51	1.44	5	5.50
	2:33		Middle	1	20.70	20.70		7.85	7.85		31.54	31.54		78.0	78.3		5.81	5.83		1.46	1.36		6	
20/12/2012	4:44	Cloudy	Middle	1	19.10	19.10	19.10	7.88	7.88	7.88	32.33	32.33	32.33	76.9	78.4	78.0	5.88	5.98	5.96	1.43	1.57	1.45	<2	<2
	4:45		Middle	1	19.10	19.10		7.88	7.88		32.33	32.33		78.6	78.1		6.01	5.95		1.39	1.42		<2	
22/12/2012	20:46	Cloudy	Middle	1	18.80	18.80	18.80	7.97	7.97	7.97	30.51	30.51	30.51	82.3	83.6	83.3	6.39	6.49	6.46	2.80	3.05	3.07	8	8.00
	20:47		Middle	1	18.80	18.80		7.97	7.97		30.50	30.51		83.7	83.5		6.49	6.48		3.24	3.20		8	
24/12/2012	21:50	Cloudy	Middle	1	18.20	18.20	18.20	7.99	7.99	7.99	31.23	31.23	31.23	90.1	90.2	90.4	7.05	7.06	7.07	4.57	4.54	4.62	4	4.50
	21:51		Middle	1	18.20	18.20		7.99	7.99		31.23	31.23		90.7	90.4		7.10	7.08		4.62	4.73		5	
26/12/2012	21:07	Cloudy	Middle	2	19.30	19.30	19.30	7.92	7.92	7.91	32.50	32.50	32.50	89.6	89.6	89.9	6.82	6.82	6.84	6.55	6.49	6.52	7	7.00
	21:08		Middle	2	19.30	19.30		7.90	7.90		32.50	32.50		90.2	90.3		6.86	6.87		6.58	6.46		7	

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

Water Monitoring Result at C1 - HKCEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	1:10	Cloudy	Middle	2.5	22.20	22.20	22.00	7.83	7.83	7.87	33.07	33.07	33.07	70.5	70.2	70.2	5.09	5.07	5.07	3.39	3.37	3.36	5	5.00
	1:11		Middle	2.5	21.80	21.80		7.91	7.91		33.07	33.07		70.0	69.9		5.06	5.05		3.35	3.33		5	
1/12/2012	22:01	Cloudy	Middle	2.5	22.10	22.10	21.95	7.89	7.89	7.88	33.10	33.10	33.10	71.9	71.5	71.4	5.20	5.18	5.17	2.61	2.58	2.58	3	3.50
	22:03		Middle	2.5	21.80	21.80		7.87	7.87		33.10	33.10		71.2	71.0		5.16	5.15		2.57	2.56		4	
3/12/2012	0:51	Cloudy	Middle	2.5	21.50	21.50	21.40	8.14	8.14	8.16	33.04	33.04	33.04	71.3	71.2	71.1	5.20	5.20	5.19	2.51	2.49	2.47	9	9.50
	0:53		Middle	2.5	21.30	21.30		8.17	8.17		33.04	33.04		71.0	70.9		5.19	5.18		2.45	2.43		10	
5/12/2012	3:21	Cloudy	Middle	2.5	21.00	21.00	20.80	7.95	7.95	7.95	33.18	33.18	33.18	69.3	68.1	68.6	5.12	5.02	5.05	2.59	2.45	2.48	5	5.00
	3:23		Middle	2.5	20.60	20.60		7.94	7.94		33.17	33.17		68.3	68.6		5.00	5.07		2.41	2.48		5	
7/12/2012	5:39	Cloudy	Middle	2.5	20.40	20.40	20.25	8.07	8.07	8.06	33.20	33.20	33.20	70.1	69.9	69.8	5.22	5.21	5.21	1.44	1.41	1.40	3	2.50
	5:41		Middle	2.5	20.10	20.10		8.05	8.05		33.19	33.19		69.7	69.5		5.20	5.19		1.38	1.37		2	
10/12/2012	9:13	Fine	Middle	2.0	20.00	20.00	19.90	7.88	7.88	7.88	33.22	33.22	33.23	73.5	72.8	73.5	5.51	5.46	5.52	2.29	2.31	2.30	3	3.50
	9:14		Middle	2.0	19.80	19.80		7.87	7.87		33.23	33.23		74.0	73.7		5.57	5.55		2.33	2.25		4	
12/12/2012	0:34	Cloudy	Middle	2.5	19.70	19.70	19.55	7.90	7.90	7.90	33.30	33.30	33.31	74.6	74.3	74.2	5.59	5.57	5.57	4.34	4.31	4.29	4	4.50
	0:36		Middle	2.5	19.40	19.40		7.89	7.89		33.32	33.32		74.1	73.9		5.56	5.54		4.27	4.25		5	
15/12/2012	1:26	Fine	Middle	2.5	20.90	20.90	20.70	7.90	7.90	7.90	33.28	33.28	33.29	76.9	76.6	76.5	5.67	5.65	5.64	2.17	2.13	2.12	7	6.50
	1:28		Middle	2.5	20.50	20.50		7.89	7.89		33.30	33.30		76.3	76.1		5.63	5.62		2.11	2.08		6	
18/12/2012	3:34	Cloudy	Middle	2.5	20.70	20.70	20.65	7.85	7.85	7.85	33.06	33.06	33.07	76.2	76.0	75.9	5.64	5.63	5.63	1.62	1.59	1.59	6	6.50
	3:36		Middle	2.5	20.60	20.60		7.84	7.84		33.08	33.08		75.8	75.7		5.62	5.62		1.58	1.56		7	
20/12/2012	3:45	Cloudy	Middle	3.0	18.80	18.80	18.65	7.91	7.91	7.91	33.42	33.41	33.37	82.1	81.9	81.9	6.31	6.30	6.30	2.54	2.52	2.51	4	4.00
	3:48		Middle	3.0	18.50	18.50		7.90	7.90		33.33	33.33		81.8	81.6		6.30	6.29		2.49	2.47		4	
22/12/2012	21:34	Cloudy	Middle	2.0	18.50	18.50	18.40	7.92	7.92	7.92	33.39	33.39	33.35	81.8	81.6	81.5	6.24	6.23	6.23	3.20	3.18	3.18	5	5.00
	21:36		Middle	2.0	18.30	18.30		7.91	7.91		33.30	33.30		81.4	81.3		6.22	6.21		3.17	3.15		5	
24/12/2012	22:59	Cloudy	Middle	2.5	18.20	18.20	17.95	7.94	7.94	7.96	33.29	33.29	33.29	83.9	83.7	83.6	6.52	6.51	6.50	2.46	2.44	2.43	<2	<2
	23:01		Middle	2.5	17.70	17.70		7.97	7.97		33.29	33.29		83.5	83.1		6.50	6.48		2.41	2.40		<2	
26/12/2012	22:11	Cloudy	Middle	2.5	18.90	18.90	18.85	7.85	7.85	7.85	33.13	33.13	33.13	81.8	81.6	81.5	6.35	6.34	6.34	3.88	3.86	3.84	3	3.50
	22:13		Middle	2.5	18.80	18.80		7.84	7.84		33.13	33.13		81.4	81.3		6.33	6.33		3.83	3.80		4	

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

Water Monitoring Result at C2 - TH / APA / SOC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	22:53	Cloudy	Middle	2.0	22.10	22.10	22.05	7.91	7.91	7.90	33.03	33.03	33.00	68.4	68.2	68.1	4.95	4.94	4.94	2.96	2.92	2.92	7	7.00
	22:55		Middle	2.0	22.00	22.00		7.89	7.89		32.97	32.97		68.0	67.9		4.93	4.93		2.90	2.88		7	
1/12/2012	21:53	Cloudy	Middle	2.0	21.90	21.90	21.90	7.86	7.86	7.86	32.99	32.99	32.99	68.6	68.4	68.3	4.96	4.95	4.94	2.13	2.11	2.09	4	4.50
	21:55		Middle	2.0	21.90	21.90		7.85	7.85		32.99	32.99		68.1	67.9		4.93	4.91		2.08	2.05		5	
3/12/2012	0:37	Cloudy	Middle	2.5	21.30	21.30	21.25	8.32	8.32	8.32	33.00	33.00	32.97	64.7	64.5	64.4	4.73	4.72	4.72	1.75	1.74	1.72	4	4.00
	0:39		Middle	2.5	21.20	21.20		8.31	8.31		32.94	32.94		64.3	64.2		4.71	4.71		1.71	1.69		4	
5/12/2012	2:04	Cloudy	Middle	2.0	21.00	21.00	20.95	7.83	7.83	7.82	32.94	32.94	32.94	63.2	63.0	63.0	4.65	4.64	4.64	1.38	1.36	1.35	4	4.50
	2:06		Middle	2.0	20.90	20.90		7.81	7.81		32.94	32.94		62.9	62.7		4.63	4.62		1.34	1.31		5	
7/12/2012	4:22	Cloudy	Middle	2.0	20.40	20.40	20.30	8.04	8.04	7.98	33.06	33.06	33.06	65.1	64.9	64.8	4.85	4.84	4.84	1.34	1.31	1.30	<2	<2
	4:24		Middle	2.0	20.20	20.20		7.92	7.92		33.06	33.06		64.7	64.5		4.83	4.82		1.28	1.26		<2	
10/12/2012	8:58	Fine	Middle	2.0	20.80	20.80	20.70	7.83	7.83	7.82	33.03	33.03	33.04	66.2	65.4	65.6	4.90	4.84	4.86	1.01	1.02	1.01	3	3.00
	9:00		Middle	2.0	20.60	20.60		7.80	7.80		33.05	33.05		65.8	65.1		4.87	4.82		0.98	1.04		3	
12/12/2012	22:14	Cloudy	Middle	2.0	19.80	19.80	19.70	7.90	7.90	7.90	33.28	33.28	33.28	76.6	76.3	76.2	5.75	5.73	5.72	4.07	4.05	4.03	2	2.00
	22:16		Middle	2.0	19.60	19.60		7.90	7.90		33.27	33.27		76.0	75.8		5.71	5.70		4.02	3.99		2	
15/12/2012	23:34	Fine	Middle	2.0	20.70	20.70	20.60	7.90	7.90	7.89	33.26	33.26	33.25	76.2	76.0	75.9	5.63	5.62	5.61	1.99	1.96	1.94	2	2.00
	23:36		Middle	2.0	20.50	20.50		7.88	7.88		33.24	33.24		75.8	75.6		5.60	5.59		1.92	1.90		2	
18/12/2012	2:14	Cloudy	Middle	2.0	21.20	21.20	21.20	7.85	7.85	7.83	32.95	32.95	32.96	69.8	69.6	69.5	5.12	5.11	5.11	0.53	0.50	0.48	4	3.00
	2:16		Middle	2.0	21.20	21.20		7.80	7.80		32.96	32.96		69.4	69.2		5.10	5.09		0.46	0.44		2	
20/12/2012	2:48	Cloudy	Middle	2.0	19.70	19.70	19.55	7.92	7.92	7.90	33.22	33.22	33.22	70.8	70.6	70.5	5.34	5.33	5.32	0.23	0.20	0.44	3	3.50
	2:50		Middle	2.0	19.40	19.40		7.87	7.87		33.21	33.21		70.3	70.1		5.31	5.30		0.18	1.15		4	
22/12/2012	19:40	Cloudy	Middle	2.0	19.60	19.60	19.50	7.86	7.86	7.86	33.26	33.26	33.26	75.2	75.0	74.9	5.67	5.66	5.66	2.93	2.88	2.88	6	6.50
	19:42		Middle	2.0	19.40	19.40		7.85	7.85		33.26	33.26		74.8	74.7		5.65	5.65		2.87	2.85		7	
24/12/2012	21:15	Cloudy	Middle	2.0	18.20	18.20	18.10	7.89	7.89	7.89	33.21	33.21	33.21	72.2	72.0	71.9	5.58	5.57	5.57	2.74	2.74	2.72	<2	<2
	21:17		Middle	2.0	18.00	18.00		7.89	7.89		33.21	33.21		71.9	71.5		5.57	5.55		2.72	2.69		<2	
26/12/2012	20:37	Cloudy	Middle	2.0	19.10	19.10	19.05	7.83	7.83	7.84	33.06	33.06	33.10	70.5	70.3	70.3	5.48	5.47	5.47	3.05	3.03	3.02	3	3.50
	20:39		Middle	2.0	19.00	19.00		7.85	7.85		33.14	33.14		70.2	70.0		5.47	5.46		3.00	2.99		4	

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

Water Monitoring Result at C3 - HKCEC Phase I
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	0:58	Cloudy	Middle	2.5	22.80	22.80	22.70	7.85	7.85	7.85	32.89	32.89	32.88	56.5	56.2	56.1	4.04	4.02	4.02	1.88	1.85	1.84	5	5.00
	1:00		Middle	2.5	22.60	22.60		7.84	7.84		32.87	32.87		56.0	55.8		4.01	3.99		1.82	1.79		5	
1/12/2012	23:01	Cloudy	Middle	2.5	22.30	22.30	22.25	7.82	7.82	7.83	32.85	32.85	32.85	59.1	58.8	58.8	4.25	4.23	4.23	2.32	2.28	2.27	4	3.50
	23:03		Middle	2.5	22.20	22.20		7.83	7.83		32.85	32.85		58.6	58.5		4.22	4.22		2.25	2.24		3	
3/12/2012	2:41	Cloudy	Middle	2.5	21.00	21.00	20.80	8.18	8.18	8.17	32.93	32.93	32.92	55.1	54.8	54.7	4.05	4.03	4.03	1.52	1.47	1.47	5	4.50
	2:43		Middle	2.5	20.60	20.60		8.15	8.15		32.90	32.90		54.6	54.2		4.02	4.00		1.45	1.44		4	
5/12/2012	2:19	Cloudy	Middle	2.5	21.00	21.00	20.85	7.79	7.79	7.78	32.88	32.88	32.85	53.1	52.8	52.8	3.92	3.90	3.90	6.23	6.18	6.18	5	4.50
	2:21		Middle	2.5	20.70	20.70		7.77	7.77		32.82	32.82		52.6	52.5		3.89	3.89		6.15	6.14		4	
7/12/2012	4:34	Cloudy	Middle	2.5	20.60	20.60	20.45	8.03	8.03	8.02	32.95	32.95	32.96	55.5	55.3	55.2	4.13	4.12	4.11	2.75	2.70	2.70	2	2.00
	4:36		Middle	2.5	20.30	20.30		8.01	8.01		32.96	32.96		55.1	54.9		4.11	4.07		2.68	2.67		2	
10/12/2012	10:15	Fine	Middle	3.5	20.40	20.40	20.30	7.82	7.82	7.82	33.02	33.02	33.03	57.7	57.0	57.8	4.30	4.25	4.31	1.04	1.07	1.05	5	4.50
	10:17		Middle	3.5	20.20	20.20		7.81	7.81		33.04	33.04		58.7	57.6		4.38	4.30		1.02	1.05		4	
12/12/2012	22:31	Cloudy	Middle	2.5	19.90	19.90	19.75	7.83	7.83	7.83	32.98	32.98	32.98	63.7	63.5	63.4	4.80	4.79	4.78	3.53	3.50	3.50	<2	<2
	22:34		Middle	2.5	19.60	19.60		7.83	7.83		32.97	32.97		63.2	63.1		4.77	4.77		3.49	3.47		<2	
15/12/2012	23:53	Fine	Middle	2.5	21.00	21.00	21.00	7.87	7.87	7.86	32.91	32.91	32.91	65.9	65.7	65.6	4.84	4.83	4.83	2.81	2.77	2.76	<2	<2
	23:55		Middle	2.5	21.00	21.00		7.85	7.85		32.91	32.91		65.5	65.4		4.82	4.82		2.74	2.73		<2	
18/12/2012	2:30	Cloudy	Middle	2.5	21.20	21.20	21.15	7.73	7.73	7.72	32.65	32.65	32.64	54.4	54.1	54.0	4.01	3.99	3.98	0.85	0.82	0.82	4	3.50
	2:32		Middle	2.5	21.10	21.10		7.70	7.70		32.63	32.63		53.8	53.6		3.97	3.96		0.80	0.79		3	
20/12/2012	3:55	Cloudy	Middle	2.5	19.50	19.50	19.35	7.79	7.79	7.78	33.02	33.02	33.02	57.4	57.2	57.1	4.35	4.34	4.33	0.18	0.16	0.16	<2	<2
	3:57		Middle	2.5	19.20	19.20		7.76	7.76		33.02	33.02		57.0	56.8		4.33	4.31		0.15	0.15		<2	
22/12/2012	19:53	Cloudy	Middle	2.5	18.50	18.50	18.30	7.80	7.80	7.80	33.00	33.00	32.99	59.7	59.5	59.4	4.63	4.62	4.62	4.03	4.01	4.00	9	8.50
	19:55		Middle	2.5	18.10	18.10		7.79	7.79		32.98	32.98		59.3	59.1		4.61	4.60		3.98	3.97		8	
24/12/2012	21:29	Cloudy	Middle	2.5	17.80	17.80	17.70	7.88	7.88	7.89	33.08	33.08	33.08	69.3	69.0	68.9	5.42	5.40	5.39	3.15	3.11	3.11	2	2.00
	21:31		Middle	2.5	17.60	17.60		7.89	7.89		33.08	33.08		68.7	68.5		5.38	5.37		3.09	3.07		2	
26/12/2012	21:00	Cloudy	Middle	2.5	19.00	19.00	18.85	7.89	7.89	7.90	33.06	33.06	33.06	67.6	67.4	67.3	5.13	5.12	5.12	4.28	4.26	4.25	3	3.50
	21:02		Middle	2.5	18.70	18.70		7.91	7.91		33.06	33.06		67.2	67.0		5.11	5.10		4.24	4.21		4	

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

Water Monitoring Result at C4e - WCT / GEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	0:01	Cloudy	Middle	2.0	22.50	22.50	22.45	7.94	7.94	7.92	32.95	32.95	32.97	63.3	63.1	63.0	4.54	4.53	4.52	2.56	2.52	2.52	4	4.00
	0:03		Middle	2.0	22.40	22.40		7.90	7.90		32.99	32.99		62.8	62.6		4.51	4.50		2.50	2.48		4	
1/12/2012	22:48	Cloudy	Middle	2.0	22.40	22.40	22.30	7.85	7.85	7.84	32.93	32.93	32.93	61.7	61.5	61.4	4.44	4.43	4.42	2.05	2.03	2.01	3	2.50
	22:50		Middle	2.0	22.20	22.20		7.83	7.83		32.93	32.93		61.2	61.0		4.41	4.40		1.99	1.97		2	
3/12/2012	2:08	Cloudy	Middle	2.0	20.90	20.90	20.75	7.92	7.92	7.92	32.64	32.64	32.65	54.2	54.0	53.9	4.02	4.01	4.00	2.15	2.13	2.11	2	2.00
	2:10		Middle	2.0	20.60	20.60		7.91	7.91		32.66	32.66		53.7	53.6		3.99	3.97		2.09	2.07		2	
5/12/2012	2:41	Cloudy	Middle	2.0	20.80	20.80	20.70	7.87	7.87	7.86	31.12	31.12	31.10	57.0	56.8	56.7	4.26	4.25	4.25	1.89	1.85	1.84	5	5.50
	2:43		Middle	2.0	20.60	20.60		7.85	7.85		31.08	31.08		56.6	56.4		4.24	4.23		1.81	1.79		6	
7/12/2012	4:54	Cloudy	Middle	2.0	20.30	20.30	20.15	8.08	8.08	8.06	33.05	33.05	33.05	63.5	63.3	63.3	4.76	4.75	4.75	1.60	1.59	1.58	<2	<2
	4:56		Middle	2.0	20.00	20.00		8.03	8.03		33.05	33.05		63.2	63.0		4.75	4.74		1.57	1.56		<2	
10/12/2012	9:54	Fine	Middle	1.5	20.50	20.50	20.40	7.85	7.85	7.84	32.62	32.62	32.66	63.6	62.6	63.2	4.74	4.66	4.71	0.58	0.70	0.66	3	3.00
	9:56		Middle	1.5	20.30	20.30		7.82	7.82		32.70	32.70		63.5	63.1		4.74	4.71		0.71	0.66		3	
12/12/2012	23:00	Cloudy	Middle	2.5	19.60	19.60	19.50	7.97	7.97	7.95	33.12	33.12	33.13	70.2	70.1	69.9	5.37	5.37	5.36	6.44	6.43	6.42	6	6.00
	23:02		Middle	2.5	19.40	19.40		7.93	7.93		33.14	33.14		69.8	69.6		5.35	5.34		6.41	6.40		6	
15/12/2012	0:09	Fine	Middle	2.0	21.00	21.00	20.90	7.89	7.89	7.89	33.15	33.15	33.16	71.2	71.0	70.4	5.23	5.22	5.21	3.06	3.01	3.01	<2	<2
	0:11		Middle	2.0	20.80	20.80		7.89	7.89		33.17	33.17		69.8	69.5		5.21	5.19		2.99	2.98		<2	
18/12/2012	2:47	Cloudy	Middle	2.0	20.70	20.70	20.60	7.75	7.75	7.76	32.86	32.86	32.87	63.4	63.1	63.0	4.70	4.68	4.68	1.51	1.49	1.47	5	5.50
	2:49		Middle	2.0	20.50	20.50		7.76	7.76		32.87	32.87		62.9	62.7		4.67	4.65		1.45	1.43		6	
20/12/2012	4:13	Cloudy	Middle	2.0	19.30	19.30	19.15	7.81	7.81	7.81	32.71	32.71	32.70	64.3	64.1	64.0	4.90	4.89	4.88	0.70	0.67	0.66	4	3.50
	4:15		Middle	2.0	19.00	19.00		7.80	7.80		32.69	32.69		63.9	63.7		4.87	4.86		0.67	0.60		3	
22/12/2012	20:11	Cloudy	Middle	2.0	19.20	19.20	19.05	7.79	7.79	7.80	32.97	32.97	32.97	67.9	67.7	67.7	5.17	5.16	5.16	3.10	3.07	3.06	8	7.50
	20:13		Middle	2.0	18.90	18.90		7.80	7.80		32.97	32.97		67.6	67.4		5.16	5.15		3.04	3.02		7	
24/12/2012	21:48	Cloudy	Middle	2.0	17.80	17.80	17.65	7.83	7.83	7.83	32.59	32.59	32.60	65.7	65.4	65.3	5.18	5.15	5.15	3.81	3.76	3.75	2	2.00
	21:50		Middle	2.0	17.50	17.50		7.82	7.82		32.60	32.60		65.2	65.0		5.14	5.13		3.72	3.72		2	
26/12/2012	21:44	Cloudy	Middle	2.0	18.90	18.90	18.85	8.07	8.07	8.06	33.04	33.04	33.03	66.3	66.1	66.0	5.06	5.05	5.04	5.26	5.24	5.23	6	6.50
	21:46		Middle	2.0	18.80	18.80		8.05	8.05		33.02	33.02		65.8	65.7		5.02	5.02		5.22	5.21		7	

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

Water Monitoring Result at C4w - WCT / GEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	0:33	Cloudy	Middle	2.0	22.70	22.70	22.65	7.84	7.84	7.83	32.91	32.91	32.91	58.5	58.3	58.2	4.17	4.16	4.15	1.73	1.71	1.69	3	3.00
	0:35		Middle	2.0	22.60	22.60		7.82	7.82		32.90	32.90		58.1	57.9		4.15	4.13		1.67	1.66		3	
1/12/2012	22:51	Cloudy	Middle	2.0	22.60	22.60	22.50	7.83	7.83	7.82	32.91	32.91	32.91	57.4	57.3	57.2	4.12	4.12	4.11	1.77	1.74	1.73	2	2.00
	22:53		Middle	2.0	22.40	22.40		7.81	7.81		32.91	32.91		57.1	56.8		4.11	4.09		1.71	1.68		2	
3/12/2012	2:24	Cloudy	Middle	2.0	21.70	21.70	21.55	7.94	7.94	7.91	32.90	32.90	32.90	54.4	54.2	54.1	3.97	3.96	3.96	2.31	2.30	2.29	<2	<2
	2:26		Middle	2.0	21.40	21.40		7.88	7.88		32.90	32.90		54.0	53.9		3.95	3.95		2.29	2.26		<2	
5/12/2012	2:29	Cloudy	Middle	2.0	21.20	21.20	21.10	8.52	8.52	8.49	32.77	32.77	32.77	52.2	52.0	52.0	3.85	3.84	3.84	1.41	1.37	1.37	3	3.50
	2:31		Middle	2.0	21.00	21.00		8.46	8.46		32.77	32.77		51.9	51.8		3.83	3.83		1.35	1.33		4	
7/12/2012	4:45	Cloudy	Middle	2.0	20.40	20.40	20.30	7.97	7.97	7.92	33.01	33.01	33.01	56.7	56.5	56.5	4.22	4.21	4.21	1.75	1.72	1.72	<2	<2
	4:47		Middle	2.0	20.20	20.20		7.86	7.86		33.00	33.00		56.4	56.2		4.21	4.20		1.70	1.69		<2	
10/12/2012	10:03	Fine	Middle	1.0	20.60	20.60	20.50	7.92	7.92	7.90	32.89	32.89	32.88	61.6	61.3	61.6	4.60	4.58	4.61	0.44	0.47	0.46	3	3.00
	10:05		Middle	1.0	20.40	20.40		7.88	7.88		32.87	32.87		62.1	61.4		4.64	4.60		0.49	0.44		3	
12/12/2012	22:47	Cloudy	Middle	2.0	19.60	19.69	19.52	7.83	7.83	7.83	32.94	32.94	32.92	61.4	61.1	61.0	4.63	4.61	4.61	4.79	4.77	4.75	3	2.50
	22:49		Middle	2.0	19.40	19.40		7.83	7.83		32.89	32.89		60.9	60.6		4.60	4.58		4.74	4.69		2	
15/12/2012	0:03	Fine	Middle	2.0	21.20	21.20	21.15	7.87	7.87	7.87	32.94	32.94	32.94	66.4	66.3	66.2	4.87	4.86	4.86	2.46	2.43	2.43	4	4.00
	0:05		Middle	2.0	21.10	21.10		7.86	7.86		32.94	32.94		66.1	65.9		4.86	4.85		2.42	2.40		4	
18/12/2012	2:37	Cloudy	Middle	2.0	21.10	21.10	21.05	7.70	7.70	7.70	32.67	32.67	32.67	56.6	56.3	56.2	4.17	4.15	4.15	0.68	0.65	0.65	5	5.00
	2:39		Middle	2.0	21.00	21.00		7.69	7.69		32.67	32.67		56.1	55.9		4.14	4.12		0.63	0.62		5	
20/12/2012	4:05	Cloudy	Middle	2.0	19.50	19.50	19.40	7.83	7.83	7.84	33.08	33.08	33.09	64.6	64.3	64.3	4.89	4.87	4.87	0.31	0.28	0.27	<2	<2
	4:07		Middle	2.0	19.30	19.30		7.84	7.84		33.09	33.09		64.2	64.0		4.87	4.86		0.27	0.23		<2	
22/12/2012	20:03	Cloudy	Middle	2.0	19.20	19.20	19.10	7.78	7.78	7.78	33.01	33.01	33.01	62.9	62.5	62.5	4.79	4.77	4.77	2.58	2.54	2.54	5	5.50
	20:05		Middle	2.0	19.00	19.00		7.77	7.77		33.01	33.01		62.3	62.1		4.76	4.75		2.53	2.51		6	
24/12/2012	21:39	Cloudy	Middle	2.0	18.30	18.30	18.10	7.87	7.87	7.87	33.09	33.09	33.08	66.0	65.9	65.8	5.12	5.11	5.11	2.82	2.81	2.80	2	2.50
	21:41		Middle	2.0	17.90	17.90		7.87	7.87		33.07	33.07		65.7	65.6		5.10	5.10		2.79	2.78		3	
26/12/2012	21:29	Cloudy	Middle	2.0	18.80	18.80	18.75	7.94	7.94	7.93	33.07	33.07	33.07	66.7	66.6	66.5	5.04	5.04	5.03	4.71	4.69	4.68	6	6.00
	21:31		Middle	2.0	18.70	18.70		7.92	7.92		33.07	33.07		66.4	66.2		5.03	5.02		4.67	4.65		6	

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

Water Monitoring Result at C5e - Sun Hung Kai Centre
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	3:00	Cloudy	Middle	1.0	22.70	#REF!	#REF!	8.78	8.78	8.78	31.21	31.21	31.21	78.2	78.4	78.2	5.64	5.65	5.64	4.56	4.50	4.55	5	5.00
	3:01		Middle	1.0	22.70	#REF!		8.78	8.78		31.21	31.21		78.4	77.7		5.65	5.60		4.59	4.56		5	
1/12/2012	22:10	Cloudy	Middle	1.5	22.30	22.30	22.30	7.94	7.94	7.94	33.12	33.12	33.12	76.8	78.6	78.2	5.51	5.65	5.62	2.52	2.41	2.47	3	3.00
	22:11		Middle	1.5	22.30	22.30		7.94	7.94		33.12	33.12		78.7	78.8		5.65	5.65		2.48	2.47		3	
3/12/2012	4:28	Cloudy	Middle	1.0	21.00	21.00	21.00	8.03	8.03	8.03	31.94	31.94	31.94	65.3	67.5	67.3	4.83	4.99	4.97	6.19	5.77	6.16	8	9.00
	4:29		Middle	1.0	21.00	21.00		8.03	8.03		31.94	31.94		68.1	68.1		5.04	5.03		6.07	6.60		10	
5/12/2012	3:32	Cloudy	Middle	1.0	21.00	21.00	21.00	7.90	7.90	7.90	32.32	32.32	32.32	74.1	75.1	74.8	5.47	5.55	5.52	3.22	3.13	3.11	4	4.50
	3:33		Middle	1.0	21.00	21.00		7.90	7.90		32.32	32.32		74.9	75.0		5.53	5.54		3.06	3.01		5	
7/12/2012	3:25	Cloudy	Middle	1.5	20.10	20.10	20.10	7.98	7.98	7.98	32.92	32.92	32.92	79.2	79.9	79.7	5.93	5.99	5.97	3.03	3.01	3.04	2	2.00
	3:26		Middle	1.5	20.10	20.10		7.98	7.98		32.92	32.92		79.7	79.8		5.97	5.98		3.07	3.04		2	
10/12/2012	10:20	Fine	Middle	1.0	20.10	20.10	20.05	7.92	7.92	7.92	32.68	32.68	32.69	65.8	65.7	65.5	4.93	4.92	4.91	6.80	6.61	6.62	10	9.50
	10:22		Middle	1.0	20.00	20.00		7.91	7.91		32.70	32.70		65.3	65.3		4.89	4.89		6.55	6.53		9	
12/12/2012	0:43	Cloudy	Middle	1.0	20.10	20.10	20.10	8.10	8.10	8.10	32.72	32.72	32.72	54.5	55.2	55.0	4.08	4.14	4.12	1.04	0.87	1.04	2	2.50
	0:44		Middle	1.0	20.10	20.10		8.10	8.10		32.72	32.72		55.2	55.0		4.13	4.12		1.00	1.25		3	
15/12/2012	3:00	Fine	Middle	1.0	21.50	21.50	21.50	7.95	7.95	7.95	32.72	32.72	32.72	77.5	79.1	78.7	5.63	5.76	5.73	2.20	2.32	2.20	3	3.00
	3:01		Middle	1.0	21.50	21.50		7.95	7.95		32.72	32.72		79.1	79.2		5.76	5.77		2.15	2.13		3	
18/12/2012	4:43	Cloudy	Middle	1.0	20.70	20.70	20.70	7.82	7.82	7.82	32.50	32.50	32.50	63.3	64.4	64.2	4.68	4.77	4.75	0.33	0.34	0.31	4	4.00
	4:44		Middle	1.0	20.70	20.70		7.82	7.82		32.50	32.50		64.6	64.5		4.78	4.78		0.29	0.26		4	
20/12/2012	4:12	Cloudy	Middle	1.0	19.20	19.20	19.20	7.91	7.91	7.92	33.13	33.13	33.13	78.7	79.4	78.8	5.98	6.03	5.99	0.09	0.10	0.11	4	3.50
	4:13		Middle	1.0	19.20	19.20		7.92	7.92		33.13	33.13		78.2	78.9		5.95	5.98		0.13	0.12		3	
22/12/2012	23:10	Cloudy	Middle	1.0	18.60	18.60	18.60	7.87	7.87	7.87	32.62	32.62	32.62	76.3	77.0	76.8	5.87	5.93	5.91	3.47	3.37	3.46	7	7.50
	23:11		Middle	1.0	18.60	18.60		7.87	7.87		32.62	32.62		77.2	76.8		5.94	5.91		3.34	3.65		8	
24/12/2012	0:07	Cloudy	Middle	1.0	18.30	18.30	18.25	7.94	7.94	7.95	32.21	32.21	32.21	80.5	80.8	81.0	6.26	6.28	6.30	1.83	1.84	1.85	3	3.50
	0:08		Middle	1.0	18.20	18.20		7.95	7.95		32.21	32.21		81.4	81.2		6.33	6.31		1.80	1.91		4	
26/12/2012	20:49	Cloudy	Middle	1.5	19.20	19.20	19.20	7.98	7.98	7.99	33.09	33.09	33.10	93.0	93.3	93.0	7.06	7.09	7.06	6.71	6.74	6.51	8	8.00
	20:50		Middle	1.5	19.20	19.20		7.99	7.99		33.10	33.10		92.8	92.9		7.04	7.06		6.47	6.13		8	

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

Water Monitoring Result at C5w - Sun Hung Kai Centre
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	3:07	Cloudy	Middle	1.0	22.90	#REF!	#REF!	8.78	8.78	8.78	31.49	31.49	31.49	69.6	70.2	69.3	4.99	5.04	4.97	8.83	8.63	8.61	12	12.00
	3:08		Middle	1.0	22.90	#REF!		8.78	8.78		31.49	31.49		69.1	68.2		4.95	4.89		8.54	8.45		12	
1/12/2012	22:20	Cloudy	Middle	1.5	22.10	22.10	22.10	7.99	7.99	7.99	33.23	33.23	33.23	88.5	88.9	88.5	6.37	6.40	6.37	4.59	4.23	4.16	5	5.00
	22:21		Middle	1.5	22.10	22.10		7.99	7.99		33.23	33.23		88.6	87.9		6.37	6.32		3.92	3.88		5	
3/12/2012	4:35	Cloudy	Middle	1.0	20.90	20.90	20.90	7.83	7.83	7.83	32.40	32.40	32.40	58.7	58.9	58.6	4.34	4.36	4.34	2.95	2.68	2.75	4	4.00
	4:36		Middle	1.0	20.90	20.90		7.82	7.82		32.40	32.40		58.7	58.1		4.34	4.30		2.78	2.60		4	
5/12/2012	3:40	Cloudy	Middle	1.0	21.00	21.00	21.00	7.93	7.93	7.93	32.49	32.49	32.49	79.4	79.4	79.7	5.35	5.35	5.63	3.65	3.38	3.39	3	3.00
	3:41		Middle	1.0	21.00	21.00		7.93	7.93		32.49	32.49		80.3	79.8		5.92	5.89		3.18	3.34		3	
7/12/2012	3:35	Cloudy	Middle	1.5	20.20	20.20	20.20	7.96	7.96	7.96	32.95	32.95	32.95	81.5	82.1	82.2	6.09	6.13	6.14	2.79	2.87	2.93	3	3.00
	3:36		Middle	1.5	20.20	20.20		7.96	7.96		32.95	32.95		82.1	83.0		6.14	6.20		2.93	3.12		3	
10/12/2012	10:25	Fine	Middle	1.0	20.00	20.00	20.00	7.55	7.55	7.69	32.63	32.63	32.64	59.9	59.9	59.5	4.45	4.46	4.43	9.60	9.51	**9.88**	6	6.50
	10:27		Middle	1.0	20.00	20.00		7.83	7.83		32.65	32.65		59.5	58.7		4.43	4.37		10.20	10.20		7	
12/12/2012	0:51	Cloudy	Middle	1.0	20.30	20.30	20.30	7.95	7.95	7.95	32.47	32.47	32.47	68.1	68.6	68.3	5.08	5.12	5.10	4.42	4.15	4.33	5	5.00
	0:52		Middle	1.0	20.30	20.30		7.95	7.95		32.47	32.47		68.4	68.0		5.11	5.08		4.27	4.48		5	
15/12/2012	3:06	Fine	Middle	1.0	21.50	21.50	21.50	7.92	7.92	7.92	32.64	32.64	32.64	60.1	61.4	60.9	4.38	4.48	4.44	7.02	7.05	7.07	3	3.50
	3:07		Middle	1.0	21.50	21.50		7.92	7.92		32.64	32.64		61.4	60.6		4.48	4.42		7.04	7.18		4	
18/12/2012	4:50	Cloudy	Middle	1.0	20.80	20.80	20.80	7.74	7.74	7.74	32.64	32.64	32.64	56.9	57.2	56.7	4.20	4.22	4.19	0.10	0.19	0.13	3	3.50
	4:51		Middle	1.0	20.80	20.80		7.74	7.74		32.64	32.64		56.8	55.7		4.20	4.12		0.13	0.11		4	
20/12/2012	4:20	Cloudy	Middle	1.0	19.20	19.20	19.20	7.97	7.97	7.97	33.08	33.08	33.08	83.1	83.9	83.9	6.31	6.48	6.40	5.18	5.25	5.34	4	4.50
	4:21		Middle	1.0	19.20	19.20		7.97	7.97		33.08	33.08		84.2	84.4		6.40	6.41		5.35	5.58		5	
22/12/2012	23:17	Cloudy	Middle	1.0	18.80	18.80	18.80	7.79	7.79	7.79	32.70	32.70	32.70	70.9	70.9	70.4	5.49	5.44	5.42	0.10	0.81	0.37	6	5.00
	23:18		Middle	1.0	18.80	18.80		7.78	7.78		32.70	32.70		69.6	70.0		5.34	5.39		0.20	0.36		4	
24/12/2012	0:17	Cloudy	Middle	1.0	18.50	18.50	18.50	7.92	7.92	7.92	32.42	32.42	32.42	85.5	86.0	85.8	6.62	6.66	6.65	6.36	5.73	5.90	6	6.50
	0:18		Middle	1.0	18.50	18.50		7.92	7.92		32.42	32.42		86.3	85.4		6.68	6.63		5.67	5.83		7	
26/12/2012	20:55	Cloudy	Middle	1.5	19.10	19.10	19.10	7.82	7.82	7.81	32.93	32.93	32.93	97.9	97.8	97.4	7.45	7.44	7.41	4.64	4.84	4.72	3	3.00
	20:56		Middle	1.5	19.10	19.10		7.80	7.80		32.92	32.92		97.4	96.5		7.41	7.35		4.73	4.68		3	

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

Water Monitoring Result at WSD 21 - Wan Chai
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth m		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	23:34	Cloudy	Middle	2.0	22.40	22.40	22.25	7.73	7.73	7.74	32.75	32.75	32.75	64.7	64.5	64.4	4.65	4.64	4.64	4.09	4.05	4.04	6	5.50
	23:36		Middle	2.0	22.10	22.10		7.75	7.75		32.74	32.74		64.3	64.2		4.63	4.63		4.01	3.99		5	
1/12/2012	22:25	Cloudy	Middle	1.5	22.20	22.20	22.15	7.89	7.89	7.88	33.06	33.06	33.07	67.7	67.5	67.4	4.66	4.65	4.64	3.05	3.02	3.01	5	4.50
	22:27		Middle	1.5	22.10	22.10		7.87	7.87		33.07	33.07		67.2	67.0		4.63	4.62		3.00	2.98		4	
3/12/2012	1:51	Cloudy	Middle	2.0	21.10	21.10	20.90	8.34	8.34	8.36	32.64	32.64	32.65	62.2	62.0	61.9	4.56	4.55	4.55	2.55	2.53	2.52	3	2.50
	1:53		Middle	2.0	20.70	20.70		8.37	8.37		32.66	32.66		61.8	61.7		4.54	4.54		2.50	2.49		2	
5/12/2012	3:52	Cloudy	Middle	1.5	21.40	21.40	21.30	7.72	7.72	7.72	32.16	32.16	32.16	54.4	54.1	54.0	4.03	4.01	4.00	2.80	2.75	2.75	6	7.00
	3:54		Middle	1.5	21.20	21.20		7.71	7.71		32.16	32.16		53.8	53.6		3.99	3.98		2.73	2.72		8	
7/12/2012	5:16	Cloudy	Middle	1.5	20.70	20.70	20.55	7.90	7.90	7.89	32.97	32.97	32.96	57.3	57.1	57.0	4.25	4.24	4.23	6.03	6.00	5.99	3	4.00
	5:18		Middle	1.5	20.40	20.40		7.88	7.88		32.94	32.94		56.8	56.6		4.22	4.21		5.97	5.95		5	
10/12/2012	9:32	Fine	Middle	2.0	20.40	20.40	20.30	7.98	7.98	7.95	33.00	33.00	33.02	64.2	63.6	63.9	4.78	4.74	4.76	5.84	5.81	5.86	5	5.50
	9:34		Middle	2.0	20.20	20.20		7.91	7.91		33.03	33.03		64.5	63.1		4.81	4.71		5.88	5.90		6	
12/12/2012	23:39	Cloudy	Middle	2.0	19.90	19.90	19.70	7.86	7.86	7.85	32.82	32.82	32.83	64.2	64.0	63.9	4.83	4.82	4.81	4.92	4.89	4.88	4	4.00
	23:41		Middle	2.0	19.50	19.50		7.83	7.83		32.83	32.83		63.7	63.5		4.80	4.79		4.87	4.85		4	
15/12/2012	0:51	Fine	Middle	1.5	21.00	21.00	20.95	7.84	7.84	7.84	33.11	33.11	33.12	68.0	67.8	67.7	4.98	4.96	4.97	5.37	5.35	5.34	5	5.00
	0:53		Middle	1.5	20.90	20.90		7.83	7.83		33.13	33.13		67.6	67.4		4.97	4.96		5.32	5.31		5	
18/12/2012	3:12	Cloudy	Middle	1.5	20.80	20.80	20.70	7.77	7.77	7.77	32.92	32.92	32.91	65.7	65.5	65.4	4.86	4.85	4.84	2.41	2.36	2.36	8	7.50
	3:14		Middle	1.5	20.60	20.60		7.76	7.76		32.89	32.89		65.3	65.1		4.84	4.82		2.34	2.32		7	
20/12/2012	4:53	Cloudy	Middle	2.0	19.70	19.70	19.55	7.93	7.93	7.92	33.30	33.30	33.30	62.8	62.6	62.5	4.74	4.73	4.73	1.58	1.57	1.54	3	3.00
	4:55		Middle	2.0	19.40	19.40		7.91	7.91		33.30	33.30		62.4	62.3		4.72	4.72		1.52	1.49		3	
22/12/2012	20:59	Cloudy	Middle	1.5	19.40	19.40	19.25	7.85	7.85	7.85	33.19	33.19	33.19	70.0	69.8	69.7	5.32	5.31	5.30	6.07	6.04	6.03	7	7.50
	21:01		Middle	1.5	19.10	19.10		7.84	7.84		33.19	33.19		69.6	69.3		5.30	5.28		6.02	5.99		8	
24/12/2012	22:16	Cloudy	Middle	1.5	18.60	18.60	18.40	7.82	7.82	7.82	32.30	32.30	32.27	67.1	66.7	66.7	5.20	5.18	5.18	4.12	4.10	4.10	3	3.50
	22:18		Middle	1.5	18.20	18.20		7.82	7.82		32.24	32.24		66.5	66.3		5.17	5.16		4.09	4.07		4	
26/12/2012	22:56	Cloudy	Middle	2.0	18.90	18.90	18.85	7.88	7.88	7.88	33.11	33.11	33.11	67.7	67.4	67.3	5.22	5.20	5.20	6.48	6.46	6.44	13	**13.50**
	22:58		Middle	2.0	18.80	18.80		7.87	7.87		33.10	33.10		67.1	66.9		5.19	5.18		6.43	6.39		14	

