CONTRACT NO: HK/2009/05

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 1)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 AND FEP-05/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- MAY 2011 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

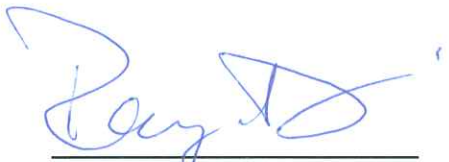
PREPARED BY:

Lam Geotechnics Limited

11/F Centre Point
181-185 Gloucester Road,
Wanchai, H.K.

Telephone: (852) 2882-3939
Facsimile: (852) 2882-3331
E-mail: info@lamenviro.com
Website: http://www.lamenviro.com

CERTIFIED BY:



Raymond Dai
Environmental Team Leader

DATE:

14 June 2011

ENVIRON

Ref.: AACWBIECEM00_0_1458L.11 14 June 2011

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 (May 2011) for EP-356/2009, FEP-01/356/2009, 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 May 2011 dated 14 June 2011.

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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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – May 2011 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-01/356/2009, 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 28th April 2011 to 27th May 2011. 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. HY/2009/11 included:

- Reclamation works;
- Concreting;
- Slotted panel fixing;
- Drainage Construction works;
- Construction & installation of Seawall Block;
- Construction of coping and outfall construction works; and
- Installation of Caisson Seawall.

iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:

- All dredging works for HKCEC1 reclamation;
- HKCEC Water Channel for the reclamation of HKCEC1;
- Demolition of the existing seawall at VIP Drop-off Area for Cross-Harbour Watermains installation;
- Installation of Cross-Harbour Water Mains nos. A1 & B1;
- Dredging within the MTR Protection Boundary for the installation of Cross-Harbor Watermains nos. A2 & B2;
- Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden;
- Tee-off connection between cooling mains intake pipe of Government Towers and the existing system at Convention Avenue;
- Trench excavation for proposed pipe laying works in Convention Avenue was in progress;
- Proposed drainage works at VIP Drop-off Area near HKCEC West;
- Temporary diversion of 2 nos. DN900 cooling water discharge pipes of Convention Plaza;
- Trench excavation for a 1000 dia. watermains at Salisbury Garden;
- Demolition of the existing Promenade Deck at the junction between Convention Avenue and Expo Drive;
- Pre-drilling works for the proposed SCL D-Wall;

- Infilling concrete wall between the return wall (replacing the original PQ31 to PQ34) and the existing seawall at North Bank of HKCEC Channel; and
- Infilling concrete wall between PQ1 and the existing seawall at the junction between Convention Avenue and Expo Drive

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

- Tseung Kwan O public fill sorting facility 9000m3 sorted fill produced this month;
- Internal decoration, external decoration, E&M works and power on for new public toilet;
- Laying and connecting water and drainage pipe;
- Disable ramp for new public toilet
- Foam concrete for new passenger terminal building
- Ground floor slab for new passenger terminal building
- Modification of existing finger pier deck and tree pits
- Installation of precast manholes and pillar boxes
- The relocated tour ferry pontoon was reinstated;
- Modification of existing seawall;
- A thrust block was cast at Harbour Road;
- Approximate 22m cooling mains was laid at Harbour Road in this reporting period.
- Trench excavation at Tonnochy Road;
- Excavation and lateral support for WSD Salt Water Pumping Station at Wan Shing Street was continued. 4th layer of struts;
- Temporary Traffic Deck at Wan Shing Street for WSD Intake Culvert;
- Dredging for submarine outfall pipe;
- Approximate 180m HDPE pipe was laid;
- Connection chamber at DSD Screening Plant, modification of strutting and wall pour ;
- Excavation and lateral support for jacking pit at ex-pet garden;
- Blinding layer for jacking pit at ex-pet garden was cast;
- Excavation and lateral support for WSD & DSD receiving pits;
- Marine piling works for new ferry pier was ongoing. 21 out of 83 nos marine piles was completed as of 20 May 2011;
- Remedial works for Eastern Temporary Seawall;
- Tunnel bored pile works in WCR1;
- Diaphragm wall construction; and
- Guide wall construction and pre-treatment for diaphragm wall in WCR1 Area

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

- Seawall block construction at TS4;

- Filling work at TS1 and TPCWAE;
- Access formation at TS1;
- Grouting works at Abutment A;
- Night time protection works at CHT; and
- Trial trench work at Hung Hing Road and POC

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

- Dredging over the MTR Tsuen Wan Line;
- Disposal of Type 1 and Type 2 Sediment;
- Mobilization of Piling and Staging Works; and
- Erection of Staging Platform

Noise Monitoring

vii. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b and M5b on a weekly basis in the reporting month. Four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 11, 17 and 24 May 2011 during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

Real-time Noise Monitoring

viii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre have been commenced on 5 October 2010 for the filling works of Contract no. HY/2009/11. No project-related exceedance was recorded in the reporting month.

Air Quality Monitoring

ix. 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

x. Water quality monitoring at 18 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

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
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	1	0	0	0
	WSD17	0	0	1	1	1	1	0	0	0	0	0	0

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
	C8	0	0	0	1	1	0	0	0	0	0	1	0
	C9	0	0	0	1	3	0	0	0	1	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	1	0	1	0
	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
	C1	0	0	0	0	0	0	0	0	1	0	0	0
	C3	0	0	1	3	1	1	0	0	1	7	3	3
	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
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	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	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	1	0
HY/2009/15	C6	0	0	0	0	0	0	0	0	0	0	0	0
Total		**0**	**0**	**2**	**6**	**6**	**2**	**0**	**0**	**5**	**7**	**6**	**3**

Remarks: - Considering the absence of intake pump operation at Windsor House intake (C7), this sensitive receiver was apparently not exist during this period so that no water quality monitoring at C7 for compliance checking was undertaken in this reporting month.

- 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.
- It was not included the exceedances recorded at C3 in the daily monitoring from 17 May to 27 May 2011.

xi. Investigation found that turbidity and/or SS level exceedances at C3 recorded on 5 and 7 May 2011 were caused by silt screen defect and improper maintenance of deployed silt curtain as identified during regular site inspections. In additional, the exceedances at C3 on 16, 18 and 19 May 2011 were caused by improper control and management of deployed silt curtain as identified during site inspections and monitoring. Other than these exceedances, it was concluded not related to the Project works.

Complaints, Notifications of Summons and Successful Prosecutions

xii. There was no environmental complaint recorded in the reporting month.

Site Inspections and Audit

xiii. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HY/2009/11, HK/2009/01, HK/2009/02, HY/2009/15 and HK/2010/06 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

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

Contract no. HY/2009/11- North Point Reclamation

- Reclamation works;
- Concreting;
- Slotted panel fixing;
- Drainage Construction works;
- Outfall construction works;
- Construction & installation of Seawall Block; and
- Installation of Caisson Seawall.

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

- Reclamation within HKCEC Water Channel;
- Sheet pile installation for a temporary water channel covering the existing cooling water intake at Dome Promenade;
- Dredging within MTRCL protection boundary would be continued prior to the commencement of preparation works for installation of Cross-Harbour Watermains nos. A2 & B2;
- Installation of Cross-Harbour Watermains nos. A2 & B2 and A3 and B3 would be carried out;
- Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden;
- Works would be continued at VIP Drop-off Area, Convention Avenue and Fleming Road;
- Main laying works at VIP Drop-off area;
- Thrust block construction and trench backfilling works would be carried out;
- Infilling of mass concrete between PQ1 and existing seawall at South Bank of HKCEC Water Channel;
- Pre-drilling works would be continued along SCL D-Wall aliment (South Side) and be extent to the whole CWB area;
- Pre-bored H-pilling works for CWB Mainline;
- Plant mobilization, ground treatment works and guide wall construction for proposed CWB & SCL D-Wall; and
- All outstanding geotechnical instrumentation for construction of CWB & SCL Protection Works would be installed

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

- Continue operating Tseung Kwan O Public Fill Sorting Facility;
- Complete internal and external decoration for new public toilet at Expo Drive East;
- Complete E&M works for new public toilet at Expo Drive East;
- Commence and complete modification existing hoarding for new public toilet opening;
- Continue construction of passenger terminal at Expo Drive East;
- Complete modification of existing finger pier decking;
- Commence remaining demolition of existing pier at Expo Drive East;
- Continue trench excavation and pipe laying works for cooling mains;
- Continue trench excavation at Tonnochy Road;
- Commence and complete lean concrete at P7, P8 and P9 pump station;
- Complete excavation and lateral support for WSD Salt Water Pumping Station at Wan Shing Street;
- Commence the construction of WSD Salt Water Pumping Station at Wan Shing Street;
- Commence excavation and lateral support for construction of salt water intake culvert at Wan Shing Street;
- Commence pre-bored H-pile for WSD Salt Water Intake Culvert at WCR1 Area;
- Continue dredging, pipe welding and pipe laying works for submarine outfall pipe;
- Complete connection chamber at DSD Screening Plant;
- Commence the horizontal directional drill for pipe jacking across Hung Hing Road;
- Commence pre-grouting along pipe jacking alignment across Hung Hing Road.
- Continue excavation and lateral support for receiving pits;
- Continue marine piling works for new ferry pier;
- Continue tunnel bored pile works;
- Continue guide wall construction for diaphragm wall construction; and
- Continue pre-treatment for diaphragm wall construction.

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

- Seawall block construction at TS4;
- Dredging of odorous sediment at TS4;
- Filling at TS4;
- Site investigation at TS1 and TPCWAE;
- Excavation for diaphragm wall construction at TS1 and TPCWAE; and
- Grouting works at Abutment A

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

- Marine Bored Piling;
- Disposal of Type 1 and Type 2 Sediment; and
- Erection of Staging Platform

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-01/356/2009, 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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 and during the period 28th April to 27th May 2011. 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	Pending
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	Pending
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 for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
China Harbour-	Contractor under Contract	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085

Party	Role	Post	Name	Contact No.	Contact Fax
CRBC Joint Venture	no. HY/2009/11	Project Manager	Mr. Gregory Wong	3157 1086	
		Site Agent	Mr. Daniel Cheung	3157 1086	
		Environmental Officer	Mr. C. M. Wong	3157 1086	
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Director	Simon Tong	9124 2471	2634 1626
		Site Agent	Paul Yu	9456 9819	
		Operation Manager	Lau Yee Ching	9466 3918	
		Construction Manager	David Wong	9653 8635	
		Construction Manager	Wilson Lau	5183 1270	
		Construction Manager	Chan Mui Sang	9864 8615	
		Environmental Officer (Compliance Manager)	Brian Wan	9312 2827	
		Environmental Engineer	Shelton Chan	5395 5470	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
		Site Agent	Mr. Eric Lam	3658 3048	
		Deputy Site Agent	Mr. Anthony Wu	3658 3004	
		Quality & Environmental Manager	Mr. C.P. Ho	3658 3000	
		Environmental Officer	Ms. Flora Ng	3658 3064	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2528 5651
		Site Agent	Mr. Simon Tang	3557 6358	2566 2192
		Construction Manager	Mr. C K Kwok	9779 2162	
		Assistant Construction Manager (East)	Mr. Gene Cheung	6105 4880	
		Assistant Construction Manager (West)	Mr. Tony Chiu	9090 0606	
		Section Agent (East)	Mr. Jason Chan	9254 1635	

Party	Role	Post	Name	Contact No.	Contact Fax
		Section Agent (West)	Mr. Tang Ka Tung	9473 4771	
		Environmental Manager	Mr. Samuel Tsui	3557 6347	
Gammon -Leader JV	Contractor under Contract no. HK/2010/06	Project Manager	Mr. Simon Tong	9124 2471	2529 2880
		Site Agent	Mr. Book Kin Man	9193 8680	
		Environmental Officer	Mr. Lee Wai Man	9481 6024	
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. HY/2009/11, the principal work activities in this reporting month included:

- Reclamation works;
- Concreting;
- Slotted panel fixing;
- Drainage Construction works;
- Construction & installation of Seawall Block;
- Construction of coping and outfall construction works; and
- Installation of Caisson Seawall.

2.4.4. For Contract no. HK/2009/01, the principal work activities in this reporting month included:

- All dredging works for HKCEC1 reclamation;
- HKCEC Water Channel for the reclamation of HKCEC1;
- Demolition of the existing seawall at VIP Drop-off Area for Cross-Harbour Watermains installation;
- Installation of Cross-Harbour Water Mains nos. A1 & B1;
- Dredging within the MTR Protection Boundary for the installation of Cross-Harbor Watermains nos, A2 & B2;
- Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden;
- Tee-off connection between cooling mains intake pipe of Government Towers and the existing system at Convention Avenue;
- Trench excavation for proposed pipe laying works in Convention Avenue was in progress;
- Proposed drainage works at VIP Drop-off Area near HKCEC West;

- Temporary diversion of 2 nos. DN900 cooling water discharge pipes of Convention Plaza;
- Trench excavation for a 1000 dia. watermains at Salisbury Garden;
- Demolition of the existing Promenade Deck at the junction between Convention Avenue and Expo Drive;
- Pre-drilling works for the proposed SCL D-Wall;
- Infilling concrete wall between the return wall (replacing the original PQ31 to PQ34) and the existing seawall at North Bank of HKCEC Channel; and
- Infilling concrete wall between PQ1 and the existing seawall at the junction between Convention Avenue and Expo Drive

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

- Tseung Kwan O public fill sorting facility 9000m3 sorted fill produced this month;
- Internal decoration, external decoration, E&M works and power on for new public toilet;
- Laying and connecting water and drainage pipe;
- Disable ramp for new public toilet
- Foam concrete for new passenger terminal building
- Ground floor slab for new passenger terminal building
- Modification of existing finger pier deck and tree pits
- Installation of precast manholes and pillar boxes
- The relocated tour ferry pontoon was reinstated;
- Modification of existing seawall;
- A thrust block was cast at Harbour Road;
- Approximate 22m cooling mains was laid at Harbour Road in this reporting period.
- Trench excavation at Tonnochy Road;
- Excavation and lateral support for WSD Salt Water Pumping Station at Wan Shing Street was continued. 4th layer of struts;
- Temporary Traffic Deck at Wan Shing Street for WSD Intake Culvert;
- Dredging for submarine outfall pipe;
- Approximate 180m HDPE pipe was laid;
- Connection chamber at DSD Screening Plant, modification of strutting and wall pour ;
- Excavation and lateral support for jacking pit at ex-pet garden;
- Blinding layer for jacking pit at ex-pet garden was cast;
- Excavation and lateral support for WSD & DSD receiving pits;
- Marine piling works for new ferry pier was ongoing. 21 out of 83 nos marine piles was completed as of 20 May 2011;
- Remedial works for Eastern Temporary Seawall;

- Tunnel bored pile works in WCR1 area;
- Diaphragm wall construction; and
- Guide wall construction and pre-treatment for diaphragm wall in WCR1 Area

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

- Seawall block construction at TS4
- Filling work at TS1 and TPCWAE
- Access formation at TS1
- Grouting works at Abutment A
- Night time protection works at CHT
- Trial trench work at Hung Hing Road and POC

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

- Dredging over the MTR Tsuen Wan Line;
- Disposal of Type 1 and Type 2 Sediment;
- Mobilization of Piling and Staging Works; and
- Erection of Staging Platform

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

Contract no. HY/2009/11- North Point Reclamation

- Reclamation works;
- Concreting;
- Slotted panel fixing;
- Drainage Construction works;
- Outfall construction works;
- Construction & installation of Seawall Block; and
- Installation of Caisson Seawall.

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

- Reclamation within HKCEC Water Channel;
- Sheet pile installation for a temporary water channel covering the existing cooling water intake at Dome Promenade;
- Dredging within MTRCL protection boundary would be continued prior to the commencement of preparation works for installation of Cross-Harbour Watermains nos. A2 & B2;
- Installation of Cross-Harbour Watermains nos. A2 & B2 and A3 and B3 would be carried out;
- Platform erection for crawler crane mobilization near the existing seawall at Salisbury

Garden;

- Works would be continued at VIP Drop-off Area, Convention Avenue and Fleming Road;
- Main laying works at VIP Drop-off area;
- Thrust block construction and trench backfilling works would be carried out;
- Infilling of mass concrete between PQ1 and existing seawall at South Bank of HKCEC Water Channel;
- Pre-drilling works would be continued along SCL D-Wall aliment (South Side) and be extent to the whole CWB area;
- Pre-bored H-pilling works for CWB Mainline;
- Plant mobilization, ground treatment works and guide wall construction for proposed CWB & SCL D-Wall; and
- All outstanding geotechnical instrumentation for construction of CWB & SCL Protection Works would be installed

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

- Continue operating Tseung Kwan O Public Fill Sorting Facility;
- Complete internal and external decoration for new public toilet at Expo Drive East;
- Complete E&M works for new public toilet at Expo Drive East;
- Commence and complete modification existing hoarding for new public toilet opening;
- Continue construction of passenger terminal at Expo Drive East;
- Complete modification of existing finger pier decking;
- Commence remaining demolition of existing pier at Expo Drive East;
- Continue trench excavation and pipe laying works for cooling mains;
- Continue trench excavation at Tonnochy Road;
- Commence and complete lean concrete at P7, P8 and P9 pump station;
- Complete excavation and lateral support for WSD Salt Water Pumping Station at Wan Shing Street;
- Commence the construction of WSD Salt Water Pumping Station at Wan Shing Street;
- Commence excavation and lateral support for construction of salt water intake culvert at Wan Shing Street;
- Commence pre-bored H-pile for WSD Salt Water Intake Culvert at WCR1 Area;
- Continue dredging, pipe welding and pipe laying works for submarine outfall pipe;
- Complete connection chamber at DSD Screening Plant;
- Commence the horizontal directional drill for pipe jacking across Hung Hing Road;
- Commence pre-grouting along pipe jacking alignment across Hung Hing Road.

- Continue excavation and lateral support for receiving pits;
- Continue marine piling works for new ferry pier;
- Continue tunnel bored pile works;
- Continue guide wall construction for diaphragm wall construction; and
- Continue pre-treatment for diaphragm wall construction.

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

- Seawall block construction at TS4;
- Dredging of odorous sediment at TS4;
- Filling at TS4;
- Site investigation at TS1 and TPCWAE;
- Excavation for diaphragm wall construction at TS1 and TPCWAE; and
- Grouting works at Abutment A

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

- Marine Bored Piling;
- Disposal of Type 1 and Type 2 Sediment; and
- Erection of Staging Platform

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	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	Valid
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	Valid
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

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. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/356/2009 for contract no. HY/2009/11 are shown in ***Table 3.2*** and ***Table 3.3***.

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Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/11

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	N/A	Valid
Notification of Works Under APCO	314911	9 Mar 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0870-10	6 Oct 2010	1 Nov 2010 to 30 Apr 2011	Expired
	GW-RS0330-11	15 Apr 2011	1 May 2011 to 31 Oct 2011	Valid
Registration as a Chemical Waste Producer	WPN: 5213-151-C3631-02	12 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010037	13 Jan 2010	N/A	Valid
Discharge Licence	WT00007942-2010	29 Nov 2010	30 Nov 2015	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/11-116	29 Dec 2010	31 Dec 2010 to 28 Jun 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/11-162	23 Mar 2011	31 Mar 2011 to 29 Apr 2011	Expired
	EP/MD/12-008	28 Apr 2011	30 Apr 2011 to 29 May 2011	Valid until 29 May 2011

Table 3.3 Summary of submission status under FEP-01/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 Dec 2009
Condition 2.7	Submission of works schedule and location plan	8 Feb 2010
Condition 2.8	Revised Silt Curtain Deployment Plan (Rev. 3)	4 Dec 2010
Condition 2.9	Silt Screen Deployment Plan (Rev. 6)	19 May 2011
Condition 2.10	Coral Translocation Plan	20 Nov 2009
Condition 2.16	Revised Noise Management Plan (Rev 5)	19 Feb 2011
Condition 2.17	Landscape Plan	12 May 2010
	Revised landscape Plan	30 Jun 2010
	Submission of Supplementary Information - Revised Management & Maintenance Schedule for Submitted Revised Landscape Plan	25 Aug 2010