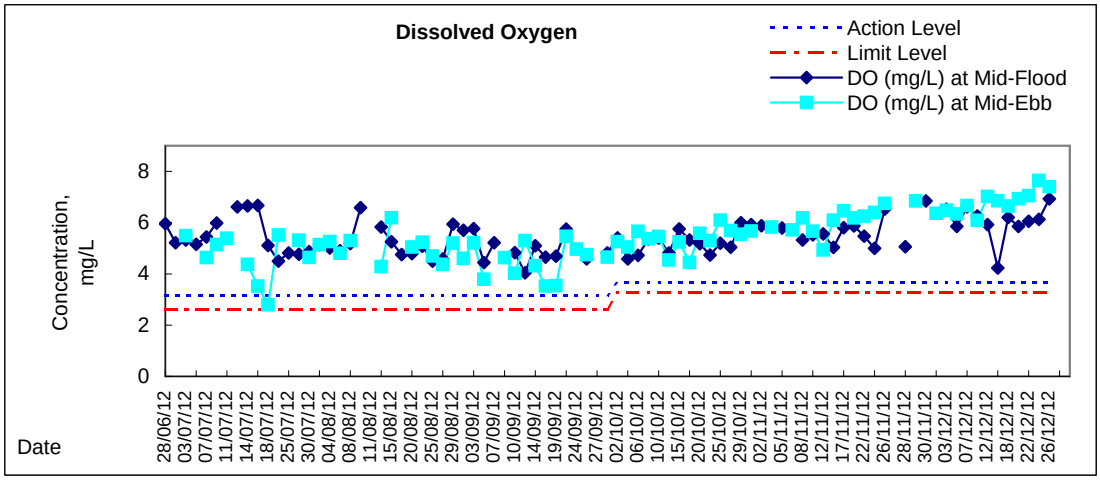
Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level

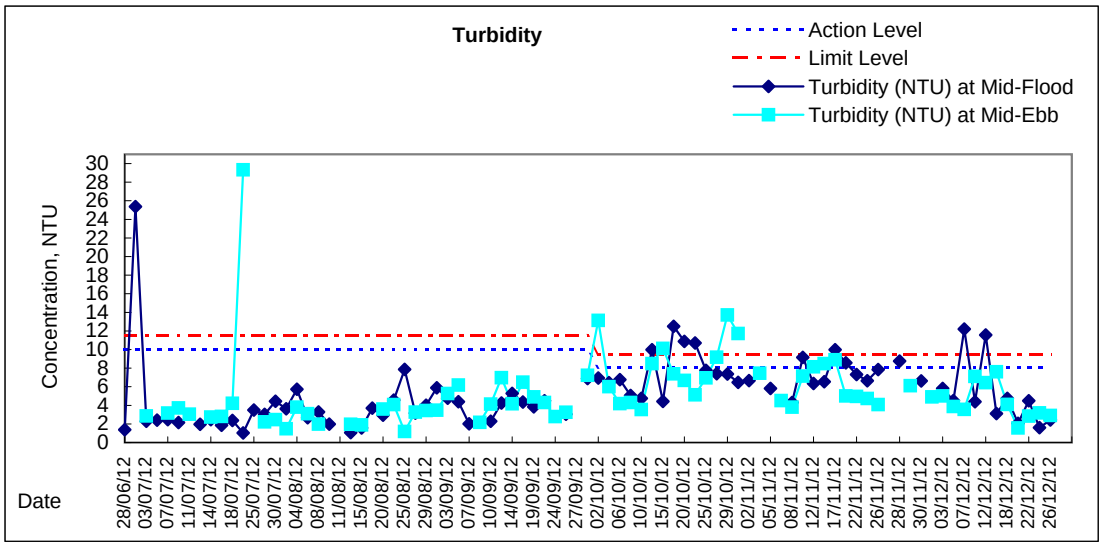
Water Monitoring Result at WSD19 - Sheung Wan
Mid-Ebb Tide

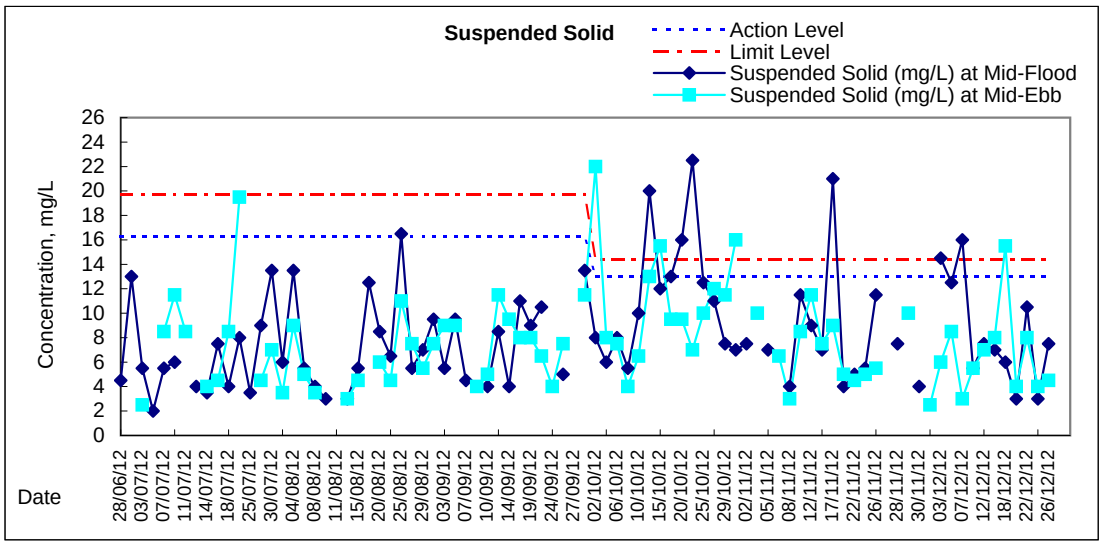
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/11/2012	3:45	Cloudy	Middle	1.5	22.20	22.20	22.20	8.75	8.75	8.75	32.64	32.63	32.64	92.7	92.5	91.9	7.37	6.84	6.84	6.27	6.29	6.10	10	10.00
	3:46		Middle	1.5	22.20	22.20		8.75	8.75		32.64	32.64		92.3	90.0		6.67	6.49		5.99	5.86		10	
1/12/2012	21:36	Cloudy	Middle	2.0	22.00	22.00	22.00	7.98	7.98	7.98	33.17	33.17	33.17	87.4	87.5	88.0	6.32	6.33	6.37	4.88	4.86	4.90	2	2.50
	21:37		Middle	2.0	22.00	22.00		7.98	7.98		33.17	33.17		88.7	88.4		6.42	6.39		5.01	4.85		3	
3/12/2012	5:08	Cloudy	Middle	1.5	20.90	20.90	20.90	7.96	7.96	7.96	32.88	32.88	32.88	87.6	87.9	87.8	6.48	6.49	6.48	5.09	5.10	5.00	5	6.00
	5:09		Middle	1.5	20.90	20.90		7.96	7.96		32.88	32.88		87.7	87.8		6.47	6.48		5.01	4.81		7	
5/12/2012	2:40	Cloudy	Middle	1.5	20.80	20.70	20.73	7.99	7.99	7.99	32.84	32.84	32.84	85.2	85.4	85.5	6.31	6.33	6.34	4.32	3.78	3.88	8	8.50
	2:41		Middle	1.5	20.70	20.70		7.99	7.99		32.84	32.84		85.4	86.0		6.34	6.37		3.81	3.59		9	
7/12/2012	6:15	Cloudy	Middle	1.5	20.10	20.10	20.10	7.97	7.97	7.97	33.07	33.07	33.07	88.0	89.6	89.0	6.58	6.71	6.66	3.73	3.41	3.56	3	3.00
	6:16		Middle	1.5	20.10	20.10		7.97	7.97		33.07	33.07		89.2	89.2		6.68	6.68		3.68	3.42		3	
10/12/2012	9:56	Fine	Middle	2.5	20.20	20.20	20.15	7.93	7.93	7.93	33.13	33.13	33.14	82.3	81.7	81.7	6.14	6.10	6.09	7.20	7.18	7.11	5	5.50
	9:58		Middle	2.5	20.10	20.10		7.93	7.93		33.15	33.15		81.3	81.3		6.06	6.07		7.02	7.02		6	
12/12/2012	23:40	Cloudy	Middle	1.5	19.80	19.80	19.80	7.96	7.96	7.96	33.28	33.28	33.28	92.4	94.1	93.4	6.96	7.07	7.02	6.46	6.32	6.44	6	7.00
	23:41		Middle	1.5	19.80	19.80		7.96	7.96		33.28	33.28		93.7	93.3		7.04	7.01		6.72	6.25		8	
15/12/2012	3:41	Fine	Middle	1.5	21.10	21.10	21.10	7.93	7.93	7.93	33.01	33.01	33.01	93.6	94.4	93.7	6.83	6.91	6.85	7.76	7.67	7.61	8	8.00
	3:42		Middle	1.5	21.10	21.10		7.93	7.93		33.01	33.01		93.6	93.0		6.86	6.80		7.69	7.30		8	
18/12/2012	5:22	Cloudy	Middle	1.5	20.60	20.60	20.60	7.91	7.91	7.91	32.55	32.55	32.55	89.2	89.7	89.5	6.62	6.66	6.64	4.05	4.10	4.09	16	**15.50**
	5:23		Middle	1.5	20.60	20.60		7.91	7.91		32.55	32.55		89.4	89.6		6.64	6.65		4.13	4.09		15	
20/12/2012	3:25	Cloudy	Middle	2.0	19.00	19.00	19.00	8.03	8.03	8.03	33.13	33.13	33.13	90.6	90.6	90.8	6.92	6.92	6.93	1.67	1.63	1.57	4	4.00
	3:26		Middle	2.0	19.00	19.00		8.03	8.03		33.13	33.13		91.4	90.5		6.98	6.90		1.55	1.42		4	
22/12/2012	23:51	Cloudy	Middle	1.5	18.50	18.50	18.50	7.96	7.96	7.96	32.95	32.95	32.95	90.0	91.9	91.6	6.97	7.08	7.05	2.69	2.70	2.84	7	8.00
	23:52		Middle	1.5	18.50	18.50		7.97	7.96		32.95	32.95		91.9	92.7		7.03	7.13		2.96	3.00		9	
24/12/2012	1:25	Cloudy	Middle	1.5	18.00	18.00	18.00	8.01	8.01	8.01	33.15	33.15	33.15	97.6	98.4	98.0	7.60	7.68	7.65	2.98	3.19	3.18	3	4.00
	1:26		Middle	1.5	18.00	18.00		8.01	8.01		33.15	33.15		98.3	97.5		7.66	7.65		3.17	3.37		5	
26/12/2012	20:25	Cloudy	Middle	2.0	19.20	19.20	19.20	7.94	7.94	7.94	33.15	33.15	33.15	96.9	99.0	97.7	7.35	7.50	7.40	3.09	3.03	2.91	5	4.50
	20:26		Middle	2.0	19.20	19.20		7.94	7.94		33.15	33.15		97.7	97.1		7.41	7.34		2.74	2.76		4	

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

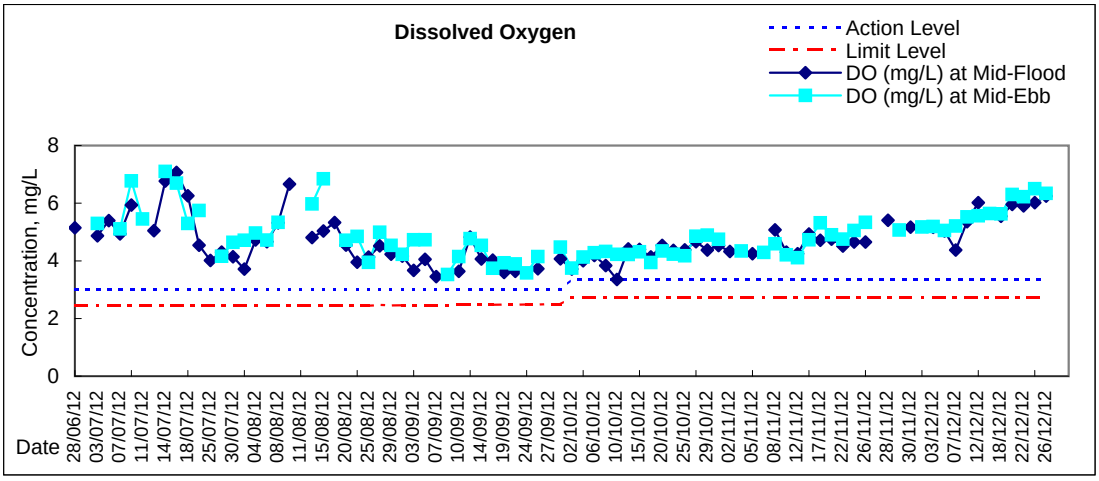
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

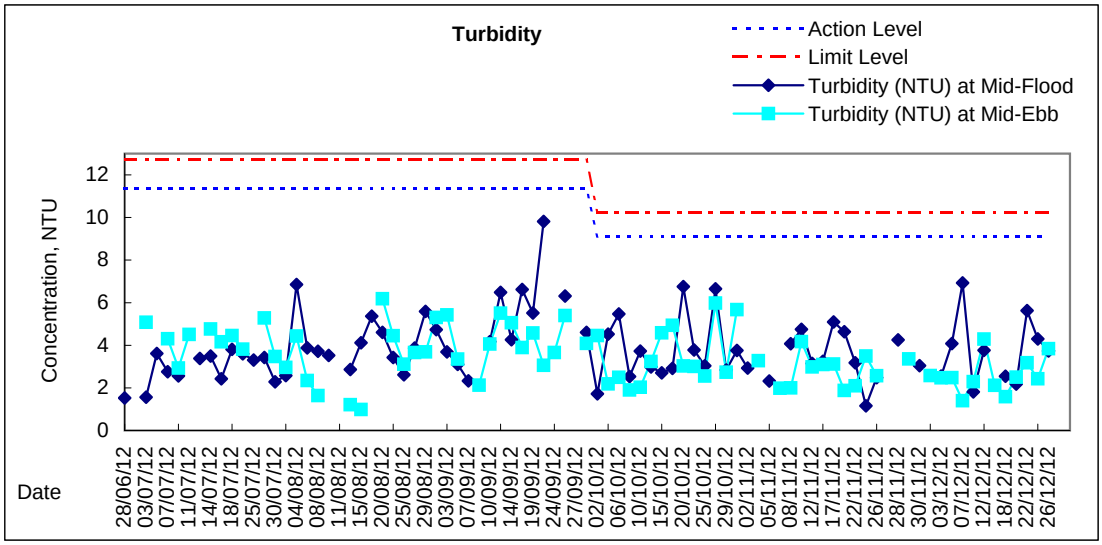


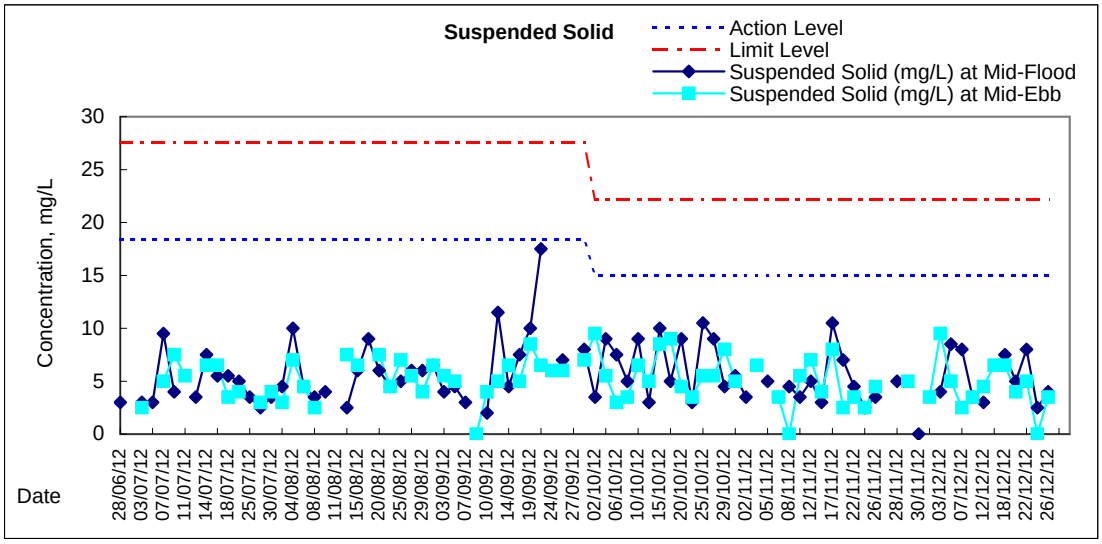




Graphic Presentation of Water Quality Result of C1 - HKCEC

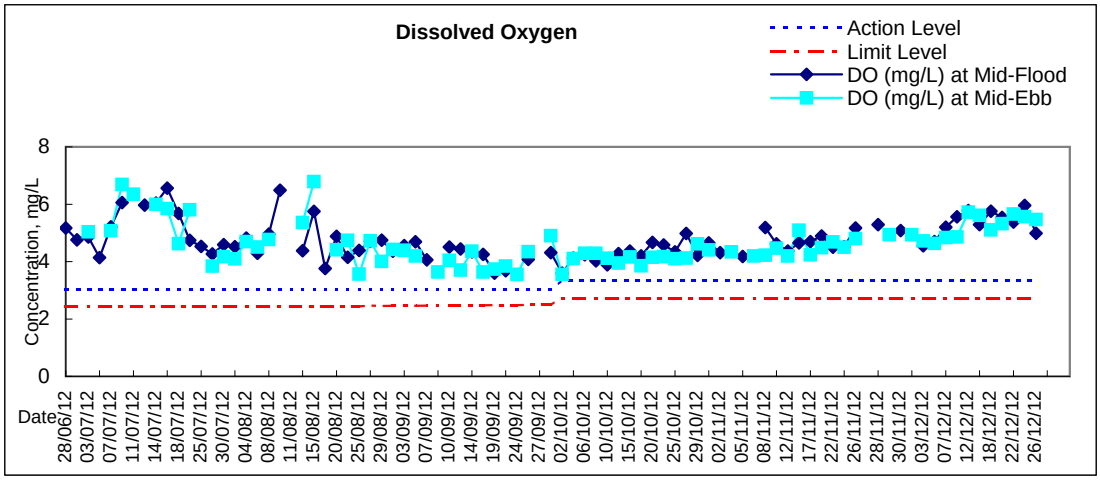


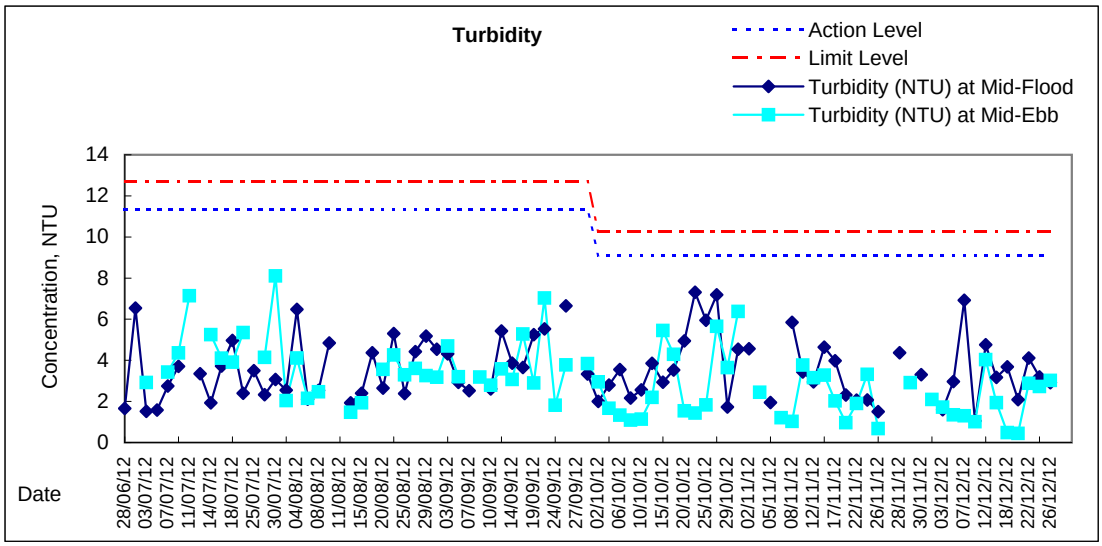


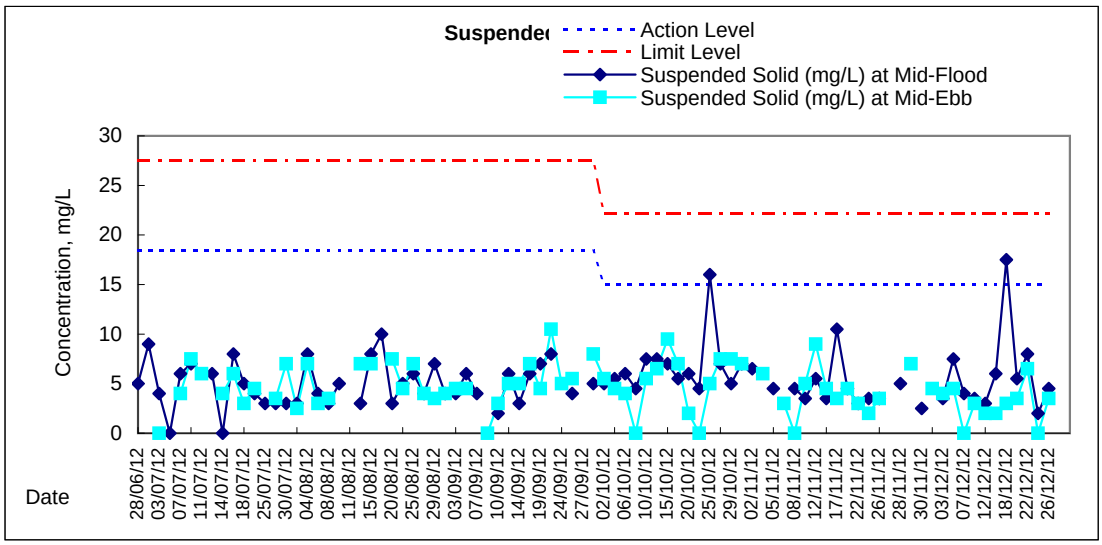


Remarks: Due to the blockage of road access to C1 on 15 Dec 2012 during mid-flood,
the water quality monitoring was cancelled at C1 on 15 Dec 2012 during mid-flood.

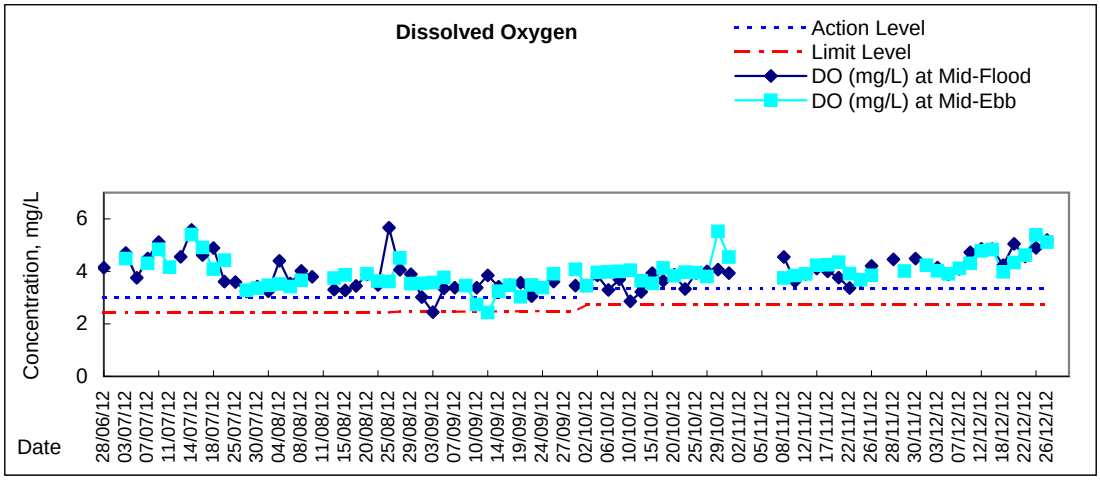
Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

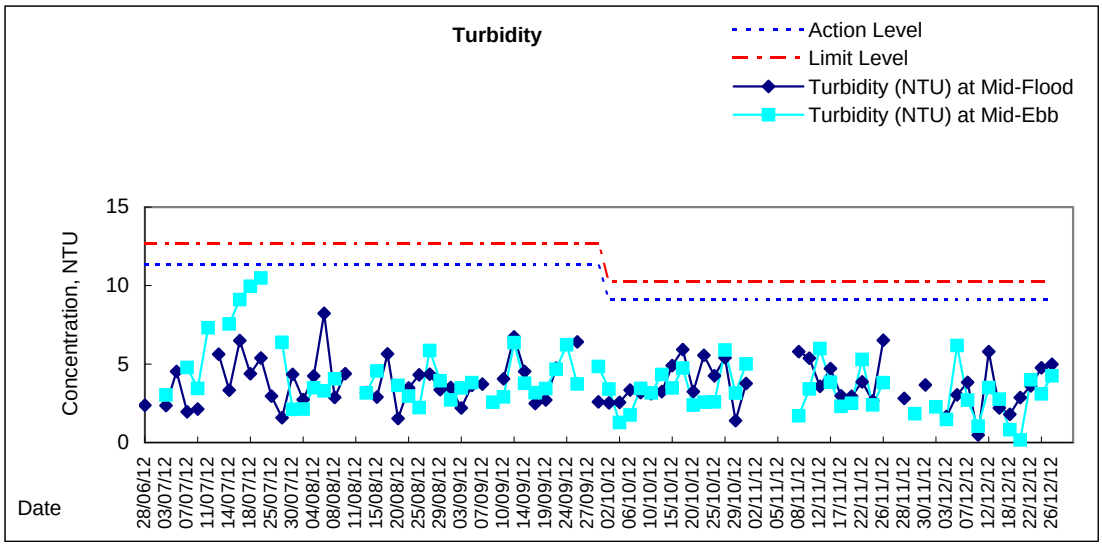


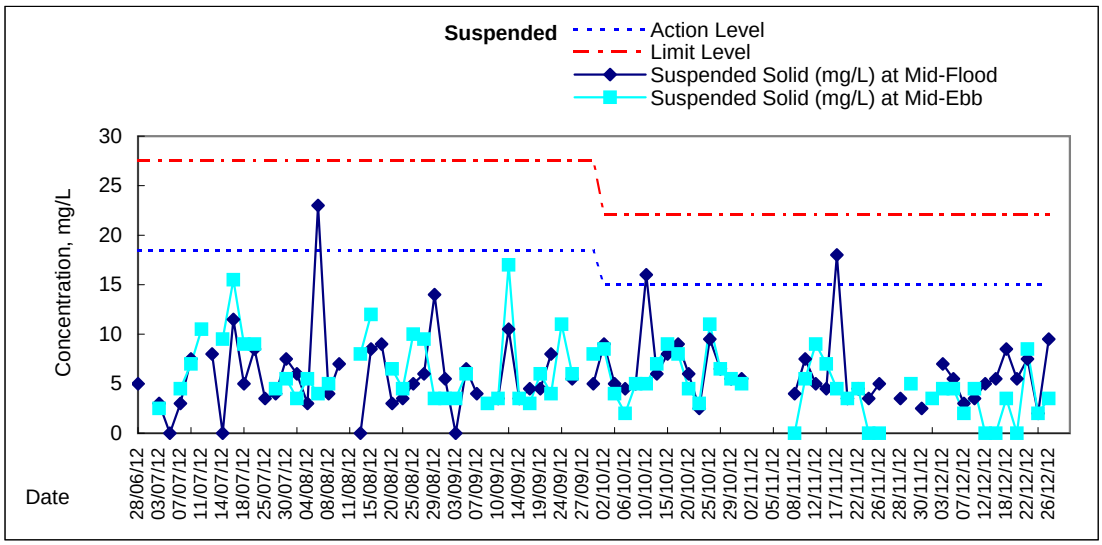




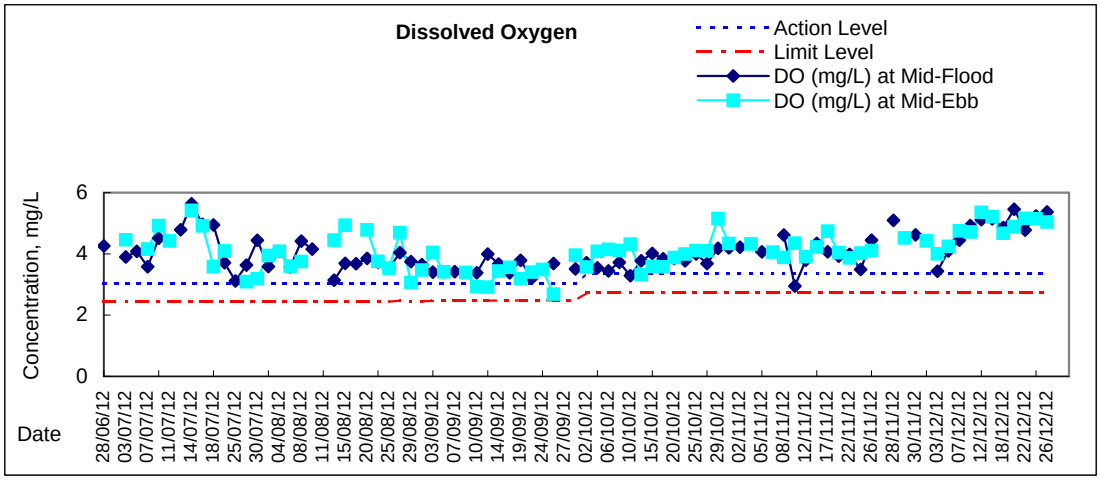
Graphic Presentation of Water Quality Result of C3 - WCT and GEC

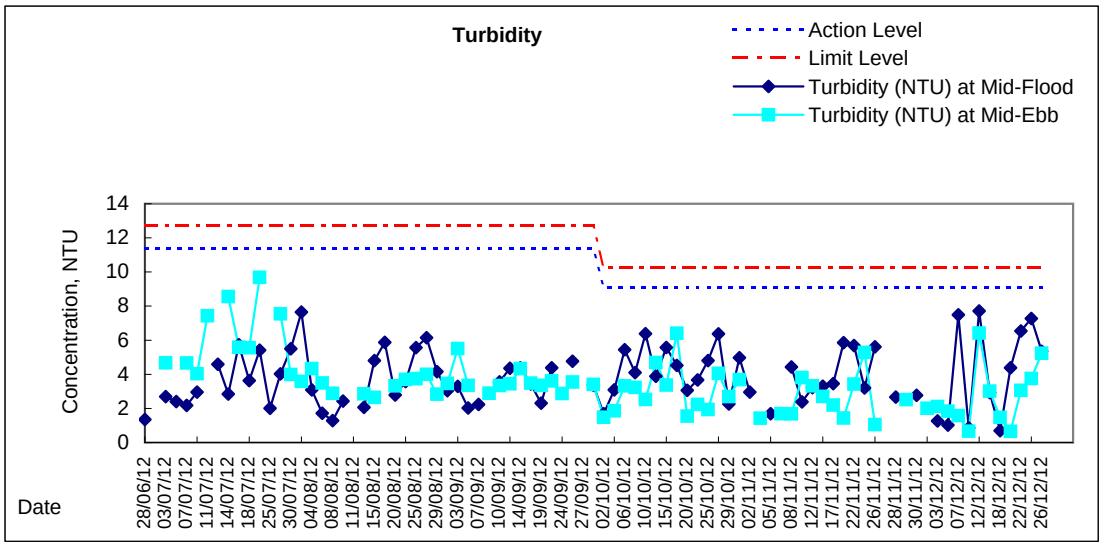


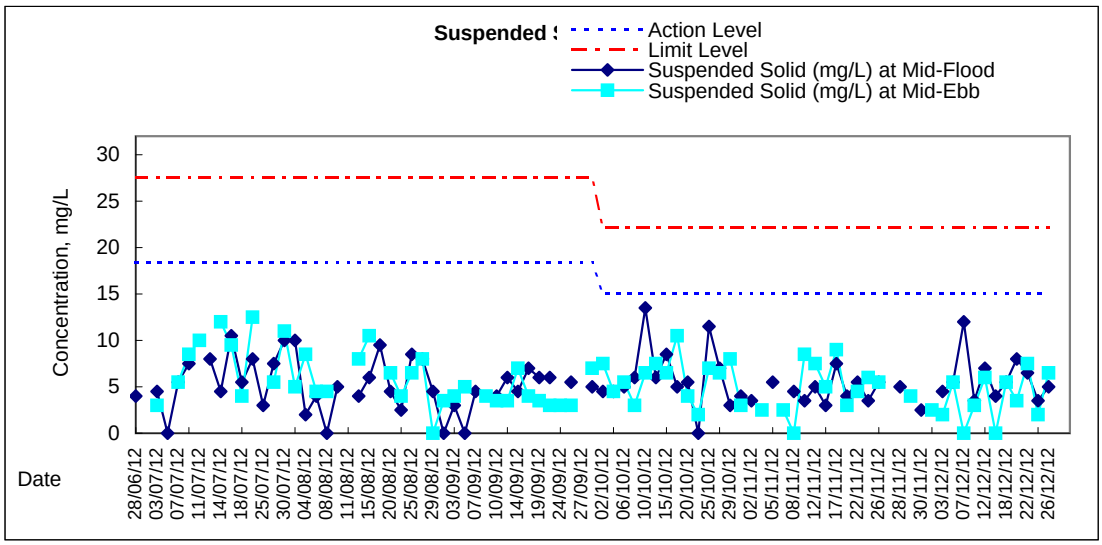




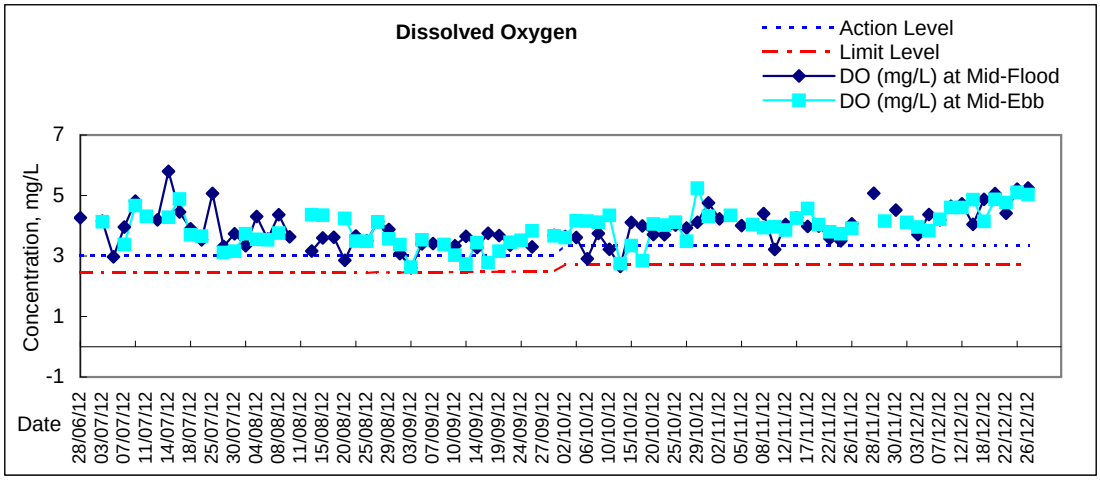
Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

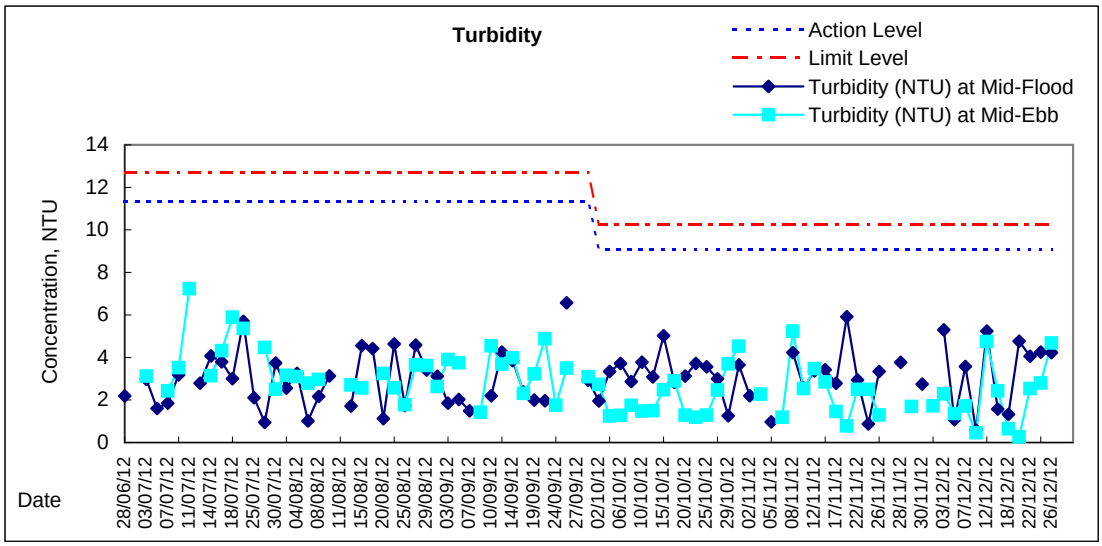


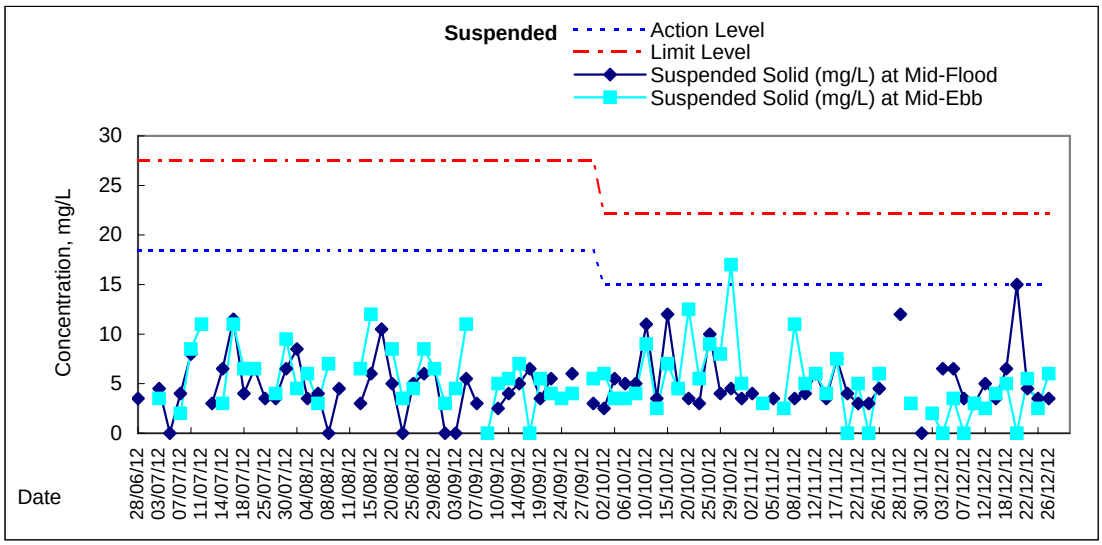




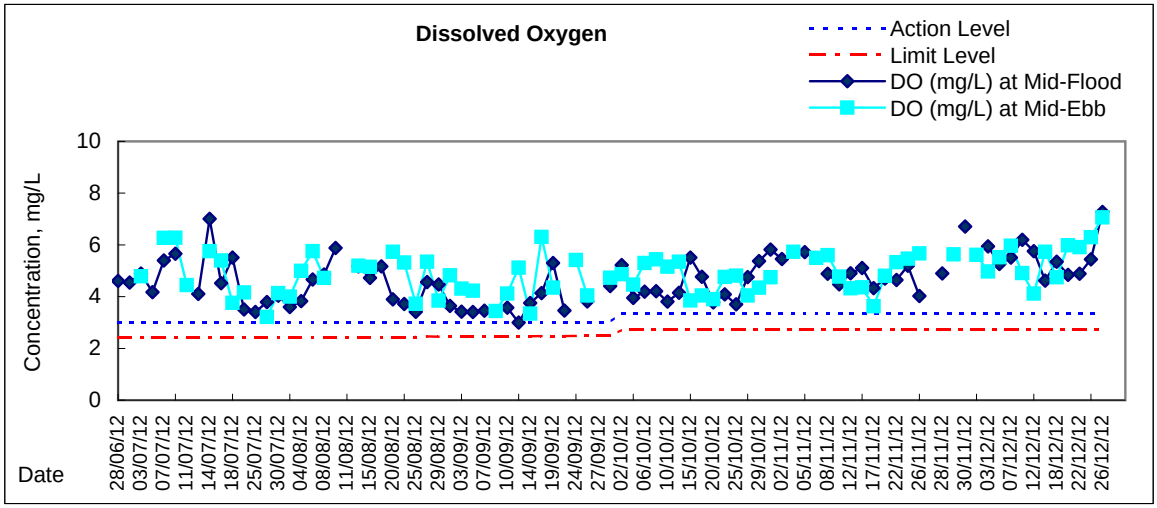
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

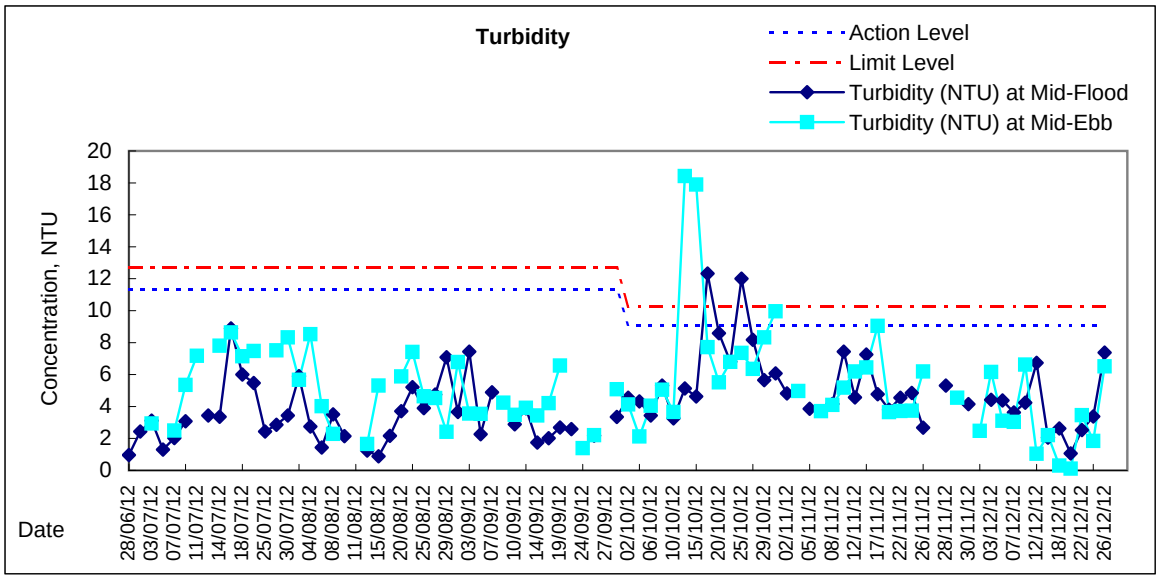


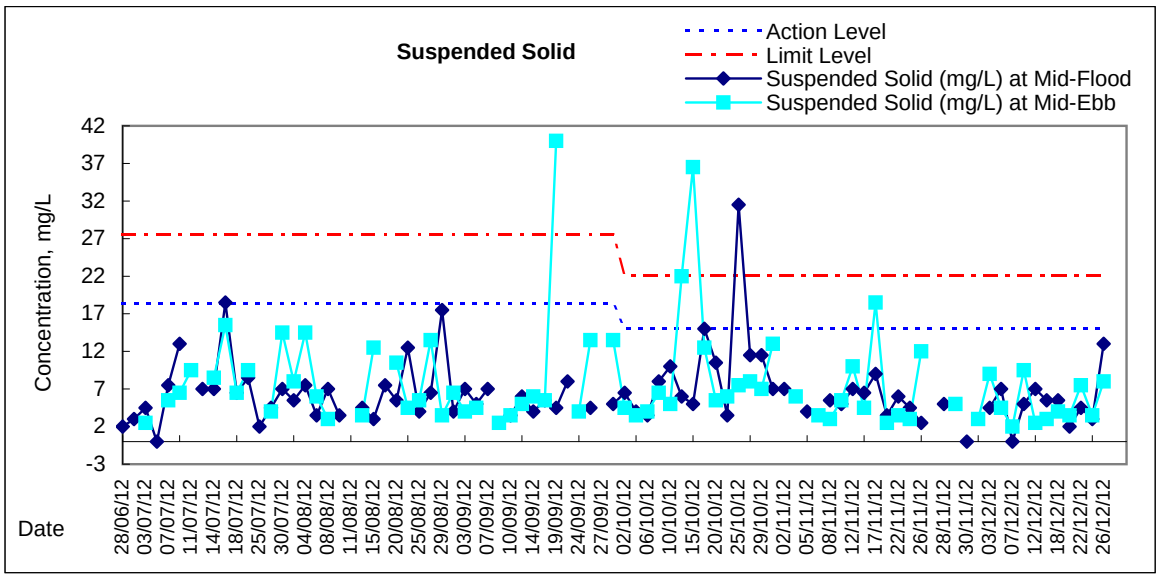




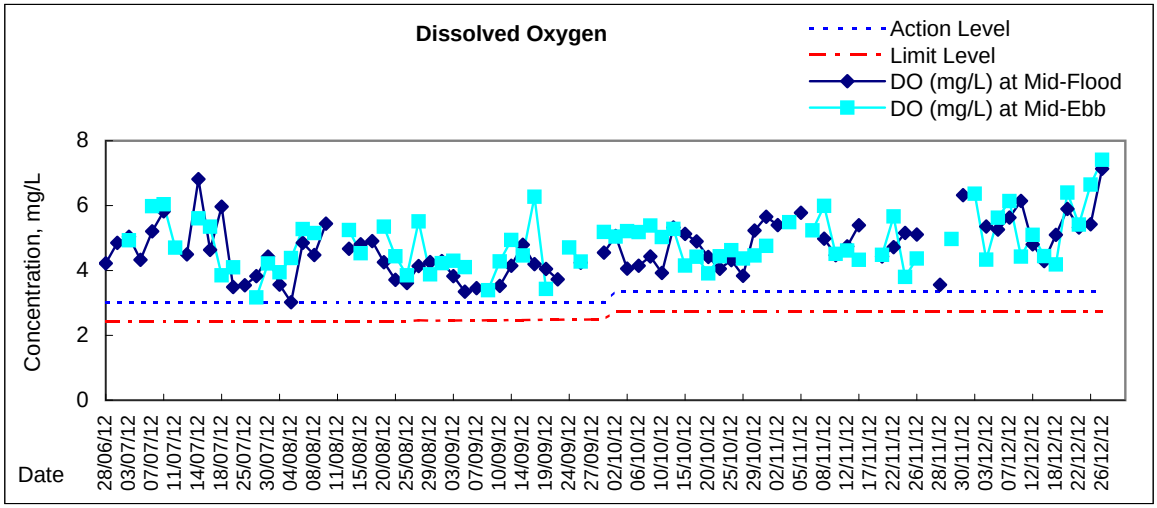
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

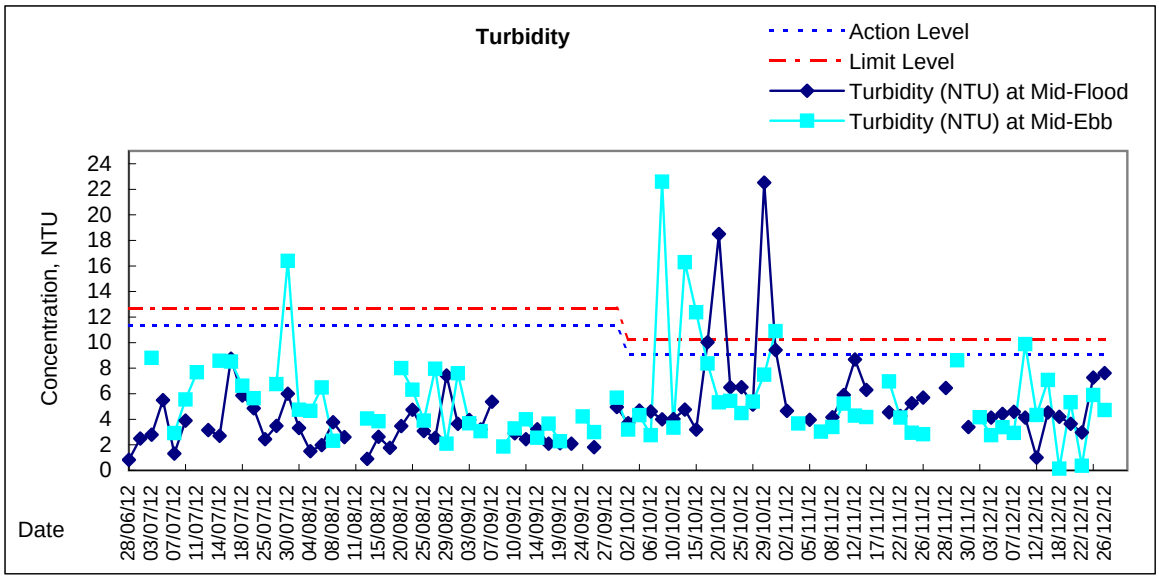


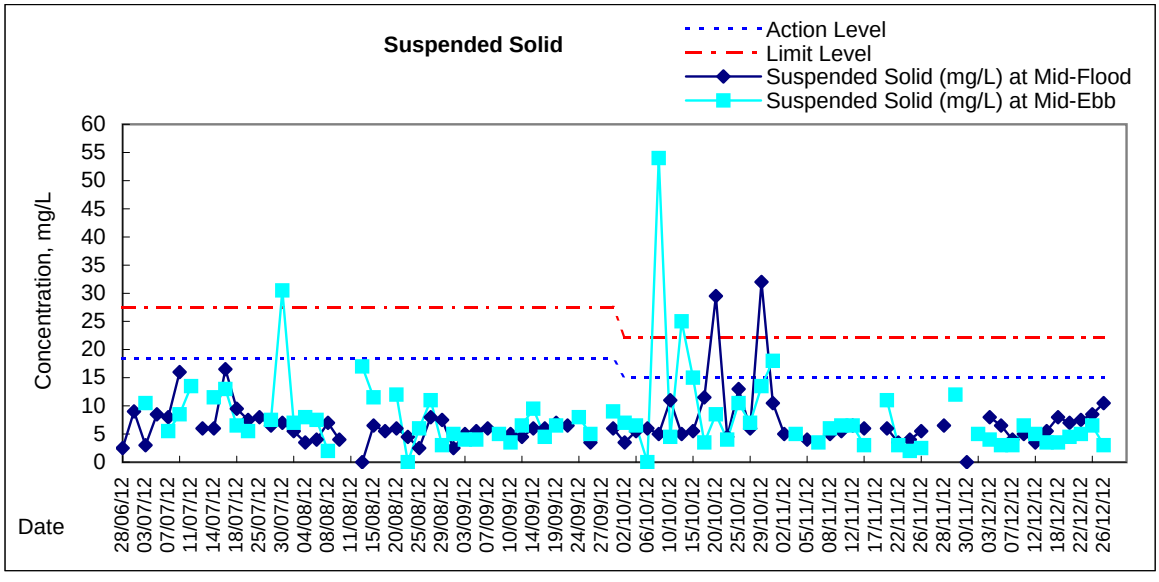




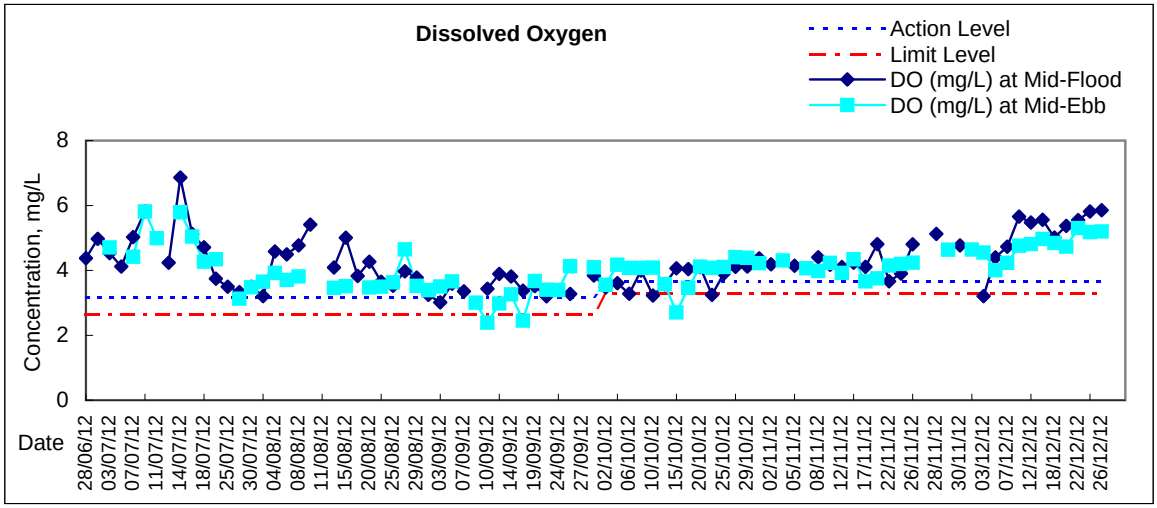
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

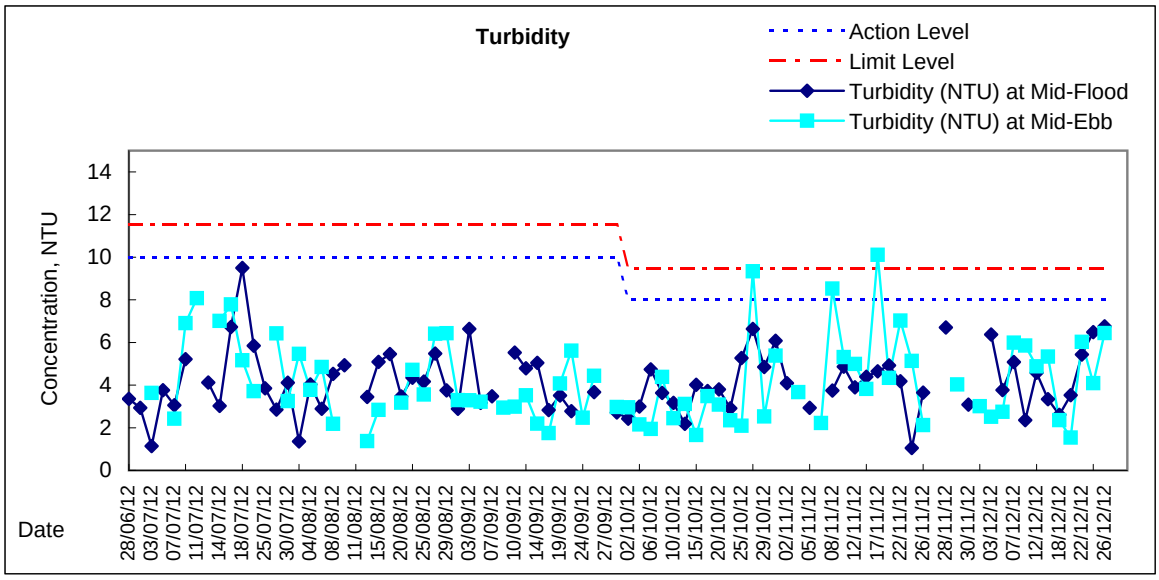


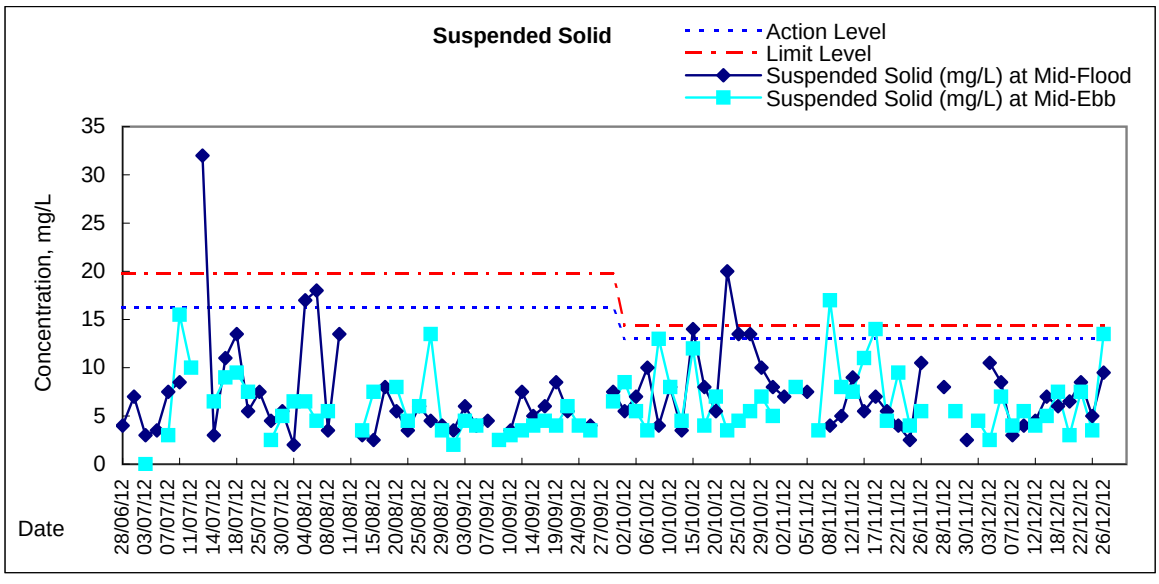




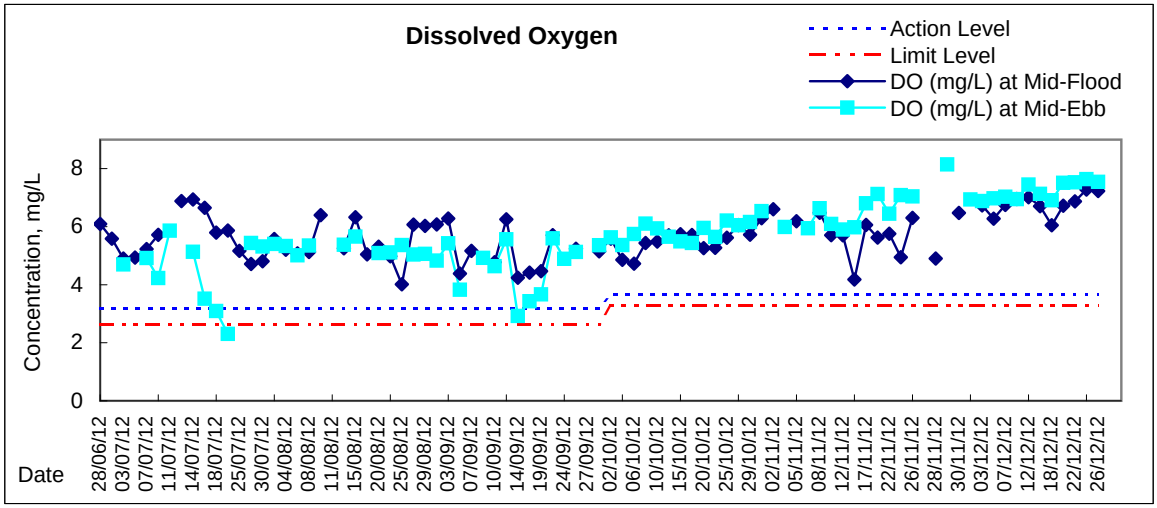
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

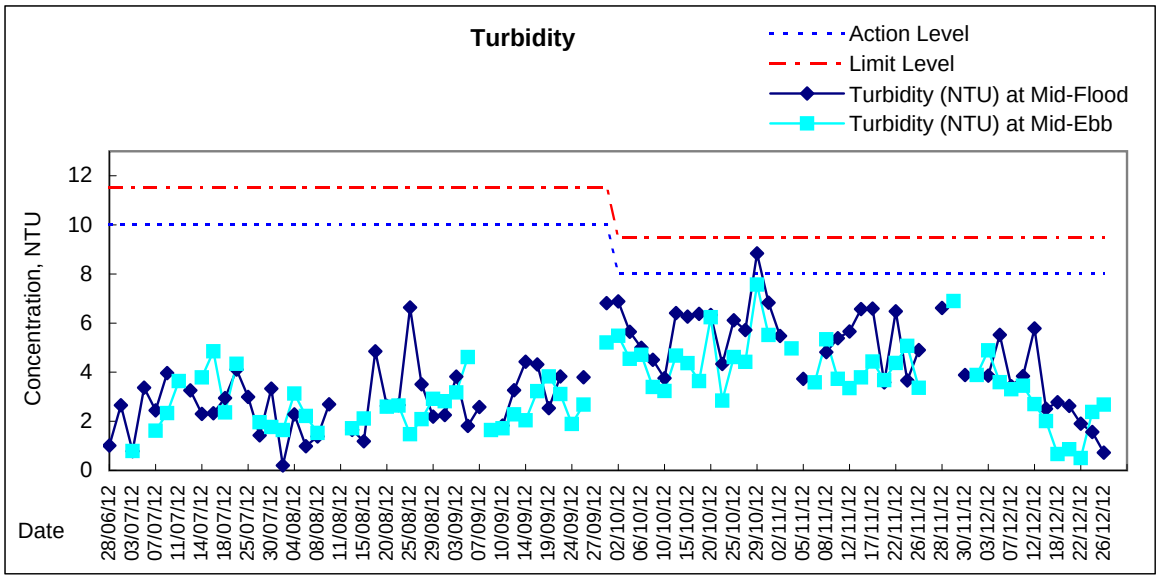


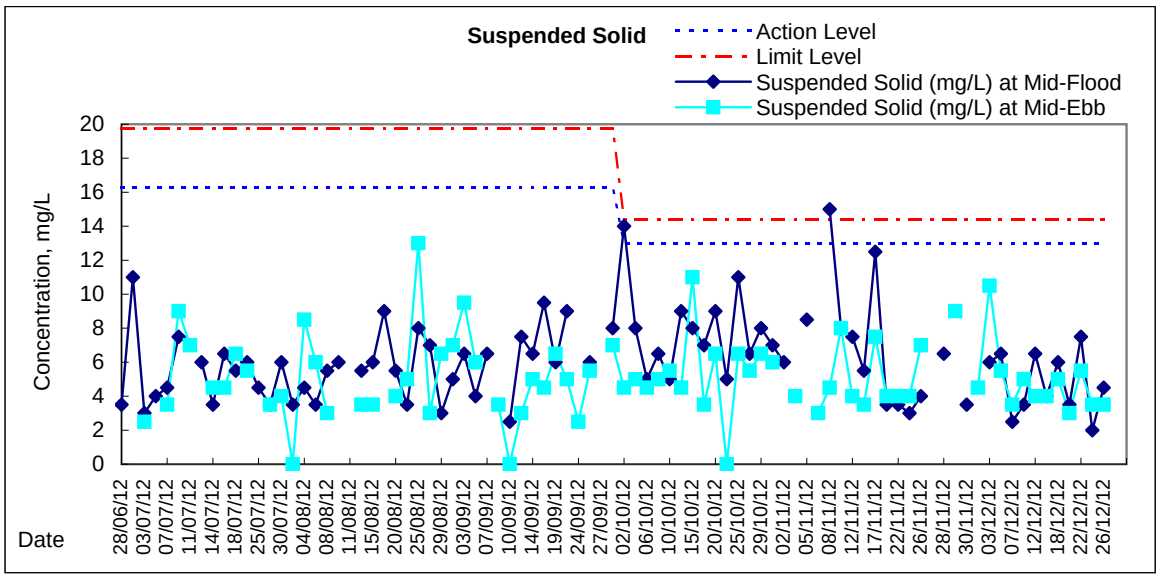




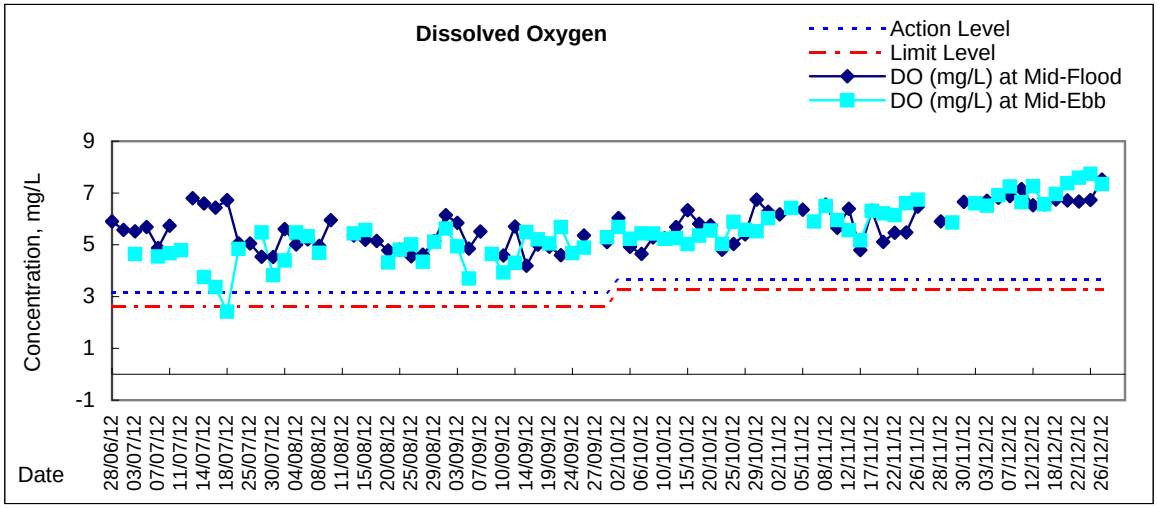
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

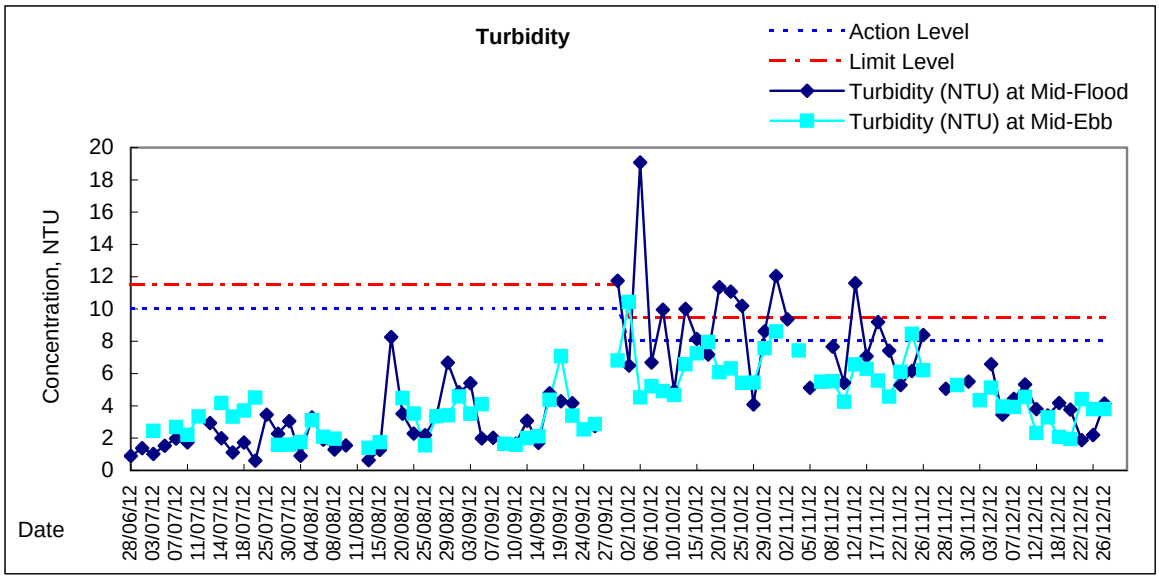


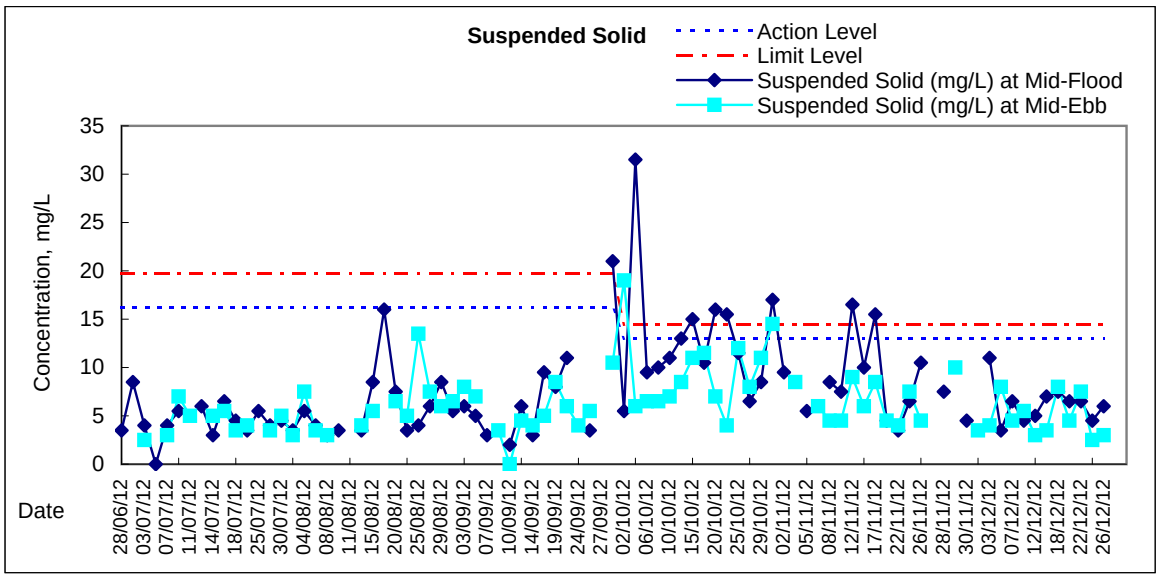




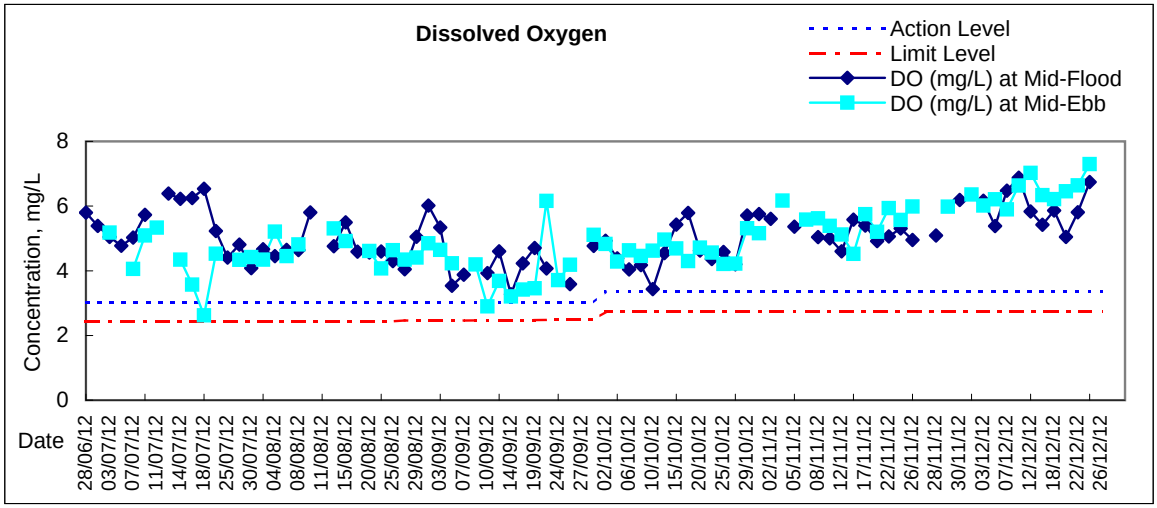
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

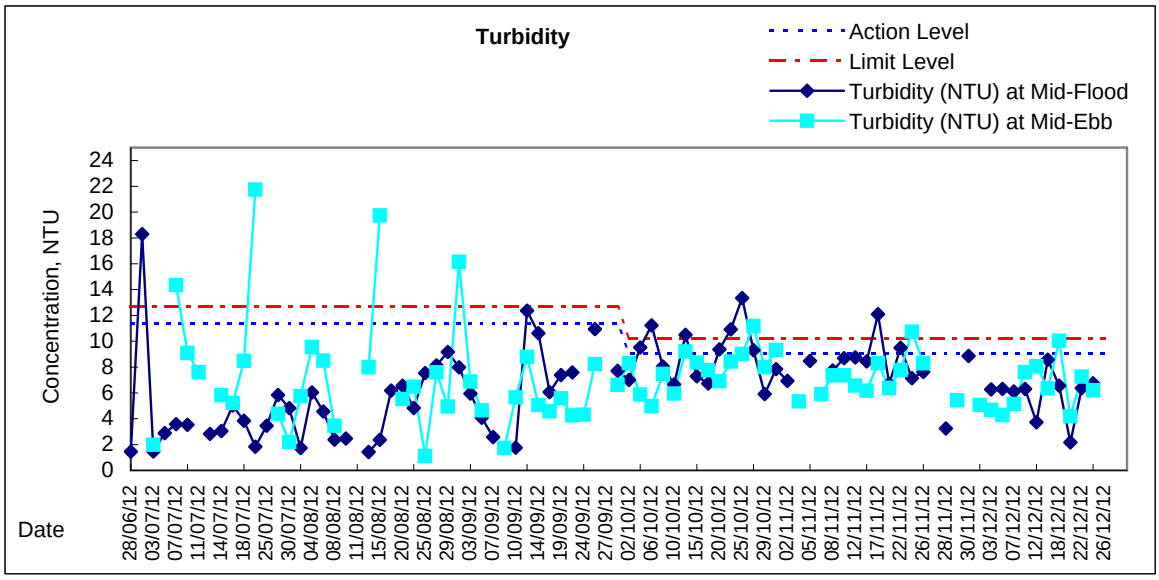


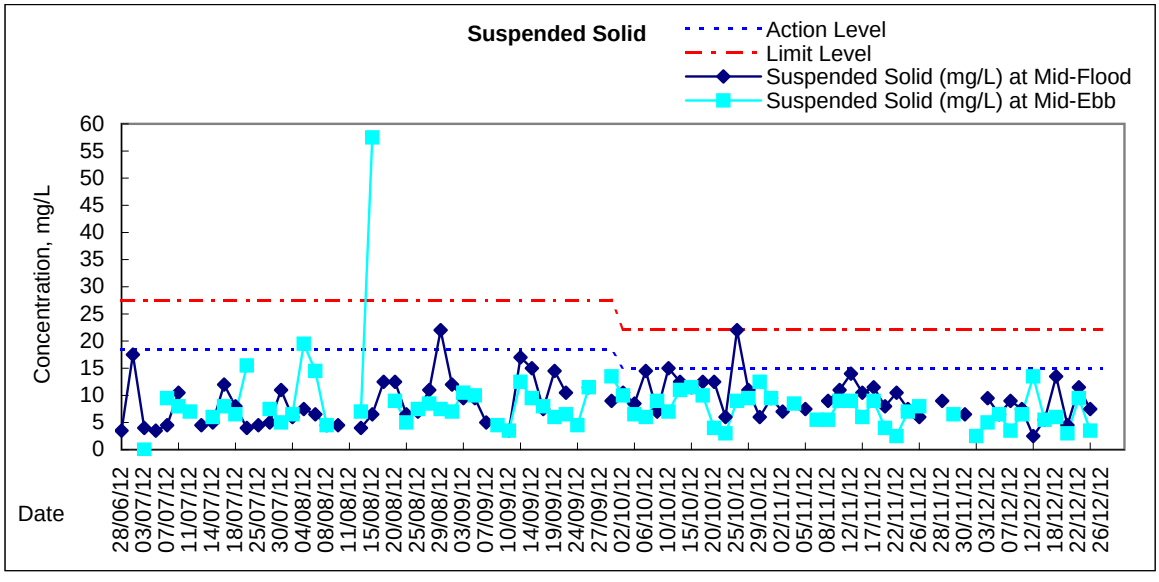




Graphic Presentation of Water Quality Result of C8 - City Garden

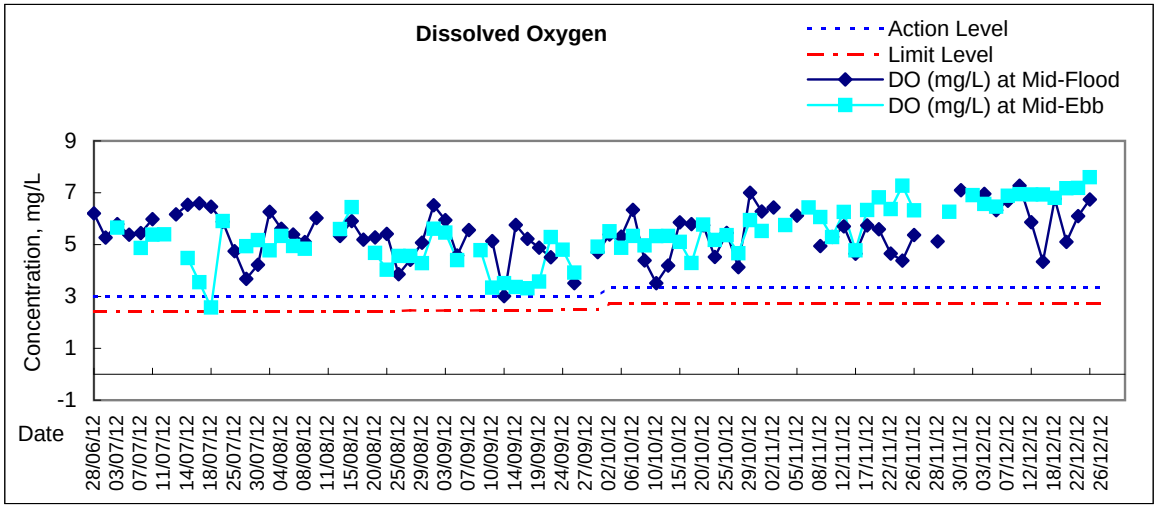


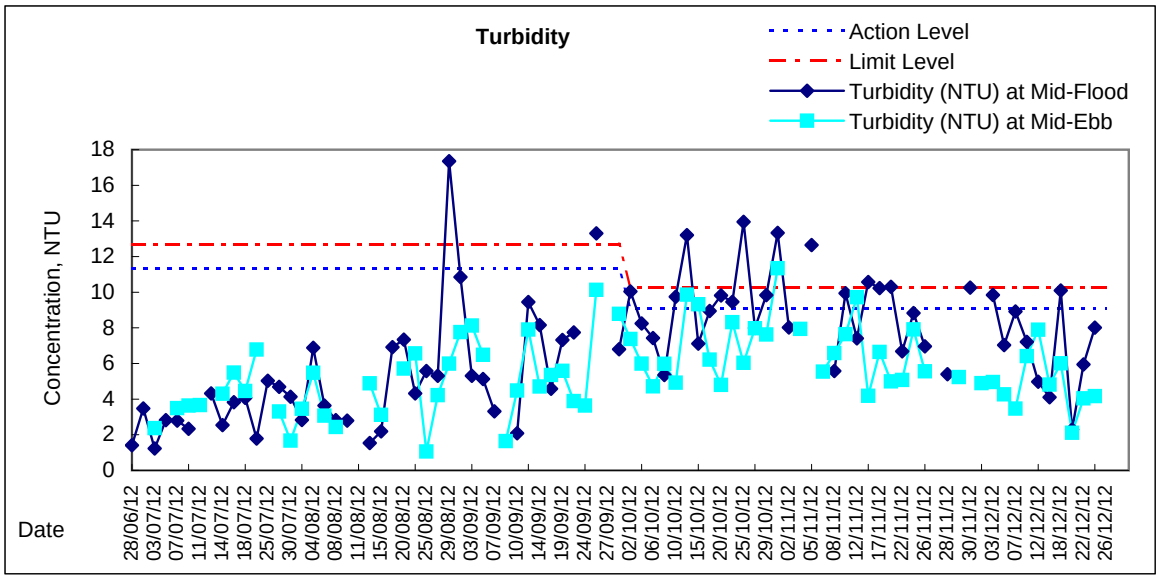


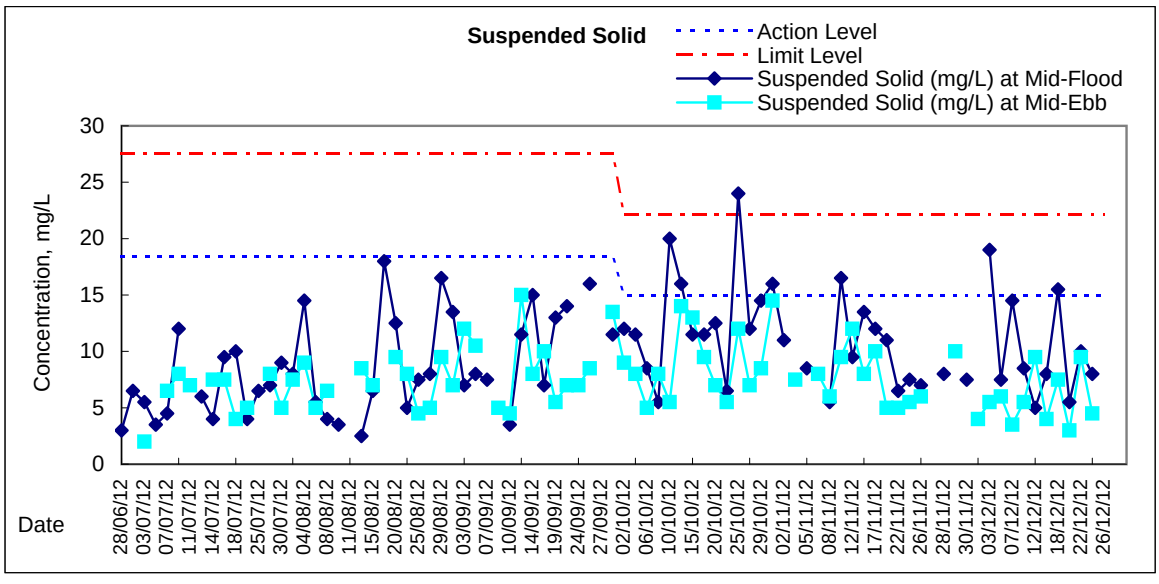


Remarks:As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C8 was temporary suspended on 26 December 2012 during mid-ebb and mid-flood.

Graphic Presentation of Water Quality Result of C9 - Provident Centre

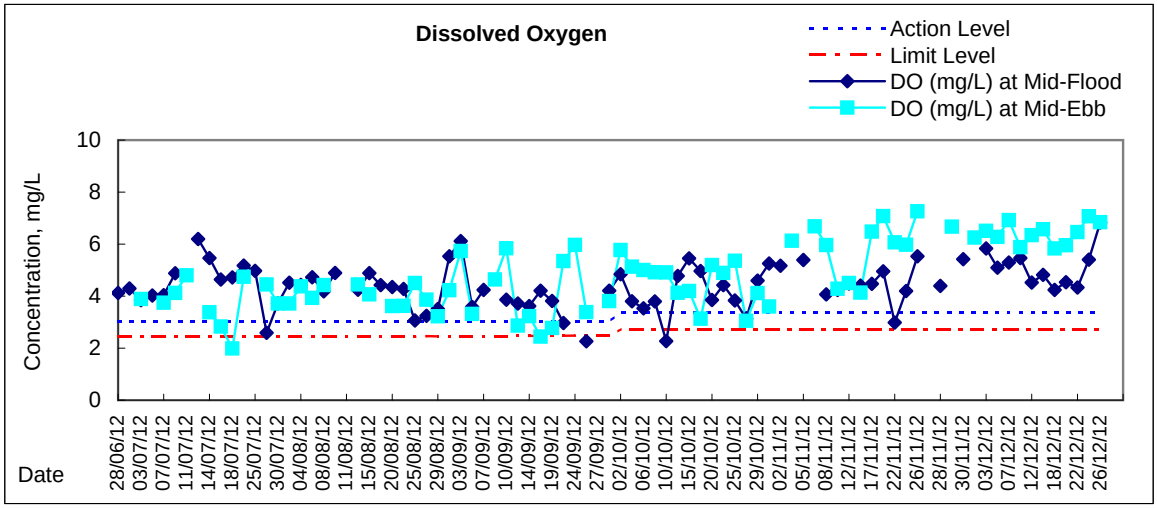


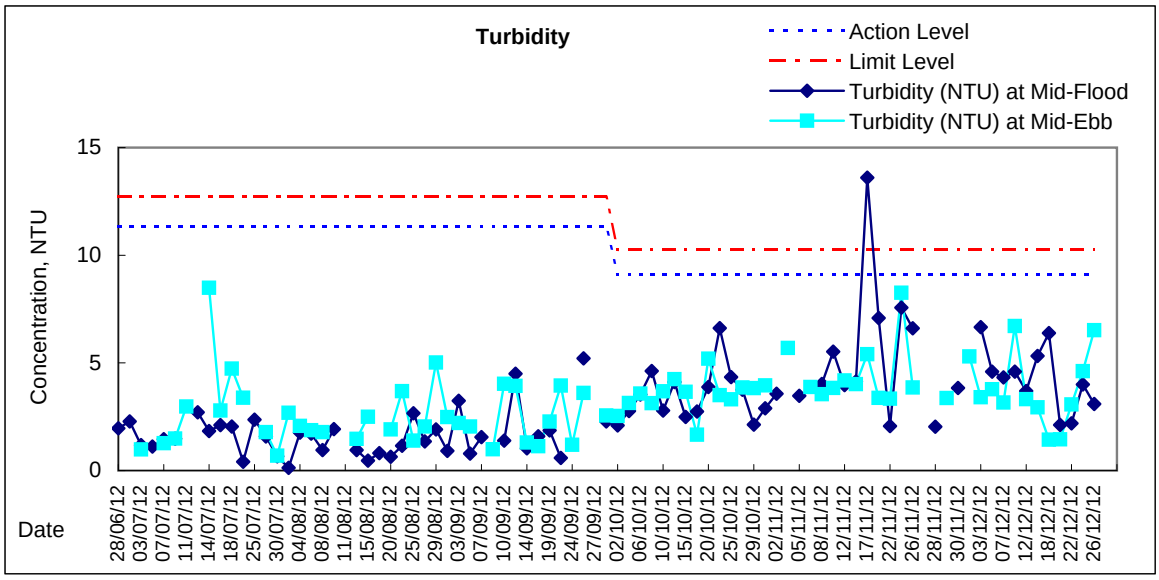


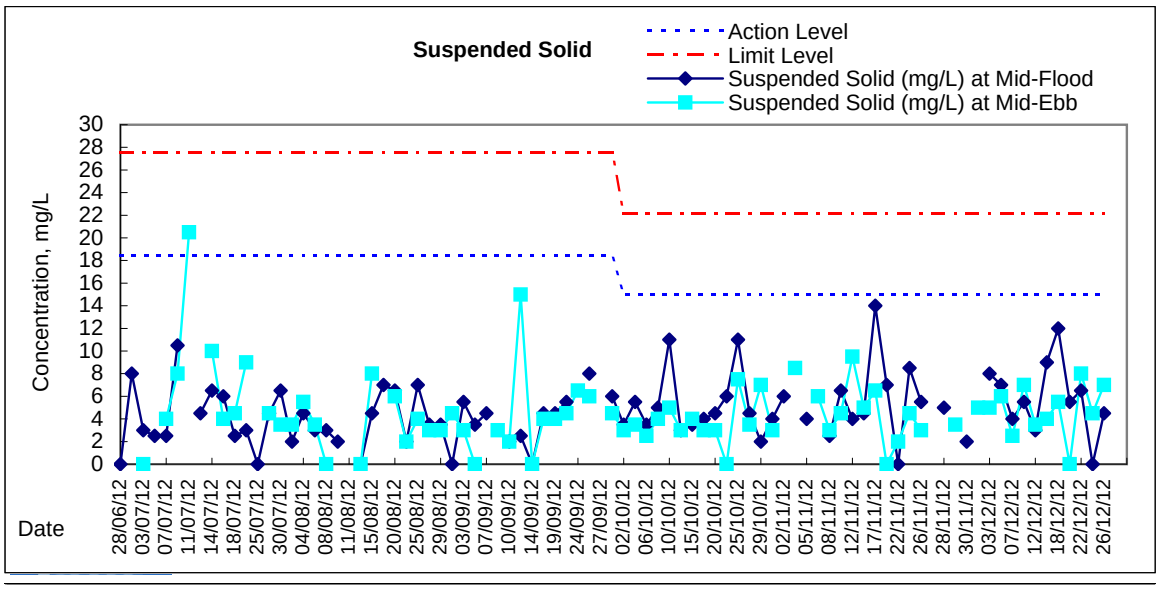


Remarks:As confirmed by HY/2009/19 contractor, there was no marine work to be conducted on 26 December 2012, water quality monitoring at C9 was temporary suspended on 26 December 2012 during mid-ebb and mid-flood.

Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:29		Middle	1.5	22.50	22.50	22.5	7.90	7.90	7.9	32.47	32.47	32.5	64.6	64.4	64.5	4.65	4.64	4.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:20		Middle	1.5	22.50	22.50	22.5	7.97	7.97	8.0	32.73	32.73	32.7	93.6	95.2	94.4	6.71	6.82	6.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:43		Middle	1.5	20.80	20.80	20.8	7.91	7.91	7.9	31.59	31.59	31.6	86.4	86.8	86.6	6.43	6.46	6.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:10		Middle	1.5	21.00	21.00	21.0	7.95	7.95	8.0	31.45	31.45	31.5	72.2	72.2	72.2	5.38	5.38	5.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:28		Middle	1.5	21.40	21.40	21.4	7.93	7.93	7.9	32.57	32.57	32.6	76.6	76.3	76.5	5.60	5.58	5.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	1.0	20.80	20.80	20.8	2.97	2.97	3.0	32.62	32.62	32.6	77.8	76.5	77.2	5.75	5.66	5.71
	16:40		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	3.0	21.00	21.00	21.0	7.93	7.93	7.9	32.64	32.64	32.6	73.6	72.4	73.0	5.43	5.34	5.39
12/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:36		Middle	1.5	21.00	21.00	21.0	7.88	7.88	7.9	32.65	32.65	32.7	63.5	62.8	63.2	4.68	4.62	4.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:19		Middle	1.5	21.30	21.30	21.3	7.85	7.85	7.9	32.22	32.22	32.2	75.9	75.7	75.8	5.57	5.55	5.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:45		Middle	1.5	20.70	20.70	20.7	7.85	7.85	7.9	32.07	32.07	32.1	60.8	61.6	61.2	4.52	4.58	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	12:30	Fine	Surface	1.0	20.20	20.20	20.2	7.85	7.85	7.9	32.68	32.68	32.7	63.7	63.1	63.4	4.73	4.71	4.72
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:31		Bottom	3.0	20.30	20.30	20.3	7.85	7.85	7.9	32.65	32.65	32.7	63.7	62.9	63.3	4.76	4.69	4.73
22/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:51		Middle	1.5	20.60	20.60	20.6	7.89	7.89	7.9	32.12	32.12	32.1	74.6	74.8	74.7	5.54	5.56	5.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:30		Middle	1.5	19.10	19.10	19.1	8.07	8.07	8.1	32.08	32.08	32.1	86.7	84.4	85.6	6.64	6.46	6.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:12		Middle	1.5	19.50	19.50	19.5	7.96	7.96	8.0	31.54	31.54	31.5	86.6	86.4	86.5	6.60	6.58	6.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:25		Middle	1.5	22.30	22.30	22.3	8.02	8.02	8.0	32.25	32.25	32.3	61.1	60.7	60.9	4.42	4.39	4.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:10		Middle	1.5	22.30	22.30	22.3	7.91	7.91	7.9	32.23	32.23	32.2	74.8	76.0	75.4	5.39	5.48	5.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:32		Middle	1.5	20.70	20.70	20.7	7.85	7.85	7.9	29.59	29.59	29.6	77.1	77.6	77.4	5.82	5.86	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:20		Middle	1.5	21.00	21.00	21.0	7.87	7.87	7.9	31.76	31.76	31.8	68.7	69.1	68.9	5.10	5.12	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:40		Middle	1.5	21.40	21.40	21.4	7.88	7.88	7.9	32.40	32.40	32.4	73.0	72.5	72.8	5.39	5.36	5.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	1.0	20.80	20.80	20.8	7.91	7.91	7.9	32.51	32.51	32.5	74.3	73.7	74.0	5.50	5.46	5.48
	17:00		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	3.0	20.50	20.50	20.5	7.92	7.92	7.9	32.27	32.27	32.3	77.5	77.7	77.6	5.78	5.80	5.79
12/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:30		Middle	1.5	20.70	20.70	20.7	7.87	7.87	7.9	32.58	32.58	32.6	61.4	60.9	61.2	4.55	4.51	4.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:21		Middle	1.5	21.50	21.50	21.5	7.81	7.81	7.8	32.14	32.14	32.1	67.8	67.7	67.8	4.95	4.94	4.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:01		Middle	1.5	20.40	20.40	20.4	7.78	7.78	7.8	32.15	32.15	32.2	58.2	58.8	58.5	4.35	4.40	4.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:35		Middle	1.5	19.80	19.80	19.8	7.82	7.82	7.8	32.52	32.52	32.5	50.2	54.6	52.4	3.78	4.11	3.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:00		Middle	1.5	20.80	20.80	20.8	7.81	7.81	7.8	31.40	31.40	31.4	59.9	59.9	59.9	4.48	4.45	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:40		Middle	1.5	19.10	19.10	19.1	7.96	7.96	8.0	32.01	32.01	32.0	73.0	73.0	73.0	5.60	5.59	5.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:02		Middle	1.5	19.50	19.50	19.5	7.95	7.95	8.0	32.12	32.12	32.1	89.5	89.9	89.7	6.80	6.82	6.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2012	15:36	Cloudy	Surface	1.0	22.50	22.50	22.5	8.10	8.10	8.1	30.35	30.35	30.4	60.3	60.1	60.2	4.39	4.38	4.39
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:38		Bottom	3.0	22.50	22.50	22.5	8.03	8.03	8.0	31.27	31.27	31.3	62.2	61.7	62.0	4.49	4.46	4.48
30/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:45		Middle	1.5	22.40	22.40	22.4	8.01	8.01	8.0	31.24	31.24	31.2	71.4	72.1	71.8	5.17	5.22	5.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:12		Middle	1.5	21.50	21.50	21.5	7.97	7.97	8.0	25.10	25.10	25.1	70.7	71.2	71.0	5.40	5.44	5.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:56		Middle	1.5	21.00	21.00	21.0	7.98	7.98	8.0	25.84	25.84	25.8	69.8	70.0	69.9	5.35	5.36	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	11:16	Fine	Surface	1.0	21.50	21.50	21.5	7.94	7.94	7.9	31.87	31.87	31.9	68.9	69.2	69.1	5.05	5.08	5.07
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:18		Bottom	3.0	21.50	21.50	21.5	7.94	7.94	7.9	31.89	31.89	31.9	69.5	69.3	69.4	5.10	5.08	5.09
10/12/2012	-	Fine	Surface	1.0	21.00	21.00	21.0	7.93	7.93	7.9	32.60	32.60	32.6	72.1	72.4	72.3	5.32	5.34	5.33
	16:30		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	3.0	21.00	21.00	21.0	7.93	7.93	7.9	32.67	32.67	32.7	74.9	75.0	75.0	5.52	5.53	5.53
12/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:44		Middle	1.5	21.00	21.00	21.0	7.89	7.89	7.9	32.16	32.16	32.2	58.5	58.3	58.4	4.32	4.30	4.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:00		Middle	1.5	21.20	21.20	21.2	7.85	7.85	7.9	32.39	32.39	32.4	87.1	86.0	86.6	6.59	6.56	6.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:15		Middle	1.5	20.70	20.70	20.7	7.88	7.88	7.9	32.32	32.32	32.3	59.6	58.0	58.8	4.42	4.30	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	12:20	Fine	Surface	1.0	20.30	20.30	20.3	7.90	7.90	7.9	32.63	32.63	32.6	65.0	64.2	64.6	4.87	4.81	4.84
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:22		Bottom	3.0	20.30	20.30	20.3	7.89	7.89	7.9	33.17	33.17	33.2	72.6	73.4	73.0	5.40	5.46	5.43
22/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:44		Middle	1.5	20.50	20.50	20.5	8.14	8.14	8.1	29.96	29.96	30.0	74.9	74.7	74.8	5.65	5.63	5.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:17		Middle	1.5	18.70	18.70	18.7	8.54	8.54	8.5	32.37	32.37	32.4	74.9	74.2	74.6	5.77	5.72	5.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:23		Middle	1.5	19.30	19.30	19.3	7.95	7.95	8.0	30.80	30.80	30.8	75.7	76.5	76.1	5.82	5.88	5.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2012	15:40	Cloudy	Surface	1.0	22.80	22.80	22.8	8.17	8.17	8.2	26.64	26.64	26.6	52.8	53.4	53.1	3.90	3.94	3.92
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:42		Bottom	3.0	22.70	22.70	22.7	8.07	8.07	8.1	28.76	28.76	28.8	56.3	56.1	56.2	4.11	4.16	4.14
30/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:51		Middle	1.5	22.30	22.30	22.3	7.95	7.95	8.0	31.17	31.17	31.2	74.1	75.8	75.0	5.37	5.50	5.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:20		Middle	1.5	21.50	21.50	21.5	7.91	7.91	7.9	24.16	24.19	24.2	65.2	65.1	65.2	5.00	4.99	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:54		Middle	1.5	20.60	20.60	20.6	8.18	8.18	8.2	15.91	15.91	15.9	74.2	74.0	74.1	6.08	6.07	6.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	11:10	Fine	Surface	1.0	21.40	21.40	21.4	7.96	7.96	8.0	32.20	32.20	32.2	75.5	75.3	75.4	5.54	5.52	5.53
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:12		Bottom	3.0	21.60	21.60	21.6	7.91	7.91	7.9	27.39	27.39	27.4	59.7	59.5	59.6	4.48	4.48	4.48
10/12/2012	-	Fine	Surface	1.0	20.90	20.90	20.9	7.89	7.89	7.9	30.46	30.46	30.5	68.7	68.9	68.8	5.14	5.16	5.15
	16:25		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	3.0	21.00	21.00	21.0	7.88	7.88	7.9	30.63	30.63	30.6	67.9	67.9	67.9	5.06	5.07	5.07
12/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:40		Middle	1.5	21.00	21.00	21.0	7.90	7.90	7.9	32.20	32.20	32.2	58.7	59.6	59.2	4.33	4.39	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8:56		Middle	1.5	21.30	21.30	21.3	7.86	7.86	7.9	21.53	21.53	21.5	74.3	73.4	73.9	5.76	5.71	5.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:20		Middle	1.5	20.80	20.80	20.8	7.85	7.85	7.9	31.33	31.33	31.3	57.4	55.7	56.6	4.28	4.16	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	12:24	Fine	Surface	1.0	20.50	20.50	20.5	7.86	7.86	7.9	30.78	30.78	30.8	60.8	64.5	62.7	4.55	4.82	4.69
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:26		Bottom	3.0	20.30	20.30	20.3	7.86	7.86	7.9	33.20	33.20	33.2	68.4	67.7	68.1	5.09	5.03	5.06
22/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:40		Middle	1.5	20.10	20.10	20.1	7.98	7.98	8.0	32.23	32.23	32.2	87.8	86.9	87.4	6.58	6.51	6.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:14		Middle	1.5	18.70	18.70	18.7	7.92	7.92	7.9	25.84	25.86	25.9	61.0	60.0	60.5	4.89	4.81	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:29		Middle	1.5	19.30	19.30	19.3	7.90	7.90	7.9	30.73	30.73	30.7	74.6	75.0	74.8	5.73	5.76	5.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:25		Middle	1.0	22.40	22.40	22.4	8.50	8.50	8.5	31.52	31.52	31.5	85.7	86.9	86.3	6.19	6.28	6.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:59		Middle	1.5	22.30	22.30	22.3	7.94	7.94	7.9	32.48	32.48	32.5	90.6	91.1	90.9	6.52	6.56	6.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:54		Middle	1.0	20.80	20.80	20.8	7.86	7.86	7.9	31.06	31.06	31.1	81.6	80.6	81.1	6.10	6.02	6.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:27		Middle	1.0	20.70	20.70	20.7	7.82	7.82	7.8	28.66	28.66	28.7	73.0	74.3	73.7	5.57	5.63	5.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:40		Middle	1.0	19.70	19.70	19.7	7.87	7.87	7.9	30.13	30.13	30.1	82.1	82.4	82.3	6.29	6.32	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:50		Middle	1.5	20.40	20.40	20.4	7.90	7.90	7.9	32.58	32.58	32.6	86.5	86.6	86.6	6.45	6.46	6.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:51		Middle	1.0	20.20	20.20	20.2	7.83	7.83	7.8	29.66	29.66	29.7	81.0	81.9	81.5	6.17	6.23	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:51		Middle	1.0	21.20	21.20	21.2	7.94	7.94	7.9	32.51	32.51	32.5	88.2	89.8	89.0	6.46	6.58	6.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:43		Middle	1.0	21.30	21.30	21.3	7.84	7.84	7.8	31.98	31.98	32.0	83.9	84.3	84.1	6.19	6.21	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:10		Middle	1.0	18.70	18.70	18.7	7.75	7.75	7.8	29.33	29.33	29.3	73.7	74.0	73.9	5.78	5.80	5.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:55		Middle	1.0	19.40	19.40	19.4	7.97	7.97	8.0	32.02	32.02	32.0	81.3	81.3	81.3	6.19	6.19	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:00		Middle	1.0	18.60	18.60	18.6	8.03	8.03	8.0	31.87	31.87	31.9	95.4	95.7	95.6	7.39	7.41	7.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:33		Middle	1.5	19.30	19.30	19.3	7.94	7.94	7.9	32.09	32.09	32.1	87.0	87.5	87.3	6.64	6.67	6.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:15		Middle	1.0	22.20	22.20	22.2	8.03	8.03	8.0	31.10	31.10	31.1	91.6	92.2	91.9	6.65	6.70	6.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:48		Middle	1.5	22.10	22.10	22.1	7.98	7.98	8.0	33.11	33.11	33.1	86.7	87.4	87.1	6.25	6.30	6.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:45		Middle	1.0	20.60	20.60	20.6	7.84	7.85	7.8	30.32	30.32	30.3	86.2	86.6	86.4	6.48	6.51	6.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:18		Middle	1.0	20.50	20.50	20.5	7.83	7.83	7.8	28.70	28.70	28.7	82.6	83.3	83.0	6.28	6.33	6.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:30		Middle	1.0	19.50	19.50	19.5	7.84	7.84	7.8	30.59	30.59	30.6	89.9	90.0	90.0	6.90	6.90	6.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:00		Middle	1.5	20.50	20.50	20.5	7.91	7.91	7.9	32.61	32.61	32.6	78.8	79.3	79.1	5.88	5.90	5.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:33		Middle	1.0	19.30	19.30	19.3	7.90	7.90	7.9	30.78	30.78	30.8	83.1	83.9	83.5	6.35	6.42	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:40		Middle	1.0	21.10	21.10	21.1	7.93	7.93	7.9	31.24	31.24	31.2	88.3	88.3	88.3	6.53	6.53	6.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:32		Middle	1.0	20.70	20.70	20.7	7.85	7.85	7.9	31.54	31.54	31.5	78.3	78.9	78.6	5.83	5.86	5.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:44		Middle	1.0	19.10	19.10	19.1	7.88	7.88	7.9	32.33	32.33	32.3	76.9	78.4	77.7	5.88	5.88	5.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:46		Middle	1.0	18.80	18.80	18.8	7.97	7.97	8.0	30.51	30.51	30.5	82.3	83.6	83.0	6.39	6.49	6.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:50		Middle	1.0	18.20	18.20	18.2	7.99	7.99	8.0	31.23	31.23	31.2	90.1	90.2	90.2	7.05	7.06	7.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:20		Middle	1.5	19.30	19.30	19.3	7.92	7.92	7.9	32.50	32.50	32.5	89.6	89.6	89.6	6.82	6.82	6.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

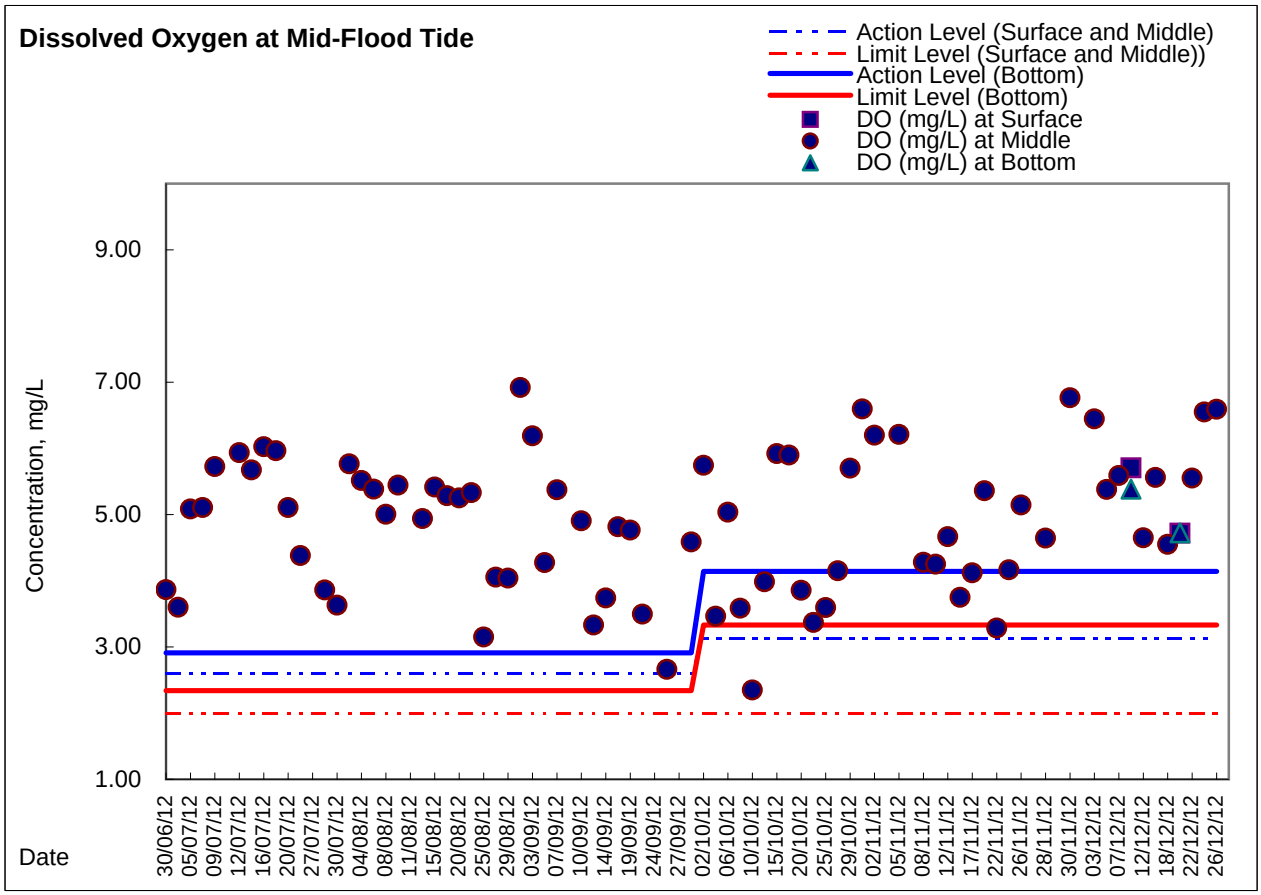
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area
Mid-Ebb Tide

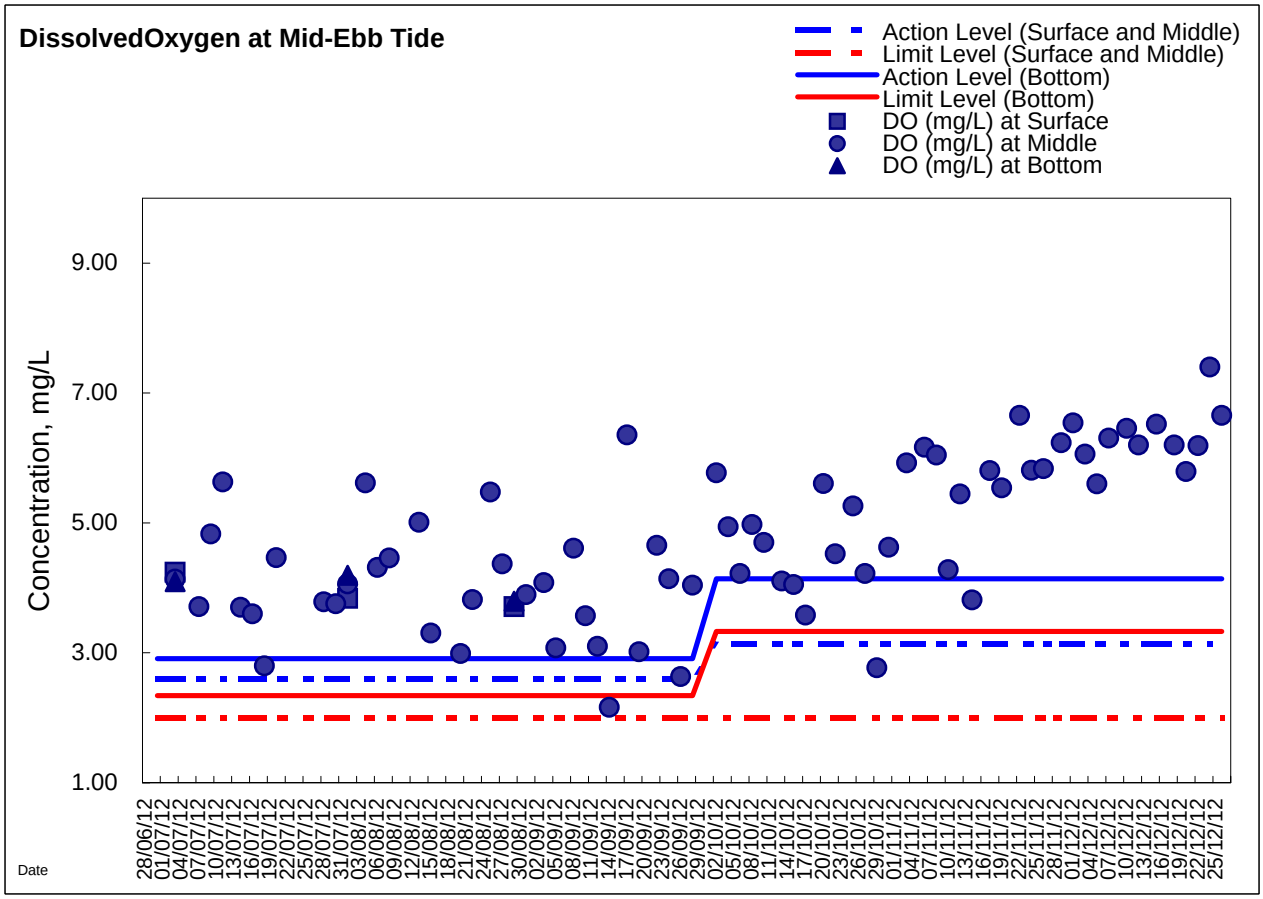
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:21		Middle	1.0	22.60	22.60	22.6	8.79	8.79	8.8	27.39	27.39	27.4	54.1	54.0	54.1	4.00	4.00	4.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:29		Middle	1.5	22.20	22.20	22.2	8.00	8.00	8.0	29.50	29.50	29.5	67.4	67.5	67.5	4.94	4.95	4.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:46		Middle	1.0	21.70	21.70	21.7	7.83	7.83	7.8	30.08	30.08	30.1	63.1	63.8	63.5	4.66	4.71	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:52		Middle	1.0	21.20	21.20	21.2	8.00	8.00	8.0	20.64	20.64	20.6	57.4	58.4	57.9	4.53	4.60	4.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:50		Middle	1.0	20.10	20.10	20.1	7.82	7.82	7.8	25.15	25.15	25.2	51.2	51.5	51.4	4.01	4.03	4.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:37		Middle	1.5	20.20	20.20	20.2	7.87	7.87	7.9	30.07	30.06	30.1	92.9	93.5	93.2	7.05	7.09	7.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:20		Middle	1.0	20.50	20.50	20.5	7.90	7.90	7.9	29.05	29.05	29.1	66.1	66.1	66.1	5.05	5.05	5.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:15		Middle	1.0	21.50	21.50	21.5	7.80	7.80	7.8	27.36	27.36	27.4	53.7	53.0	53.4	4.05	4.00	4.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:00		Middle	1.0	21.20	21.20	21.2	7.71	7.71	7.7	28.67	28.67	28.7	52.7	53.4	53.1	3.96	4.02	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:29		Middle	1.0	19.60	19.60	19.6	7.78	7.78	7.8	28.90	28.90	28.9	59.6	59.7	59.7	4.61	4.62	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:25		Middle	1.0	19.20	19.20	19.2	7.96	7.96	8.0	26.53	26.53	26.5	52.3	53.2	52.8	4.13	4.20	4.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:28		Middle	1.0	19.00	19.00	19.0	7.87	7.87	7.9	25.33	25.33	25.3	51.2	50.9	51.1	4.10	4.07	4.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:04		Middle	1.5	19.10	19.10	19.1	7.93	7.93	7.9	31.18	31.18	31.2	74.9	75.5	75.2	5.76	5.81	5.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

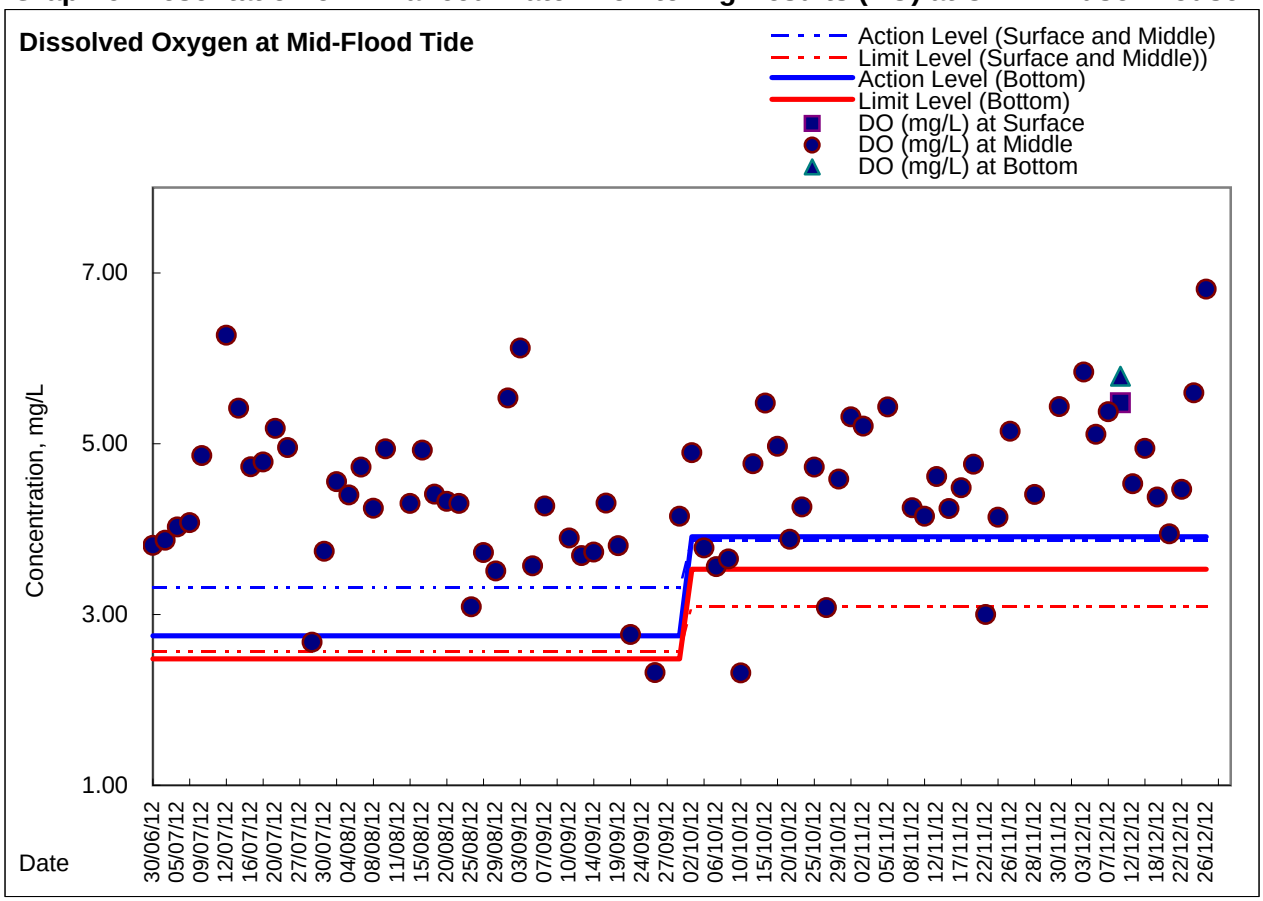
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29/11/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:27		Middle	1.0	22.60	22.60	22.6	8.79	8.79	8.8	27.34	27.34	27.3	55.7	56.4	56.1	4.11	4.16	4.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:35		Middle	1.5	22.30	22.30	22.3	7.95	7.95	8.0	29.45	29.45	29.5	71.5	71.7	71.6	5.24	5.26	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:53		Middle	1.0	21.80	21.80	21.8	7.76	7.76	7.8	30.05	30.05	30.1	64.5	64.8	64.7	4.75	4.78	4.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:58		Middle	1.0	21.40	21.40	21.4	8.01	8.00	8.0	20.13	20.13	20.1	55.6	55.8	55.7	4.37	4.39	4.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:55		Middle	1.0	20.40	20.40	20.4	7.82	7.82	7.8	24.91	24.91	24.9	54.9	55.2	55.1	4.29	4.31	4.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:35		Middle	1.5	20.40	20.40	20.4	7.82	7.82	7.8	28.79	28.79	28.8	72.6	72.3	72.5	5.54	5.51	5.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:25		Middle	1.0	20.30	20.30	20.3	7.80	7.80	7.8	28.90	28.90	28.9	59.8	61.9	60.9	4.56	4.72	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:21		Middle	1.0	21.50	21.50	21.5	7.65	7.65	7.7	27.19	27.19	27.2	54.5	54.8	54.7	4.09	4.11	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:06		Middle	1.0	21.20	21.20	21.2	7.63	7.63	7.6	28.50	28.50	28.5	57.3	57.9	57.6	4.31	4.35	4.33
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:35		Middle	1.0	19.80	19.80	19.8	7.74	7.74	7.7	28.81	28.81	28.8	58.8	59.6	59.2	4.54	4.60	4.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:30		Middle	1.0	19.10	19.10	19.1	7.91	7.91	7.9	26.33	26.33	26.3	56.5	57.2	56.9	4.49	4.54	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:33		Middle	1.0	19.00	19.00	19.0	7.79	7.79	7.8	25.10	25.10	25.1	51.8	51.8	51.8	4.14	4.15	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2012	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:08		Middle	1.5	19.10	19.10	19.1	7.89	7.89	7.9	30.84	30.84	30.8	74.5	75.2	74.9	5.72	5.78	5.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

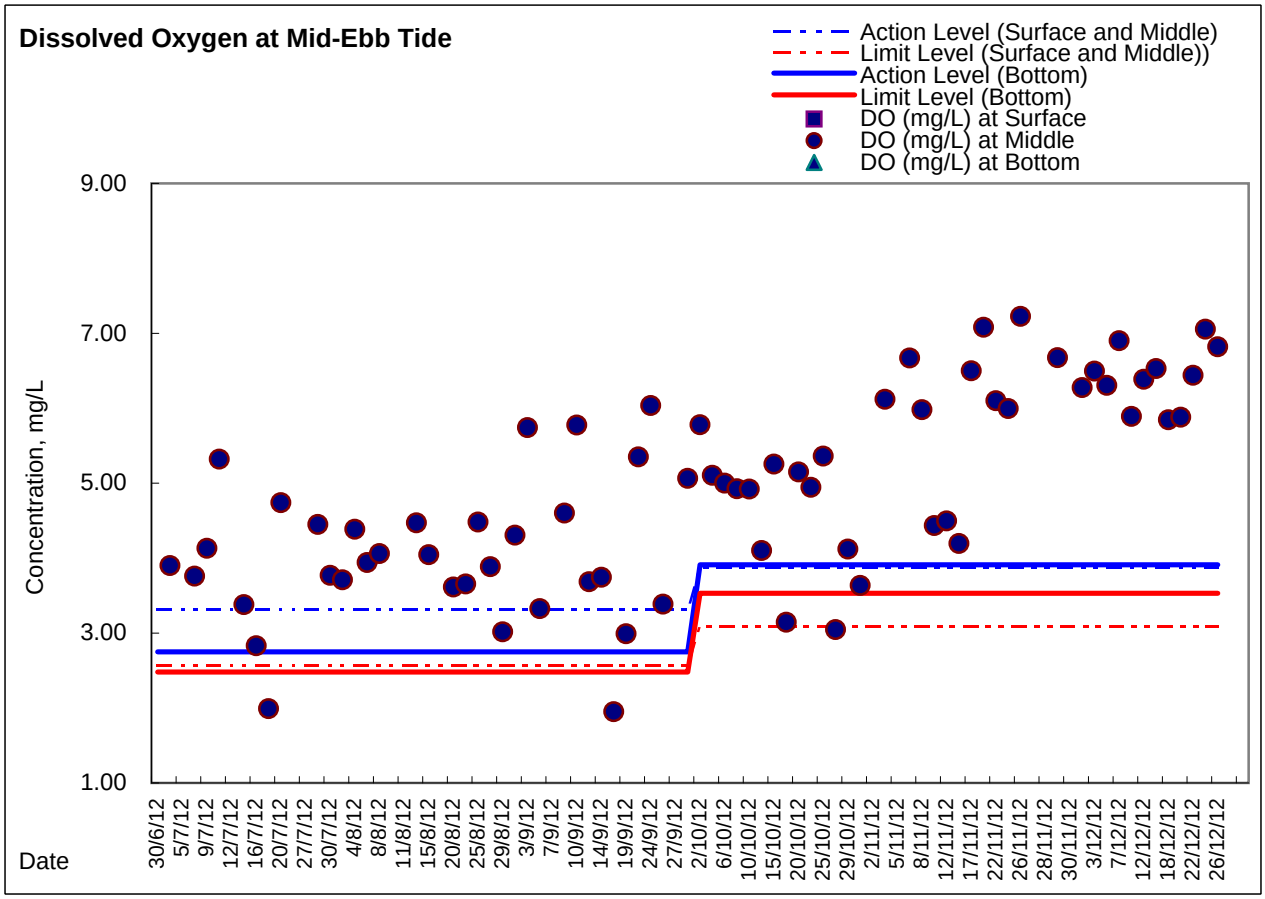
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



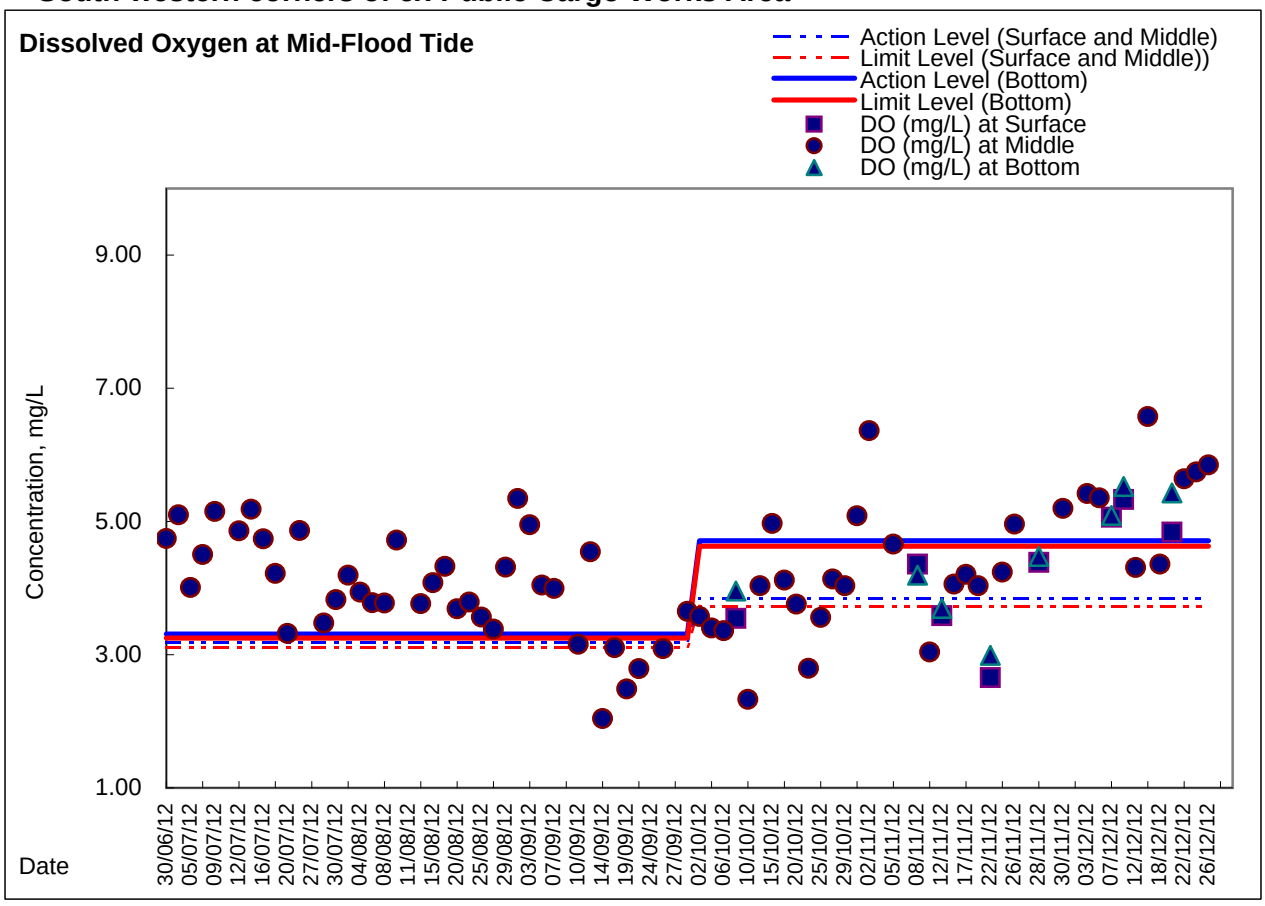


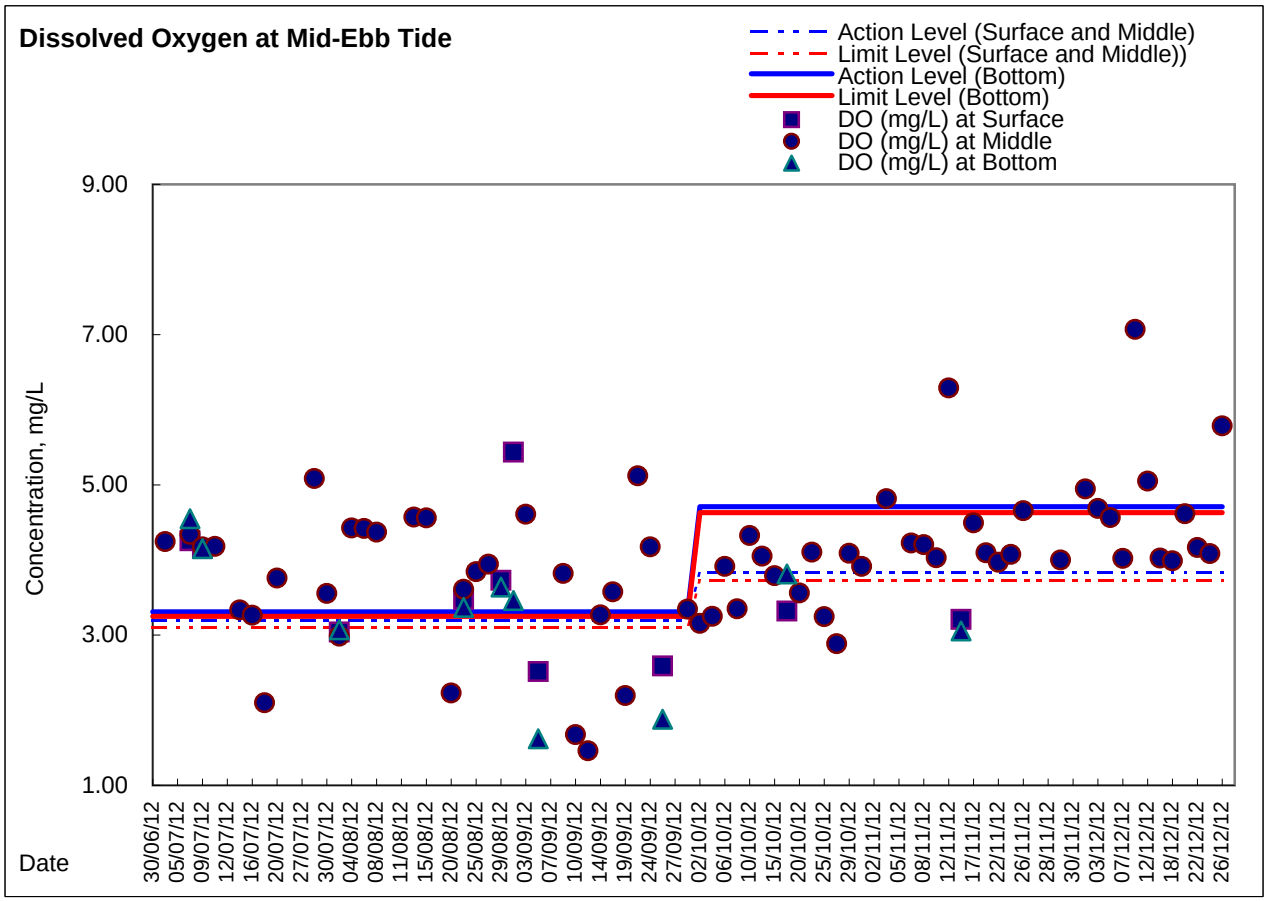
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



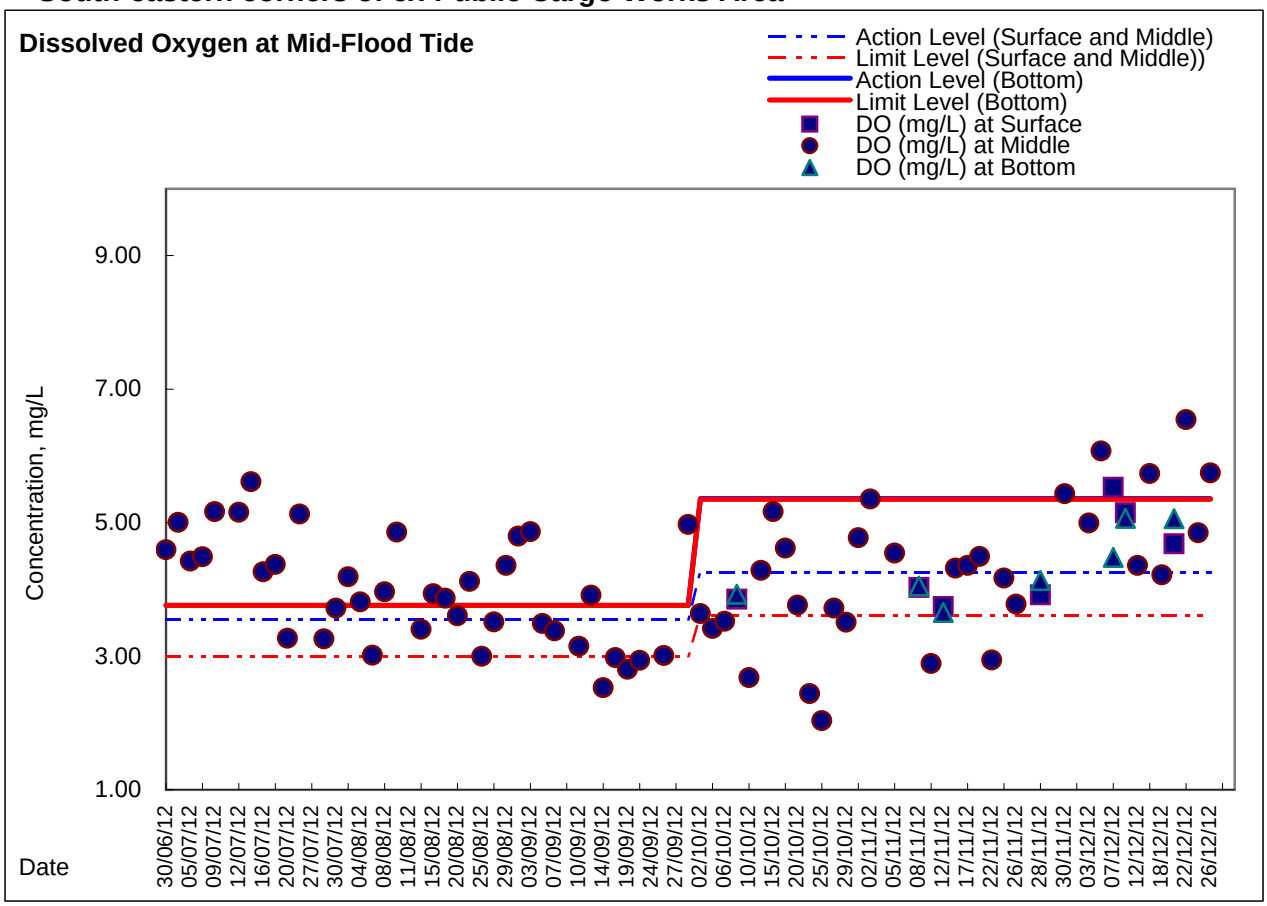


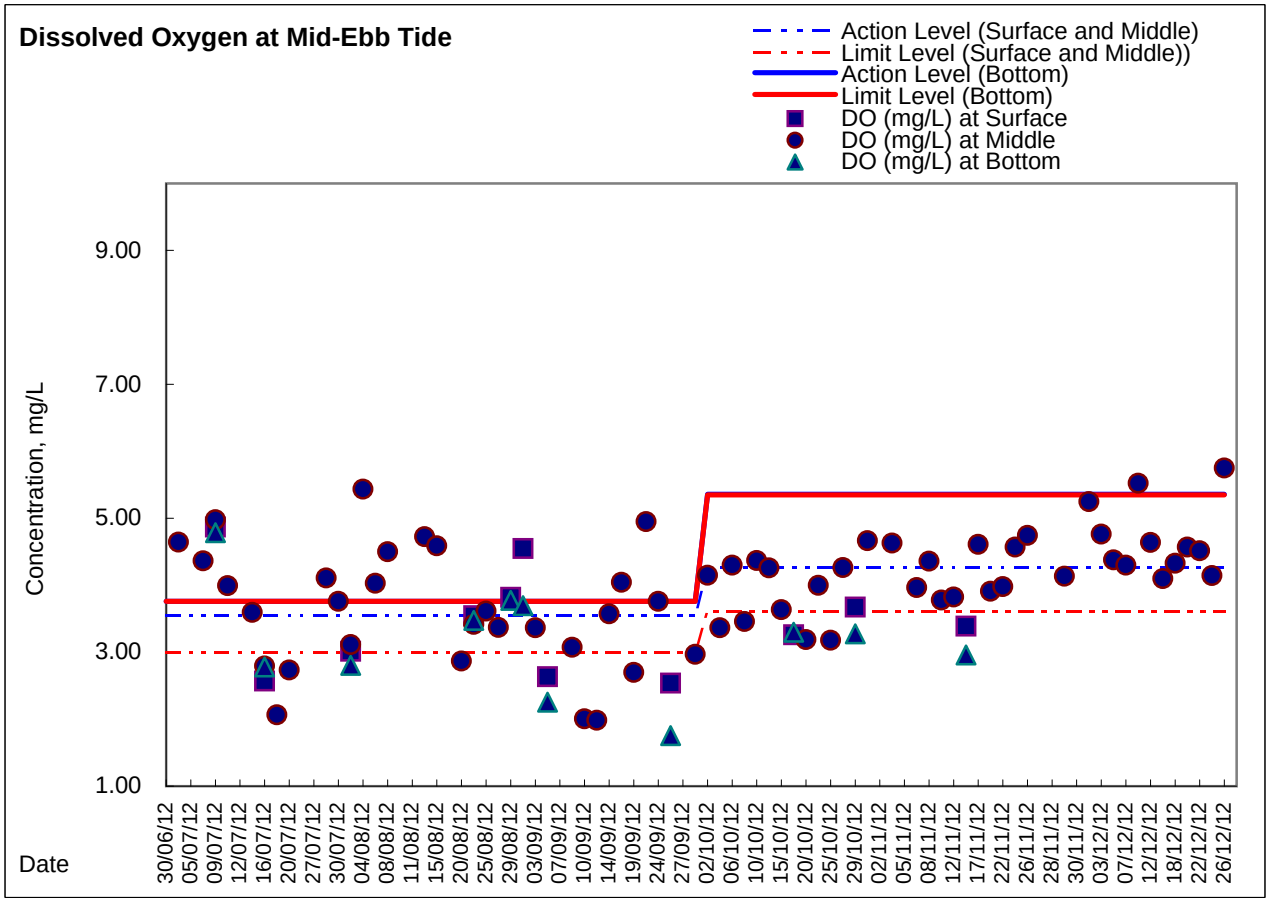
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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