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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in ***Table 3.4*** 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 piling equipment	PP-RS0045-10	21 Dec 2010	21 Dec 2010 to 20 Jun 2011	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0965-10	8 Nov 2010	22 Nov 2010 to 21 May 2011	Expired
	GW-RS1034-10	26 Nov 2010	27 Nov 2010 to 26 May 2011	Expired
	GW-RS1074-10	3 Dec 2010	09 Dec 2010 to 08 Jun 2011	Valid
	GS-RS0022-11	12 Jan 2011	23 Jan 2011 to 22 Jul 2011	Withdrawn
	GW-RS0107-11	8 Feb 2011	16 Mar 2011 to 15 Sep 2011	Valid
	GW-RS0111-11	11 Feb 2011	28 Feb 2011 to 31 Aug 2011	Valid
	GW-RS0311-11	1 Apr 2011	7 Apr 2011 to 6 Oct 2011	Withdrawn
	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0421-11	6 May 2011	11 May 2011 to 10 Nov 2011	Valid
	GW-RS0450-11	20 May 2010	9 Jun 2010 to 8 Dec 2011	To be valid on 9 Jun 2011
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/11-083	23 Nov 2010	24 Nov 2010 to 23 May 2011	Expired
	EP/MD/12-021	20 May 2011	24 May 2011 to 23 Nov 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/11-164	6 Apr 2011	8 Apr to 7 May 2011	Expired
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) for trial dump using Geo-synthetic container	EP/MD/11-138	8 Apr 2011	15 Apr to 14 May 2011	Expired

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	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
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

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

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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 piling equipment	PP-RS0037-10	3 Nov 2010	1 Dec 2010 to 31 May 2011	Valid
	PP-RS0046/10	24 Dec 2010	3 Jan to 31 May 2011	Valid
	PP-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	To be valid on 1 Jun 2011
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1011-10	15 Nov 2010	18 Nov 2010 to 17 May 2011	Expired
	GW-RS1023-10	25 Nov 2010	1 Dec 2010 to 30 Apr 2011	Expired
	GW-RS1033-10	22 Nov 2010	23 Nov 2010 to 21 May 2011	Valid
	GW-RS1154-10	8 Dec 2010	8 Jan 2011 to 7 June 2011	Valid
	GW-RS0033-11	19 Jan 2011	01 Feb to 31 Jul 2011	Valid
	GW-RS0074-11	28 Jan 2011	1 Feb 2011 to 7 Jun 2011	Valid
	GW-RS0093-11	2 Feb 2011	17 Feb 2011 to 16 Jul 2011	Valid
	GW-RS0225-11	17 Mar 2011	31 Mar 2011 to 30 Sept 2011	Withdrawn
	GW-RS0235-11	23 Mar 2011	31 Mar 2011 to 20 Jun 2011	Withdrawn
	GW-RS0269-11	29 Mar 2011	31 Mar 2011 to 31 May 2011	Valid until 31 May 2011
	GW-RS0280-11	30 Mar 2011	31 Mar 2011 to 30 Sep 2011	Valid
	GW-RS0310-11	1 April 2011	2 Apr 2011 to 14 July 2011	Withdrawn
	GW-RS0317-11	6 April 2011	7 Apr 2011 to 6 May 2011	Expired
	GW-RS0335-11	8 April 2011	11 Apr 2011 to 30 Sept 2011	Withdrawn
	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0348-11	13 April 2011	24 Apr 2011 to 22 May 2011	Expired
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0414-11	3 May 2011	9 May 2011 to 8 Nov 2011	Valid
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0430-11	9 May 2011	16 May 2011 to 15 Nov 2011	Valid
	GW-RS0453-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0458-11	17 May 2011	21 May 2011 to 20 Nov 2011	Valid
	GW-RS0461-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0473-11	27 May 2011	01 May 2011 to 30 Nov 2011	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 May 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 Apr 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	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/10-093	25 Nov 2010	29 Nov 2010 to 28 May 2011	Valid until 28 May 2011
	EP/MD/12-012	6 May 2011	29 May 2011 to 28 Nov 2011	Valid
Dumping Permit (Type 1 –	EP/MD/11-165	7 April 2011	10 Apr 2011 to 9 May 2011	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-009	29 April 2011	10 May 2011 to 9 June 2011	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
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 Rev. H	15 Feb 2011
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
Condition 2.12 (d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	19 Apr 2011
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

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

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under 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
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0141-11	14 Feb 2011	15 Feb to 14 Aug 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0168-11	21 Feb 2011	24 Feb to 23 Aug 2011	Valid
	GW-RS0220-11	16 Mar 2011	16 Mar to 15 Sep 2011	Valid
	GW-RS0308-11	1 Apr 2011	4 Apr to 27 Sep 2011	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	15 Nov 2010	N/A	Valid
Water Discharge Licence	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
	WT00008905-2011	11 Apr 2011	11 Apr 2011 to 30 Apr 2016	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	28 Apr 2011	1 May 2011 to 30 Oct 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/11-120	17 Jan 2011	18 Jan 2011 to 17 Jul 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-005	26 Apr 2011	1 May 2011 to 31 May 2011	Valid until 31 May 2011
	EP/MD/12-017	19 May 2011	1 Jun 2011 to 30 Jun 2011	To be valid on 1 Jun 2011

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

EP 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 Rev 2	11 May 2011
Condition 2.9	Silt Screen Deployment Plan Rev2	18 Feb 2011
Condition 2.18	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

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

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

3.1.8. 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
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0240-11	25 Mar 2011	7 Apr 2011 to 6 Oct 2011	Valid
	GW-RS0293-11	1 Apr 2011	6 Apr 2011 to 5 Oct 2011	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
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/11-148	15 Mar 2011	22 Mar 2011 to 21 Sept 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-001	22 Apr 2011	22 Apr 2011 to 21 May 2011	Expired
	EP/MD/12-016	22 May 2011	22 May 2011 to 21 June 2011	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 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Silt Curtain Deployment Plan	11 April 2011
Condition 2.9	Silt Screen Deployment Plan	11 April 2011
Condition 2.23	Noise Management Plan	11 March 2011

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.

Table 4.2 Real Time Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.3. 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.

4.1.4. 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.

4.1.5. 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

4.1.6. As referred to in the Technical Memorandum ™ issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.1.7. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

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
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.

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 – October) 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 12 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
WSD20	Kennedy Town	830750.6	816030.3
WSD21	Wan Chai	836220.8	815940.1
RW21	Wan Chai (Reprovision)	836188.8	815911.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4

Station Ref.	Location	Easting	Northing
C3	HKCEC Phase I	835836.2	815910.0
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2
C4w	Wan Chai Tower and Great Eagle Centre (Western)	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
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
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.

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. HY/2009/11 Central - Wan Chai Bypass - North Point Reclamation;
- 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

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. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.1.1. The proposed division of noise monitoring stations for Contract no. HY/2009/11 are summarized in ***Table 5.1*** below:

Table 5.1 Noise Monitoring Stations for Contract no. HY/2009/11

Station	Description
M4b	Victoria Centre
M5b	City Garden

5.1.2. Day time and evening period noise monitoring was conducted at the City Garden and Victoria Centre in the reporting month.

5.1.3. Noise monitoring results measured in this reporting period are reviewed and summarized. No exceedance was recorded in the reporting month. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***.

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

5.1.4. 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

5.1.5. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.

5.1.6. Four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 11, 17 and 24 May 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

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

5.1.7. 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

5.1.8. Noise monitoring results measured in the period of daytime and restricted hour are reviewed and summarized. No exceedance was recorded in reporting month. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2***.

5.2 Real-time Noise Monitoring

5.2.1. Real time noise baseline level review for all monitoring stations at night time period (2300 to 0700) in this report was commenced in this reporting month, details of the results of the noise level shall be reported in the quarterly report (March 2011 to May 2011).

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.2.2. The proposed division of real-time noise monitoring stations are summarized in ***Table 5.4*** below. Real time noise monitoring for the filling works under contract no. HY/2009/11 was commenced on 5 October 2010.

Table 5.4 Real Time Noise Monitoring Station for Contract no. HY/2009/11

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

-

5.2.3. Real time noise monitoring results were reviewed and no project-related Action and Limit level exceedance were recorded. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.5 .**

5.3 Air Monitoring Results

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.3.1. The major construction activity of Contract no. HY/2009/11 was filling works in the reporting month. Air monitoring had been commenced on 11 August 2010. The proposed division of air monitoring stations are summarized in ***Table 5.5*** below.

Table 5.5 Air Monitoring Stations for Contract no. HY/2009/11

Station	Description
CMA1b	Oil Street Community Liaison Centre
CMA2a	Causeway Bay Community Centre

5.3.2. No exceedance was recorded in the reporting month. Details of air monitoring results and graphical presentation can be referred in ***Appendix 5.3***.

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 division of air monitoring stations are summarized in ***Table 5.6*** below. No exceedance was recorded in the reporting month.

Table 5.6 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 5.7*** below. No exceedance was recorded in the reporting month.

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

Station	Description
CMA3a	CWB PRE Site Office

5.4 Water Monitoring Results

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.4.1. The proposed division of water monitoring stations for Contract no. HY/2009/11 are summarized in ***Table 5.9*** below:

Table 5.9 Water Monitoring Stations for Contract no. HY/2009/11

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

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

5.4.2. 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 5.10*** below.

Table 5.10 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
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2

Station Ref.	Location	Easting	Northing
C4w	Wan Chai Tower and Great Eagle Centre (Western)	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.

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

5.4.3. 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 5.11*** below.

Table 5.11 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
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.

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

5.4.4. 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 5.12*** below.

Table 5.12 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C2	Telecom House	835647.9	815864.4

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

5.4.5. 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 5.13*** below.

Table 5.13 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: - Considering the absence of intake pump operation at Windsor House intake (C7), this sensitive receiver was apparently not exist during this period so that no water quality monitoring at C7 for compliance checking was undertaken in this reporting month.

- 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.

5.4.6. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011. One dissolved oxygen level at Ex-WPCWA-SE on 25 May 2011 during mid-ebb was exceeded.

5.4.7. As no dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter in reporting month, no daily monitoring of suspended solids and 24 hours monitoring of turbidity at the cooling water intakes at C6 and C7 were required.

5.4.8. The maintenance works and testing of flush water pump system at Windsor House intake (C7) have been carried out in the reporting month. The silt screen at C7 was then removed on 15 February 2011 and then reinstated on 29 March 2011 to facilitate their maintenance works as per the intake owner's request. Considering the absence of intake pump operation at Windsor House intake (C7), this sensitive receiver was apparently not exist during this period so that no intake water quality monitoring at C7 for compliance checking was undertaken in this reporting month.

5.4.9. 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 and no compliance checking for intake water monitoring at C6 was undertaken in this reporting month.

5.4.10. 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 5.14 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
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	1	0	0	0
	WSD17	0	0	1	1	1	1	0	0	0	0	0	0
	C8	0	0	0	1	1	0	0	0	0	0	1	0

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
	C9	0	0	0	1	3	0	0	0	1	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	1	0	1	0
	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
	C1	0	0	0	0	0	0	0	0	1	0	0	0
	C3	0	0	1	3	1	1	0	0	1	7	3	3
	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
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	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	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	1	0
HY/2009/15	C6	0	0	0	0	0	0	0	0	0	0	0	0
Total		**0**	**0**	**2**	**6**	**6**	**2**	**0**	**0**	**5**	**7**	**6**	**3**

Remarks: - Considering the absence of intake pump operation at Windsor House intake (C7), this sensitive receiver was apparently not exist during this period so that no water quality monitoring at C7 for compliance checking was undertaken in this reporting month.

- 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.
- It was not included the exceedances recorded at C3 in the daily monitoring from 17 May to 27 May 2011.

5.4.11. Investigation found that turbidity and/or SS level exceedances at C3 recorded on 5 and 7 May 2011 were caused by silt screen defect and improper maintenance of deployed silt curtain as identified during regular site inspections. In additional, the exceedances at C3 on 16, 18 and 19 May 2011 were caused by improper control and management of deployed silt curtain as identified during site inspections and monitoring. Other than these exceedances, it was concluded not related to the Project works. The details of the recorded exceedances can be referred to the Section 6.3.

5.5 Waste Monitoring Results

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

5.5.1. Non-inert C&D waste was disposed of in the reporting month. Details of the waste flow table are summarized in ***Table 5.15***.

Table 5.15 Details of Waste Disposal for Contract no. HY/2009/11

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	NIL	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, ton	1.4	1.4	SENT Landfill
Non-inert C&D materials recycled, m^3	NIL	NIL	N/A
Chemical waste disposed, kg	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	89,500 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	129,200 (Bulk Volume)	East of Sha Chau

5.5.2. There was no marine sediment disposed and no dredging work undertaken in the reporting month.

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

5.5.3. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.16.***

Table 5.16 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	115.87	6,522.23	TKO134
Inert C&D materials recycled, m^3	0	0	N/A
Non-inert C&D materials disposed, m^3	66.80	298.58	SENT Landfill
Non-inert C&D materials recycled, kg	0	78,088	N/A
Chemical waste disposed, kg	0	2,530	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	1,158 (Bulk Volume)	69,464.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	138 (Bulk Volume)	12,599 (Bulk Volume)	East of Cha Chau

5.5.4. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in the reporting month. The maximum dredging rate in Cross Harbour Water Main and HKCEC3 were 428m^3 and 138m^3 per day respectively, which are complied with the recommended maximum dredging rate, 1500m^3 per day listed in Table 2 of FEP-02/356/2009.

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

5.5.5. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.17.***

Table 5.17 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	1,361	11,523	TKO137
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	18	104	SENT Landfill
Non-inert C&D materials recycled, m^3	NIL	NIL	N/A
Chemical waste disposed, kg	0	1,011	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	6,544 (Bulk Volume)	99,948 (Bulk Volume)	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	90,994 (Bulk Volume)	East of Sha Chau

5.5.6. There were marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in submarine sewage pipelines are 719m^3 per day respectively, which is complied with the recommended maximum dredging rate, 1500m^3 per day listed in Table 2 of FEP-03/356/2009.

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

5.5.7. Non- inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.18.***

Table 5.18 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	3.5	Tuen Mun Area 38
Inert C&D materials recycled, m^3	NIL	184.0	To Contract HY/2009/11
Non-inert C&D materials disposed, m^3	5.5	39.4	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	13,625	N/A
Chemical waste disposed, kg	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	5,850 (Bulk Volume)	131,802 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	0 (Bulk Volume)	2,750 (Bulk Volume)	East of Sha Chau

5.5.8. In the reporting month, there were marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed from the dredging works at TCBR. The maximum dredging rate, $560m^3$ per day in the reporting month is complied with the recommended maximum dredging rate as stipulated in FEP-04/356/2009 within the marine zones at TCBR.

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

5.5.9. No inert and Non- inert C&D waste were 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/2010/06

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	NIL	N/A
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, kg	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	2,039 (Bulk Volume)	2,338 (Bulk Volume)	South Cheung Chau

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	3,507 (Bulk Volume)	9,998 (Bulk Volume)	East Sha Chau

5.5.10. In the reporting month, there were marine sediment Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed from the dredging works at MTR tunnel crossing. The maximum dredging rate, 413m^3 per day in the reporting month is complied with the recommended maximum dredging rate as stipulated in FEP-05/356/2009

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. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

6.1.1. No exceedance was recorded in the reporting month.

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

6.1.2. 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

6.1.3. Four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 11, 17 and 24 May 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The construction works were complied with the conditions under valid Construction Noise Permits during the measurement.

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

6.1.4. 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

6.1.5. No exceedance was recorded in the reporting month.

6.2 Real-time noise Monitoring

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

6.2.1. No project-related exceedance was recorded in the reporting month.

6.3 Air Monitoring

6.3.1. No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation

6.4.1. Referring to the exceedances shown in ***Table 5.9***, the occasionally Action and Limit level exceedances of turbidity and suspended solid were recorded at Stations C8 and C9. Since there were numerous unknown outfalls from the nearby coastal area closed to the cooling intakes C8 and C9, it causes the potential for accumulation of pollutants near the intakes and may lead to potential water quality deterioration at the seawater intake points. Besides, muddy discharge from the outfalls near Oil Street and C9 were recorded in reporting month.

6.4.2. Major marine works were only installations of caisson seawall at NPR2E and reclamation work at NPR1 and NPR2W in this reporting month. Proper condition of silt curtain was provided between the barge and the seawall during the filling material transportation. The recorded turbidity and SS exceedances were concluded as not project-related.

6.4.3. Reviewed the trend of overall results at all monitoring stations nearer the marine work area, the turbidity exceedance recorded at WSD15 on 12 May 2011 while low turbidity and SS levels were recorded at the stations near the marine work area without exceeded the action and limit level. Besides, the exceedances recorded at WSD17 during mid-flood were located in the upstream of the marine works. Thus, theses turbidity and SS exceedances were considered not related to the Project works.

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

6.4.4. Since there were only filling works at HKCEC1 and no dredging works of the Cross Harbour Water Mains on 5 May 2011, no potential water impact was near the station C1. Thus, it was considered not related to the Project works.

6.4.5. Referring to exceedances recorded at WSD19 on 5 May 2011 during mid-ebb, it was located in upstream of the Project works, the exceedances were definitely non-works related under the Project.

6.4.6. Exceedances of turbidity and/or SS level at C3 were recorded on 28 and 30 April, 3, 5, 7, 12, 14, 16, 18, 19, 23, 25 and 27 May 2011. Investigation found that the turbidity levels outside the silt screen on 28, 30 April and 3, 12 and 14 May 2011 were well below the Action Level while turbidity exceedances were recorded inside the silt screen. Recorded exceedances on these days might be caused by trapping of material inside the silt screen and not adequately removed by Contractor in time.

6.4.7. In the additional turbidity measurements at the outside the silt screen on 5, 7, 16, 18, and 19 May 2011, it indicated that the turbidity levels outside the silt screen were also higher than the Limit Level. In the further investigation, silt screen defect and deployed silt curtain not properly maintained as identified during regular site inspections were the findings to cause the exceedances recorded on 5 and 7 May 2011. Besides, deployed silt curtain was not properly managed and controlled as identified during site inspections and monitoring on 16, 18 and 19 May 2011. These exceedances were concluded to be in relation to the deployed silt screen and silt curtain. The frequency of water quality monitoring has been increased to daily from 17 May 2011 so as to keep in view of any further deterioration of water quality in water channel. Filling operation was then suspended since 19 May 2011 morning.

6.4.8. The turbidity inside the silt screen on 23, 25 and 27 May 2011 were higher than the turbidity outside the silt screen. The exceedances recorded on these days were considered in relation

to the accumulation of wastewater and debris since a discharge pipe was discovered inside the silt screen by Contractor on 24 May 2011. The monitoring frequency was then resumed to normal monitoring frequency on 27 May 2011. The diversion of the discharge pipe is under liaison with the stakeholder. Follow-up action will be taken in the coming month.

6.4.9. More detail of the action taken and the recommendation for the exceedances can be referred to **Appendix 6.2**.

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

6.4.10. There was one SS level at WSD21 exceeded the Action level on 3 May 2011 during mid-ebb. Washing screen by WSD was observed during the water monitoring. The silt screen was checked in proper condition during water quality monitoring. Besides, the silt curtain for the dredging work at submarine outfall was then checked in proper condition during the site inspection on 5 May 2011. It was concluded that the SS level exceedance was not related to the Project works.

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

6.4.11. There was one DO level at ex- WPCWA SE exceeded the Action Level on 25 May 2011 in the Enhanced DO monitoring. According to the information reported by Contractor HY/2009/15, no marine activities were carried out at ex-WPCWA on 25 May 2011. In view that no marine activities were undertaken and no odour nuisance was noted during monitoring, the DO exceedance was considered not related to the Project.

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

6.4.12. No exceedance was recorded in the reporting month.

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

6.5.2. There were exceedances of turbidity and/or SS level recorded at C3 on 5, 7, 16, 18 and 19 May 2011 that were considered in relation to the deployed silt screen and silt curtain as identified during the site inspection and monitoring.

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

6.6.1. When the exceedance was recorded during water quality monitoring, repeated in-situ measurement and additional turbidity measurement were immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen for checking of relation from the filling works. Diver inspection on the silt screen and silt curtain was conducted on 5 May 2011. The maintenance works of geotextile was then conducted on 6

and 7 May 2011. Additional silt curtains have been installed in HKCEC water channel on 7 May 2011.

6.6.2. In response to further recorded exceedances at water monitoring station C3, the frequency of water quality monitoring has been increased to daily from 17 May 2011 so as to keep in view of any further deterioration of water quality in water channel. Filling operation was then suspended from 19 May 2011 morning until 23 May 2011 morning.

6.6.3. A discharge pipe for HKCEC was discovered located in between the C3 intake inlets and inside the silt screen by Contractor on 24 May 2011. A site investigation with ARE and SIOW from AACL, ET, IEC, Contractor and stakeholder was conducted on 27 May 2011 to confirm the location of the discharge pipe. The monitoring frequency was then resumed to normal monitoring frequency on 27 May 2011. The diversion of the discharge pipe is under liaison with stakeholder. Follow-up action will be taken in the coming month.