Appendix 5.4a

Additional Dissolved Oxygen Monitoring Results

Water Monitoring Result at Station A
Mid-Flood Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28-Nov-12	16:00	Cloudy	Surface	1.0	22.50	22.50	22.50	8.01	8.01	8.01	32.36	32.36	32.36	69.3	70.0	69.7	4.99	5.93	5.46
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:01		Bottom	5.0	22.60	22.60	22.60	7.94	7.94	7.94	30.86	30.86	30.86	62.5	62.8	62.7	4.52	4.54	4.53
5-Dec-12	12:43	Cloudy	Surface	1.0	21.80	21.80	21.80	7.86	7.86	7.86	32.67	32.67	32.67	62.3	61.8	62.1	4.52	4.48	4.50
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:45		Bottom	3.0	21.90	21.90	21.90	7.85	7.85	7.85	32.84	32.84	32.84	62.7	61.3	62.0	4.59	4.44	4.52
12-Dec-12	14:45	Fine	Surface	1.0	20.90	20.90	20.90	7.92	7.92	7.92	33.15	33.15	33.15	79.6	79.8	79.7	5.85	5.87	5.86
	14:47		Middle	7.0	20.90	20.90	20.90	7.95	7.95	7.95	33.20	33.20	33.20	80.4	80.0	80.2	5.91	5.88	5.90
	14:50		Bottom	13.0	20.90	20.90	20.90	7.93	7.93	7.93	33.21	33.21	33.21	79.6	79.3	79.5	5.85	5.84	5.85
20-Dec-12	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:12		Middle	1.5	20.20	20.20	20.20	7.88	7.88	7.88	32.62	32.62	32.62	72.1	73.7	72.9	5.42	5.49	5.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Water Monitoring Result at Station B
Mid-Flood Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28-Nov-12	15:56	Cloudy	Surface	1.0	22.50	22.50	22.50	8.07	8.07	8.07	33.00	33.00	33.00	77.1	77.2	77.2	5.53	5.54	5.54
	15:57		Middle	5.5	22.50	22.50	22.50	7.98	7.98	7.98	32.98	32.98	32.98	76.3	76.4	76.4	5.46	5.48	5.47
	15:58		Bottom	10.0	22.50	22.50	22.50	8.01	8.01	8.01	32.97	32.97	32.97	75.6	76.5	76.1	5.41	5.48	5.45
5-Dec-12	12:36	Cloudy	Surface	1.0	21.90	21.90	21.90	7.88	7.88	7.88	32.80	32.80	32.80	66.4	66.6	66.5	4.80	4.84	4.82
	12:37		Middle	5.5	21.90	21.90	21.90	7.90	7.90	7.90	32.96	32.96	32.96	65.0	65.2	65.1	4.71	4.72	4.72
	12:38		Bottom	10.0	21.90	21.90	21.90	7.89	7.89	7.89	33.00	33.00	33.00	63.0	63.1	63.1	4.56	4.56	4.56
12-Dec-12	14:52	Fine	Surface	1.0	20.90	20.90	20.90	8.07	8.07	8.07	33.17	33.17	33.17	81.1	80.5	80.8	5.96	5.92	5.94
	14:54		Middle	5.0	20.90	20.90	20.90	7.99	7.99	7.99	33.18	33.18	33.18	78.5	78.5	78.5	5.75	5.76	5.76
	14:56		Bottom	9.0	20.90	20.90	20.90	7.95	7.95	7.95	33.18	33.18	33.18	78.3	78.7	78.5	5.76	5.79	5.78
20-Dec-12	12:07	Fine	Surface	1.0	20.10	20.10	20.10	7.92	7.92	7.92	33.07	33.07	33.07	76.6	76.6	76.6	5.71	5.71	5.71
	12:08		Middle	5.0	20.20	20.20	20.20	7.92	7.92	7.92	33.18	33.18	33.18	78.3	79.0	78.7	5.85	5.85	5.85
	12:09		Bottom	9.0	20.20	20.20	20.20	7.91	7.91	7.91	33.21	33.21	33.21	77.8	76.5	77.2	5.80	5.73	5.77

Water Monitoring Result at Station C
Mid-Flood Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28-Nov-12	15:50	Cloudy	Surface	1.0	22.30	22.30	22.30	8.11	8.11	8.11	32.95	32.95	32.95	75.6	75.8	75.7	5.44	5.45	5.45
	15:51		Middle	7.0	22.50	22.50	22.50	7.97	7.97	7.97	32.96	32.96	32.96	75.6	75.4	75.5	5.42	5.40	5.41
	15:52		Bottom	13.0	22.40	22.40	22.40	8.01	8.01	8.01	32.87	32.87	32.87	74.7	73.4	74.1	5.35	5.26	5.31
5-Dec-12	12:27	Cloudy	Surface	1.0	21.90	21.90	21.90	7.90	7.90	7.90	32.80	32.80	32.80	68.0	68.4	68.2	4.93	4.95	4.94
	12:29		Middle	7.0	21.90	21.90	21.90	7.93	7.93	7.93	32.99	32.99	32.99	67.2	67.3	67.3	4.86	4.87	4.87
	12:30		Bottom	13.0	22.00	22.00	22.00	7.94	7.94	7.94	32.98	32.98	32.98	67.2	67.4	67.3	4.86	4.88	4.87
12-Dec-12	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	21.00	21.00	21.00	7.89	7.89	7.89	32.50	32.50	32.50	66.2	67.1	66.7	4.86	4.95	4.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
20-Dec-12	12:00	Fine	Surface	1.0	20.30	20.30	20.30	7.95	7.95	7.95	33.20	33.20	33.20	81.4	81.6	81.5	6.06	6.07	6.07
	12:02		Middle	7.0	20.10	20.10	20.10	7.97	7.97	7.97	33.27	33.27	33.27	82.1	82.3	82.2	6.12	6.14	6.13
	12:04		Bottom	13.0	20.10	20.10	20.10	8.00	8.00	8.00	33.33	33.33	33.33	83.8	83.6	83.7	6.25	6.23	6.24

Water Monitoring Result at Station A
Mid-Ebb Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29-Nov-12	10:25	Cloudy	Surface	1.0	22.70	22.70	22.70	7.97	7.97	7.97	32.98	32.98	32.98	66.1	65.8	66.0	4.72	4.69	4.71
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:26		Bottom	5.0	22.60	22.60	22.60	7.92	7.92	7.92	33.03	33.03	33.03	67.3	67.0	67.2	4.81	4.79	4.80
5-Dec-12	3:05	Cloudy	Surface	1.0	21.80	21.80	21.80	7.98	7.98	7.98	32.87	32.87	32.87	60.6	60.1	60.4	4.38	4.34	4.36
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:07		Bottom	5.0	21.80	21.80	21.80	7.95	7.95	7.95	33.05	33.05	33.05	63.2	63.0	63.1	4.56	4.55	4.56
12-Dec-12	0:18	Fine	Surface	1.0	20.80	20.80	20.80	7.91	7.91	7.91	33.29	33.29	33.29	73.3	73.0	73.2	5.40	5.38	5.39
	0:19		Middle	3.5	20.80	20.80	20.80	7.92	7.92	7.92	33.30	33.30	33.30	67.6	67.3	67.5	4.98	4.96	4.97
	0:20		Bottom	6.0	20.80	20.80	20.80	7.93	7.93	7.93	33.31	33.31	33.31	68.2	68.0	68.1	5.02	5.01	5.02
20-Dec-12	4:13	Cloudy	Surface	1.0	20.50	20.40	20.45	7.84	7.84	7.84	33.08	33.09	33.09	69.7	69.5	69.6	5.18	5.17	5.18
	4:14		Middle	3.5	20.40	2.40	11.40	7.88	7.88	7.88	33.20	33.22	33.21	72.2	71.6	71.9	5.37	5.34	5.36
	4:15		Bottom	6.0	20.30	20.30	20.30	7.90	7.90	7.90	33.24	33.23	33.24	68.1	67.9	68.0	5.06	5.05	5.06

Water Monitoring Result at Station B
Mid-Ebb Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29-Nov-12	10:19	Cloudy	Surface	1.0	22.70	22.70	22.70	7.91	7.91	7.91	32.90	32.90	32.90	69.0	68.8	68.9	4.92	4.90	4.91
	10:21		Middle	4.5	22.60	22.60	22.60	7.93	7.93	7.93	33.05	33.05	33.05	71.0	69.9	70.5	5.07	5.06	5.07
	10:22		Bottom	8.0	22.60	22.60	22.60	7.90	7.90	7.90	33.07	33.07	33.07	71.8	71.5	71.7	5.12	5.09	5.11
5-Dec-12	2:59	Cloudy	Surface	1.0	21.90	21.90	21.90	7.93	7.93	7.93	33.00	32.99	33.00	64.0	63.7	63.9	4.62	4.60	4.61
	3:00		Middle	4.5	21.90	21.90	21.90	7.89	7.89	7.89	33.07	33.06	33.07	65.3	65.1	65.2	4.72	4.71	4.72
	3:02		Bottom	8.0	21.90	21.90	21.90	8.04	8.04	8.04	33.08	33.08	33.08	69.7	69.5	69.6	5.04	5.03	5.04
12-Dec-12	0:13	Fine	Surface	1.0	20.70	20.70	20.70	7.90	7.90	7.90	33.30	33.30	33.30	80.3	80.0	80.2	5.91	5.89	5.90
	0:14		Middle	4.5	20.70	20.70	20.70	7.96	7.96	7.96	33.34	33.34	33.34	80.6	80.4	80.5	5.95	5.94	5.95
	0:15		Bottom	8.0	20.60	20.60	20.60	7.94	7.94	7.94	33.34	33.34	33.34	80.6	80.5	80.6	5.93	5.93	5.93
20-Dec-12	4:20	Cloudy	Surface	1.0	20.30	20.30	20.30	7.91	7.90	7.91	33.16	33.12	33.14	74.7	74.4	74.6	5.55	5.52	5.54
	4:21		Middle	5.0	20.30	20.30	20.30	7.87	7.89	7.88	33.28	33.26	33.27	77.6	78.1	77.9	5.77	5.82	5.80
	4:22		Bottom	9.0	20.20	20.20	20.20	7.99	7.99	7.99	33.17	33.15	33.16	64.4	64.0	64.2	4.78	4.76	4.77

Water Monitoring Result at Station C
Mid-Ebb Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth m		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
29-Nov-12	10:07	Cloudy	Surface	1.0	22.60	22.60	22.60	7.95	7.95	7.95	33.04	33.02	33.03	72.5	72.3	72.4	5.18	5.17	5.18
	10:08		Middle	7.0	22.60	22.60	22.60	7.94	7.94	7.94	33.05	33.05	33.05	73.0	73.7	73.4	5.21	5.19	5.20
	10:10		Bottom	13.0	22.50	22.50	22.50	7.95	7.95	7.95	33.07	33.07	33.07	73.2	73.1	73.2	5.23	5.23	5.23
5-Dec-12	2:54	Cloudy	Surface	1.0	21.90	21.90	21.90	7.93	7.93	7.93	33.01	33.01	33.01	70.3	69.8	70.1	5.09	5.04	5.07
	2:56		Middle	6.5	21.90	21.90	21.90	7.88	7.88	7.88	33.02	33.02	33.02	69.7	69.3	69.5	5.03	5.00	5.02
	2:58		Bottom	12.0	21.80	21.80	21.80	8.06	8.06	8.06	33.04	33.04	33.04	69.9	69.8	69.9	5.04	5.04	5.04
12-Dec-12	0:01	Fine	Surface	1.0	20.70	20.70	20.70	7.94	7.94	7.94	33.22	33.22	33.22	80.7	80.5	80.6	5.95	5.94	5.95
	0:03		Middle	6.5	20.80	20.80	20.80	7.95	7.95	7.95	33.27	33.27	33.27	79.0	78.8	78.9	5.78	5.77	5.78
	0:04		Bottom	12.0	20.80	20.80	20.80	7.91	7.91	7.91	33.30	33.30	33.30	80.7	80.3	80.5	5.94	5.91	5.93
20-Dec-12	4:29	Cloudy	Surface	1.0	20.30	20.30	20.30	8.29	8.16	8.23	33.20	33.18	33.19	79.7	79.3	79.5	5.93	5.90	5.92
	4:30		Middle	8.0	20.20	20.20	20.20	8.04	8.03	8.04	33.36	33.33	33.35	82.5	82.3	82.4	6.14	6.13	6.14
	4:31		Bottom	15.0	20.20	20.20	20.20	8.00	7.99	8.00	33.39	33.41	33.40	82.1	82.2	82.2	6.11	6.12	6.12

Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

Normal Day 07:00-19:00

		3/12/2012 12:31	67.0	8/12/2012 7:01	63.6	13/12/2012 13:31	63.8	19/12/2012 8:01	55.4	24/12/2012 14:31	49.2
		3/12/2012 13:01	63.6	8/12/2012 7:31	65.5	13/12/2012 14:01	64.9	19/12/2012 8:31	56.6	24/12/2012 15:01	58.0
28/11/2012 7:01	65.8	3/12/2012 13:31	61.3	8/12/2012 8:01	66.7	13/12/2012 14:31	62.6	19/12/2012 9:01	61.0	24/12/2012 15:31	66.7
28/11/2012 7:31	65.8	3/12/2012 14:01	56.6	8/12/2012 8:31	55.7	13/12/2012 15:01	62.5	19/12/2012 9:31	64.4	24/12/2012 16:01	50.7
28/11/2012 8:01	67.0	3/12/2012 14:31	55.5	8/12/2012 9:01	61.1	13/12/2012 15:31	53.8	19/12/2012 10:01	61.8	24/12/2012 16:31	58.2
28/11/2012 8:31	67.0	3/12/2012 15:01	61.5	8/12/2012 9:31	59.4	13/12/2012 16:01	60.4	19/12/2012 10:31	61.9	24/12/2012 17:01	67.1
28/11/2012 9:01	53.2	3/12/2012 15:31	56.7	8/12/2012 10:01	64.8	13/12/2012 16:31	60.0	19/12/2012 11:01	61.4	24/12/2012 17:31	67.0
28/11/2012 9:31	52.7	3/12/2012 16:01	63.3	8/12/2012 10:31	63.3	13/12/2012 17:01	57.7	19/12/2012 11:31	56.7	24/12/2012 18:01	66.0
28/11/2012 10:01	60.2	3/12/2012 16:31	67.9	8/12/2012 11:01	61.0	13/12/2012 17:31	65.4	19/12/2012 12:01	65.7	24/12/2012 18:31	66.1
28/11/2012 10:31	66.7	3/12/2012 17:01	63.9	8/12/2012 11:31	57.7	13/12/2012 18:01	64.9	19/12/2012 12:31	65.3	27/12/2012 7:01	63.7
28/11/2012 11:01	71.9	3/12/2012 17:31	67.0	8/12/2012 12:01	65.5	13/12/2012 18:31	64.9	19/12/2012 13:01	61.1	27/12/2012 7:31	65.0
28/11/2012 11:31	66.1	3/12/2012 18:01	66.7	8/12/2012 12:31	65.9	14/12/2012 7:01	64.6	19/12/2012 13:31	61.8	27/12/2012 8:01	66.6
28/11/2012 12:01	66.9	3/12/2012 18:31	66.0	8/12/2012 13:01	67.1	14/12/2012 7:31	65.9	19/12/2012 14:01	62.0	27/12/2012 8:31	67.0
28/11/2012 12:31	66.6	4/12/2012 7:01	64.5	8/12/2012 13:31	66.6	14/12/2012 8:01	56.5	19/12/2012 14:31	55.7	27/12/2012 9:01	56.4
28/11/2012 13:01	64.4	4/12/2012 7:31	65.2	8/12/2012 14:01	47.3	14/12/2012 8:31	61.5	19/12/2012 15:01	67.0	27/12/2012 9:31	57.3
28/11/2012 13:31	64.8	4/12/2012 8:01	52.8	8/12/2012 14:31	59.4	14/12/2012 9:01	60.5	19/12/2012 15:31	66.7	27/12/2012 10:01	67.1
28/11/2012 14:01	66.4	4/12/2012 8:31	41.2	8/12/2012 15:01	52.2	14/12/2012 9:31	60.8	19/12/2012 16:01	59.3	27/12/2012 10:31	67.2
28/11/2012 14:31	59.7	4/12/2012 9:01	57.3	8/12/2012 15:31	66.7	14/12/2012 10:01	67.2	19/12/2012 16:31	57.9	27/12/2012 11:01	60.3
28/11/2012 15:01	59.3	4/12/2012 9:31	62.7	8/12/2012 16:01	58.7	14/12/2012 10:31	62.4	19/12/2012 17:01	51.9	27/12/2012 11:31	66.8
28/11/2012 15:31	58.7	4/12/2012 10:01	66.1	8/12/2012 16:31	57.8	14/12/2012 11:01	62.6	19/12/2012 17:31	65.7	27/12/2012 12:01	65.2
28/11/2012 16:01	59.7	4/12/2012 10:31	68.3	8/12/2012 17:01	67.0	14/12/2012 11:31	51.6	19/12/2012 18:01	65.0	27/12/2012 12:31	65.4
28/11/2012 16:31	63.1	4/12/2012 11:01	67.5	8/12/2012 17:31	65.4	14/12/2012 12:01	65.1	19/12/2012 18:31	64.6	27/12/2012 13:01	64.2
28/11/2012 17:01	62.0	4/12/2012 11:31	62.4	8/12/2012 18:01	65.0	14/12/2012 12:31	65.0	20/12/2012 7:01	64.8	27/12/2012 13:31	60.0
28/11/2012 17:31	40.8	4/12/2012 12:01	66.5	8/12/2012 18:31	65.2	14/12/2012 13:01	67.1	20/12/2012 7:31	66.3	27/12/2012 14:01	61.2
28/11/2012 18:01	51.8	4/12/2012 12:31	66.4	10/12/2012 7:01	64.7	14/12/2012 13:31	52.2	20/12/2012 8:01	50.8	27/12/2012 14:31	66.7
28/11/2012 18:31	41.0	4/12/2012 13:01	69.6	10/12/2012 7:31	65.5	14/12/2012 14:01	56.4	20/12/2012 8:31	57.4	27/12/2012 15:01	66.5
29/11/2012 7:01	65.5	4/12/2012 13:31	72.6	10/12/2012 8:01	66.9	14/12/2012 14:31	57.2	20/12/2012 9:01	62.2	27/12/2012 15:31	56.0
29/11/2012 7:31	66.3	4/12/2012 14:01	67.1	10/12/2012 8:31	61.2	14/12/2012 15:01	60.8	20/12/2012 9:31	61.1	27/12/2012 16:01	63.0
29/11/2012 8:01	56.6	4/12/2012 14:31	49.3	10/12/2012 9:01	57.9	14/12/2012 15:31	60.4	20/12/2012 10:01	62.6	27/12/2012 16:31	60.3
29/11/2012 8:31	60.3	4/12/2012 15:01	67.1	10/12/2012 9:31	63.6	14/12/2012 16:01	60.3	20/12/2012 10:31	62.4	27/12/2012 17:01	56.7
29/11/2012 9:01	63.0	4/12/2012 15:31	66.4	10/12/2012 10:01	61.1	14/12/2012 16:31	62.6	20/12/2012 11:01	62.5	27/12/2012 17:31	66.0
29/11/2012 9:31	60.6	4/12/2012 16:01	56.3	10/12/2012 10:31	63.8	14/12/2012 17:01	61.5	20/12/2012 11:31	66.3	27/12/2012 18:01	65.4
29/11/2012 10:01	61.4	4/12/2012 16:31	66.8	10/12/2012 11:01	63.0	14/12/2012 17:31	65.6	20/12/2012 12:01	65.4	27/12/2012 18:31	65.2
29/11/2012 10:31	61.6	4/12/2012 17:01	66.7	10/12/2012 11:31	48.0	14/12/2012 18:01	65.0	20/12/2012 12:31	65.5		
29/11/2012 11:01	63.3	4/12/2012 17:31	66.3	10/12/2012 12:01	66.3	14/12/2012 18:31	65.0	20/12/2012 13:01	33.7	Normal Day 19:00-23:00,	
29/11/2012 11:31	60.7	4/12/2012 18:01	65.7	10/12/2012 12:31	66.1	15/12/2012 7:01	63.8	20/12/2012 13:31	60.1	Sunday & Holiday	
29/11/2012 12:01	67.0	4/12/2012 18:31	65.2	10/12/2012 13:01	59.9	15/12/2012 7:31	64.9	20/12/2012 14:01	53.3	07:00-23:00	
29/11/2012 12:31	66.9	5/12/2012 7:01	65.4	10/12/2012 13:31	56.3	15/12/2012 8:01	67.0	20/12/2012 14:31	67.1		
29/11/2012 13:01	61.0	5/12/2012 7:31	65.9	10/12/2012 14:01	58.1	15/12/2012 8:31	63.4	20/12/2012 15:01	67.1	28/11/2012 19:01	65.1
29/11/2012 13:31	61.0	5/12/2012 8:01	67.2	10/12/2012 14:31	60.2	15/12/2012 9:01	64.9	20/12/2012 15:31	66.9	28/11/2012 19:06	65.0
29/11/2012 14:01	58.5	5/12/2012 8:31	59.9	10/12/2012 15:01	60.5	15/12/2012 9:31	65.4	20/12/2012 16:01	58.5	28/11/2012 19:11	65.2
29/11/2012 14:31	61.7	5/12/2012 9:01	63.9	10/12/2012 15:31	59.2	15/12/2012 10:01	65.7	20/12/2012 16:31	56.5	28/11/2012 19:16	65.8
29/11/2012 15:01	60.3	5/12/2012 9:31	55.7	10/12/2012 16:01	62.5	15/12/2012 10:31	66.5	20/12/2012 17:01	66.9	28/11/2012 19:21	65.4
29/11/2012 15:31	58.4	5/12/2012 10:01	62.6	10/12/2012 16:31	58.8	15/12/2012 11:01	68.2	20/12/2012 17:31	64.7	28/11/2012 19:26	65.9
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1/12/2012 8:31	52.3	6/12/2012 15:01	63.1	12/12/2012 9:31	66.9	17/12/2012 16:01	59.5	22/12/2012 10:31	61.7	28/11/2012 22:16	64.5
1/12/2012 9:01	58.7	6/12/2012 15:31	52.7	12/12/2012 10:01	41.3	17/12/2012 16:31	67.0	22/12/2012 11:01	53.4	28/11/2012 22:21	63.9
1/12/2012 9:31	52.9	6/12/2012 16:01	58.8	12/12/2012 10:31	66.6	17/12/2012 17:01	53.3	22/12/2012 11:31	66.5	28/11/2012 22:26	64.4
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1/12/2012 12:31	66.0	7/12/2012 7:01	64.4	12/12/2012 13:31	66.6	18/12/2012 8:01	66.6	22/12/2012 14:31	57.8	28/11/2012 22:56	63.3
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1/12/2012 14:01	72.5	7/12/2012 8:31	66.7	12/12/2012 15:01	66.9	18/12/2012 9:31	56.4	22/12/2012 16:01	67.1	29/11/2012 19:11	64.3
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1/12/2012 15:31	66.2	7/12/2012 10:01	47.6	12/12/2012 16:31	67.2	18/12/2012 11:01	60.2	22/12/2012 17:31	66.1	29/11/2012 19:26	64.6
1/12/2012 16:01	44.6	7/12/2012 10:31	56.4	12/12/2012 17:01	66.9	18/12/2012 11:31	66.6	22/12/2012 18:01	64.7	29/11/2012 19:31	64.6
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1/12/2012 17:01	67.1	7/12/2012 11:31	66.8	12/12/2012 18:01	65.4	18/12/2012 12:31	65.8	24/12/2012 7:01	64.2	29/11/2012 19:41	66.0
1/12/2012 17:31	65.6	7/12/2012 12:01	65.0	12/12/2012 18:31	65.6	18/12/2012 13:01	66.9	24/12/2012 7:31	65.4	29/11/2012 19:46	65.4
1/12/2012 18:01	65.2	7/12/2012 12:31	65.5	13/12/2012 7:01	64.2	18/12/2012 13:31	60.8	24/12/2012 8:01	52.5	29/11/2012 19:51	65.4
1/12/2012 18:31	65.6	7/12/2012 13:01	66.1	13/12/2012 7:31	66.0	18/12/2012 14:01	59.0	24/12/2012 8:31	60.8	29/11/2012 19:56	66.0
3/12/2012 7:01	65.5	7/12/2012 13:31	67.2	13/12/2012 8:01	66.8	18/12/2012 14:31	28.5	24/12/2012 9:01	62.7	29/11/2012 20:01	64.7
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3/12/2012 9:01	64.3	7/12/2012 15:31	67.3	13/12/2012 10:01	66.5	18/12/2012 16:31	60.8	24/12/2012 11:01	66.9	29/11/2012 20:21	64.3
3/12/2012 9:31	63.4	7/12/2012 16:01	66.9	13/12/2012 10:31	62.2	18/12/2012 17:01	54.4	24/12/2012 11:31	65.9	29/11/2012 20:26	64.9
3/12/2012 10:01	65.6	7/12/2012 16:31	50.5	13/12/2012 11:01	62.7	18/12/2012 17:31	66.2	24/12/2012 12:01	65.2	29/11/2012 20:31	64.5
3/12/2012 10:31	69.5	7/12/2012 17:01	58.6	13/12/2012 11:31	57.6	18/12/2012 18:01	65.4	24/12/2012 12:31	65.7	29/11/2012 20:36	65.4
3/12/2012 11:01	67.9	7/12/2012 17:31	65.4	13/12/2012 12:01	65.4	18/12/2012 18:31	65.3	24/12/2012 13:01	40.3	29/11/2012 20:41	64.8
3/12/2012 11:31	57.1	7/12/2012 18:01	64.4	13/12/2012 12:31	65.1	19/12/2012 7:01	64.8	24/12/2012 13:31	57.9	29/11/2012 20:46	64.6
3/12/2012 12:01	66.5	7/12/2012 18:31	64.9	13/12/2012 13:01	61.2	19/12/2012 7:31	66.1	24/12/2012 14:01	57.5	29/11/2012 20:51	64.0

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

29/11/2012 20:56	64.9	1/12/2012 22:01	62.0	2/12/2012 15:06	63.1	3/12/2012 21:11	63.4	5/12/2012 22:16	63.1	8/12/2012 19:21	62.6
29/11/2012 21:01	64.2	1/12/2012 22:06	61.8	2/12/2012 15:11	63.7	3/12/2012 21:16	63.4	5/12/2012 22:21	63.4	8/12/2012 19:26	62.6
29/11/2012 21:06	64.2	1/12/2012 22:11	62.0	2/12/2012 15:16	64.3	3/12/2012 21:21	63.4	5/12/2012 22:26	63.0	8/12/2012 19:31	62.6
29/11/2012 21:11	64.1	1/12/2012 22:16	62.4	2/12/2012 15:21	64.5	3/12/2012 21:26	63.2	5/12/2012 22:31	63.6	8/12/2012 19:36	63.0
29/11/2012 21:16	64.2	1/12/2012 22:21	61.0	2/12/2012 15:26	64.3	3/12/2012 21:31	63.9	5/12/2012 22:36	63.3	8/12/2012 19:41	62.5
29/11/2012 21:21	64.2	1/12/2012 22:26	62.6	2/12/2012 15:31	64.3	3/12/2012 21:36	63.6	5/12/2012 22:41	64.2	8/12/2012 19:46	63.0
29/11/2012 21:26	64.8	1/12/2012 22:31	61.9	2/12/2012 15:36	63.3	3/12/2012 21:41	62.9	5/12/2012 22:46	64.0	8/12/2012 19:51	62.5
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29/11/2012 21:36	64.1	1/12/2012 22:41	61.8	2/12/2012 15:46	64.1	3/12/2012 21:51	63.2	5/12/2012 22:56	64.5	8/12/2012 20:01	62.4
29/11/2012 21:41	64.5	1/12/2012 22:46	61.3	2/12/2012 15:51	64.9	3/12/2012 21:56	62.6	6/12/2012 19:01	63.6	8/12/2012 20:06	62.9
29/11/2012 21:46	64.6	1/12/2012 22:51	62.4	2/12/2012 15:56	62.6	3/12/2012 22:01	62.1	6/12/2012 19:06	63.1	8/12/2012 20:11	62.6
29/11/2012 21:51	64.0	1/12/2012 22:56	61.5	2/12/2012 16:01	66.8	3/12/2012 22:06	62.8	6/12/2012 19:11	63.6	8/12/2012 20:16	62.3
29/11/2012 21:56	65.7	2/12/2012 7:01	58.8	2/12/2012 16:06	64.3	3/12/2012 22:11	61.9	6/12/2012 19:16	63.3	8/12/2012 20:21	64.0
29/11/2012 22:01	64.2	2/12/2012 7:06	59.9	2/12/2012 16:11	63.7	3/12/2012 22:16	62.5	6/12/2012 19:21	67.1	8/12/2012 20:26	62.6
29/11/2012 22:06	64.2	2/12/2012 7:11	62.6	2/12/2012 16:16	64.2	3/12/2012 22:21	63.0	6/12/2012 19:26	63.3	8/12/2012 20:31	63.1
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29/11/2012 22:31	64.1	2/12/2012 7:36	60.9	2/12/2012 16:41	63.7	3/12/2012 22:46	61.7	6/12/2012 19:51	61.6	8/12/2012 20:56	60.8
29/11/2012 22:36	64.6	2/12/2012 7:41	61.9	2/12/2012 16:46	63.9	3/12/2012 22:51	62.7	6/12/2012 19:56	62.7	8/12/2012 21:01	60.9
29/11/2012 22:41	64.5	2/12/2012 7:46	61.2	2/12/2012 16:51	64.2	3/12/2012 22:56	61.3	6/12/2012 20:01	62.4	8/12/2012 21:06	60.8
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1/12/2012 21:56	62.3	2/12/2012 15:01	64.7	3/12/2012 21:06	62.6	5/12/2012 22:11	61.4	8/12/2012 19:16	61.7	9/12/2012 12:21	55.6

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

9/12/2012 12:26 57.4	9/12/2012 21:31 61.7	11/12/2012 22:36 61.9	14/12/2012 19:41 57.8	16/12/2012 8:46 60.1	16/12/2012 17:51 61.4
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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2/12/2012 2:01	59.0	3/12/2012 3:06	63.7	4/12/2012 4:11	51.3	5/12/2012 5:16	55.5	6/12/2012 6:21	58.8	7/12/2012 23:26	62.7
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2/12/2012 3:01	59.7	3/12/2012 4:06	52.2	4/12/2012 5:11	50.4	5/12/2012 6:16	60.8	6/12/2012 23:21	63.7	8/12/2012 0:26	62.6
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2/12/2012 6:26	60.5	3/12/2012 23:31	62.6	5/12/2012 0:36	62.4	6/12/2012 1:41	58.1	7/12/2012 2:46	53.5	8/12/2012 3:51	56.6
2/12/2012 6:31	60.5	3/12/2012 23:36	62.8	5/12/2012 0:41	62.6	6/12/2012 1:46	57.0	7/12/2012 2:51	56.9	8/12/2012 3:56	53.8
2/12/2012 6:36	60.6	3/12/2012 23:41	61.8	5/12/2012 0:46	62.1	6/12/2012 1:51	58.3	7/12/2012 2:56	55.5	8/12/2012 4:01	55.0
2/12/2012 6:41	61.9	3/12/2012 23:46	62.7	5/12/2012 0:51	61.8	6/12/2012 1:56	58.6	7/12/2012 3:01	55.5	8/12/2012 4:06	57.0
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2/12/2012 23:01	63.1	4/12/2012 0:06	62.9	5/12/2012 1:11	61.5	6/12/2012 2:16	57.3	7/12/2012 3:21	58.9	8/12/2012 4:26	54.1
2/12/2012 23:06	63.4	4/12/2012 0:11	62.3	5/12/2012 1:16	60.8	6/12/2012 2:21	58.4	7/12/2012 3:26	50.4	8/12/2012 4:31	56.2
2/12/2012 23:11	64.1	4/12/2012 0:16	62.1	5/12/2012 1:21	60.6	6/12/2012 2:26	57.6	7/12/2012 3:31	51.8	8/12/2012 4:36	54.2
2/12/2012 23:16	63.5	4/12/2012 0:21	61.7	5/12/2012 1:26	60.7	6/12/2012 2:31	56.3	7/12/2012 3:36	45.8	8/12/2012 4:41	57.0
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2/12/2012 23:41	62.9	4/12/2012 0:46	60.4	5/12/2012 1:51	60.2	6/12/2012 2:56	56.3	7/12/2012 4:01	58.9	8/12/2012 5:06	56.6
2/12/2012 23:46	62.5	4/12/2012 0:51	61.2	5/12/2012 1:56	59.5	6/12/2012 3:01	53.8	7/12/2012 4:06	49.8	8/12/2012 5:11	56.2
2/12/2012 23:51	62.8	4/12/2012 0:56	59.3	5/12/2012 2:01	57.3	6/12/2012 3:06	52.3	7/12/2012 4:11	45.6	8/12/2012 5:16	57.2
2/12/2012 23:56	63.5	4/12/2012 1:01	59.3	5/12/2012 2:06	59.7	6/12/2012 3:11	52.6	7/12/2012 4:16	48.9	8/12/2012 5:21	56.0
3/12/2012 0:01	62.8	4/12/2012 1:06	60.1	5/12/2012 2:11	58.9	6/12/2012 3:16	53.2	7/12/2012 4:21	42.1	8/12/2012 5:26	55.8
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3/12/2012 0:11	61.5	4/12/2012 1:16	58.1	5/12/2012 2:21	59.1	6/12/2012 3:26	48.4	7/12/2012 4:31	58.7	8/12/2012 5:36	57.0
3/12/2012 0:16	60.8	4/12/2012 1:21	58.8	5/12/2012 2:26	56.7	6/12/2012 3:31	54.2	7/12/2012 4:36	49.3	8/12/2012 5:41	56.7
3/12/2012 0:21	61.6	4/12/2012 1:26	59.8	5/12/2012 2:31	57.8	6/12/2012 3:36	56.5	7/12/2012 4:41	50.8	8/12/2012 5:46	56.4
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3/12/2012 0:46	58.3	4/12/2012 1:51	57.9	5/12/2012 2:56	53.6	6/12/2012 4:01	41.6	7/12/2012 5:06	51.3	8/12/2012 6:11	58.3
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3/12/2012 0:56	58.6	4/12/2012 2:01	59.4	5/12/2012 3:06	56.7	6/12/2012 4:11	45.6	7/12/2012 5:16	53.5	8/12/2012 6:21	58.8
3/12/2012 1:01	58.0	4/12/2012 2:06	57.3	5/12/2012 3:11	56.5	6/12/2012 4:16	48.5	7/12/2012 5:21	56.5	8/12/2012 6:26	58.3
3/12/2012 1:06	57.5	4/12/2012 2:11	56.9	5/12/2012 3:16	54.4	6/12/2012 4:21	52.5	7/12/2012 5:26	56.4	8/12/2012 6:31	58.5
3/12/2012 1:11	59.1	4/12/2012 2:16	56.6	5/12/2012 3:21	54.4	6/12/2012 4:26	51.8	7/12/2012 5:31	54.5	8/12/2012 6:36	58.9
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3/12/2012 1:46	53.0	4/12/2012 2:51	54.0	5/12/2012 3:56	53.1	6/12/2012 5:01	41.6	7/12/2012 6:06	57.4	8/12/2012 23:11	65.6

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

8/12/2012 23:16	63.5	10/12/2012 0:21	60.3	11/12/2012 1:26	57.1	12/12/2012 2:31	52.4	13/12/2012 3:36	47.0	14/12/2012 4:41	58.3
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9/12/2012 23:56	61.3	11/12/2012 1:01	58.9	12/12/2012 2:06	56.3	13/12/2012 3:11	58.9	14/12/2012 4:16	58.0	15/12/2012 5:21	54.9
10/12/2012 0:01	61.7	11/12/2012 1:06	57.8	12/12/2012 2:11	53.5	13/12/2012 3:16	58.3	14/12/2012 4:21	40.3	15/12/2012 5:26	55.7
10/12/2012 0:06	61.8	11/12/2012 1:11	57.8	12/12/2012 2:16	54.2	13/12/2012 3:21	58.8	14/12/2012 4:26	58.0	15/12/2012 5:31	54.7
10/12/2012 0:11	61.3	11/12/2012 1:16	56.7	12/12/2012 2:21	57.6	13/12/2012 3:26	49.4	14/12/2012 4:31	58.4	15/12/2012 5:36	57.4
10/12/2012 0:16	61.3	11/12/2012 1:21	57.9	12/12/2012 2:26	56.8	13/12/2012 3:31	37.3	14/12/2012 4:36	58.7	15/12/2012 5:41	57.1

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

15/12/2012 5:46	55.6	16/12/2012 6:51	60.9	17/12/2012 23:56	61.6	19/12/2012 1:01	58.9	20/12/2012 2:06	57.6	21/12/2012 3:11	51.9
15/12/2012 5:51	58.5	16/12/2012 6:56	60.5	18/12/2012 0:01	61.8	19/12/2012 1:06	59.0	20/12/2012 2:11	58.2	21/12/2012 3:16	54.8
15/12/2012 5:56	55.9	16/12/2012 23:01	61.3	18/12/2012 0:06	62.3	19/12/2012 1:11	59.0	20/12/2012 2:16	58.1	21/12/2012 3:21	53.7
15/12/2012 6:01	55.9	16/12/2012 23:06	63.0	18/12/2012 0:11	60.7	19/12/2012 1:16	60.9	20/12/2012 2:21	57.3	21/12/2012 3:26	52.5
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15/12/2012 6:16	57.4	16/12/2012 23:21	61.9	18/12/2012 0:26	60.0	19/12/2012 1:31	57.4	20/12/2012 2:36	56.3	21/12/2012 3:41	51.9
15/12/2012 6:21	59.4	16/12/2012 23:26	61.7	18/12/2012 0:31	61.2	19/12/2012 1:36	57.8	20/12/2012 2:41	55.9	21/12/2012 3:46	54.7
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15/12/2012 6:31	58.1	16/12/2012 23:36	61.9	18/12/2012 0:41	59.6	19/12/2012 1:46	57.4	20/12/2012 2:51	56.9	21/12/2012 3:56	52.4
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16/12/2012 5:36	49.8	17/12/2012 6:41	60.6	18/12/2012 23:46	63.5	20/12/2012 0:51	62.0	21/12/2012 1:56	58.4	22/12/2012 3:01	56.8
16/12/2012 5:41	57.2	17/12/2012 6:46	60.7	18/12/2012 23:51	63.7	20/12/2012 0:56	61.5	21/12/2012 2:01	62.9	22/12/2012 3:06	55.5
16/12/2012 5:46	56.7	17/12/2012 6:51	61.5	18/12/2012 23:56	62.7	20/12/2012 1:01	61.0	21/12/2012 2:06	58.8	22/12/2012 3:11	55.4
16/12/2012 5:51	55.2	17/12/2012 6:56	61.9	19/12/2012 0:01	63.1	20/12/2012 1:06	62.3	21/12/2012 2:11	57.5	22/12/2012 3:16	55.9
16/12/2012 5:56	56.1	17/12/2012 23:01	63.1	19/12/2012 0:06	63.0	20/12/2012 1:11	60.7	21/12/2012 2:16	56.4	22/12/2012 3:21	57.0
16/12/2012 6:01	55.5	17/12/2012 23:06	62.9	19/12/2012 0:11	61.9	20/12/2012 1:16	59.6	21/12/2012 2:21	57.5	22/12/2012 3:26	57.1
16/12/2012 6:06	57.6	17/12/2012 23:11	62.3	19/12/2012 0:16	62.4	20/12/2012 1:21	61.3	21/12/2012 2:26	58.0	22/12/2012 3:31	53.5
16/12/2012 6:11	57.0	17/12/2012 23:16	63.4	19/12/2012 0:21	62.3	20/12/2012 1:26	60.0	21/12/2012 2:31	55.7	22/12/2012 3:36	55.0
16/12/2012 6:16	56.5	17/12/2012 23:21	62.2	19/12/2012 0:26	62.9	20/12/2012 1:31	60.2	21/12/2012 2:36	57.2	22/12/2012 3:41	55.3
16/12/2012 6:21	59.9	17/12/2012 23:26	62.1	19/12/2012 0:31	62.2	20/12/2012 1:36	59.0	21/12/2012 2:41	58.1	22/12/2012 3:46	53.8
16/12/2012 6:26	58.7	17/12/2012 23:31	62.1	19/12/2012 0:36	60.2	20/12/2012 1:41	58.4	21/12/2012 2:46	58.0	22/12/2012 3:51	56.5
16/12/2012 6:31	56.2	17/12/2012 23:36	61.9	19/12/2012 0:41	61.0	20/12/2012 1:46	58.6	21/12/2012 2:51	53.8	22/12/2012 3:56	56.0
16/12/2012 6:36	57.9	17/12/2012 23:41	62.1	19/12/2012 0:46	60.3	20/12/2012 1:51	58.9	21/12/2012 2:56	53.1	22/12/2012 4:01	56.2
16/12/2012 6:41	59.1	17/12/2012 23:46	62.5	19/12/2012 0:51	61.2	20/12/2012 1:56	59.2	21/12/2012 3:01	56.4	22/12/2012 4:06	54.9
16/12/2012 6:46	60.5	17/12/2012 23:51	61.2	19/12/2012 0:56	60.3	20/12/2012 2:01	55.5	21/12/2012 3:06	57.0	22/12/2012 4:11	51.2