6.6.4. The implementation of the recommended mitigation measures would be continuously followed-up and reported in the next reporting period.

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.

7.0.2. From the Monthly EM&A report (April 2011) of Central Reclamation Phase III (CRIII) the key works in May 2011 are as follows:

- Type A filling in FRAW and FRAE above +2.5mPD;
- General filling works above +2.5mPD in IRAE;
- Surcharging in FRAW and FRAE;
- Construction of cantilever slab at caisson ;
- Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, and Road D9;
- Construction of GPO boundary wall;
- Construction of PLA boundary wall and entrance;
- Construction of Promenade enhancement works;
- Construction of buildings at PLA berth;
- Road P2 Underpass ramp structures;
- Precasting for retaining wall (offsite);
- Installation of cooling mains discharge pipes in FRAE and FRAW;
- Bulk excavation to formation level at CWB works;
- Construction of CWB structure;
- Disposal of material off-site to Government fill banks; and
- Strengthening of Man Yiu Street Footbridge

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 under Wan Chai Development Phase II were the filling works at North Point Reclamation Shoreline Subzone (NPR2E) and (NPR1& NPR2W), the filling at WCR1 and dredging at Wan Chai Reclamation Shoreline Subzone (Submarine sewage pipeline) respectively, filling at HKCEC1 and dredging at TCBR and filling at TPCEAE, and the dredging works at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at North Point and Wan Chai.

7.0.4. The major environmental impacts generated from the filling work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty while the adverse water impact was located in the HKCEC water channel in relation to the filling operation causing exceedances at station C3 in this reporting month. Other than the exceedances recorded at C3, it was concluded not related to the Project works. Thus, it was unlikely to have cumulative impact from CRIII. It is evaluated the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.

8. Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/11, HK/2009/01, HK/2009/02, HY/2009/15 and HK/2010/06. No non-conformance was identified during the site audits.

8.0.2. Four site inspections for Contract no. HY/2009/11 were carried out on 3, 11, 18 and 24 May 2011. The results of these inspections and outcomes are summarized in ***Table 8.1***.

Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/11

Item	Date	Observations	Action taken by Contractor	Outcome
110503_01	3-May-11	The contractor was reminded to cover all stockpiles by tarpaulin. It was recommended to trim down for easier covering.	Minimized the size of the idle stockpiles	Completion as observed on 11-May-11
110511_01	11-May-11	Chemical contaminated soil was found at reclamation area. Contractor was reminded to clear and treat it as chemical waste.	Cleared and treated as chemical waste	Completion as observed on 18-May-11
110518_01	18-May-11	The Contractor was reminded to cover the idle stockpiles by tarpaulin after daily works.	Provided the covering stockpile or spraying water	Completion as observed on 24-May-11
110524_01	24-May-11	Silt screen at C9 Provident Centre shall be maintained	Maintenance of the silt screen at C9	Completion as observed on 30-May-11
110524_02	24-May-11	Drip tray shall be provided to the generator.	Provided the drip tray underneath the generator	Completion as observed on 30-May-11

8.0.3. Four site inspections for Contract no. HK/2009/01 were carried out on 4, 11, 19 and 25 May 2011. The results of these inspections and outcomes are summarized in Table 8.2.

Table 8.2 Summary of Environmental Inspections for Contract no. HK/2009/01

Item	Date	Observations	Action taken by Contractor	Outcome
110504_01	4-May-11	Silt curtain should be fully enclosed the area for the filling operation	Keeping the silt curtain closed for filling operation	Completion as observed on 11-May-11. On-going to keep in view of the silt curtain condition.
110504_02	4-May-11	Silt curtain for the jetty should be maintained and repaired.	Maintain and weight-down the silt curtain for the jetty	Completion as observed on 11-May-11.
110504_03	4-May-11	The sand bags surround the jetty should be enhanced.	Enhanced and added the sand bags surround the jetty.	Completion as observed on 11-May-11.
110511_01	11-May-11	Treated wastewater should be discharged to designed discharge points as per Discharge License.	Wastewater discharge to the designed discharge point	Completion as observed on 19-May-11.
110519_01	19-May-11	Impervious sheet at the tipping end of the conveyor belt need to be enhanced to secure the sheets from loosening during filling by conveyor.	Enhanced the top cover of conveyor belt	Completion as observed on 25-May-11.
110519_02	19-May-11	Refuse accumulation around the silt curtain at the west bridge side	Keeping to removal of floating refuse	Completion as observed on

Item	Date	Observations	Action taken by Contractor	Outcome
		need to be cleared.		25-May-11.
110519_03	19-May-11	Idle stockpile need to level off or covered after daily work	Trimmed down the stockpile after daily works	Completion as observed on 25-May-11.
110525_01	25-May-11	The silt curtain for the jetty shall be weighted down.	Repair and weight-down the silt curtain	Completion as observed on 01-Jun-11.
110525_02	25-May-11	The design of the vehicle wheel washing facility at south-bound of water channel shall be improved.	Improved the design of washing facility	Completion as observed on 01-Jun-11.
110525_03	25-May-11	The silt curtain for the loading point of conveyor belt shall be enhanced to avoid muddy water dispersion from the overlapping curtains.	Enlarged the overlapping area of the silt curtain	Completion as observed on 01-Jun-11. On-going to keep in view of the silt curtain condition.

8.0.4. Four site inspections for Contract no. HK/2009/02 were carried out on 28 April, 5, 18 and 26 May 2011 during this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.3***.

Table 8.3 Summary of Environmental Inspections for Contract no. HK/2009/02

Item	Date	Observations	Action taken by Contractor	Outcome
110428_01	28-Apr-11	Accumulation of stagnant water in drip tray shall be cleared up with proper procedures.	Clear the water with proper procedures.	Completion as observed on 05-May -11
110505_01	5-May-11	Noise emission label should be displayed on the air compressor at Harbour Road.	Place the label on the air compressor	Completion as observed on 18-May -11
110518_01	18-May-11	Contractor was reminded that all oil drums at sire shall be placed on drip tray.	Place all oil drums on drip tray	Completion as observed on 26-May-11
110518_02	18-May-11	General refuse in the sedimentation tank shall be removed.	Remove refuses in the sedimentation tank	Completion as observed on 26-May-11
110526_01	26-May-11	The top of the shelter for grouting plant shall be covered after loading material.	Cover the top of shelter for grouting plant after loading material.	Completion as observed on 2-June-11

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8.0.5. Four site inspections for Contract no. HY/2009/15 were carried out on 3, 12, 17 and 24 May in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.4***.

Table 8.4 Summary of Environmental Inspections for Contract no. HY/2009/15

Item	Date	Observations	Action taken by Contractor	Outcome
110503_01	3-May-11	The contractor was reminded to increase the frequently of water spraying	Provided regular water spraying.	Completion as observed on 12-May-11
110503_02	3-May-11	The contractor was reminded to keep a regular inspect and maintain of all additional silt curtain for pre-drilling works and stockpile transportation at eastern breakwater.	Regular inspect and maintain the silt curtain	Completion as observed on 12-May-11

Item	Date	Observations	Action taken by Contractor	Outcome
110512_01	12-May-11	The contractor was reminded to conduct water spraying to all dust generating area at TS1 reclamation area.	Keeping to spray water on the dust surface	Completion as observed on 17-May-11
110517_01	17-May-11	The gap found at TS4 should be sealed by silt curtain.	Enclosed the gap by silt curtain	Completion as observed on 24-May-11
110517_02	17-May-11	Sand bags shall be provided along the seawall adjacent to the contractor site entrance.	Provided sand bags along the seawall	Completion as observed on 24-May-11
110517_03	17-May-11	It was reminded to clear the floating debris regularly.	Regularly removal of floating refuse	Completion as observed on 24-May-11
110524_01	24-May-11	Drip tray shall be provided for chemical storage.	Provided the drip tray underneath the chemical storage.	Completion as observed on 31-May-11
110524_02	24-May-11	Discarded cement bags shall be cleared frequency.	Disposed the discarded cement bags regularly	Completion as observed on 31-May-11
110524_03	24-May-11	Ventilation system for grouting plant shall be improved as the tube of it is too short and the exhaust gas shall be treated to prevent dust generation.	The exhaust gas of the grouting plant is treated	Completion as observed on 31-May-11
110524_04	24-May-11	Cement bags shall be covered well when idle.	Covering the cement bags	Completion as observed on 31-May-11

8.0.6. Four site inspections for Contract no. HK/2010/06 were carried out on 6, 9, 19 and 23 May 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. HK/2010/06

Item	Date	Observations	Action taken by Contractor	Outcome
110506_01	6-May-11	Floating silt curtain should be repaired	Repair and maintain the silt curtain	Completion as observed on 9-May-11
110509_01	9-May-11	Drip tray should be provided at Barge B22399Y.	The Barge B22399Y was removed off-site.	Checking will be applied when the barge works at site.
110509_02	9-May-11	It is reminded that proper depth of silt curtain should be provided where appropriate.	Checking and daily inspection on the silt curtain	Completion as observed on 19-May-11
110519_01	19-May-11	It was reminded that surface runoff at site office shall not be pumped offsite.	Confirm and ensure no surface runoff at site	Completion as observed on 23-May-11
110519_02	19-May-11	Chemical/Chemical waste storage tanks shall be checked and provided proper labels and design.	Displayed the proper labels on the chemical waste storage tank.	Completion as observed on 23-May-11
110523_01	23-May-11	The stagnant water to drip tray shall be regular cleared up with proper procedure during rainy season.	Removal of stagnant water in the drip tray	Completion as observed on 30-May-11
110523_02	23-May-11	Temporary drainage plan for control surface runoff shall be provided.	The temporary drainage plan was updated and provided.	Completion the action on 30-May-11
110523_03	23-May-11	Deployment of silt curtain was observed during site inspection. It	Proper deployment of silt curtain before	Completion as observed on

Item	Date	Observations	Action taken by Contractor	Outcome
		is reminded to deploy it properly with sufficient depth before the dredging operation.	the dredging work	30-May-11

9. Complaints, Notification of Summons and Prosecution

9.0.1. There was no environmental 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	9
May 2011	0
Project-to-Date	**11**