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

22/12/2012 4:16 56.1	23/12/2012 5:21 57.3	24/12/2012 6:26 58.5	25/12/2012 23:31 61.4	27/12/2012 0:36 59.1
22/12/2012 4:21 53.7	23/12/2012 5:26 57.8	24/12/2012 6:31 58.7	25/12/2012 23:36 61.7	27/12/2012 0:41 60.8
22/12/2012 4:26 53.2	23/12/2012 5:31 56.3	24/12/2012 6:36 59.3	25/12/2012 23:41 61.6	27/12/2012 0:46 58.8
22/12/2012 4:31 56.7	23/12/2012 5:36 55.4	24/12/2012 6:41 60.0	25/12/2012 23:46 61.8	27/12/2012 0:51 60.2
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22/12/2012 4:41 54.8	23/12/2012 5:46 55.9	24/12/2012 6:51 61.7	25/12/2012 23:56 61.6	27/12/2012 1:01 59.6
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22/12/2012 5:01 53.0	23/12/2012 6:06 57.7	24/12/2012 23:11 62.3	26/12/2012 0:16 61.7	27/12/2012 1:21 56.1
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22/12/2012 5:31 55.0	23/12/2012 6:36 58.8	24/12/2012 23:41 62.8	26/12/2012 0:46 59.9	27/12/2012 1:51 55.3
22/12/2012 5:36 56.2	23/12/2012 6:41 58.8	24/12/2012 23:46 62.3	26/12/2012 0:51 60.0	27/12/2012 1:56 54.1
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22/12/2012 5:46 56.6	23/12/2012 6:51 63.0	24/12/2012 23:56 62.4	26/12/2012 1:01 59.2	27/12/2012 2:06 53.1
22/12/2012 5:51 57.6	23/12/2012 6:56 58.8	25/12/2012 0:01 61.7	26/12/2012 1:06 59.6	27/12/2012 2:11 62.3
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22/12/2012 6:11 58.4	23/12/2012 23:16 63.1	25/12/2012 0:21 61.8	26/12/2012 1:26 58.5	27/12/2012 2:31 48.9
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22/12/2012 6:26 59.2	23/12/2012 23:31 63.1	25/12/2012 0:36 61.1	26/12/2012 1:41 58.0	27/12/2012 2:46 52.2
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22/12/2012 6:36 60.0	23/12/2012 23:41 62.8	25/12/2012 0:46 61.6	26/12/2012 1:51 57.7	27/12/2012 2:56 58.9
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22/12/2012 6:56 60.7	24/12/2012 0:01 61.9	25/12/2012 1:06 61.6	26/12/2012 2:11 55.7	27/12/2012 3:16 58.6
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22/12/2012 23:06 62.9	24/12/2012 0:11 61.7	25/12/2012 1:16 60.0	26/12/2012 2:21 57.0	27/12/2012 3:26 58.6
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22/12/2012 23:16 63.5	24/12/2012 0:21 61.0	25/12/2012 1:26 60.2	26/12/2012 2:31 57.3	27/12/2012 3:36 47.3
22/12/2012 23:21 63.7	24/12/2012 0:26 62.2	25/12/2012 1:31 61.2	26/12/2012 2:36 56.4	27/12/2012 3:41 58.7
22/12/2012 23:26 63.5	24/12/2012 0:31 60.9	25/12/2012 1:36 61.8	26/12/2012 2:41 57.1	27/12/2012 3:46 51.3
22/12/2012 23:31 62.9	24/12/2012 0:36 60.4	25/12/2012 1:41 61.7	26/12/2012 2:46 56.8	27/12/2012 3:51 46.4
22/12/2012 23:36 62.9	24/12/2012 0:41 60.3	25/12/2012 1:46 60.8	26/12/2012 2:51 58.6	27/12/2012 3:56 42.6
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23/12/2012 0:01 62.8	24/12/2012 1:06 58.4	25/12/2012 2:11 59.1	26/12/2012 3:16 55.6	27/12/2012 4:21 47.9
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23/12/2012 0:26 62.2	24/12/2012 1:31 58.9	25/12/2012 2:36 60.0	26/12/2012 3:41 56.2	27/12/2012 4:46 58.5
23/12/2012 0:31 62.2	24/12/2012 1:36 57.2	25/12/2012 2:41 57.9	26/12/2012 3:46 52.5	27/12/2012 4:51 58.5
23/12/2012 0:36 61.5	24/12/2012 1:41 56.7	25/12/2012 2:46 58.1	26/12/2012 3:51 54.8	27/12/2012 4:56 58.3
23/12/2012 0:41 61.5	24/12/2012 1:46 55.2	25/12/2012 2:51 57.8	26/12/2012 3:56 35.5	27/12/2012 5:01 40.3
23/12/2012 0:46 61.8	24/12/2012 1:51 60.5	25/12/2012 2:56 58.3	26/12/2012 4:01 54.2	27/12/2012 5:06 58.7
23/12/2012 0:51 62.3	24/12/2012 1:56 58.7	25/12/2012 3:01 58.2	26/12/2012 4:06 53.7	27/12/2012 5:11 40.3
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23/12/2012 1:01 62.0	24/12/2012 2:06 55.0	25/12/2012 3:11 58.1	26/12/2012 4:16 51.3	27/12/2012 5:21 58.8
23/12/2012 1:06 60.8	24/12/2012 2:11 55.2	25/12/2012 3:16 58.1	26/12/2012 4:21 56.2	27/12/2012 5:26 51.1
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23/12/2012 1:26 61.5	24/12/2012 2:31 54.6	25/12/2012 3:36 60.4	26/12/2012 4:41 53.2	27/12/2012 5:46 56.2
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23/12/2012 1:51 65.5	24/12/2012 2:56 52.6	25/12/2012 4:01 55.8	26/12/2012 5:06 54.7	27/12/2012 6:11 57.0
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23/12/2012 2:16 58.7	24/12/2012 3:21 58.1	25/12/2012 4:26 55.5	26/12/2012 5:31 51.5	27/12/2012 6:36 58.7
23/12/2012 2:21 59.5	24/12/2012 3:26 49.9	25/12/2012 4:31 55.9	26/12/2012 5:36 53.3	27/12/2012 6:41 59.7
23/12/2012 2:26 59.7	24/12/2012 3:31 44.9	25/12/2012 4:36 57.2	26/12/2012 5:41 54.0	27/12/2012 6:46 61.4
23/12/2012 2:31 58.2	24/12/2012 3:36 58.5	25/12/2012 4:41 55.8	26/12/2012 5:46 56.5	27/12/2012 6:51 62.5
23/12/2012 2:36 60.3	24/12/2012 3:41 48.1	25/12/2012 4:46 56.0	26/12/2012 5:51 53.5	27/12/2012 6:56 62.3
23/12/2012 2:41 58.6	24/12/2012 3:46 49.9	25/12/2012 4:51 56.1	26/12/2012 5:56 53.8	27/12/2012 23:01 61.7
23/12/2012 2:46 59.2	24/12/2012 3:51 58.5	25/12/2012 4:56 53.5	26/12/2012 6:01 50.9	27/12/2012 23:06 62.2
23/12/2012 2:51 60.1	24/12/2012 3:56 45.4	25/12/2012 5:01 56.6	26/12/2012 6:06 55.5	27/12/2012 23:11 62.5
23/12/2012 2:56 60.9	24/12/2012 4:01 57.9	25/12/2012 5:06 57.3	26/12/2012 6:11 56.7	27/12/2012 23:16 62.4
23/12/2012 3:01 57.9	24/12/2012 4:06 58.6	25/12/2012 5:11 58.2	26/12/2012 6:16 53.4	27/12/2012 23:21 62.4
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23/12/2012 4:01 56.9	24/12/2012 5:06 51.8	25/12/2012 6:11 57.1	26/12/2012 23:16 62.2	
23/12/2012 4:06 58.5	24/12/2012 5:11 53.2	25/12/2012 6:16 58.4	26/12/2012 23:21 62.0	
23/12/2012 4:11 57.0	24/12/2012 5:16 51.9	25/12/2012 6:21 58.8	26/12/2012 23:26 62.0	
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23/12/2012 4:21 57.8	24/12/2012 5:26 55.4	25/12/2012 6:31 58.1	26/12/2012 23:36 62.1	
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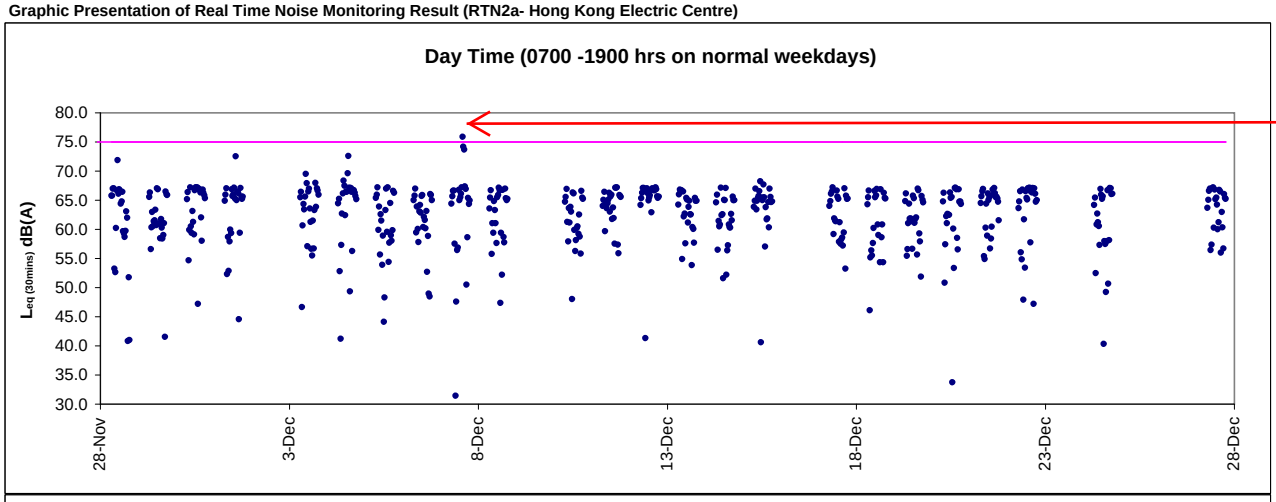
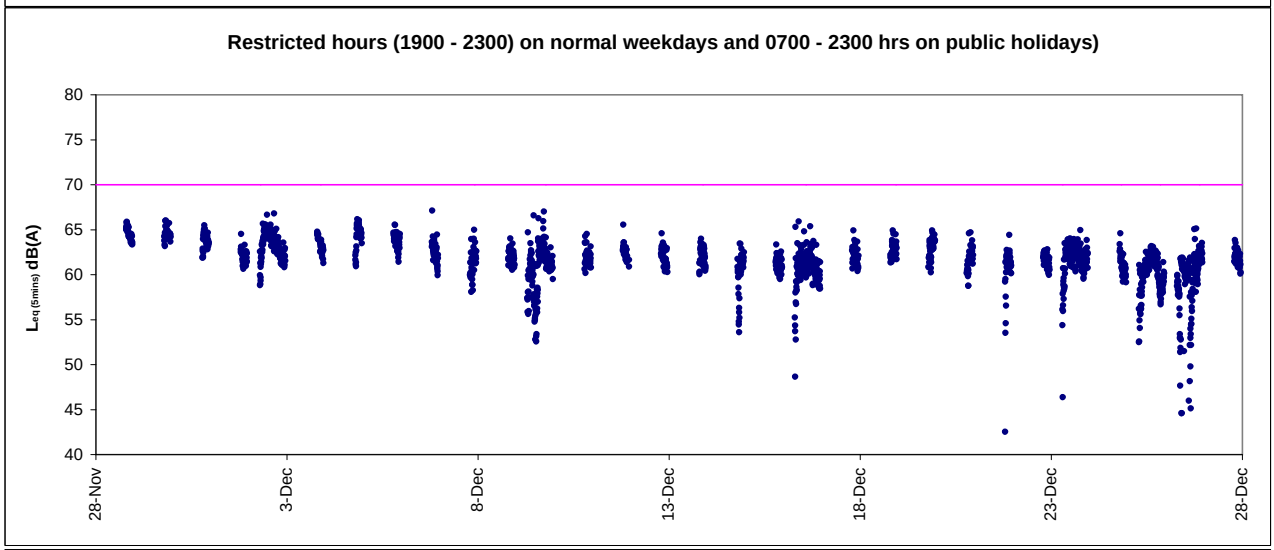
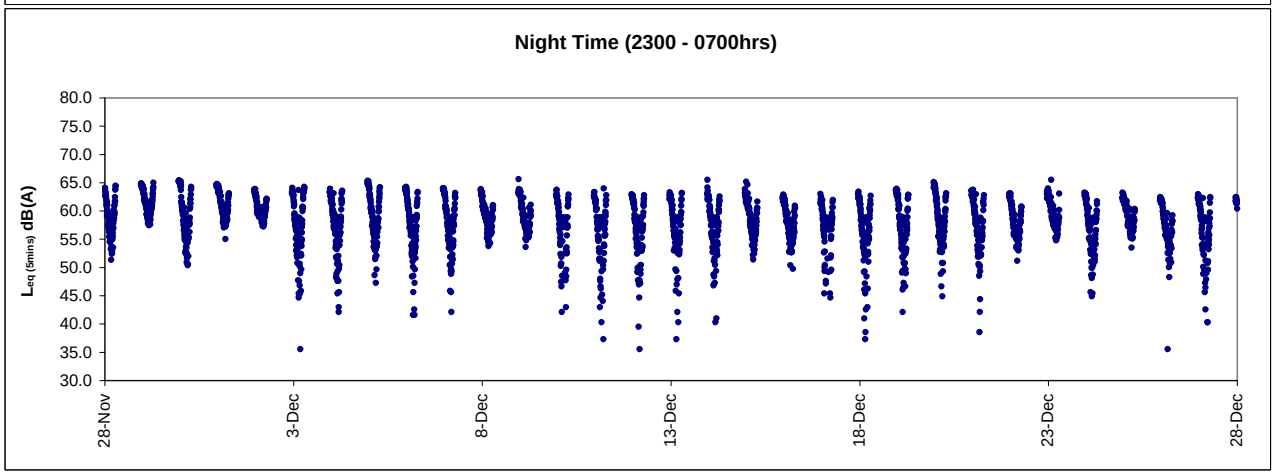
Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)







After checking with contractor HY/2009 19, no noisy construction activities were conducted during monitoring. Exceedance was considered to be contributed by the non CWB construction activities at the construction site next to Hong Kong Electric Centre

Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level being exceeded	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. 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)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. 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	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. 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	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. 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	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. 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)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. 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	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. 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	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. 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_10N104	29-Nov-12	15:25	M6 - HK baptist Church henrietta Secondary School	73	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:**	Grouting work and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station. Mitigation measures by contractor was confirmed in place.
								Remarks / Other Obs:	Although grouting work for Contract no. 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 is not due to project but to traffic noise nearby.
X_10N105	11-Dec-12	15:00	M6 - HK baptist Church henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	65	**Possible reason:**	Splicing work (under bridge deck) and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station.
								Remarks / Other Obs:	Although splicing work for Contract no. 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 is not due to project but to traffic noise nearby.
X_10N106	17-Dec-12	14:30	M6 - HK baptist Church henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	65	**Possible reason:**	Drilling work and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station. Mitigation measures by contractor was confirmed in place.
								Remarks / Other Obs:	Although drilling work for Contract no. 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 is not due to project but to traffic noise nearby.
X_10N107	27-Dec-12	15:00	M6 - HK baptist Church henrietta Secondary School	73	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:**	No construction work activitires and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the baseline noise level at this monitoring station.
								Remarks / Other Obs:	No construction activities for Contract no. 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 is not due to project but to traffic noise nearby.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W394	28-Nov-12	Mid-Flood	WSD19	DO (mg/L)	5.06	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.77	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 on 28 Nov 2012,backfilling on CHWM and remove Armour rock on east bridge were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	7.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. 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_W395	3-Dec-12	Mid-Flood	WSD19	DO (mg/L)	6.52	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.82	8.04	9.49	Action taken / to be taken:	Checking with contractor's works on 3 Dec 2012 trimming work and backfilling for CHWM were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	**14.50**	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. 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_W396	3-Dec-12	Mid-Flood	WSD21	DO (mg/L)	**3.21**	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.38	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 3 Dec, rockfilling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	10.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and no odour nuisance was noted during monitoring, the exceedance was considered not related to Project works.
X_W397	7-Dec-12	Mid-Flood	WSD19	DO (mg/L)	6.62	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	12.20	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 on 7 Dec 2012 trimming work and backfilling for CHWM were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	**16.00**	13.00	14.43	Remarks / Other Obs:	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.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W398	12-Dec-12	Mid-Flood	WSD19	DO (mg/L)	5.92	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	11.56	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 on 12 Dec 2012, no work was conducted on that day.
				Suspended Solid	7.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no work was conducted on that day, the exceedances was considered not project related.
X_W399	18-Dec-12	Mid-Ebb	WSD19	DO (mg/L)	6.64	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.09	8.04	9.49	Action taken / to be taken:	The tidal was moving eastward. Checking with contractor's works on 18 Dec 2012, dredging works beside East Bridge was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on 18 Dec 2012.
				Suspended Solid	**15.50**	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W400	26-Dec-12	Mid-Ebb	WSD21	DO (mg/L)	5.20	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.44	8.04	9.49	Action taken / to be taken:	Checking with contractor's works on 26 Dec 2012, no work was conducted during monitoring. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	**13.50**	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no work was conducted during monitoring, the exceedance was considered not related to Project works.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_10D194	28-Nov-12	Mid-Flood	Ex-WPCWA SE	Surface	DO(mg/l)	3.92	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, there was no marine works undertaken at ex-WPCWA on 28 Nov 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D195	28-Nov-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	4.14	5.36	5.35	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, there was no marine works undertaken at ex-WPCWA on 28 Nov 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D196	28-Nov-12	Mid-Flood	Ex-WPCWA SW	Bottom	DO(mg/l)	4.48	4.71	4.63	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, there was no marine works undertaken at ex-WPCWA on 28 Nov 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D197	29-Nov-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	4.14	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, there was no marine works undertaken at ex-WPCWA on 29 Nov 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D198	7-Dec-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	4.48	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 7 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D199	10-Dec-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	5.07	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 10 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D200	15-Dec-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	4.10	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 15 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X 10D201	18-Dec-12	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	4.22	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 18 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D202	20-Dec-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	5.06	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 20 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D203	24-Dec-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	4.15	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									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, there was no marine works undertaken at ex-WPCWA on 24 Dec 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C505	30-Nov-12	Mid-Flood	C9	DO(mg/L)	7.10	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	10.26	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	7.50	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C506	3-Dec-12	Mid-Flood	C9	DO(mg/L)	6.96	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.85	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	19.00	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C507	10-Dec-12	Mid-Ebb	C5w	DO(mg/L)	4.43	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.88	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Checking with contractor's works on 10 Dec 2012, rockfilling was conducted during monitoring. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				SS	6.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedance was considered not project related.
X_10C508	18-Dec-12	Mid-Flood	C9	DO(mg/L)	6.76	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	10.10	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	15.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C509	18-Dec-12	Mid-Ebb	C8	DO(mg/L)	6.22	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	10.04	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	6.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C510	18-Dec-12	Mid-Flood	C2	DO(mg/L)	5.76	3.36	2.73	Possible reason:	Accumulation of floating debris near monitoring station
				Turbidity	3.68	9.10	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedance. Repeated the measurement to confirm the result. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 18 Dec 2012, pile head grouting under HK/2010/06 and dredging near to East Bridge under HK/2009/01 were conducted on that day. Checking with the Contractor and RSS daily records from HK/2009/01, the floating debris inside silt screen was found and removed immediately after inspection. The silt screen and silt curtain were observed in proper condition during water monitoring.
				SS	17.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt screen and silt curtain were in proper condition, it was considered not related to Project works.

Appendix 7.1

Complaint Log

Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation. 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.	Closed
100321b	21/3/2010	Unknown	Near the eastern breakwater of the Causeway Bay Typhoon Shelter	A public complaint and enquiry regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March 2010(Monday).	1) A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18th 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. 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.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	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) 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. 2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. 3) No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 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.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) 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. 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.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	1) Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen. 2) Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint. 3) Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 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.	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	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. 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.	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1) ET confirmed the following information with resident site staff on the complaint: • 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. 2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; 3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; 6) No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 2) 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. 3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 4) 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 5) 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	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre. 3) It is considered as invalid complaint under this Project.	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	1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. 2) According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection. 3) In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor. 4) A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works. 5) Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	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.	1) 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 2) 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. 3) 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. 4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	1) ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011. 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) 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. 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. 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.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring 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. 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.	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) 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	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 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.	Closed
	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. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. *Remarks: There will be counted as two complaints in this complaint log.*	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 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. 4) Contractors were advised to relocate the loose materials	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	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) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) 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. 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.	Closed
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. • An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					team), contractor of HY/200911 and HY/2009/19 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) RSS notified ET to carry out investigation on 17 October 2011. 2) 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.	1) ET confirmed with the Resident Site Staff that • A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. • Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	Closed

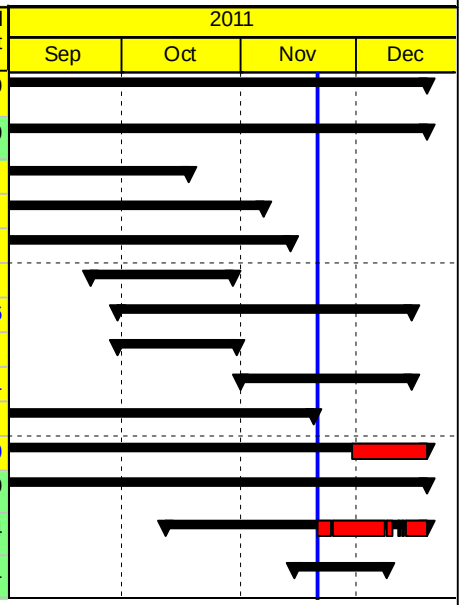
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
120820	20/8/2012	Mr.Ho via hotline 1823	The exit of Causeway Bay typhoon Shelter and lighthouse	A complaint regarding turbid appearance in water quality generated from dredging operation at the exit of CBTS and lighthouse from two barges respectively in construction sites of CBTS on 18 and 19 August 2012 between 3:00 and 10:00pm. The complainant requested a follow-up and reply from relevant department.	1) RSS notified ET on 21 August 2012 2) ET confirmed with the Resident Site Staff that seawall blocks removal at north of TS1 and removal of amour rocks at tip of Eastern Breakwater for HY/2009/15 were conducted during the concerned period on 18 August 2012, and seawall blocks removal at north of TS1 during the concerned period on 19 August 2012. 3) After reviewing the results of water monitoring at C7 on 17 and 20 August 2012, no exceedance was recorded and the water quality parameters were all below action level. Site investigation for HY/2009/15 was conducted on 21 August 2012. The investigation found that inadequate silt curtain for protecting trimming work at northern side of TS1, impermeable barrier were observed inadequate to protect the removed seawall location for trimming and dredging at TS1 and inadequate silt curtain were observed for protecting trimming work at breakwater at TS1. Reviewing the photo records of the concerned areas provided by RSS and investigations by RSS, it was found that the silt curtains around the concerned areas of northern TS1 and Eastern Breakwater were inadequate, and the silt curtains provided at both ends of the derrick barge were not fully enclosed. Also, after work, the silt curtains were not properly maintained to surround the affected work areas, causing silt water leakage into the Victoria Harbour. RSS confirmed that seawall blocks removal at north of TS1 and removal of amour rocks at tip of Eastern Breakwater for HY/2009/15 were conducted during the concerned period on 18 August 2012, and seawall blocks removal at north of TS1 during the concerned period on 19 August 2012. 4) HyD made a reply to the complainant on 23 August 2012 by phone. HyD replied that there would be on-going activities in the north side of TS1 and the end tip of Eastern Breakwater included filling and rock removal works. HyD explained to the complainant that the Contractor has deployed silt curtain to safeguard the water quality in the vicinity, but the silt curtain deployment	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					requires further improvement. RSS has immediately urged the Contractor to implement mitigation measures and also stepped up supervision on Contractor's work. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site, and the Contractor would take into account of ET and IEC's recommendations to enhance the environmental mitigation measures. No further complaint was received after the response.	

Appendix 8.1

Construction Programme of Individual Contracts

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
	Reclamation in NPR3 ver.9.5 2011_11_21	115	23	21-Jul-11 A	19-Dec-11	-39
	Landside	115	23	05-Aug-11 A	19-Dec-11	-39
	Installation Seawall Blocks to B6 and B7	55	0	13-Aug-11 A	18-Oct-11 A	
	Construct the Concrete Coping at B6 and B7	82	0	13-Aug-11 A	07-Nov-11 A	
	Laying Geotextile & Filter Material	86	0	05-Aug-11 A	14-Nov-11 A	
	Construct Open Channel U under IEC	33	0	23-Sep-11 A	30-Oct-11 A	
	Construct Open Channel U outside IEC	32	20	30-Sep-11 A	15-Dec-11	-36
	Construct the Drainage Pipeline at West of Open Channel U	34	0	30-Sep-11 A	31-Oct-11 A	
	Construct the Drainage Pipeline at East of Open Channel U	28	17	01-Nov-11 A	15-Dec-11	-31
	Unloading Sorted Public Fill behind new seawall	53	0	15-Aug-11 A	20-Nov-11 A	
	Reclamation	98	23	13-Aug-11 A	19-Dec-11	-39
	Seaside	100	23	21-Jul-11 A	19-Dec-11	-39
	Construction of Outlet Pipe from City Garden	54	20	12-Oct-11 A	19-Dec-11	-34
	Construction of B8	13	13	15-Nov-11 A	09-Dec-11	-31

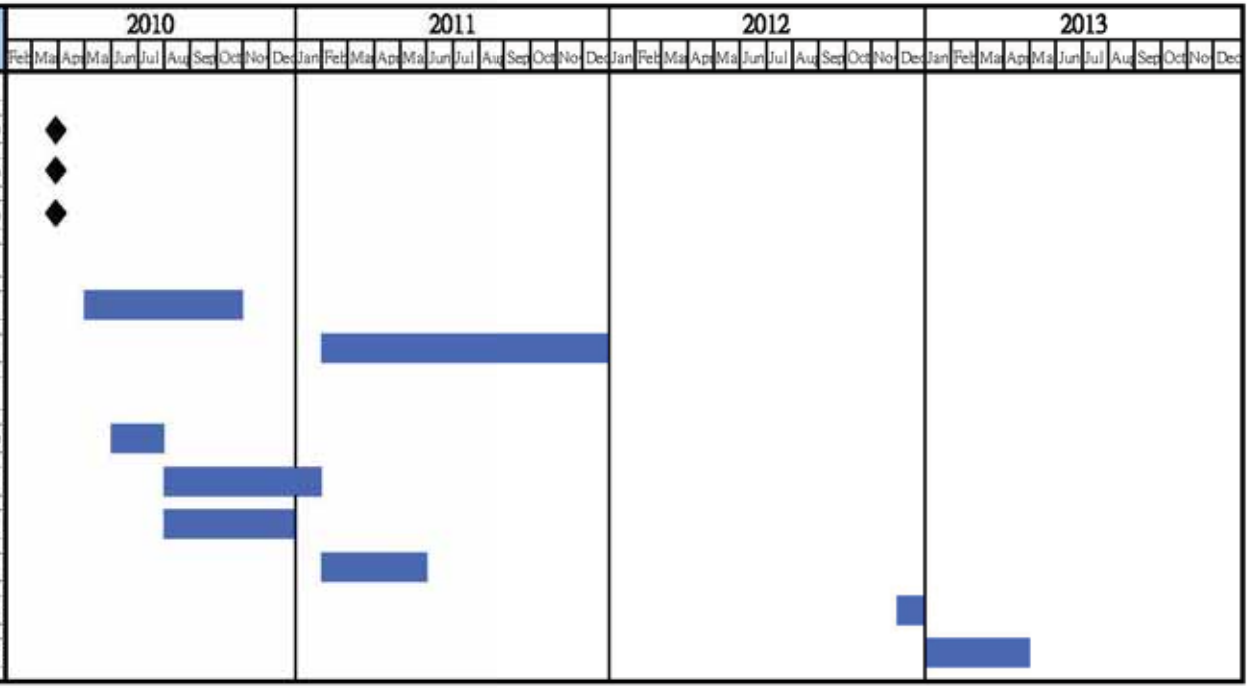


Contract No. HK/2009/01

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

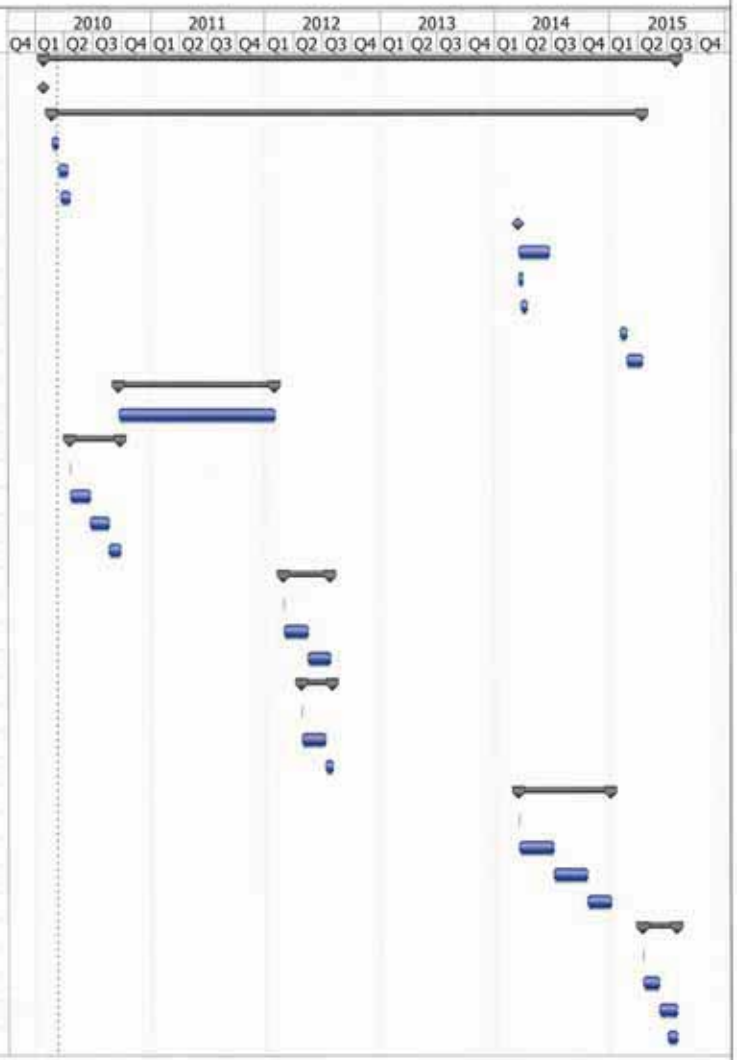
Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH
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



Dredging & Reclamation Works Programme Summary
(based on Initial Works Programme Rev. 0)

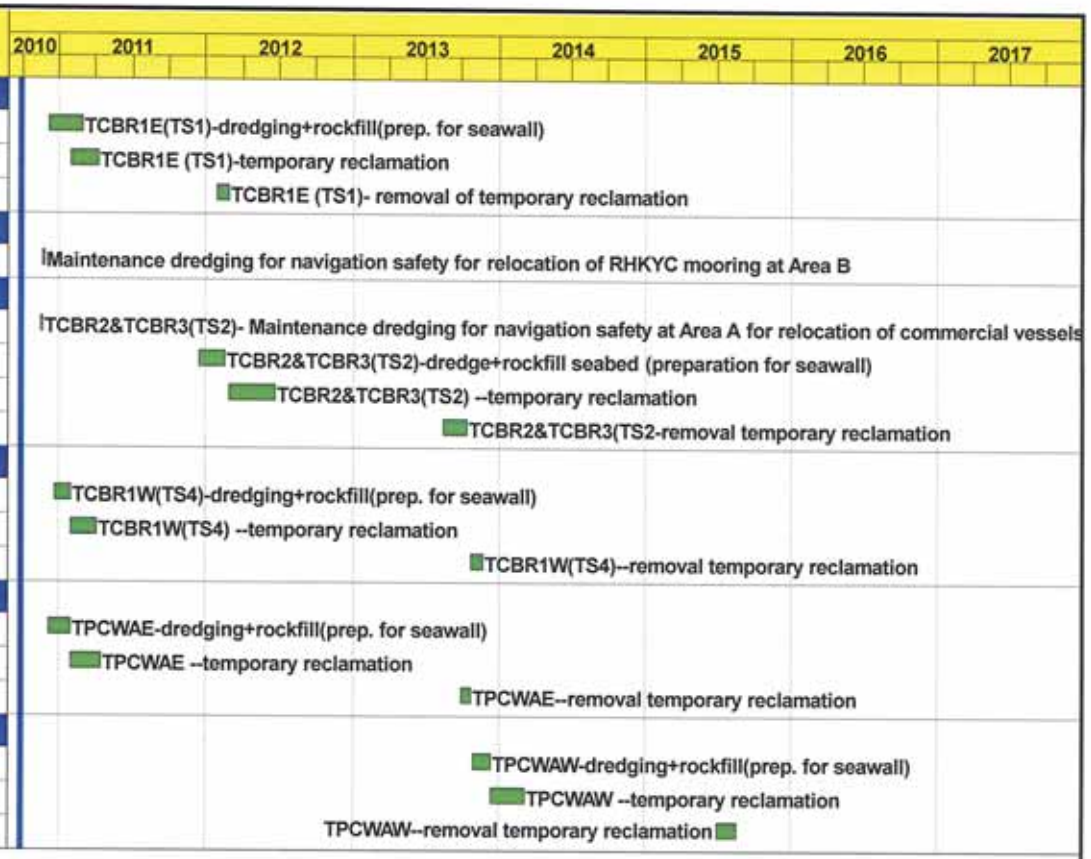
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10
7	Relocation of New Star Ferry Pier	0 d	Tue 18/3/14
8	Demolition of Existing Star Ferry Pier	100 d	Tue 18/3/14
9	Stage 2 Marine GI for Reclamation	14 d	Tue 18/3/14
10	Engineer's Design review for Dredging of WCR3	21 d	Tue 25/3/14
11	Complete Diversion of Hung Hing Road Traffic Back to Original	20 d	Fri 6/2/15
12	Excavate & remove top of d-wall for permanet seawall construction	50 d	Wed 25/2/15
13	**Submarine Outfall**	**500 d**	**Tue 21/9/10**
14	Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea	500 d	Tue 21/9/10
15	**Phase 1 - WCR1**	**158 d**	**Wed 21/4/10**
16	Mobilization of plants	1 d	Wed 21/4/10
17	Seabed dredging	63 d	Wed 21/4/10
18	Bedding Filling and Permanent seawall (precast cassion)	60 d	Tue 22/6/10
19	Bulk reclamation	37 d	Fri 20/8/10
20	**Phase 2 - WCR2**	**149 d**	**Thu 1/3/12**
21	Mobilization of plants	1 d	Thu 1/3/12
22	Temp seawall and Seabed dredging	77 d	Thu 1/3/12
23	Bulk reclamation	73 d	Wed 16/5/12
24	**Phase 3 - TWCR4 & WCR4**	**98 d**	**Sat 28/4/12**
25	Mobilization of plants	1 d	Sat 28/4/12
26	Temp Seawall and Seabed dredging	75 d	Sat 28/4/12
27	Bulk & temp reclamation	24 d	Wed 11/7/12
28	**Phase 4 - WCR3**	**294 d**	**Tue 18/3/14**
29	Mobilization of plants	1 d	Tue 18/3/14
30	Seabed dredging for Permanent Seawall	112 d	Tue 18/3/14
31	Backfill and permanent seawall (precast cassion)	108 d	Tue 8/7/14
32	Bulk reclamation	74 d	Fri 24/10/14
33	**Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4**	**105 d**	**Wed 15/4/15**
34	Mobilization of plants	1 d	Wed 15/4/15
35	Dredging and Filling for permanent seawall construction	50 d	Wed 15/4/15
36	Construction of Permanent Seawall Blocks for curved coastline	56 d	Wed 3/6/15
37	Remove temp seawall and reinstate the location of TWCR4	30 d	Mon 29/6/15



Project: Reclamation Works Programm
Date: Tue 9/3/10

Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | Project Summary | Group By Summary | Deadline

Activity ID	Cal ID	Activity Description	Orig Dur	Early Start	Early Finish
TCBR1E (TS1 Area)					
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12
TCBR4					
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10
TCBR2 + TCBR3 (TS2 Area)					
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12
120	1	TCBR2&TCBR3(TS2) --temporary reclamation	115	26FEB12*	19JUN12
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13
TCBR1W (TS4 Area)					
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11
130	1	TCBR1W(TS4) --temporary reclamation	68	28JAN11	05APR11
165	1	TCBR1W(TS4)--removal temporary reclamation	26	27OCT13*	21NOV13
TPCWAE					
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11
140	1	TPCWAE --temporary reclamation	77	27JAN11	13APR11
170	1	TPCWAE--removal temporary reclamation	28	28SEP13*	25OCT13
TPCWAW					
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	28OCT13*	13DEC13
150	1	TPCWAW --temporary reclamation	83	14DEC13	06MAR14
175	1	TPCWAW--removal temporary reclamation	50	02JUL15*	20AUG15



Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

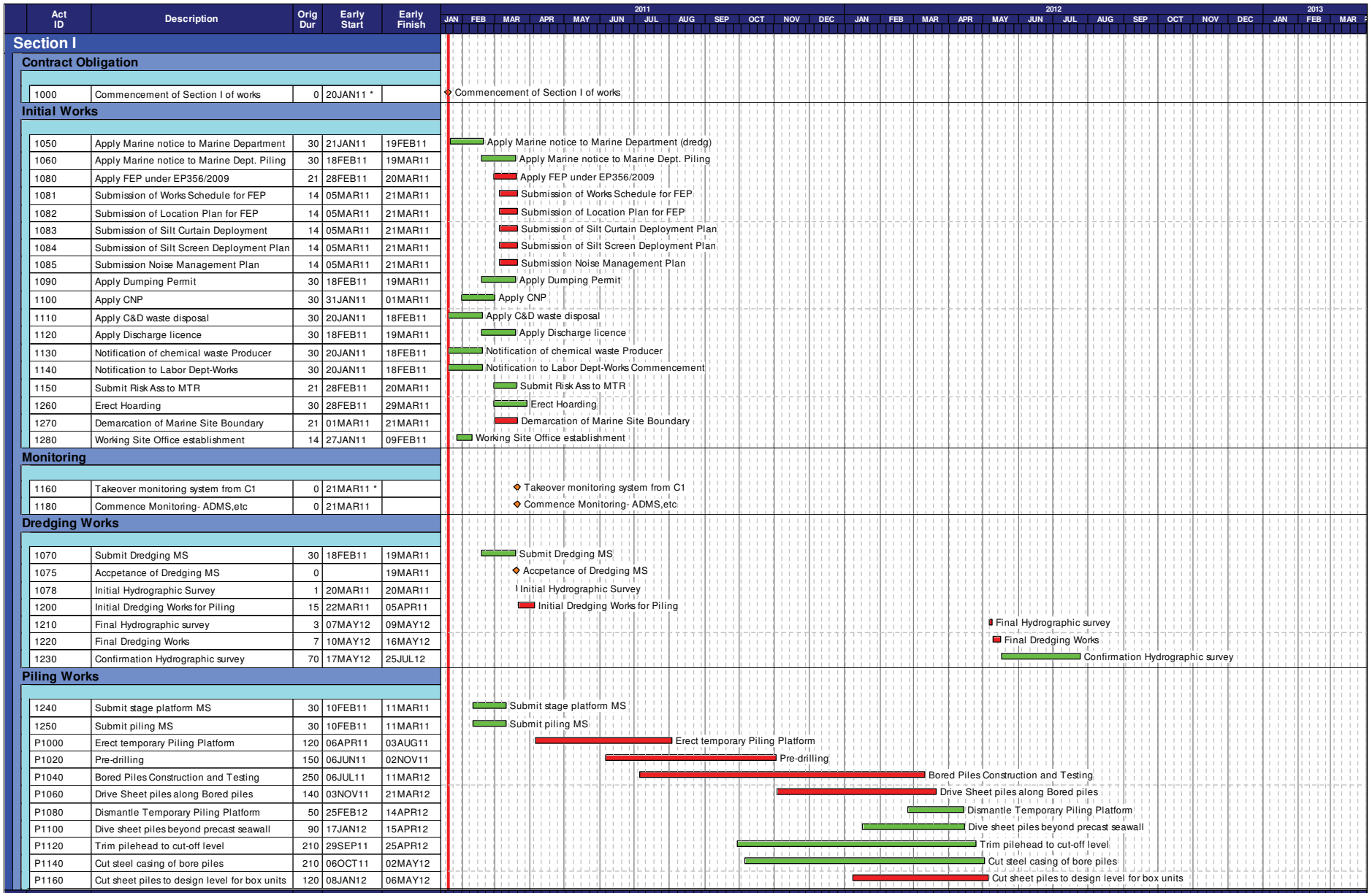
EP02

CHINA STATE CONSTRUCTION ENGG LTD

CONTRACT NO. HY/2009/15: CENTRAL
WAN CHAI BYPASS- TUNNEL (CBTS SECTION)

Prepared based on IWP Rev. 0

Date Prepared: 28 Oct 2010



Start date	20JAN11
Finish date	19DEC12
Data date	20JAN11
Run date	05MAR11
Page number	1A
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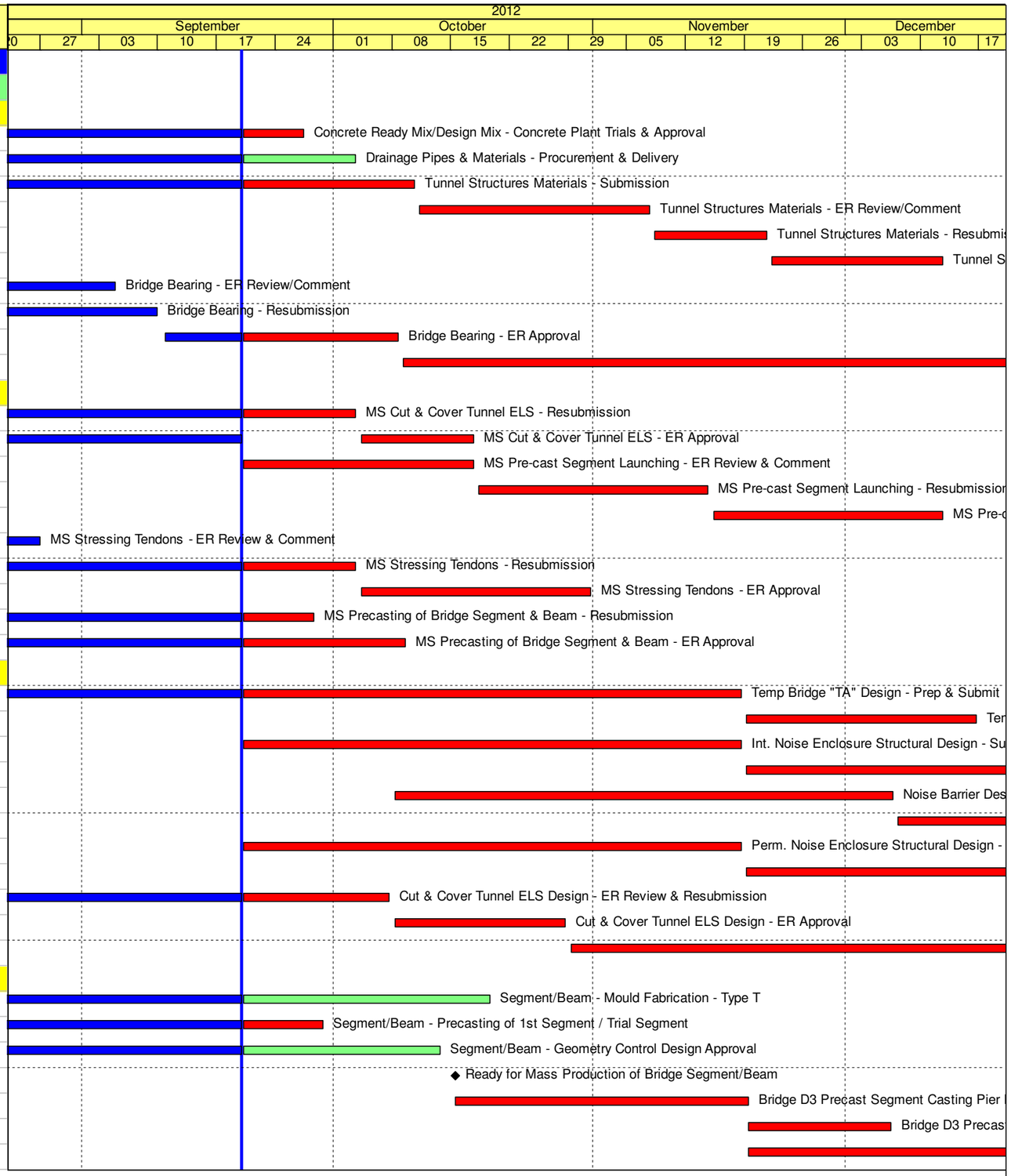
Contract no. HK/2010/06
Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line

GAMMON-LEADER JV

Works Schedule of Marine Works for EP-356/2009

Early bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - SEP 2012 to DEC 2012				
02 - PRE-CONSTRUCTION WORKS				
02.2 - Contractor's Submission				
0220-1250	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	8	04-Aug-11 A	27-Sep-12
0220-1300	Drainage Pipes & Materials - Procurement & Delivery	14	20-Jul-12 A	03-Oct-12
0220-1360	Tunnel Structures Materials - Submission	21	19-Jul-12 A	10-Oct-12
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	11-Oct-12	07-Nov-12
0220-1380	Tunnel Structures Materials - Resubmission	14	08-Nov-12	21-Nov-12
0220-1390	Tunnel Structures Materials - ER Approval	21	22-Nov-12	12-Dec-12
0220-1470	Bridge Bearing - ER Review/Comment	0	27-Jul-12 A	05-Sep-12 A
0220-1480	Bridge Bearing - Resubmission	0	09-Aug-12 A	10-Sep-12 A
0220-1490	Bridge Bearing - ER Approval	19	11-Sep-12 A	08-Oct-12
0220-1500	Bridge Bearing - Procurement & Delivery	195	09-Oct-12	21-Apr-13*
02.3 - Method Statement / Shop Drawings				
0230-1280	MS Cut & Cover Tunnel ELS - Resubmission	14	13-Jul-12 A	03-Oct-12
0230-1290	MS Cut & Cover Tunnel ELS - ER Approval	14	07-Aug-12 A	17-Oct-12
0230-1350	MS Pre-cast Segment Launching - ER Review & Comment	28	20-Sep-12 A	17-Oct-12
0230-1360	MS Pre-cast Segment Launching - Resubmission	28	18-Oct-12	14-Nov-12
0230-1370	MS Pre-cast Segment Launching - ER Approval	28	15-Nov-12	12-Dec-12
0230-1470	MS Stressing Tendons - ER Review & Comment	0	08-Jun-12 A	27-Aug-12 A
0230-1480	MS Stressing Tendons - Resubmission	14	08-Aug-12 A	03-Oct-12
0230-1490	MS Stressing Tendons - ER Approval	28	04-Oct-12	31-Oct-12
0230-1560	MS Precasting of Bridge Segment & Beam - Resubmission	9	02-Apr-12 A	28-Sep-12
0230-1570	MS Precasting of Bridge Segment & Beam - ER Approval	20	12-Apr-12 A	09-Oct-12
02.4 - Contractor's Design and Build Items				
0240-1010	Temp Bridge "TA" Design - Prep & Submit	60	16-Dec-11 A	18-Nov-12
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	19-Nov-12	16-Dec-12
0240-1105	Int. Noise Enclosure Structural Design - Submission	60	20-Sep-12*	18-Nov-12
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	36	19-Nov-12	24-Dec-12
0240-1126	Noise Barrier Design Structural Design - Submission	60	08-Oct-12*	06-Dec-12
0240-1127	Noise Barrier Design Structural Design - ER Review/Resubmission	36	07-Dec-12	11-Jan-13
0240-1150	Perm. Noise Enclosure Structural Design - Submission	60	20-Sep-12	18-Nov-12
0240-1160	Perm. Noise Enclosure Structural Design - ER Review/Resubmission	36	19-Nov-12	24-Dec-12
0240-1376	Cut & Cover Tunnel ELS Design - ER Review & Resubmission	18	14-Jun-12 A	07-Oct-12
0240-1377	Cut & Cover Tunnel ELS Design - ER Approval	21	08-Oct-12	28-Oct-12
0240-1379	Cut & Cover Tunnel ELS Fabrication	60	29-Oct-12	27-Dec-12
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-1055	Segment/Beam - Mould Fabrication - Type T	30	14-May-12 A	19-Oct-12
0250-1060	Segment/Beam - Precasting of 1st Segment / Trial Segment	10	20-Aug-12 A	29-Sep-12
0250-1100	Segment/Beam - Geometry Control Design Approval	24	14-Dec-11 A	13-Oct-12
0250-1500	Ready for Mass Production of Bridge Segment/Beam	0		15-Oct-12*
0250-1600.01	Bridge D3 Precast Segment Casting Pier D09 (17 segments)	35	15-Oct-12	19-Nov-12
0250-1600.03	Bridge D3 Precast Segment Casting Pier D08 (8 segments)	17	19-Nov-12	06-Dec-12
0250-1600.05	Bridge D3 Precast Segment Casting Pier D10 (17 segments)	35	19-Nov-12	24-Dec-12

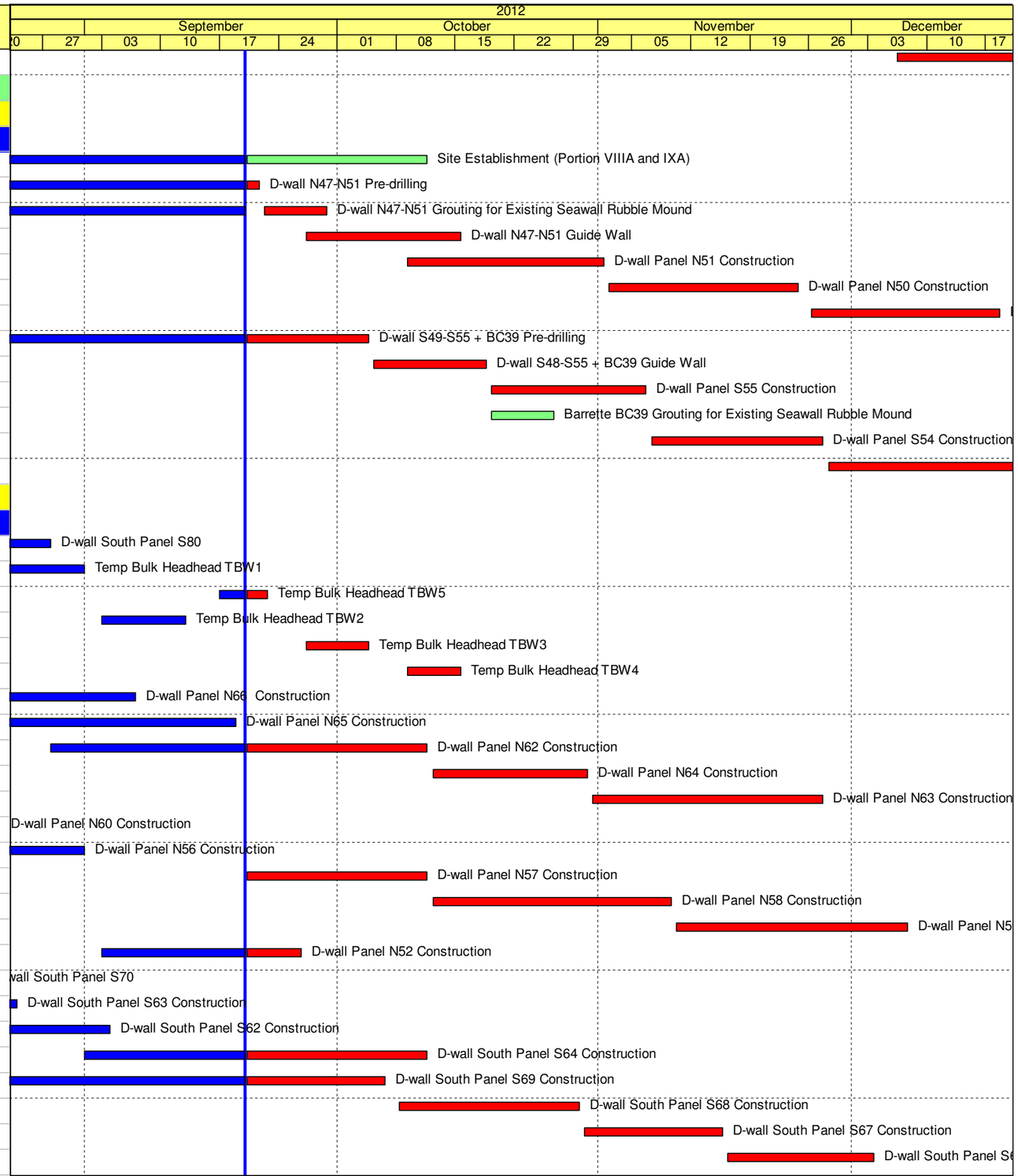


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

Activity ID	Activity Name	Rem Dur	Start	Finish
0250-1600.07	Bridge D3 Precast Segment Casting Pier D11 (17 segments)	35	06-Dec-12	10-Jan-13
05 - SECTION 2 & 2A OF THE WORKS				
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)				
05.1.1 - D-Wall Construction				
0511-1020	Site Establishment (Portion VIIIA and IXA)	18	30-Jul-12 A	11-Oct-12
0511-1030	D-wall N47-N51 Pre-drilling	2	30-Jul-12 A	21-Sep-12
0511-1035	D-wall N47-N51 Grouting for Existing Seawall Rubble Mound	7	20-Aug-12 A	29-Sep-12
0511-1040	D-wall N47-N51 Guide Wall	15	27-Sep-12	15-Oct-12
0511-1051	D-wall Panel N51 Construction	20	09-Oct-12	01-Nov-12
0511-1052	D-wall Panel N50 Construction	20	02-Nov-12	24-Nov-12
0511-1053	D-wall Panel N49 Construction	20	26-Nov-12	18-Dec-12
0511-1060	D-wall S49-S55 + BC39 Pre-drilling	12	17-Aug-12 A	04-Oct-12
0511-1065	D-wall S48-S55 + BC39 Guide Wall	12	05-Oct-12	18-Oct-12
0511-1071	D-wall Panel S55 Construction	15	19-Oct-12	06-Nov-12
0511-1075	Barrette BC39 Grouting for Existing Seawall Rubble Mound	6	19-Oct-12	26-Oct-12
0511-1072	D-wall Panel S54 Construction	18	07-Nov-12	27-Nov-12
0511-1073	D-wall Panel S53 Construction	24	28-Nov-12	26-Dec-12
05.2 - Cut & Cover Tunnel Ch 4932-5149				
05.2.1 - D-Wall Construction				
0521-1990.64	D-wall South Panel S80	0	22-Aug-12 A	28-Aug-12 A
0521-1945.20	Temp Bulk Headhead TBW1	0	16-Aug-12 A	01-Sep-12 A
0521-1945.10	Temp Bulk Headhead TBW5	3	17-Sep-12 A	22-Sep-12
0521-1945.25	Temp Bulk Headhead TBW2	0	03-Sep-12 A	13-Sep-12 A
0521-1945.15	Temp Bulk Headhead TBW3	6	27-Sep-12	04-Oct-12
0521-1945.30	Temp Bulk Headhead TBW4	6	09-Oct-12	15-Oct-12
0521-1830.30	D-wall Panel N66 Construction	0	11-Aug-12 A	07-Sep-12 A
0521-1830.35	D-wall Panel N65 Construction	0	10-Aug-12 A	19-Sep-12 A
0521-1835.55	D-wall Panel N62 Construction	18	28-Aug-12 A	11-Oct-12
0521-1835.15	D-wall Panel N64 Construction	15	12-Oct-12	30-Oct-12
0521-1835.16	D-wall Panel N63 Construction	24	31-Oct-12	27-Nov-12
0521-1835.20	D-wall Panel N60 Construction	0	03-Aug-12 A	22-Aug-12 A
0521-1835.65	D-wall Panel N56 Construction	0	16-Aug-12 A	01-Sep-12 A
0521-1835.25	D-wall Panel N57 Construction	18	20-Sep-12	11-Oct-12
0521-1835.70	D-wall Panel N58 Construction	24	12-Oct-12	09-Nov-12
0521-1835.30	D-wall Panel N59 Construction	24	10-Nov-12	07-Dec-12
0521-1835.71	D-wall Panel N52 Construction	6	03-Sep-12 A	26-Sep-12
0521-1990.41	D-wall South Panel S70	0	01-Aug-12 A	20-Aug-12 A
0521-1990.35	D-wall South Panel S63 Construction	0	08-Aug-12 A	24-Aug-12 A
0521-1990.37	D-wall South Panel S62 Construction	0	10-Aug-12 A	04-Sep-12 A
0521-1990.38	D-wall South Panel S64 Construction	18	01-Sep-12 A	11-Oct-12
0521-1990.69	D-wall South Panel S69 Construction	14	23-Aug-12 A	06-Oct-12
0521-1990.65	D-wall South Panel S68 Construction	18	08-Oct-12	29-Oct-12
0521-1990.66	D-wall South Panel S67 Construction	15	30-Oct-12	15-Nov-12
0521-1990.67	D-wall South Panel S66 Construction	15	16-Nov-12	03-Dec-12

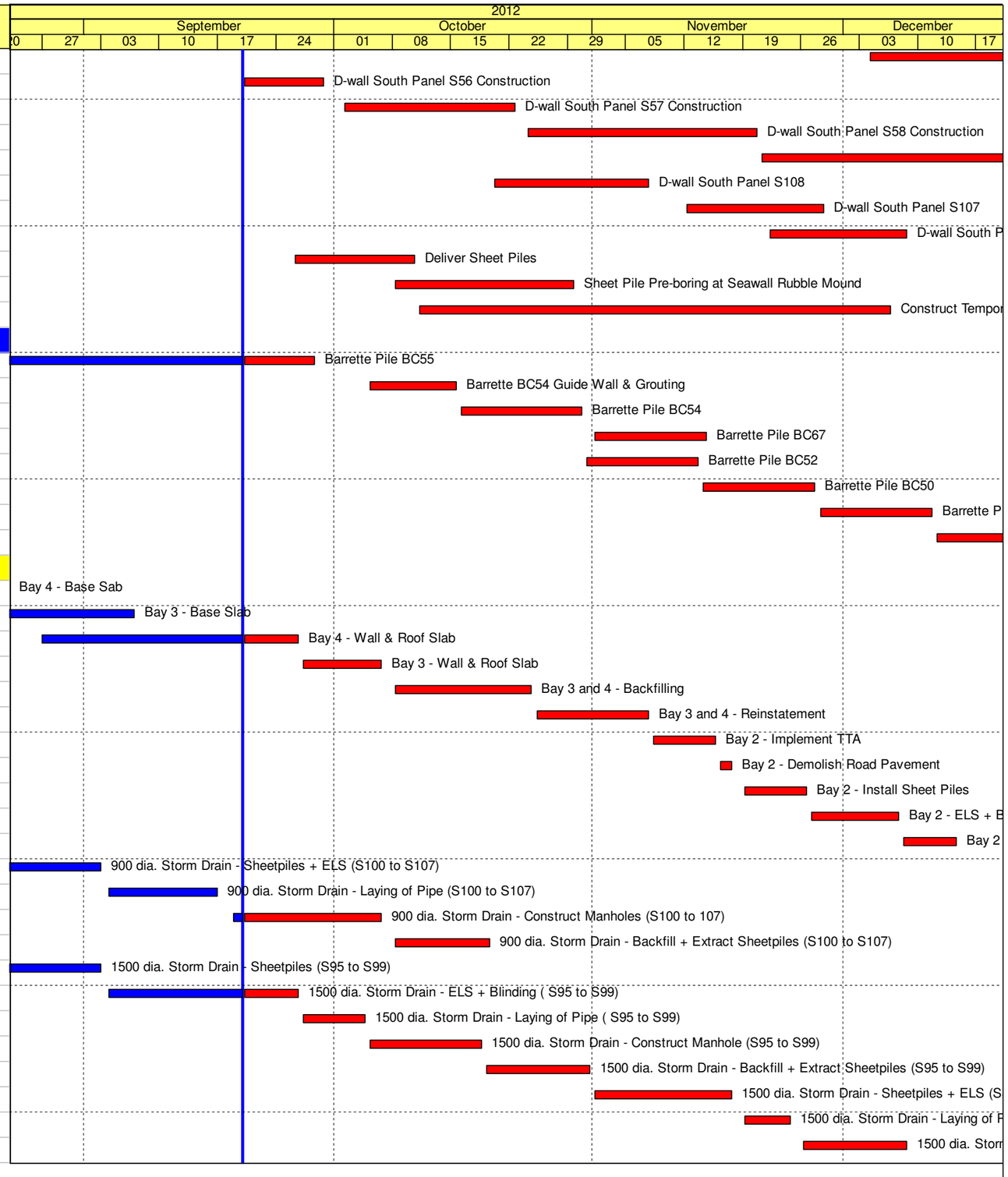


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

Activity ID	Activity Name	Rem Dur	Start	Finish
0521-1990.68	D-wall South Panel S65 Construction	21	04-Dec-12	28-Dec-12
0521-1990.75	D-wall South Panel S56 Construction	9	20-Sep-12	29-Sep-12
0521-1990.71	D-wall South Panel S57 Construction	18	02-Oct-12	22-Oct-12
0521-1990.72	D-wall South Panel S58 Construction	24	24-Oct-12	20-Nov-12
0521-1990.73	D-wall South Panel S59 Construction	30	21-Nov-12	26-Dec-12
0521-1990.31	D-wall South Panel S108	15	20-Oct-12	07-Nov-12
0521-1990.32	D-wall South Panel S107	15	12-Nov-12	28-Nov-12
0521-1990.76	D-wall South Panel N100 Construction	15	22-Nov-12	08-Dec-12
0521-1935	Deliver Sheet Piles	12	26-Sep-12*	10-Oct-12
0521-1938	Sheet Pile Pre-boring at Seawall Rubble Mound	18	08-Oct-12	29-Oct-12
0521-1940	Construct Temporary End Wall (Sheet Piles)	48	11-Oct-12	06-Dec-12
05.2.2 - Barrette Construction				
0522-2210.58	Barrette Pile BC55	8	20-Aug-12 A	28-Sep-12
0522-2381	Barrette BC54 Guide Wall & Grouting	9	05-Oct-12	15-Oct-12
0522-2210.54	Barrette Pile BC54	12	16-Oct-12	30-Oct-12
0522-2210.71	Barrette Pile BC67	12	01-Nov-12	14-Nov-12
0522-2210.52	Barrette Pile BC52	12	31-Oct-12	13-Nov-12
0522-2210.50	Barrette Pile BC50	12	14-Nov-12	27-Nov-12
0522-2210.51	Barrette Pile BC51	12	28-Nov-12	11-Dec-12
0522-2310	Barrette BC45-BC49 Construction	34	12-Dec-12	22-Jan-13
05.3 - Box Culvert T1				
0530-3033	Bay 4 - Base Sab	0	07-Aug-12 A	23-Aug-12 A
0530-3321	Bay 3 - Base Slab	0	23-Aug-12 A	07-Sep-12 A
0530-3322	Bay 4 - Wall & Roof Slab	6	27-Aug-12 A	26-Sep-12
0530-3323	Bay 3 - Wall & Roof Slab	8	27-Sep-12	06-Oct-12
0530-3040	Bay 3 and 4 - Backfilling	14	08-Oct-12	24-Oct-12
0530-3050	Bay 3 and 4 - Reinstatement	12	25-Oct-12	07-Nov-12
0530-3061	Bay 2 - Implement TTA	7	08-Nov-12	15-Nov-12
0530-3060	Bay 2 - Demolish Road Pavement	2	16-Nov-12	17-Nov-12
0530-3065	Bay 2 - Install Sheet Piles	7	19-Nov-12	26-Nov-12
0530-3071	Bay 2 - ELS + Blinding	10	27-Nov-12	07-Dec-12
0530-3072	Bay 2 - Base Slab	6	08-Dec-12	14-Dec-12
0530-3200	900 dia. Storm Drain - Sheetpiles + ELS (S100 to S107)	0	12-Jun-12 A	03-Sep-12 A
0530-3204	900 dia. Storm Drain - Laying of Pipe (S100 to S107)	0	04-Sep-12 A	17-Sep-12 A
0530-3205	900 dia. Storm Drain - Construct Manholes (S100 to 107)	14	19-Sep-12 A	06-Oct-12
0530-3208	900 dia. Storm Drain - Backfill + Extract Sheetpiles (S100 to S107)	11	08-Oct-12	19-Oct-12
0530-3230	1500 dia. Storm Drain - Sheetpiles (S95 to S99)	0	01-Aug-12 A	03-Sep-12 A
0530-3232	1500 dia. Storm Drain - ELS + Blinding (S95 to S99)	6	04-Sep-12 A	26-Sep-12
0530-3250	1500 dia. Storm Drain - Laying of Pipe (S95 to S99)	6	27-Sep-12	04-Oct-12
0530-3255	1500 dia. Storm Drain - Construct Manhole (S95 to S99)	12	05-Oct-12	18-Oct-12
0530-3324	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S95 to S99)	10	19-Oct-12	31-Oct-12
0530-3300	1500 dia. Storm Drain - Sheetpiles + ELS (S89 to S94)	15	01-Nov-12	17-Nov-12
0530-3302	1500 dia. Storm Drain - Laying of Pipe (S89 to S94)	6	19-Nov-12	24-Nov-12
0530-3305	1500 dia. Storm Drain - Construct Manhole (S89 to S94)	12	26-Nov-12	08-Dec-12



Remaining Level of Effort
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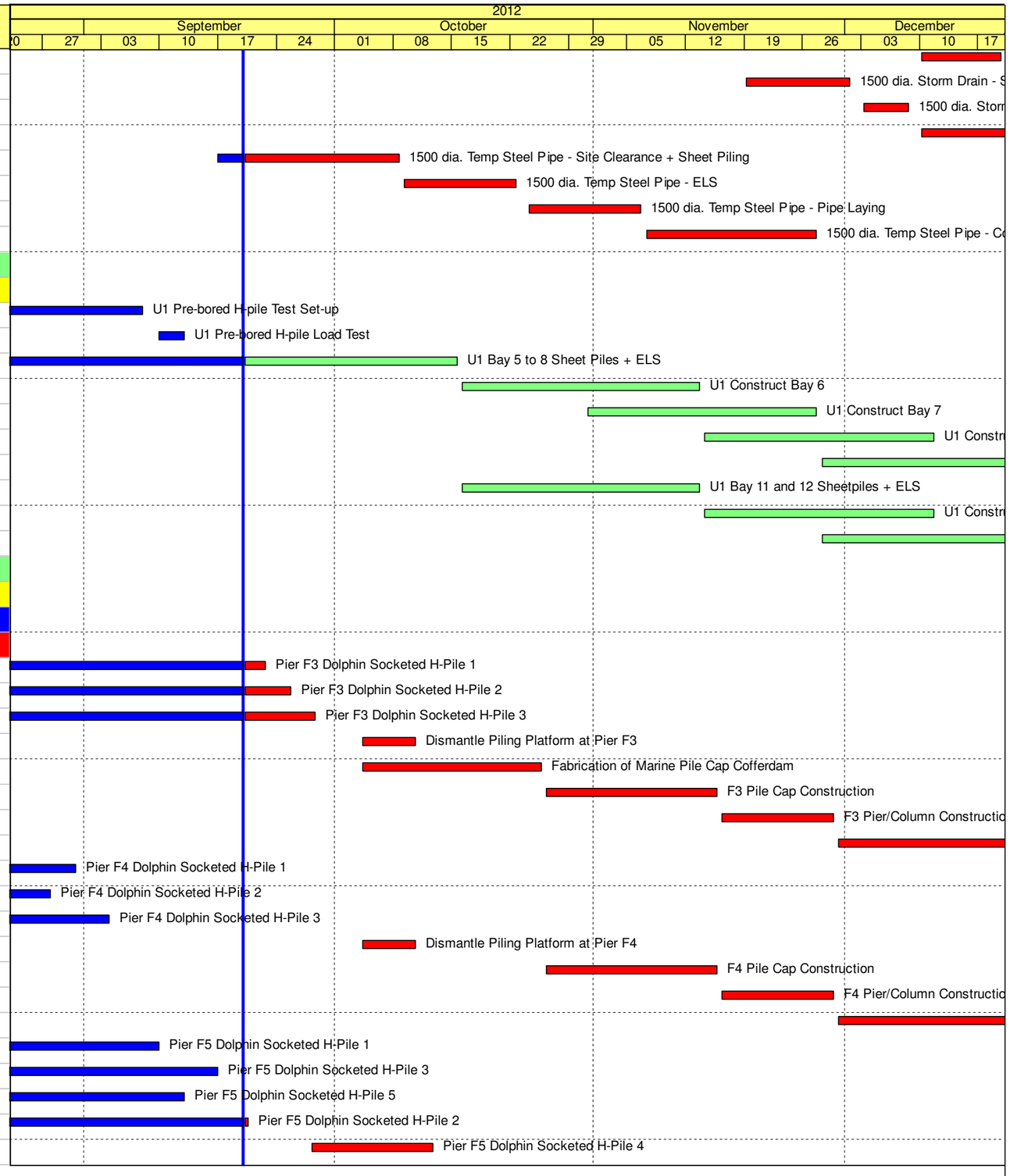
Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

Activity ID	Activity Name	Rem Dur	Start	Finish
0530-3308	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S89 to S94)	9	10-Dec-12	19-Dec-12
0530-3310	1500 dia. Storm Drain - Sheetpiles + ELS (S83 to S89)	12	19-Nov-12	01-Dec-12
0530-3325	1500 dia. Storm Drain - Laying of Pipe (S83 to S89)	6	03-Dec-12	08-Dec-12
0530-3326	1500 dia. Storm Drain - Construct Manhole (S83 to S89)	12	10-Dec-12	22-Dec-12
0530-3320	1500 dia. Temp Steel Pipe - Site Clearance + Sheet Piling	15	17-Sep-12 A	08-Oct-12
0530-3338	1500 dia. Temp Steel Pipe - ELS	12	09-Oct-12	22-Oct-12
0530-3348	1500 dia. Temp Steel Pipe - Pipe Laying	12	24-Oct-12	06-Nov-12
0530-3358	1500 dia. Temp Steel Pipe - Connect to Existing Box Culvert	18	07-Nov-12	27-Nov-12
06 - SECTION 3 OF THE WORKS				
06.2 - Box Culvert U1				
0620-2358	U1 Pre-bored H-pile Test Set-up	0	06-Aug-12 A	08-Sep-12 A
0620-2359	U1 Pre-bored H-pile Load Test	0	10-Sep-12 A	13-Sep-12 A
0620-2390	U1 Bay 5 to 8 Sheet Piles + ELS	21	30-Jul-12 A	15-Oct-12
0620-2400	U1 Construct Bay 6	24	16-Oct-12	13-Nov-12
0620-2410	U1 Construct Bay 7	24	31-Oct-12	27-Nov-12
0620-2420	U1 Construct Bay 8	24	14-Nov-12	11-Dec-12
0620-2430	U1 Construct Bay 5	24	28-Nov-12	26-Dec-12
0620-2480	U1 Bay 11 and 12 Sheetpiles + ELS	24	16-Oct-12	13-Nov-12
0620-2490	U1 Construct Bay 12	24	14-Nov-12	11-Dec-12
0620-2500	U1 Construct Bay 11	24	28-Nov-12	26-Dec-12
10 - SECTION X OF THE WORKS				
10.1 - E/B Bridges (Bridge D, E and F)				
10.1.1 - Marine Pier Construction				
Pier F03 to F15				
1011-1750.10	Pier F3 Dolphin Socketed H-Pile 1	3	16-Aug-12 A	22-Sep-12
1011-1750.20	Pier F3 Dolphin Socketed H-Pile 2	5	17-Aug-12 A	25-Sep-12
1011-1750.30	Pier F3 Dolphin Socketed H-Pile 3	8	18-Aug-12 A	28-Sep-12
1011-1990	Dismantle Piling Platform at Pier F3	6	04-Oct-12	10-Oct-12
1011-1995	Fabrication of Marine Pile Cap Cofferdam	18	04-Oct-12	25-Oct-12
1011-2150	F3 Pile Cap Construction	18	26-Oct-12	15-Nov-12
1011-2160	F3 Pier/Column Construction	12	16-Nov-12	29-Nov-12
1011-2170	F3 Crosshead Construction + Bearing	24	30-Nov-12	28-Dec-12
1011-1850.10	Pier F4 Dolphin Socketed H-Pile 1	0	25-May-12 A	31-Aug-12 A
1011-1850.20	Pier F4 Dolphin Socketed H-Pile 2	0	04-Jun-12 A	28-Aug-12 A
1011-1850.30	Pier F4 Dolphin Socketed H-Pile 3	0	25-Jun-12 A	04-Sep-12 A
1011-2000	Dismantle Piling Platform at Pier F4	6	04-Oct-12	10-Oct-12
1011-2180	F4 Pile Cap Construction	18	26-Oct-12	15-Nov-12
1011-2190	F4 Pier/Column Construction	12	16-Nov-12	29-Nov-12
1011-2200	F4 Crosshead Construction + Bearing	24	30-Nov-12	28-Dec-12
1011-1810.10	Pier F5 Dolphin Socketed H-Pile 1	0	18-Jul-12 A	10-Sep-12 A
1011-1810.20	Pier F5 Dolphin Socketed H-Pile 3	0	19-Jul-12 A	17-Sep-12 A
1011-1810.40	Pier F5 Dolphin Socketed H-Pile 5	0	17-Jul-12 A	13-Sep-12 A
1011-1810.30	Pier F5 Dolphin Socketed H-Pile 2	1	04-Aug-12 A	20-Sep-12
1011-1810.50	Pier F5 Dolphin Socketed H-Pile 4	12	28-Sep-12	12-Oct-12



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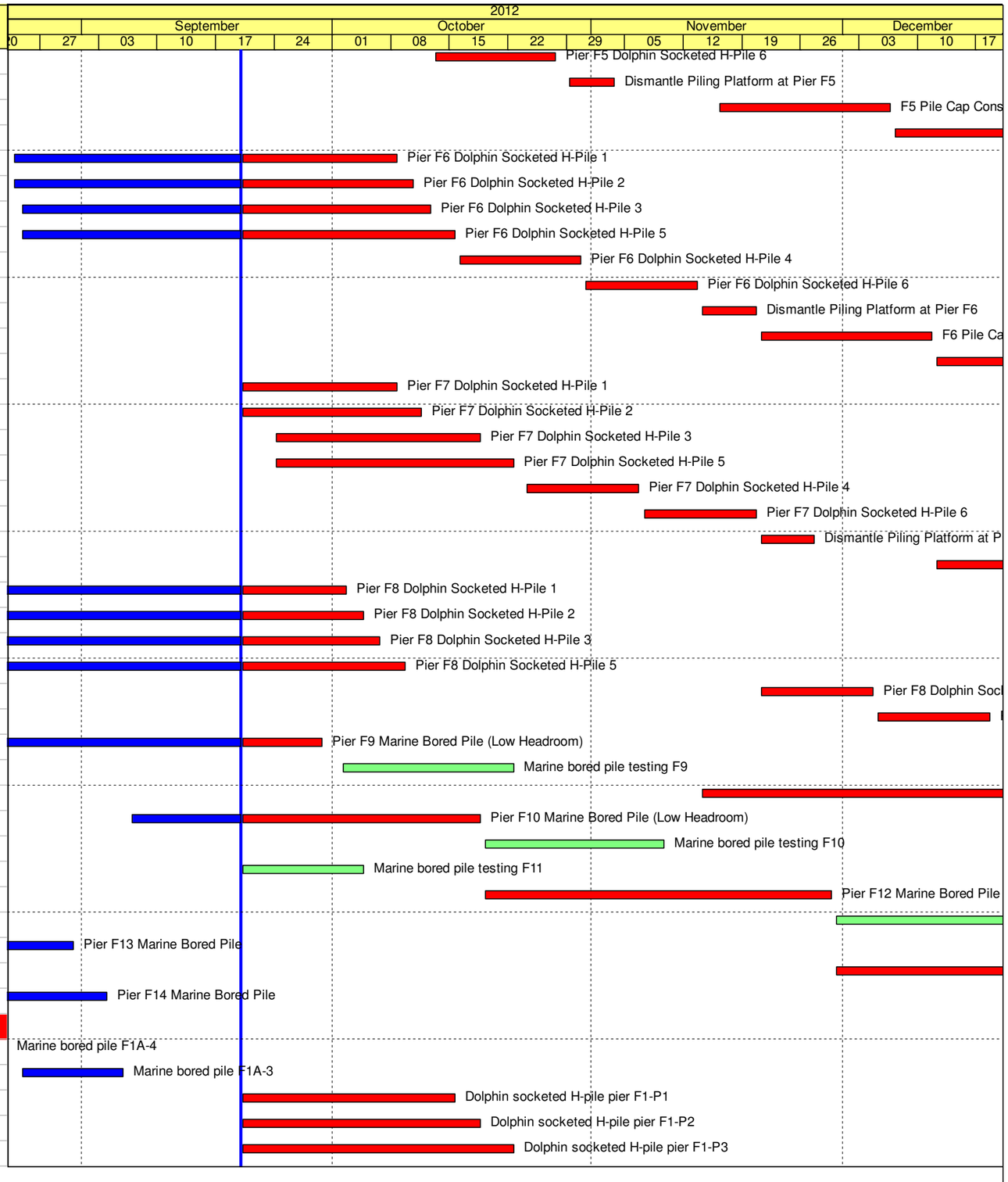
Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-1810.60	Pier F5 Dolphin Socketed H-Pile 6	12	13-Oct-12	27-Oct-12
1011-2010	Dismantle Piling Platform at Pier F5	6	29-Oct-12	03-Nov-12
1011-2210	F5 Pile Cap Construction	18	16-Nov-12	06-Dec-12
1011-2220	F5 Pier/Column Construction	12	07-Dec-12	20-Dec-12
1011-1790.10	Pier F6 Dolphin Socketed H-Pile 1	15	24-Aug-12 A	08-Oct-12
1011-1790.20	Pier F6 Dolphin Socketed H-Pile 2	17	24-Aug-12 A	10-Oct-12
1011-1790.30	Pier F6 Dolphin Socketed H-Pile 3	19	25-Aug-12 A	12-Oct-12
1011-1790.40	Pier F6 Dolphin Socketed H-Pile 5	21	25-Aug-12 A	15-Oct-12
1011-1790.50	Pier F6 Dolphin Socketed H-Pile 4	12	16-Oct-12	30-Oct-12
1011-1790.60	Pier F6 Dolphin Socketed H-Pile 6	12	31-Oct-12	13-Nov-12
1011-2020	Dismantle Piling Platform at Pier F6	6	14-Nov-12	20-Nov-12
1011-2240	F6 Pile Cap Construction	18	21-Nov-12	11-Dec-12
1011-2250	F6 Pier/Column Construction	12	12-Dec-12	26-Dec-12
1011-1910.10	Pier F7 Dolphin Socketed H-Pile 1	15	20-Sep-12	08-Oct-12
1011-1910.20	Pier F7 Dolphin Socketed H-Pile 2	18	20-Sep-12	11-Oct-12
1011-1910.30	Pier F7 Dolphin Socketed H-Pile 3	21	24-Sep-12	18-Oct-12
1011-1910.40	Pier F7 Dolphin Socketed H-Pile 5	24	24-Sep-12	22-Oct-12
1011-1910.50	Pier F7 Dolphin Socketed H-Pile 4	12	24-Oct-12	06-Nov-12
1011-1910.60	Pier F7 Dolphin Socketed H-Pile 6	12	07-Nov-12	20-Nov-12
1011-2030	Dismantle Piling Platform at Pier F7	6	21-Nov-12	27-Nov-12
1011-2270	F7 Pile Cap Construction	18	12-Dec-12	03-Jan-13
1011-1862.10	Pier F8 Dolphin Socketed H-Pile 1	10	14-Aug-12 A	02-Oct-12
1011-1862.11	Pier F8 Dolphin Socketed H-Pile 2	12	14-Aug-12 A	04-Oct-12
1011-1862.12	Pier F8 Dolphin Socketed H-Pile 3	14	15-Aug-12 A	06-Oct-12
1011-1862.13	Pier F8 Dolphin Socketed H-Pile 5	16	15-Aug-12 A	09-Oct-12
1011-1862.14	Pier F8 Dolphin Socketed H-Pile 4	12	21-Nov-12	04-Dec-12
1011-1862.15	Pier F8 Dolphin Socketed H-Pile 6	12	05-Dec-12	18-Dec-12
1011-1806	Pier F9 Marine Bored Pile (Low Headroom)	9	20-Aug-12 A	29-Sep-12
1011-2120	Marine bored pile testing F9	18	02-Oct-12	22-Oct-12
1011-1802	Pier F9 Dolphin Socketed H-Pile (6 nos.)	42	14-Nov-12	03-Jan-13
1011-1981	Pier F10 Marine Bored Pile (Low Headroom)	24	07-Sep-12 A	18-Oct-12
1011-2125	Marine bored pile testing F10	18	19-Oct-12	09-Nov-12
1011-2130	Marine bored pile testing F11	12	20-Sep-12	04-Oct-12
1011-1827	Pier F12 Marine Bored Pile (Low Headroom)	35	19-Oct-12	29-Nov-12
1011-2135	Marine bored pile testing F12	18	30-Nov-12	20-Dec-12
1011-1900	Pier F13 Marine Bored Pile	0	08-Aug-12 A	31-Aug-12 A
1011-1905	Pier F13 Marine Bored Pile (Low Headroom)	35	30-Nov-12	11-Jan-13
1011-1785	Pier F14 Marine Bored Pile	0	14-Aug-12 A	04-Sep-12 A
Pier F01 to F02				
1011-2752	Marine bored pile F1A-4	0	04-Aug-12 A	23-Aug-12 A
1011-2753	Marine bored pile F1A-3	0	25-Aug-12 A	06-Sep-12 A
1011-2730	Dolphin socketed H-pile pier F1-P1	21	20-Sep-12	15-Oct-12
1011-2732	Dolphin socketed H-pile pier F1-P2	24	20-Sep-12	18-Oct-12
1011-2735	Dolphin socketed H-pile pier F1-P3	27	20-Sep-12	22-Oct-12



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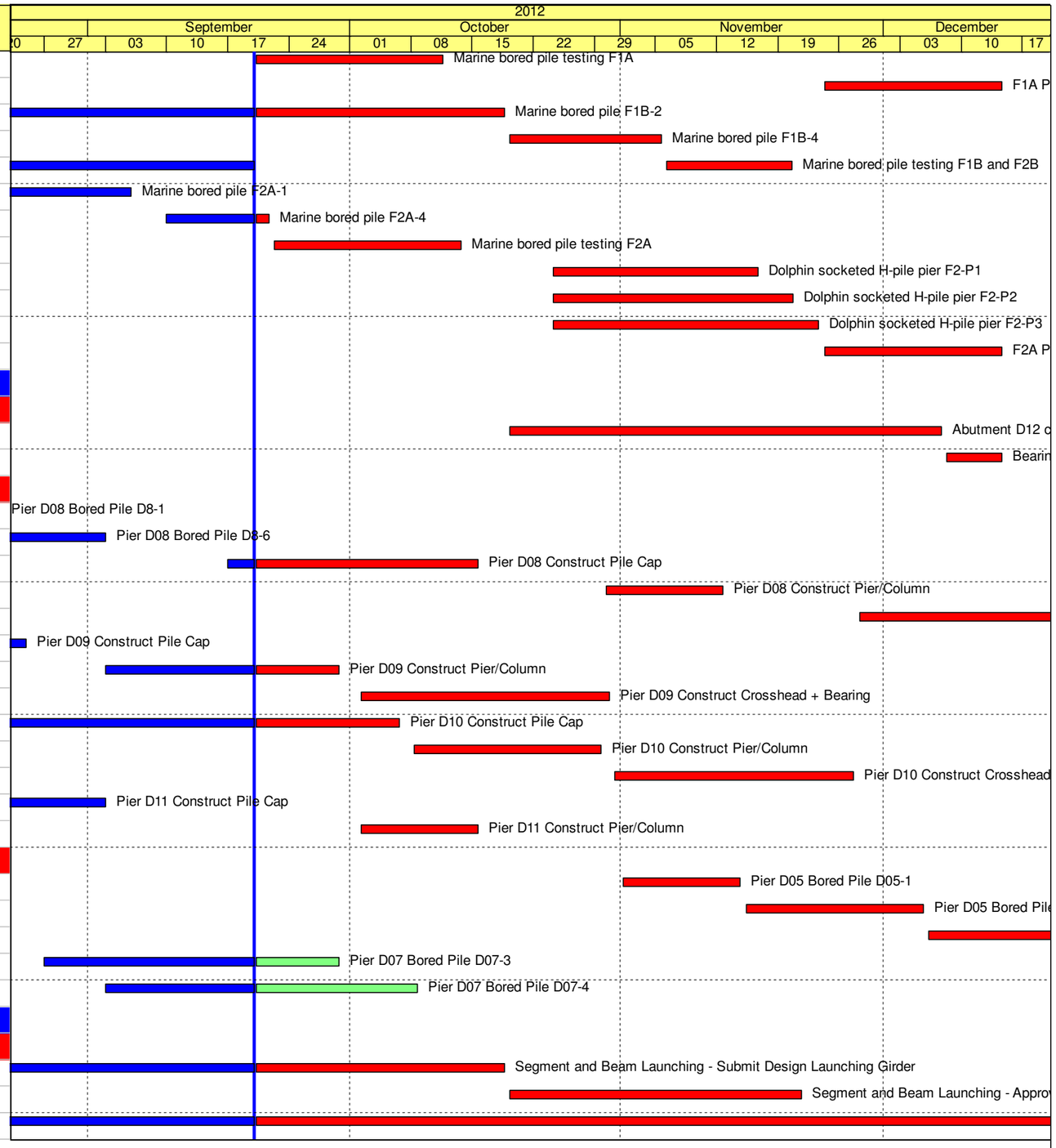
Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-2760	Marine bored pile testing F1A	18	20-Sep-12	11-Oct-12
1011-2860	F1A Pile Cap Construction	18	24-Nov-12	14-Dec-12
1011-2780	Marine bored pile F1B-2	24	16-May-12 A	18-Oct-12
1011-2783	Marine bored pile F1B-4	14	19-Oct-12	05-Nov-12
1011-2790	Marine bored pile testing F1B and F2B	13	12-May-12 A	20-Nov-12
1011-2742	Marine bored pile F2A-1	0	21-Aug-12 A	06-Sep-12 A
1011-2743	Marine bored pile F2A-4	2	10-Sep-12 A	21-Sep-12
1011-2745	Marine bored pile testing F2A	18	22-Sep-12	13-Oct-12
1011-2720	Dolphin socketed H-pile pier F2-P1	21	24-Oct-12	16-Nov-12
1011-2940	Dolphin socketed H-pile pier F2-P2	24	24-Oct-12	20-Nov-12
1011-2950	Dolphin socketed H-pile pier F2-P3	27	24-Oct-12	23-Nov-12
1011-2800	F2A Pile Cap Construction	18	24-Nov-12	14-Dec-12
10.1.2 - Land Pier Construction				
Abutment D12				
1012-1220	Abutment D12 construction (E/B Bridge)	42	19-Oct-12	07-Dec-12
1012-1240	Bearing installation (D12) at III (E/B)	6	08-Dec-12	14-Dec-12
Pier D08 to D11				
1012-1030.30	Pier D08 Bored Pile D8-1	0	11-Aug-12 A	22-Aug-12 A
1012-1030.40	Pier D08 Bored Pile D8-6	0	06-Aug-12 A	03-Sep-12 A
1012-1100	Pier D08 Construct Pile Cap	21	17-Sep-12 A	15-Oct-12
1012-1110	Pier D08 Construct Pier/Column	12	30-Oct-12	12-Nov-12
1012-1120	Pier D08 Construct Crosshead + Bearing	24	28-Nov-12	26-Dec-12
1012-1130	Pier D09 Construct Pile Cap	0	01-Jun-12 A	25-Aug-12 A
1012-1140	Pier D09 Construct Pier/Column	9	03-Sep-12 A	29-Sep-12
1012-1150	Pier D09 Construct Crosshead + Bearing	24	02-Oct-12	30-Oct-12
1012-1160	Pier D10 Construct Pile Cap	14	25-Jun-12 A	06-Oct-12
1012-1170	Pier D10 Construct Pier/Column	18	08-Oct-12	29-Oct-12
1012-1180	Pier D10 Construct Crosshead + Bearing	24	31-Oct-12	27-Nov-12
1012-1190	Pier D11 Construct Pile Cap	0	12-Jun-12 A	03-Sep-12 A
1012-1200	Pier D11 Construct Pier/Column	12	02-Oct-12	15-Oct-12
Pier D05 to D07				
1012-1290.20	Pier D05 Bored Pile D05-1	12	01-Nov-12*	14-Nov-12
1012-1300	Pier D05 Bored Piles Testing	18	15-Nov-12	05-Dec-12
1012-1310	Pier D06 Construct Pile Cap	18	06-Dec-12	27-Dec-12
1012-1274	Pier D07 Bored Pile D07-3	9	27-Aug-12 A	29-Sep-12
1012-1275	Pier D07 Bored Pile D07-4	15	03-Sep-12 A	08-Oct-12
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1000.20	Segment and Beam Launching - Submit Design Launching Girder	24	14-May-12 A	18-Oct-12
1013-1000.30	Segment and Beam Launching - Approve Design Launching Girder	28	19-Oct-12	21-Nov-12
1013-1010	Segment and Beam Launching - Fabricate Launching Girder	85	11-Jun-12 A	31-Dec-12