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. Conclusion

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/11	• Reclamation works; • Concreting; • Slotted panel fixing; • Drainage Construction works; • Outfall construction works; • Construction & installation of Seawall Block; and • Installation of Caisson Seawall	• To avoid concurrent noisy operation • To locate the plant and equipments far away to the noise sensitive receivers • Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Daily clearance of floating debris behind the silt screen
HK/2009/01	• Reclamation within HKCEC Water Channel; • Sheet pile installation for a temporary water channel covering the existing cooling water intake at Dome Promenade; • Dredging within MTRCL protection boundary would be continued prior to the commencement of preparation works for installation of Cross-Harbour Watermains nos. A2 & B2; • Installation of Cross-Harbour Watermains nos. A2 & B2 and A3 and B3 would be carried out; • Platform erection for crawler crane mobilization near the existing seawall at Salisbury Garden; • Works would be continued at VIP Drop-off Area, Convention Avenue and Fleming Road; • Main laying works at VIP Drop-off area; • Thrust block construction and trench backfilling works would be	• 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

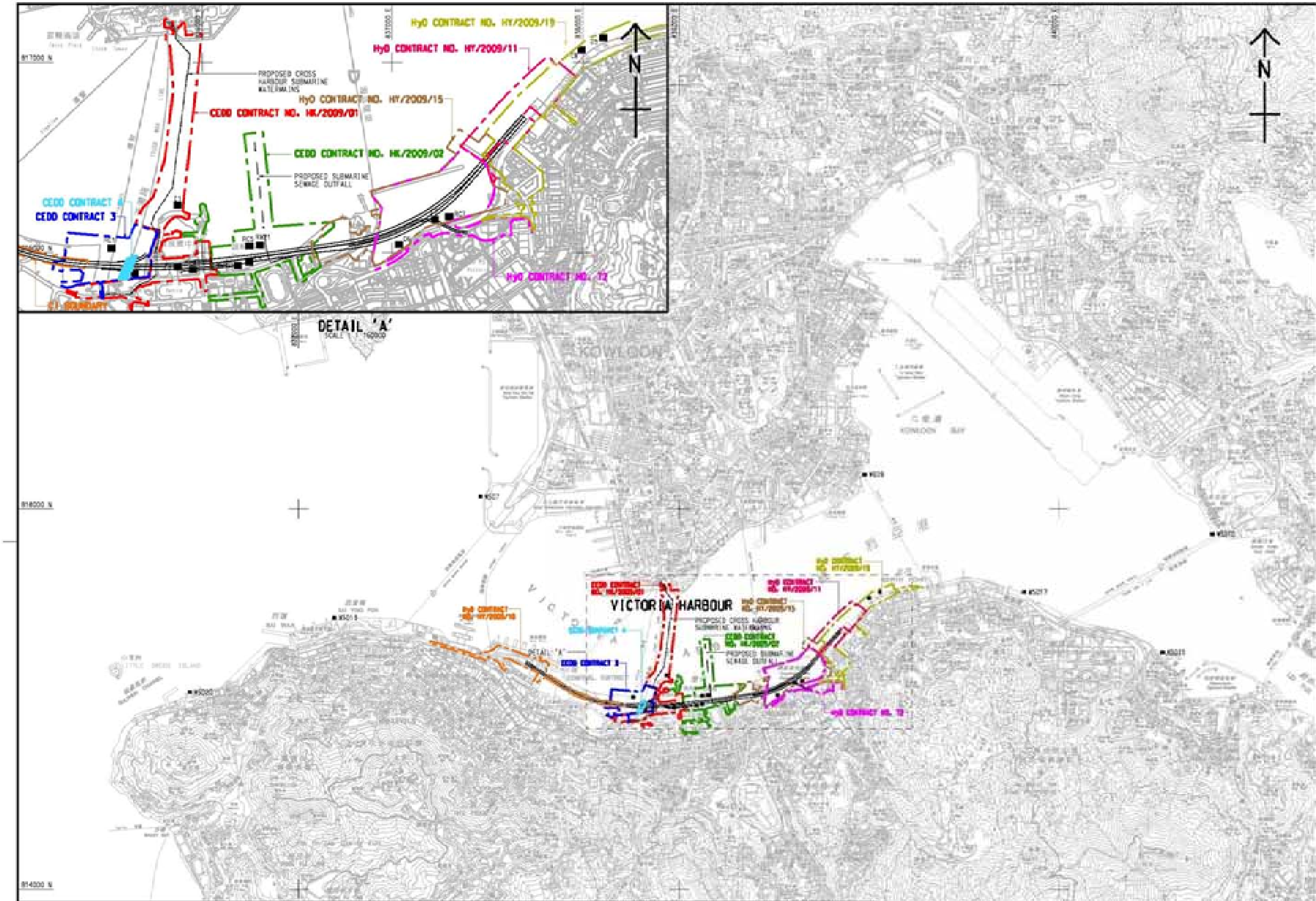
	carried out; • Infilling of mass concrete between PQ1 and existing seawall at South Bank of HKCEC Water Channel; • Pre-drilling works would be continued along SCL D-Wall aliment (South Side) and be extent to the whole CWB area; • Pre-bored H-pilling works for CWB Mainline; • Plant mobilization, ground treatment works and guide wall construction for proposed CWB & SCL D-Wall; and • All outstanding geotechnical instrumentation for construction of CWB & SCL Protection Works would be installed	
HK/2009/02	• Continue operating Tseung Kwan O Public Fill Sorting Facility; • Complete internal and external decoration for new public toilet at Expo Drive East; • Complete E&M works for new public toilet at Expo Drive East; • Commence and complete modification existing hoarding for new public toilet opening; • Continue construction of passenger terminal at Expo Drive East; • Complete modification of existing finger pier decking; • Commence remaining demolition of existing pier at Expo Drive East; • Continue trench excavation and pipe laying works for cooling mains; • Continue trench excavation at Tonnochy Road; • Commence and complete lean concrete at P7, P8 and P9 pump station; • Complete excavation and lateral	• 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

	support for WSD Salt Water Pumping Station at Wan Shing Street; • Commence the construction of WSD Salt Water Pumping Station at Wan Shing Street; • Commence excavation and lateral support for construction of salt water intake culvert at Wan Shing Street; • Commence pre-bored H-pile for WSD Salt Water Intake Culvert at WCR1 Area; • Continue dredging, pipe welding and pipe laying works for submarine outfall pipe; • Complete connection chamber at DSD Screening Plant; • Commence the horizontal directional drill for pipe jacking across Hung Hing Road; • Commence pre-grouting along pipe jacking alignment across Hung Hing Road. • Continue excavation and lateral support for receiving pits; • Continue marine piling works for new ferry pier; • Continue tunnel bored pile works; • Continue guide wall construction for diaphragm wall construction; and • Continue pre-treatment for diaphragm wall construction.	
HY/2009/15	• Seawall block construction at TS4 • Dredging of odorous sediment at TS4 • Filling at TS4 • Site investigation at TS1 and TPCWAE • Excavation for diaphragm wall construction at TS1 and TPCWAE • Grouting works at Abutment A	• To conform the installation and setting as in the silt screen and silt curtain 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. • Daily visual inspection of silt screen and silt curtain to ensure its operation

		properly
HK/2010/06	• Marine Bored Piling; • Disposal of Type 1 and Type 2 Sediment; and • Erection of Staging Platform	• 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

Figure 2.1

Project Layout



LEGEND:

■ WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

C1	HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
C2	TELECOM HOUSE/HK ACADEMY FOR PERFORMING ARTS / SHUI ON CENTRE
C3	HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
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 HKAPA EXTENSION
RC5	SUN HUNG KAI CENTRE (REPROVISION)
RC7	WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

WSD21	WAN CHAI
WWT	WAN CHAI (REPROVISION)
WSD7	KOWLOON SOUTH
WSD9	TAI WAN
WSD10	CHA KWO LING
WSD15	SAI WAN HO
WSD17	QUARRY BAY
WSD19	SHEUNG WAN
WSD20	KENNEDY TOWN

DESIGNATED PROJECTS (DP)

DP1 - CENTRAL-WAN CHAI BYPASS (CWB) 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 - 356/2009

DP2 IS COVERED BY EP - 356/2009

DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2009

WORKS CONTRACT	DESIGNATED PROJECT INVOLVED	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 2010
CEDD CONTRACT 5	DP3	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/2009/18	DP1	OCTOBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT T2	DP1, DP3	MID 2013

PATH p:\projects\60041297\DRAWINGS\SKETCH\C5\SKETCH 001.dgn

Plot File By : 2010-3-17 CHENGL

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)

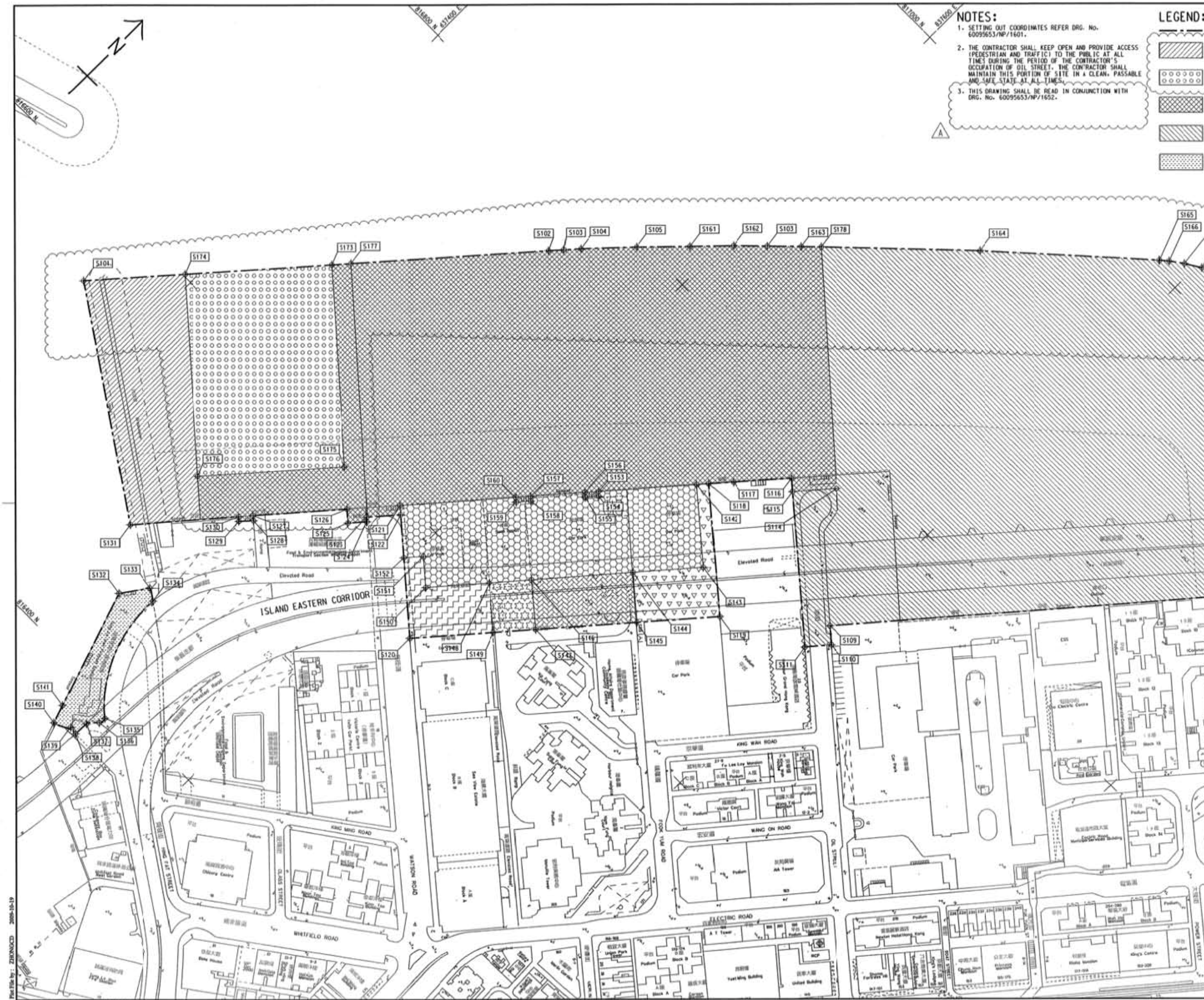
LOCATIONS OF WATER QUALITY MONITORING STATIONS

AECOM

DRG NO. 圖紙編號 60041297/C5/SK001

SCALE A1 1:20000

DIMENSIONS IN METRES



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

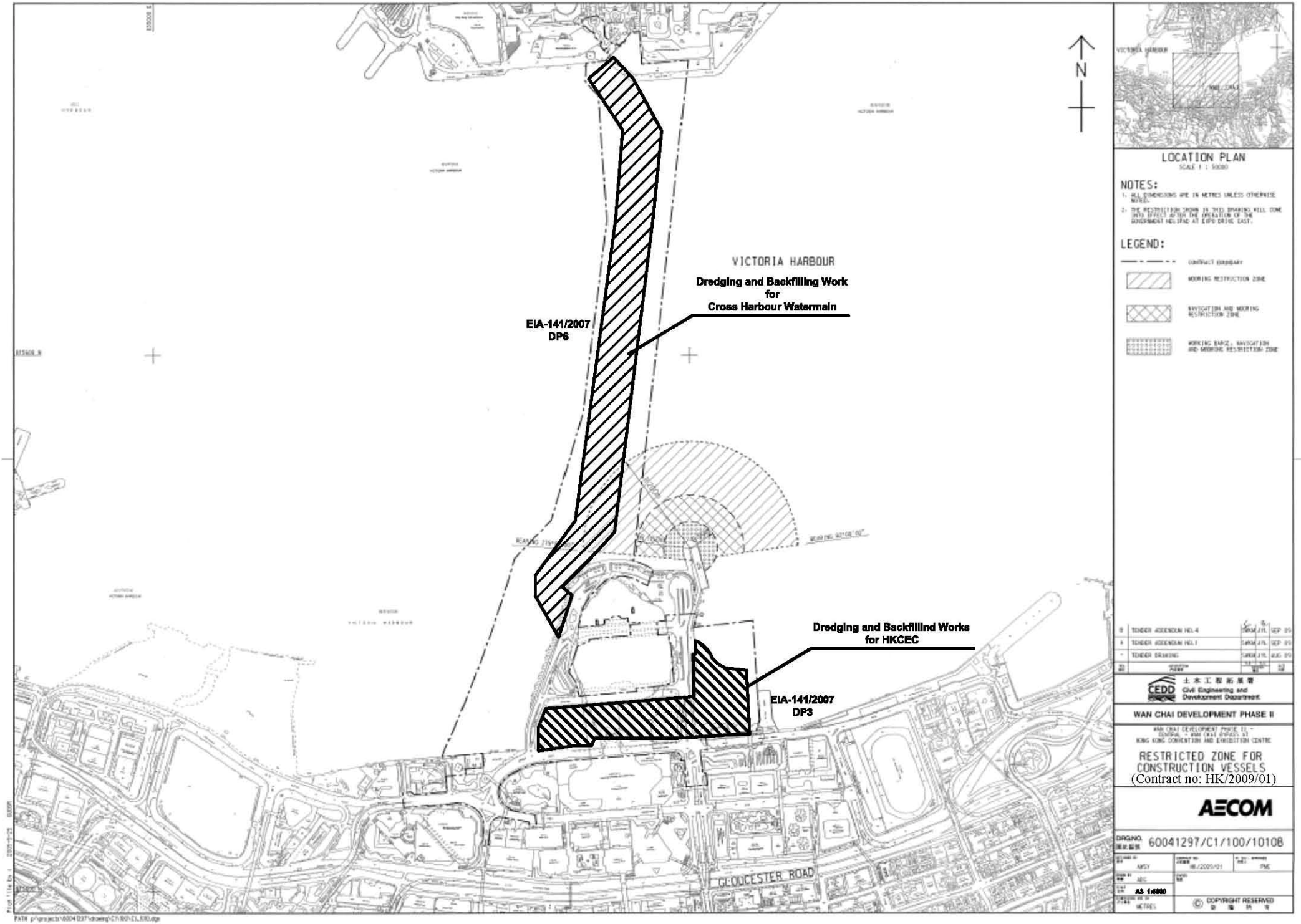
SHEET 1 OF 2

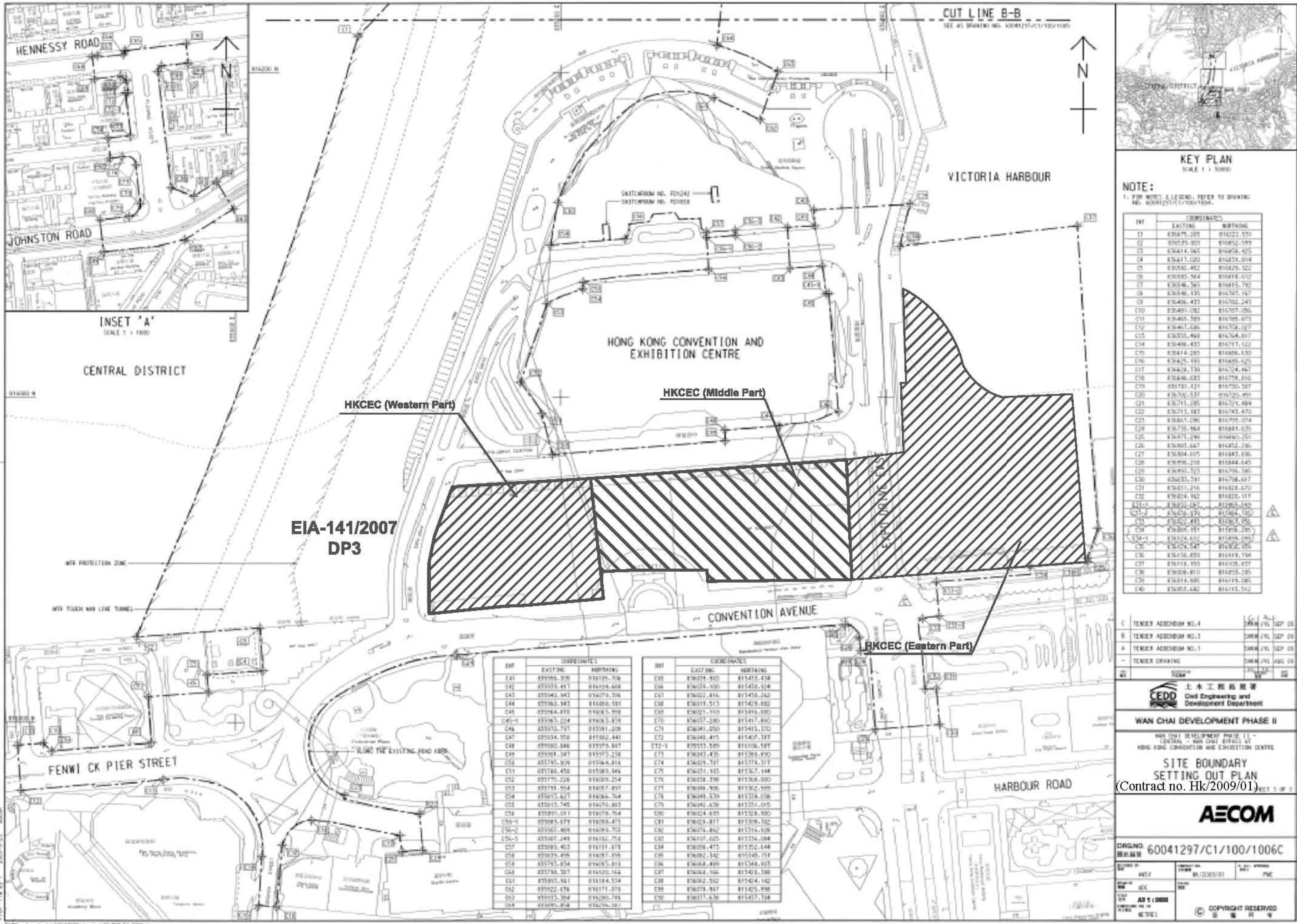
AECOM

DRG.NO. 60095653/NP/1651B

DESIGNED BY: TTF	CONTRACT NO.: HY/2009/11	P. DIV. APPROVED: CW
DRAWN BY: CJH	STATUS: WORKING DRAWING	
SCALE: A1 1 : 1000, A3 1 : 2000		
DIMENSIONS ARE IN METRES		

p:\project\60095653\drawing\NP\1000\NP_1651.dgn


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 COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EXPO DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
TENDER ADDENDUM NO.4
TENDER ADDENDUM NO.1
TENDER DRAWING
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
© COPYRIGHT RESERVED