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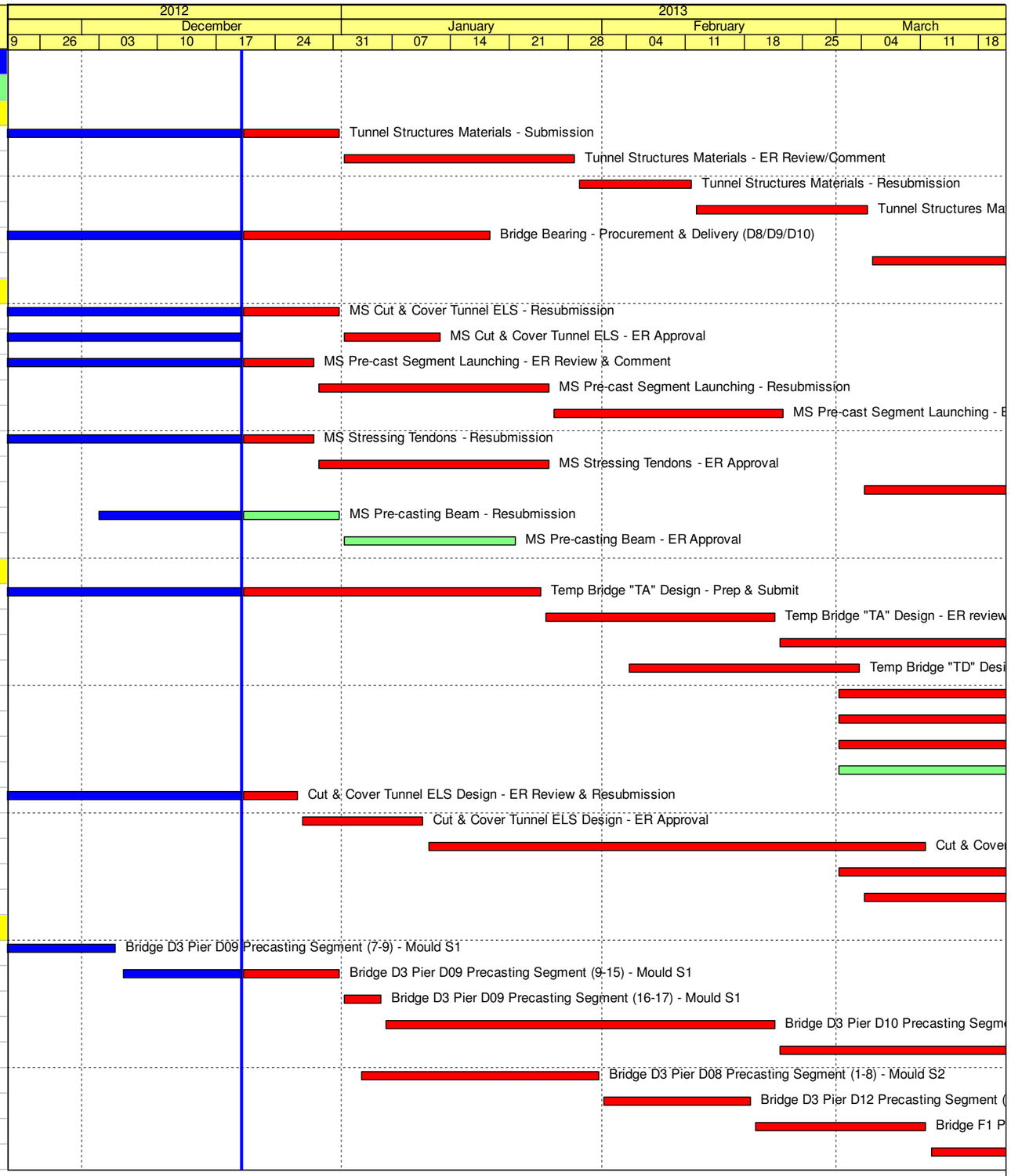
Contract HY/2009/19

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)

3MRP

3MRP - SEP 2012 to DEC 2012

Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - DEC 2012 to Mar 2013				
02 - PRE-CONSTRUCTION WORKS				
02.2 - Contractor's Submission				
0220-1360	Tunnel Structures Materials - Submission	12	19-Jul-12 A	31-Dec-12
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	01-Jan-13	28-Jan-13
0220-1380	Tunnel Structures Materials - Resubmission	14	29-Jan-13	11-Feb-13
0220-1390	Tunnel Structures Materials - ER Approval	21	12-Feb-13	04-Mar-13
0220-1500	Bridge Bearing - Procurement & Delivery (D8/D9/D10)	30	24-Sep-12 A	18-Jan-13*
0220-1400	Tunnel Structures Materials - Procurement & Delivery	60	05-Mar-13	03-May-13
02.3 - Method Statement / Shop Drawings				
0230-1280	MS Cut & Cover Tunnel ELS - Resubmission	12	13-Jul-12 A	31-Dec-12
0230-1290	MS Cut & Cover Tunnel ELS - ER Approval	12	07-Aug-12 A	12-Jan-13
0230-1350	MS Pre-cast Segment Launching - ER Review & Comment	9	20-Sep-12 A	28-Dec-12
0230-1360	MS Pre-cast Segment Launching - Resubmission	28	29-Dec-12	25-Jan-13
0230-1370	MS Pre-cast Segment Launching - ER Approval	28	26-Jan-13	22-Feb-13
0230-1480	MS Stressing Tendons - Resubmission	9	08-Aug-12 A	28-Dec-12
0230-1490	MS Stressing Tendons - ER Approval	28	29-Dec-12	25-Jan-13
0230-1580	MS Interim & Permanent Noise Semi Enclosure - Submission	28	04-Mar-13*	31-Mar-13
0230-1320	MS Pre-casting Beam - Resubmission	12	03-Dec-12 A	31-Dec-12
0230-1330	MS Pre-casting Beam - ER Approval	21	01-Jan-13	21-Jan-13
02.4 - Contractor's Design and Build Items				
0240-1010	Temp Bridge "TA" Design - Prep & Submit	36	16-Dec-11 A	24-Jan-13
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	25-Jan-13	21-Feb-13
0240-1030	Temp Bridge "TA" Design - Resubmission	45	22-Feb-13	07-Apr-13
0240-1041	Temp Bridge "TD" Design - Submission	28	04-Feb-13*	03-Mar-13
0240-1105	Int. Noise Enclosure Structural Design - Submission	60	01-Mar-13*	29-Apr-13
0240-1126	Noise Barrier Design Structural Design - Submission	60	01-Mar-13*	29-Apr-13
0240-1150	Perm. Noise Enclosure Structural Design - Submission	60	01-Mar-13	29-Apr-13
0240-1270	Landscaping Design - Submission	90	01-Mar-13*	29-May-13
0240-1376	Cut & Cover Tunnel ELS Design - ER Review & Resubmission	7	14-Jun-12 A	26-Dec-12
0240-1377	Cut & Cover Tunnel ELS Design - ER Approval	15	27-Dec-12	10-Jan-13
0240-1379	Cut & Cover Tunnel ELS Fabrication	60	11-Jan-13	11-Mar-13
0240-1050	Temp Bridge "TB" & "TC" Design - Prep & Submit	120	01-Mar-13*	28-Jun-13
0240-1042	Temp Bridge "TD" Design - ER review and comment	28	04-Mar-13	31-Mar-13
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-1600.02	Bridge D3 Pier D09 Precasting Segment (7-9) - Mould S1	0	16-Nov-12 A	05-Dec-12 A
0250-1600.03	Bridge D3 Pier D09 Precasting Segment (9-15) - Mould S1	12	06-Dec-12 A	31-Dec-12
0250-1600.04	Bridge D3 Pier D09 Precasting Segment (16-17) - Mould S1	5	01-Jan-13	05-Jan-13
0250-1600.06	Bridge D3 Pier D10 Precasting Segment (1-17) - Mould S1	47	06-Jan-13	21-Feb-13
0250-1600.07	Bridge D3 Pier D11 Precasting Segment (1-17) - Mould S1	47	22-Feb-13	09-Apr-13
0250-1650.01	Bridge D3 Pier D08 Precasting Segment (1-8) - Mould S2	29	03-Jan-13*	31-Jan-13
0250-1650.02	Bridge D3 Pier D12 Precasting Segment (1-4) - Mould S2	18	01-Feb-13	18-Feb-13
0250-1650.03	Bridge F1 Pier F03 Precasting Segment (1-5) - Mould S2	21	19-Feb-13	11-Mar-13
0250-1650.04	Bridge F1 Pier F03 Precasting Segment (1-5) - Mould S2	21	12-Mar-13	01-Apr-13



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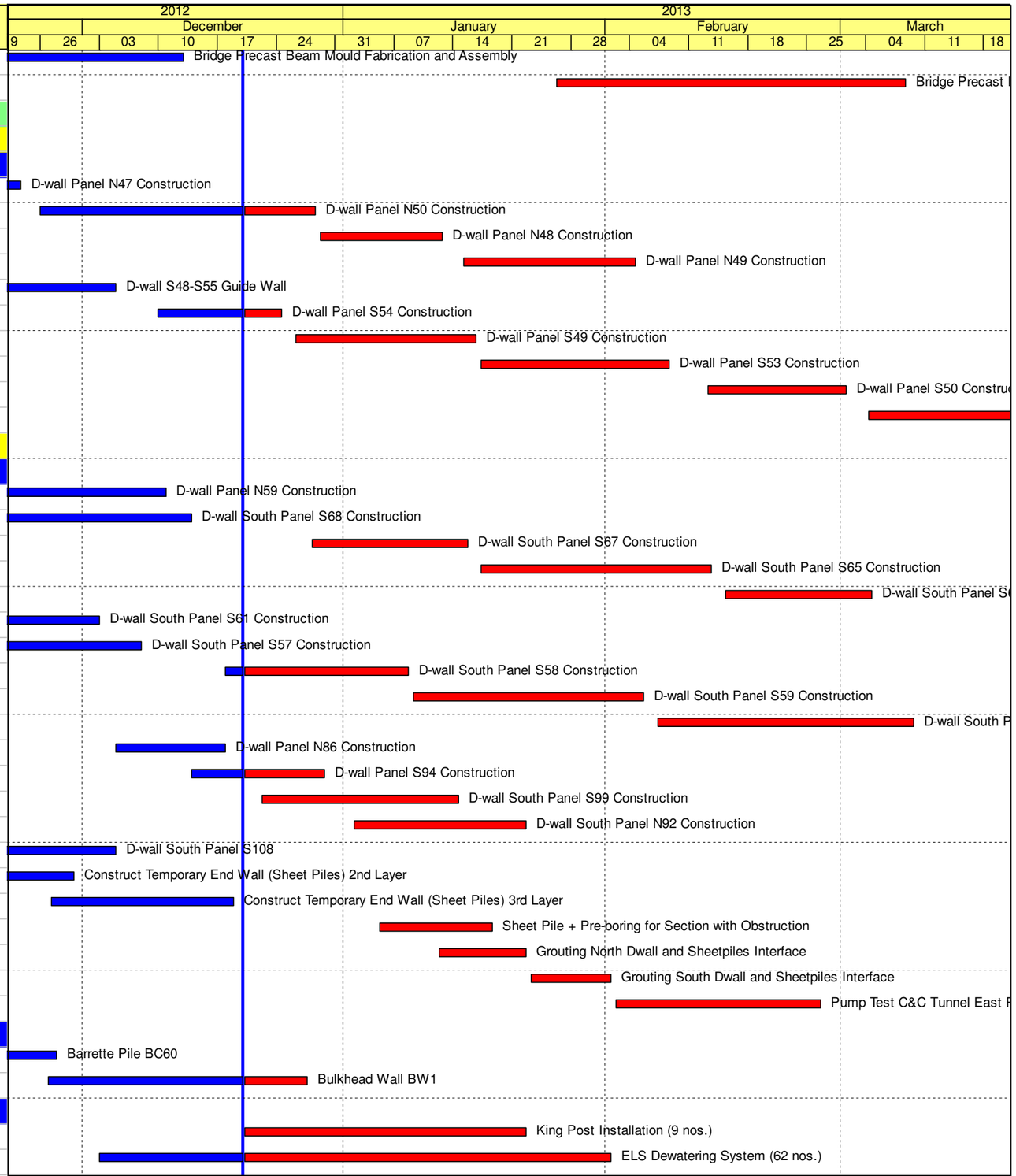
Three Month Rolling Programme (20 DEC 2012 to 19 MAR 2013)

3MRP

3MRP - DEC 2012 to Mar 2013

Activity ID	Activity Name	Rem Dur	Start	Finish
0250-1695	Bridge Precast Beam Mould Fabrication and Assembly	0	29-Oct-12 A	13-Dec-12 A
0250-1700	Bridge Precast Beam Casting Bridge F4/F5 (10 nos)	42	26-Jan-13*	08-Mar-13
05 - SECTION 2 & 2A OF THE WORKS				
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)				
05.1.1 - D-Wall Construction				
0511-1055	D-wall Panel N47 Construction	0	09-Nov-12 A	23-Nov-12 A
0511-1052	D-wall Panel N50 Construction	7	26-Nov-12 A	28-Dec-12
0511-1053	D-wall Panel N48 Construction	12	29-Dec-12	12-Jan-13
0511-1054	D-wall Panel N49 Construction	18	15-Jan-13	04-Feb-13
0511-1065	D-wall S48-S55 Guide Wall	0	20-Sep-12 A	05-Dec-12 A
0511-1072	D-wall Panel S54 Construction	4	10-Dec-12 A	24-Dec-12
0511-1073	D-wall Panel S49 Construction	18	26-Dec-12	16-Jan-13
0511-1074	D-wall Panel S53 Construction	20	17-Jan-13	08-Feb-13
0511-1076	D-wall Panel S50 Construction	15	13-Feb-13	01-Mar-13
0511-1077	D-wall Panel S51 Construction	20	04-Mar-13	26-Mar-13
05.2 - Cut & Cover Tunnel Ch 4932-5149				
05.2.1 - D-Wall Construction				
0521-1835.30	D-wall Panel N59 Construction	0	10-Nov-12 A	11-Dec-12 A
0521-1990.65	D-wall South Panel S68 Construction	0	09-Oct-12 A	14-Dec-12 A
0521-1990.66	D-wall South Panel S67 Construction	15	28-Dec-12	15-Jan-13
0521-1990.67	D-wall South Panel S65 Construction	21	17-Jan-13	13-Feb-13
0521-1990.68	D-wall South Panel S66 Construction	15	15-Feb-13	04-Mar-13
0521-1990.70	D-wall South Panel S61 Construction	0	01-Nov-12 A	03-Dec-12 A
0521-1990.71	D-wall South Panel S57 Construction	0	14-Nov-12 A	08-Dec-12 A
0521-1990.72	D-wall South Panel S58 Construction	15	18-Dec-12 A	08-Jan-13
0521-1990.73	D-wall South Panel S59 Construction	24	09-Jan-13	05-Feb-13
0521-1990.74	D-wall South Panel S60 Construction	24	07-Feb-13	09-Mar-13
0521-1750.45	D-wall Panel N86 Construction	0	05-Dec-12 A	18-Dec-12 A
0521-1710.35	D-wall Panel S94 Construction	8	14-Dec-12 A	29-Dec-12
0521-1990.17	D-wall South Panel S99 Construction	18	22-Dec-12	14-Jan-13
0521-1990.30	D-wall South Panel N92 Construction	18	02-Jan-13	22-Jan-13
0521-1990.31	D-wall South Panel S108	0	12-Nov-12 A	05-Dec-12 A
0521-1642	Construct Temporary End Wall (Sheet Piles) 2nd Layer	0	20-Nov-12 A	30-Nov-12 A
0521-1943	Construct Temporary End Wall (Sheet Piles) 3rd Layer	0	27-Nov-12 A	19-Dec-12 A
0521-1945	Sheet Pile + Pre-boring for Section with Obstruction	12	05-Jan-13	18-Jan-13
0521-1946	Grouting North Dwall and Sheetpiles Interface	9	12-Jan-13	22-Jan-13
0521-2185	Grouting South Dwall and Sheetpiles Interface	9	23-Jan-13	01-Feb-13
0521-2175	Pump Test C&C Tunnel East Part	18	02-Feb-13	26-Feb-13
05.2.2 - Barrette Construction				
0522-2210.69	Barrette Pile BC60	0	19-Nov-12 A	28-Nov-12 A
0522-2215.10	Bulkhead Wall BW1	6	27-Nov-12 A	27-Dec-12
05.2.3 - ELS				
0524-2872	King Post Installation (9 nos.)	27	20-Dec-12	22-Jan-13
0524-2875	ELS Dewatering System (62 nos.)	36	03-Dec-12 A	01-Feb-13



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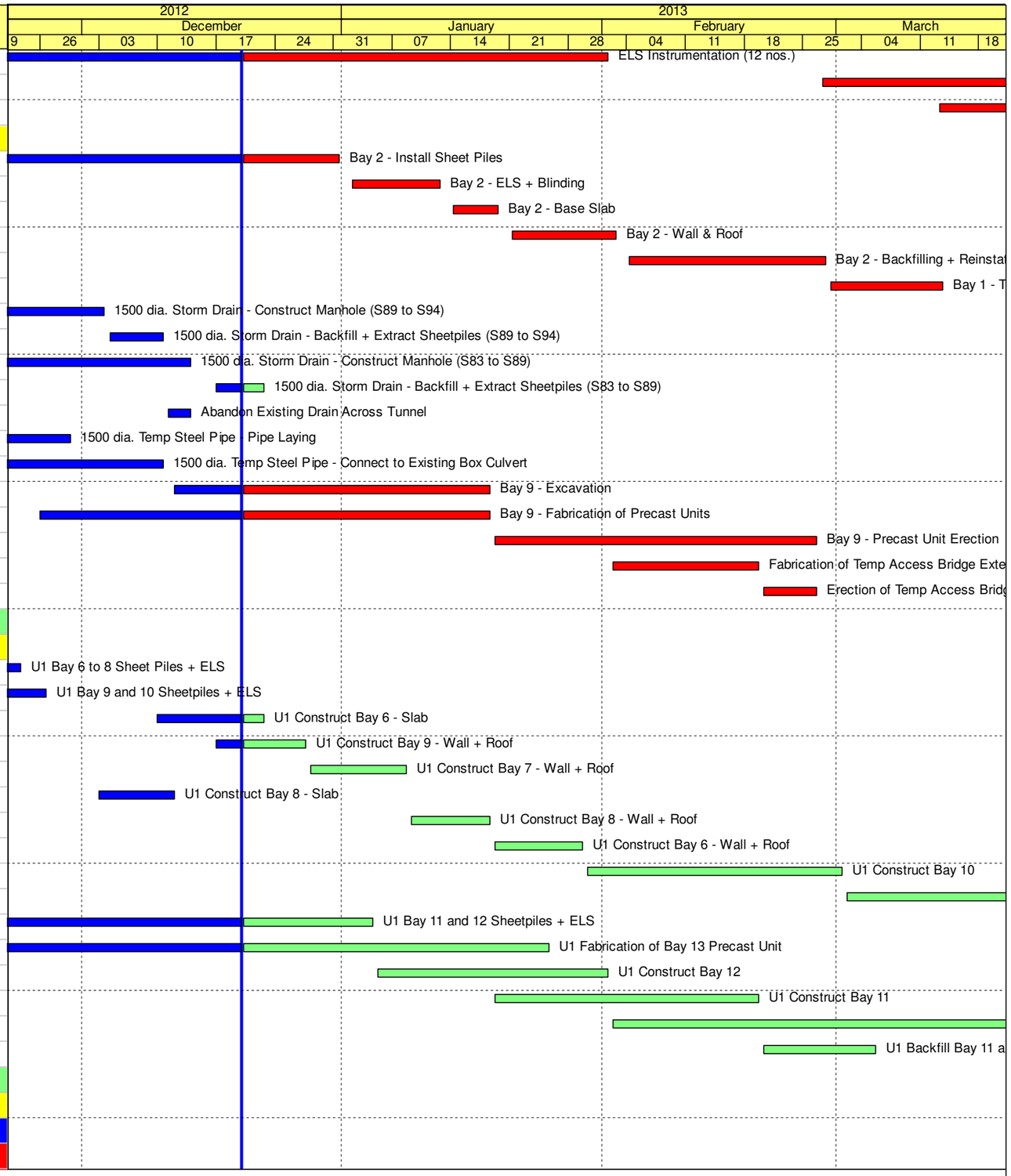
Three Month Rolling Programme (20 DEC 2012 to 19 MAR 2013)

3MRP

3MRP - DEC 2012 to Mar 2013

Activity ID	Activity Name	Rem Dur	Start	Finish
0524-2878	ELS Instrumentation (12 nos.)	36	05-Nov-12 A	01-Feb-13
0524-2881	Tunnel ELS - Phase 1 Zone 1	21	27-Feb-13	22-Mar-13
0524-2882	Tunnel ELS - Phase 1 Zone 2	14	13-Mar-13	28-Mar-13
05.3 - Box Culvert T1				
0530-3065	Bay 2 - Install Sheet Piles	9	13-Nov-12 A	31-Dec-12
0530-3071	Bay 2 - ELS + Blinding	10	02-Jan-13	12-Jan-13
0530-3072	Bay 2 - Base Slab	6	14-Jan-13	19-Jan-13
0530-3073	Bay 2 - Wall & Roof	12	21-Jan-13	02-Feb-13
0530-3074	Bay 2 - Backfilling + Reinstatement	18	04-Feb-13	27-Feb-13
0530-3076	Bay 1 - TTM Implementation + Clearance	12	28-Feb-13	13-Mar-13
0530-3305	1500 dia. Storm Drain - Construct Manhole (S89 to S94)	0	20-Nov-12 A	03-Dec-12 A
0530-3308	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S89 to S94)	0	04-Dec-12 A	10-Dec-12 A
0530-3326	1500 dia. Storm Drain - Construct Manhole (S83 to S89)	0	21-Nov-12 A	14-Dec-12 A
0530-3327	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S83 to S89)	3	17-Dec-12 A	22-Dec-12
0530-3328	Abandon Existing Drain Across Tunnel	0	11-Dec-12 A	14-Dec-12 A
0530-3348	1500 dia. Temp Steel Pipe - Pipe Laying	0	20-Nov-12 A	29-Nov-12 A
0530-3358	1500 dia. Temp Steel Pipe - Connect to Existing Box Culvert	0	05-Nov-12 A	10-Dec-12 A
0530-3112	Bay 9 - Excavation	24	12-Dec-12 A	18-Jan-13
0530-3113	Bay 9 - Fabrication of Precast Units	24	26-Nov-12 A	18-Jan-13
0530-3114	Bay 9 - Precast Unit Erection	30	19-Jan-13	26-Feb-13
0530-3117	Fabrication of Temp Access Bridge Extension Across U-channel	12	02-Feb-13	19-Feb-13
0530-3118	Erection of Temp Access Bridge extension Across U-channel	6	20-Feb-13	26-Feb-13
06 - SECTION 3 OF THE WORKS				
06.2 - Box Culvert U1				
0620-2390	U1 Bay 6 to 8 Sheet Piles + ELS	0	30-Jul-12 A	23-Nov-12 A
0620-2450	U1 Bay 9 and 10 Sheetpiles + ELS	0	13-Sep-12 A	26-Nov-12 A
0620-2400	U1 Construct Bay 6 - Slab	3	10-Dec-12 A	22-Dec-12
0620-2475	U1 Construct Bay 9 - Wall + Roof	6	17-Dec-12 A	27-Dec-12
0620-2415	U1 Construct Bay 7 - Wall + Roof	9	28-Dec-12	08-Jan-13
0620-2420	U1 Construct Bay 8 - Slab	0	03-Dec-12 A	12-Dec-12 A
0620-2425	U1 Construct Bay 8 - Wall + Roof	9	09-Jan-13	18-Jan-13
0620-2405	U1 Construct Bay 6 - Wall + Roof	9	19-Jan-13	29-Jan-13
0620-2460	U1 Construct Bay 10	24	30-Jan-13	01-Mar-13
0620-2430	U1 Construct Bay 5	24	02-Mar-13	30-Mar-13
0620-2480	U1 Bay 11 and 12 Sheetpiles + ELS	12	07-Nov-12 A	04-Jan-13
0620-2515	U1 Fabrication of Bay 13 Precast Unit	30	05-Nov-12 A	25-Jan-13
0620-2490	U1 Construct Bay 12	24	05-Jan-13	01-Feb-13
0620-2500	U1 Construct Bay 11	24	19-Jan-13	19-Feb-13
0620-2520	U1 Construct Bay 13 (Outfall)	45	02-Feb-13	30-Mar-13
0620-2510	U1 Backfill Bay 11 and 12 + Extract Sheetpiles	12	20-Feb-13	05-Mar-13
10 - SECTION X OF THE WORKS				
10.1 - E/B Bridges (Bridge D, E and F)				
10.1.1 - Marine Pier Construction				
Pier F03 to F15				



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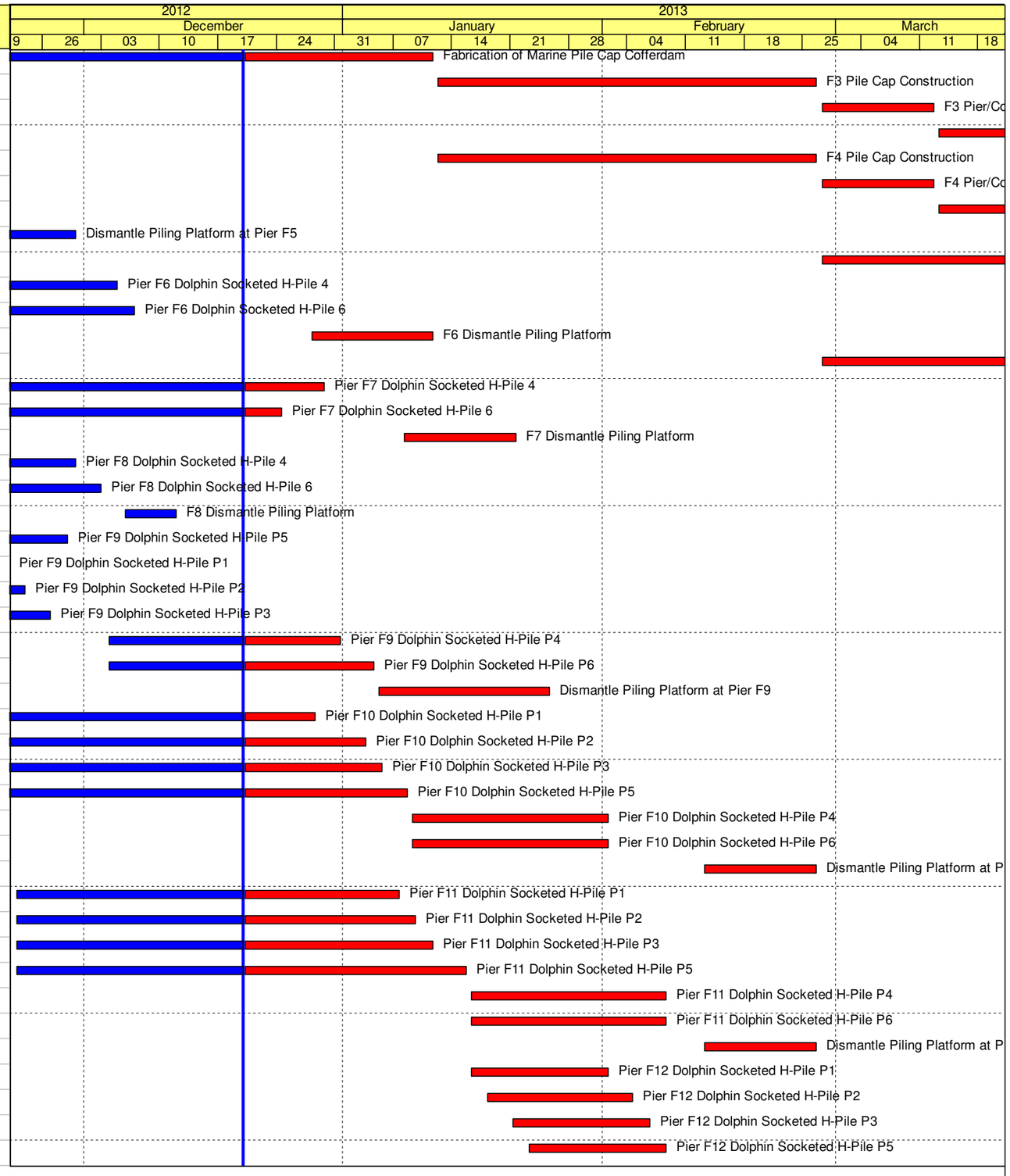
Three Month Rolling Programme (20 DEC 2012 to 19 MAR 2013)

3MRP

3MRP - DEC 2012 to Mar 2013

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-1995	Fabrication of Marine Pile Cap Cofferdam	18	04-Oct-12 A	11-Jan-13
1011-2150	F3 Pile Cap Construction	36	12-Jan-13	26-Feb-13
1011-2160	F3 Pier/Column Construction	12	27-Feb-13	12-Mar-13
1011-2170	F3 Crosshead Construction + Bearing	24	13-Mar-13	12-Apr-13
1011-2180	F4 Pile Cap Construction	36	12-Jan-13	26-Feb-13
1011-2190	F4 Pier/Column Construction	12	27-Feb-13	12-Mar-13
1011-2200	F4 Crosshead Construction + Bearing	24	13-Mar-13	12-Apr-13
1011-2010	Dismantle Piling Platform at Pier F5	0	20-Nov-12 A	30-Nov-12 A
1011-2210	F5 Pile Cap Construction	30	27-Feb-13	04-Apr-13
1011-1790.50	Pier F6 Dolphin Socketed H-Pile 4	0	03-Nov-12 A	05-Dec-12 A
1011-1790.60	Pier F6 Dolphin Socketed H-Pile 6	0	03-Nov-12 A	07-Dec-12 A
1011-2020	F6 Dismantle Piling Platform	12	28-Dec-12	11-Jan-13
1011-2240	F6 Pile Cap Construction	30	27-Feb-13	04-Apr-13
1011-1910.50	Pier F7 Dolphin Socketed H-Pile 4	8	19-Nov-12 A	29-Dec-12
1011-1910.60	Pier F7 Dolphin Socketed H-Pile 6	4	19-Nov-12 A	24-Dec-12
1011-2030	F7 Dismantle Piling Platform	12	08-Jan-13	21-Jan-13
1011-1862.14	Pier F8 Dolphin Socketed H-Pile 4	0	17-Oct-12 A	30-Nov-12 A
1011-1862.15	Pier F8 Dolphin Socketed H-Pile 6	0	16-Oct-12 A	03-Dec-12 A
1011-2040	F8 Dismantle Piling Platform	0	06-Dec-12 A	12-Dec-12 A
1011-0802.5	Pier F9 Dolphin Socketed H-Pile P5	0	08-Oct-12 A	29-Nov-12 A
1011-1802.1	Pier F9 Dolphin Socketed H-Pile P1	0	27-Oct-12 A	22-Nov-12 A
1011-1802.2	Pier F9 Dolphin Socketed H-Pile P2	0	09-Oct-12 A	24-Nov-12 A
1011-1802.3	Pier F9 Dolphin Socketed H-Pile P3	0	08-Oct-12 A	27-Nov-12 A
1011-0802.4	Pier F9 Dolphin Socketed H-Pile P4	9	04-Dec-12 A	31-Dec-12
1011-0802.6	Pier F9 Dolphin Socketed H-Pile P6	12	04-Dec-12 A	04-Jan-13
1011-2050	Dismantle Piling Platform at Pier F9	18	05-Jan-13	25-Jan-13
1011-1970.1	Pier F10 Dolphin Socketed H-Pile P1	7	15-Nov-12 A	28-Dec-12
1011-1970.2	Pier F10 Dolphin Socketed H-Pile P2	11	15-Nov-12 A	03-Jan-13
1011-1970.3	Pier F10 Dolphin Socketed H-Pile P3	13	15-Nov-12 A	05-Jan-13
1011-1970.4	Pier F10 Dolphin Socketed H-Pile P5	15	15-Nov-12 A	08-Jan-13
1011-1970.5	Pier F10 Dolphin Socketed H-Pile P4	21	09-Jan-13	01-Feb-13
1011-1970.6	Pier F10 Dolphin Socketed H-Pile P6	21	09-Jan-13	01-Feb-13
1011-2060	Dismantle Piling Platform at Pier F10	12	13-Feb-13	26-Feb-13
1011-1770.1	Pier F11 Dolphin Socketed H-Pile P1	14	23-Nov-12 A	07-Jan-13
1011-1770.2	Pier F11 Dolphin Socketed H-Pile P2	16	23-Nov-12 A	09-Jan-13
1011-1770.3	Pier F11 Dolphin Socketed H-Pile P3	18	23-Nov-12 A	11-Jan-13
1011-1770.4	Pier F11 Dolphin Socketed H-Pile P5	21	23-Nov-12 A	15-Jan-13
1011-1770.5	Pier F11 Dolphin Socketed H-Pile P4	21	16-Jan-13	08-Feb-13
1011-1770.6	Pier F11 Dolphin Socketed H-Pile P6	21	16-Jan-13	08-Feb-13
1011-2070	Dismantle Piling Platform at Pier F11	12	13-Feb-13	26-Feb-13
1011-1822.1	Pier F12 Dolphin Socketed H-Pile P1	15	16-Jan-13	01-Feb-13
1011-1822.2	Pier F12 Dolphin Socketed H-Pile P2	15	18-Jan-13	04-Feb-13
1011-1822.3	Pier F12 Dolphin Socketed H-Pile P3	15	21-Jan-13	06-Feb-13
1011-1822.4	Pier F12 Dolphin Socketed H-Pile P5	15	23-Jan-13	08-Feb-13



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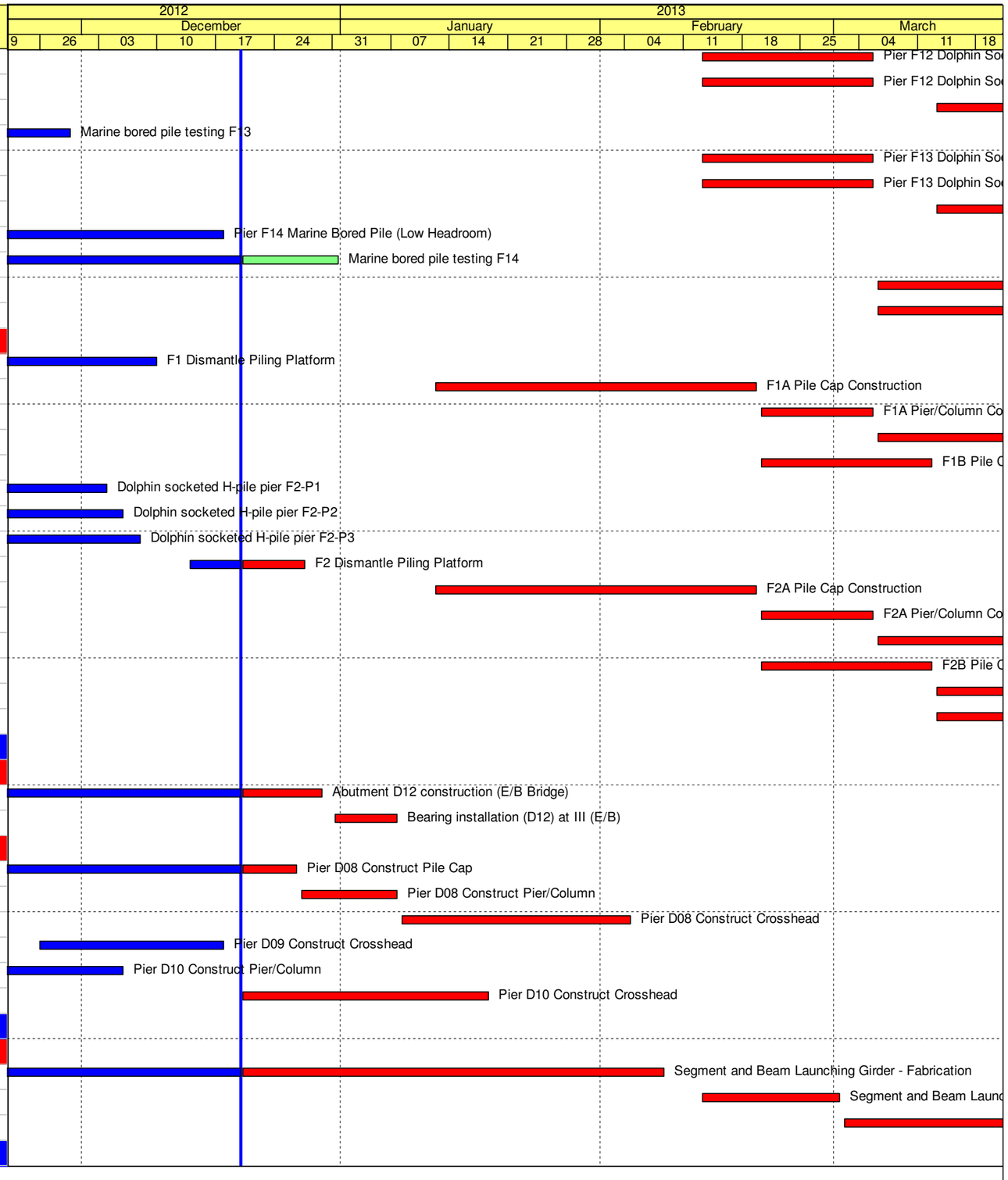
Activity ID	Activity Name	Rem Dur	Start	Finish
1011-1822.5	Pier F12 Dolphin Socketed H-Pile P4	18	13-Feb-13	05-Mar-13
1011-1822.6	Pier F12 Dolphin Socketed H-Pile P6	18	13-Feb-13	05-Mar-13
1011-2075	Dismantle Piling Platform at Pier F12	12	13-Mar-13	26-Mar-13
1011-2140	Marine bored pile testing F13	0	18-Sep-12 A	29-Nov-12 A
1011-1890.50	Pier F13 Dolphin Socketed H-Pile 4	18	13-Feb-13*	05-Mar-13
1011-1890.60	Pier F13 Dolphin Socketed H-Pile 6	18	13-Feb-13	05-Mar-13
1011-2080	Dismantle Piling Platform at Pier F13	12	13-Mar-13	26-Mar-13
1011-1786	Pier F14 Marine Bored Pile (Low Headroom)	0	02-Nov-12 A	18-Dec-12 A
1011-2145	Marine bored pile testing F14	9	24-Sep-12 A	31-Dec-12
1011-1782.50	Pier F14 Dolphin Socketed H-Pile 4	18	06-Mar-13	26-Mar-13
1011-1782.60	Pier F14 Dolphin Socketed H-Pile 6	18	06-Mar-13	26-Mar-13
Pier F01 to F02				
1011-2765	F1 Dismantle Piling Platform	0	19-Nov-12 A	10-Dec-12 A
1011-2860	F1A Pile Cap Construction	30	12-Jan-13	19-Feb-13
1011-2870	F1A Pier/Column Construction	12	20-Feb-13	05-Mar-13
1011-2880	F1A Crosshead Construction + Bearing	24	06-Mar-13	04-Apr-13
1011-2890	F1B Pile Cap Construction	18	20-Feb-13	12-Mar-13
1011-2720	Dolphin socketed H-pile pier F2-P1	0	27-Oct-12 A	04-Dec-12 A
1011-2940	Dolphin socketed H-pile pier F2-P2	0	27-Oct-12 A	06-Dec-12 A
1011-2950	Dolphin socketed H-pile pier F2-P3	0	27-Oct-12 A	08-Dec-12 A
1011-2955	F2 Dismantle Piling Platform	6	14-Dec-12 A	27-Dec-12
1011-2800	F2A Pile Cap Construction	30	12-Jan-13	19-Feb-13
1011-2810	F2A Pier/Column Construction	12	20-Feb-13	05-Mar-13
1011-2820	F2A Crosshead Construction + Bearing	24	06-Mar-13	04-Apr-13
1011-2830	F2B Pile Cap Construction	18	20-Feb-13	12-Mar-13
1011-2840	F2B Pier/Column Construction	12	13-Mar-13	26-Mar-13
1011-2900	F1B Pier/Column Construction	12	13-Mar-13	26-Mar-13
10.1.2 - Land Pier Construction				
Abutment D12				
1012-1220	Abutment D12 construction (E/B Bridge)	8	03-Oct-12 A	29-Dec-12
1012-1240	Bearing installation (D12) at III (E/B)	6	31-Dec-12	07-Jan-13
Pier D08 to D11				
1012-1100	Pier D08 Construct Pile Cap	5	17-Sep-12 A	26-Dec-12
1012-1110	Pier D08 Construct Pier/Column	9	27-Dec-12	07-Jan-13
1012-1120	Pier D08 Construct Crosshead	24	08-Jan-13	04-Feb-13
1012-1150	Pier D09 Construct Crosshead	0	26-Nov-12 A	18-Dec-12 A
1012-1170	Pier D10 Construct Pier/Column	0	20-Nov-12 A	06-Dec-12 A
1012-1180	Pier D10 Construct Crosshead	24	20-Dec-12	18-Jan-13
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1010	Segment and Beam Launching Girder - Fabrication	42	05-Nov-12 A	08-Feb-13
1013-1012	Segment and Beam Launching Girder - Off-Site launching Trial	15	13-Feb-13	01-Mar-13
1013-1015	Segment and Beam Launching Girder - Deliver to Site	18	02-Mar-13	22-Mar-13
10.1.4 - Bridge E / Hing Fat Slip Road				



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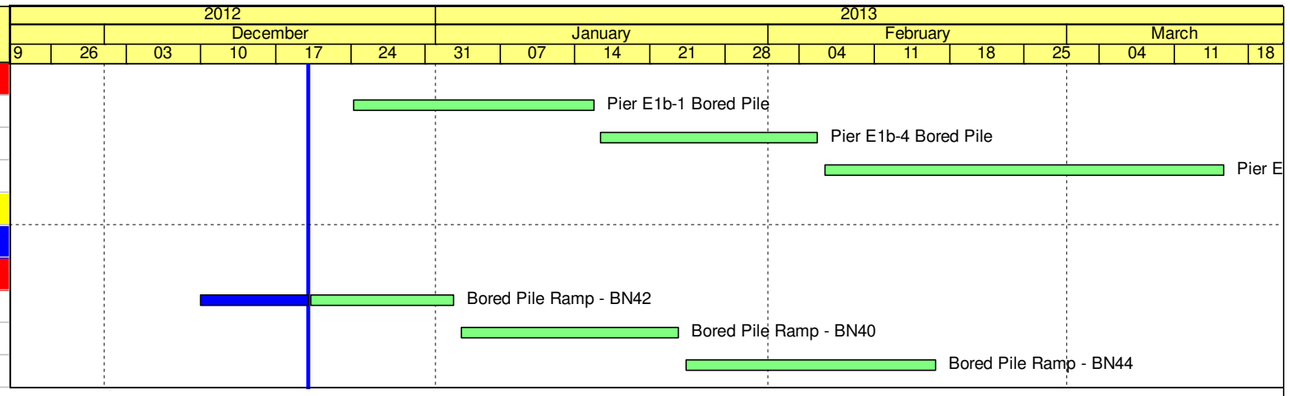
Activity ID	Activity Name	Rem Dur	Start	Finish
Pier Construction				
1014-1010	Pier E1b-1 Bored Pile	18	24-Dec-12	15-Jan-13
1014-1220	Pier E1b-4 Bored Pile	18	16-Jan-13	05-Feb-13
1014-1230	Pier E1b-3 Bored Pile	30	06-Feb-13	15-Mar-13
10.6 - Tunnel Approach Ramp				
10.6.1 - Approach Ramp (Excluding Portion IIB)				
Bored Piles				
1061-1051	Bored Pile Ramp - BN42	10	10-Dec-12 A	02-Jan-13
1061-1490	Bored Pile Ramp - BN40	18	03-Jan-13	23-Jan-13
1061-1500	Bored Pile Ramp - BN44	18	24-Jan-13	16-Feb-13



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