CUT LINE B-B
HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
CONVENTION AVENUE
FENWICK PIER STREET
HARBOUR ROAD
KEY PLAN
NOTE:
COORDINATES
EASTING
NORTHING
TENDER ADDENDUM NO.4
TENDER ADDENDUM NO.3
TENDER ADDENDUM NO.1
TENDER DRAWING
Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
SITE BOUNDARY
SETTING OUT PLAN
(Contract no. Hk/2009/01)
AECOM
60041297/C1/100/1006C
COPYRIGHT RESERVED

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)

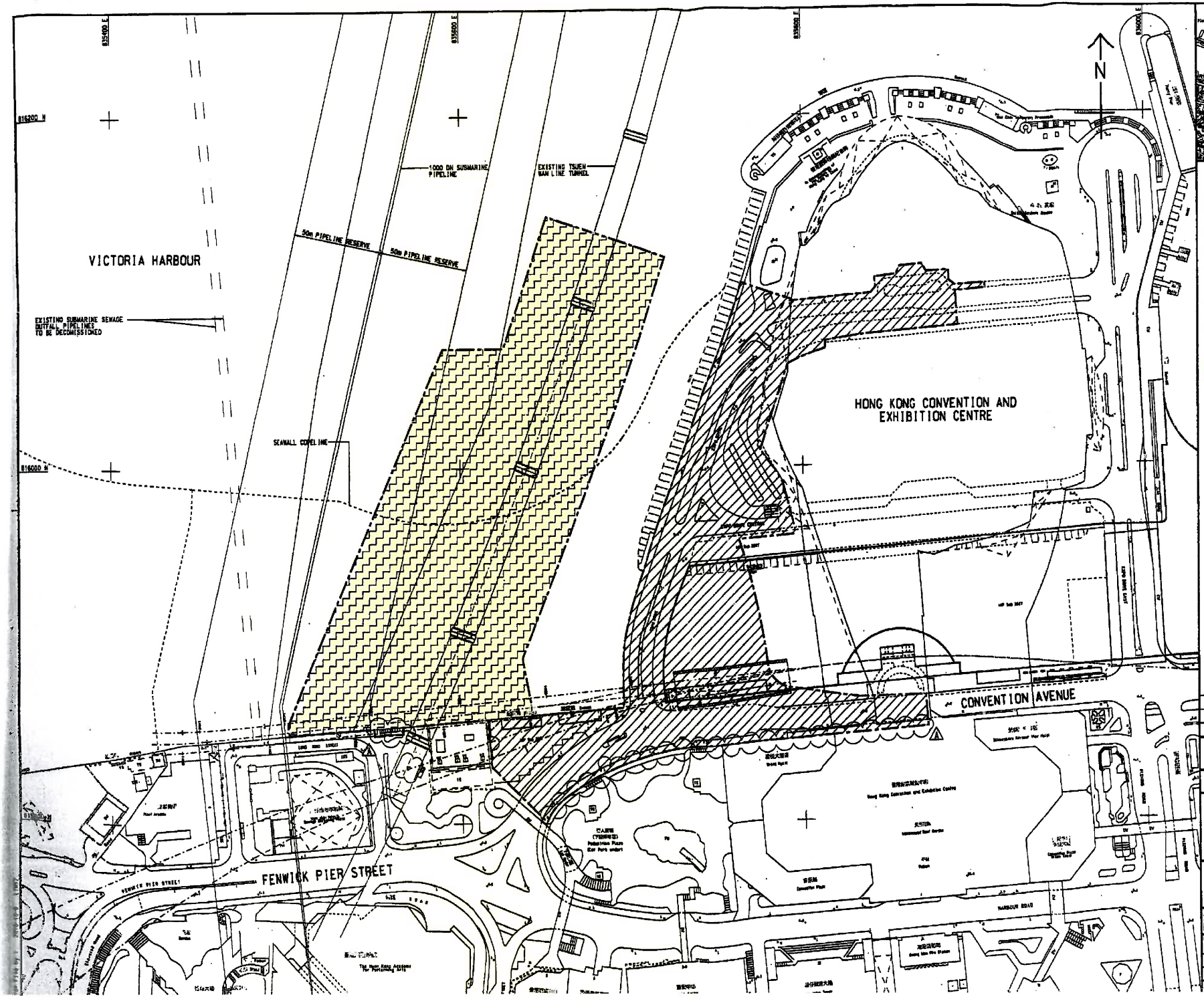
TITLE

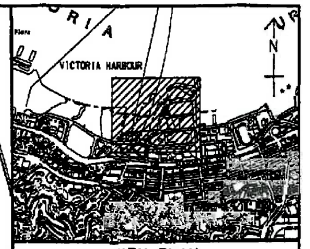
LOCATION PLAN OF WORKS AREA

DRG. NO.

CWBT/EPD/001B

SCALE	STATUS
1:1000 @ A0	
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	APPROVED	TKH
SCALE	A1 1:1000	STATUS	

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

Civil Engineering & Development Department

Mr. Patrick Keung
Senior Engineer
Tel: 2231 4442
Fax: 2577 5040

Project Proponent

Highways Department

Mr. Jones Lai
Senior Engineer
Tel: 2762 4951
Fax: 2714 5289

Environmental Protection Department

Mr. Raymond Lai
Environmental Protection Officer
Tel: 28351127
Fax: 25910558

Engineer's Representative for WDII

AECOM

Mr. Frankie Fan
Principal Resident Engineer
Tel: 2587 1778
Fax: 2587 1877

Engineer's Representative for CWB

AECOM

Mr. Peter Poon
Principal Resident Engineer
Tel: 3916 1818
Fax: 3529 2829

Independent Environmental Checker

ENVIRON Hong Kong Limited

Mr. David Yeung
Independent Environmental Checker
Tel: 3743 0717
Fax: 3548.6988

HK/2009/01 Contractor

Chun Wo – Leader JV

Mr. Paul Yu
Site Agent

HK/2009/02 Contractor

Chun Wo – CRGL JV

Mr. Chan Sing Cho
Project Manager
Tel: 3658 3002
Fax: 2827 9996

HK/2010/06 Contractor

Gamme – Leader JV

Mr. Simon Tong
Project Manager
Tel: 9124 2471
Fax: 2529 2880

HY/2009/11 Contractor

CHEC-CRBC JV

Mr. Cheung Fuk Hing
Site Agent
Tel: 3157 1086
Fax: 3157 1085

HY/2009/15 Contractor

China State Co. Engineering Ltd.

Mr. Simon Tang
Site Agent
Tel: 3557 6358
Fax: 2566 2192

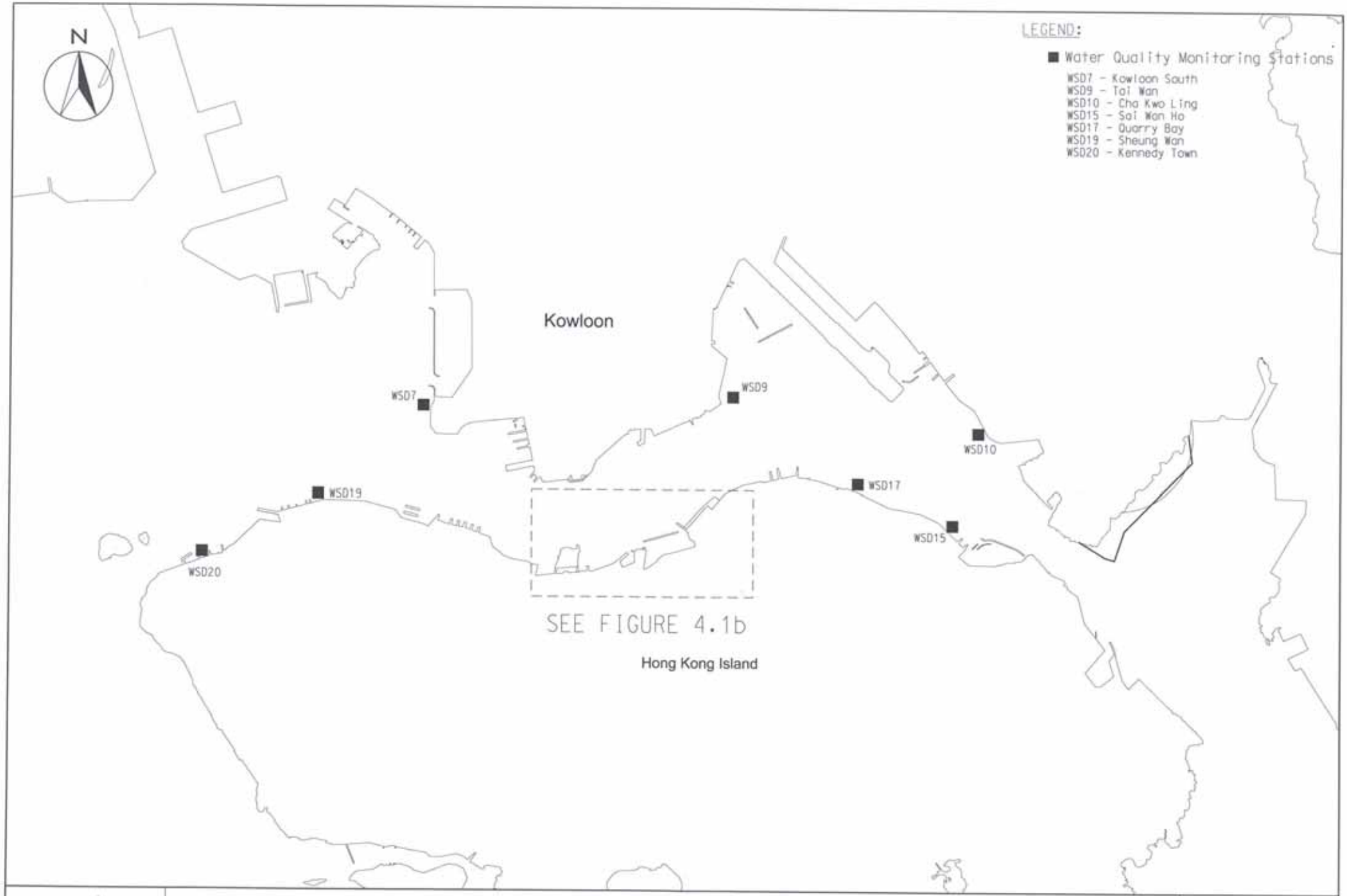
Environmental Team

Lam Geotechnics Limited

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

Figure 4.1

Locations of Monitoring Stations



MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

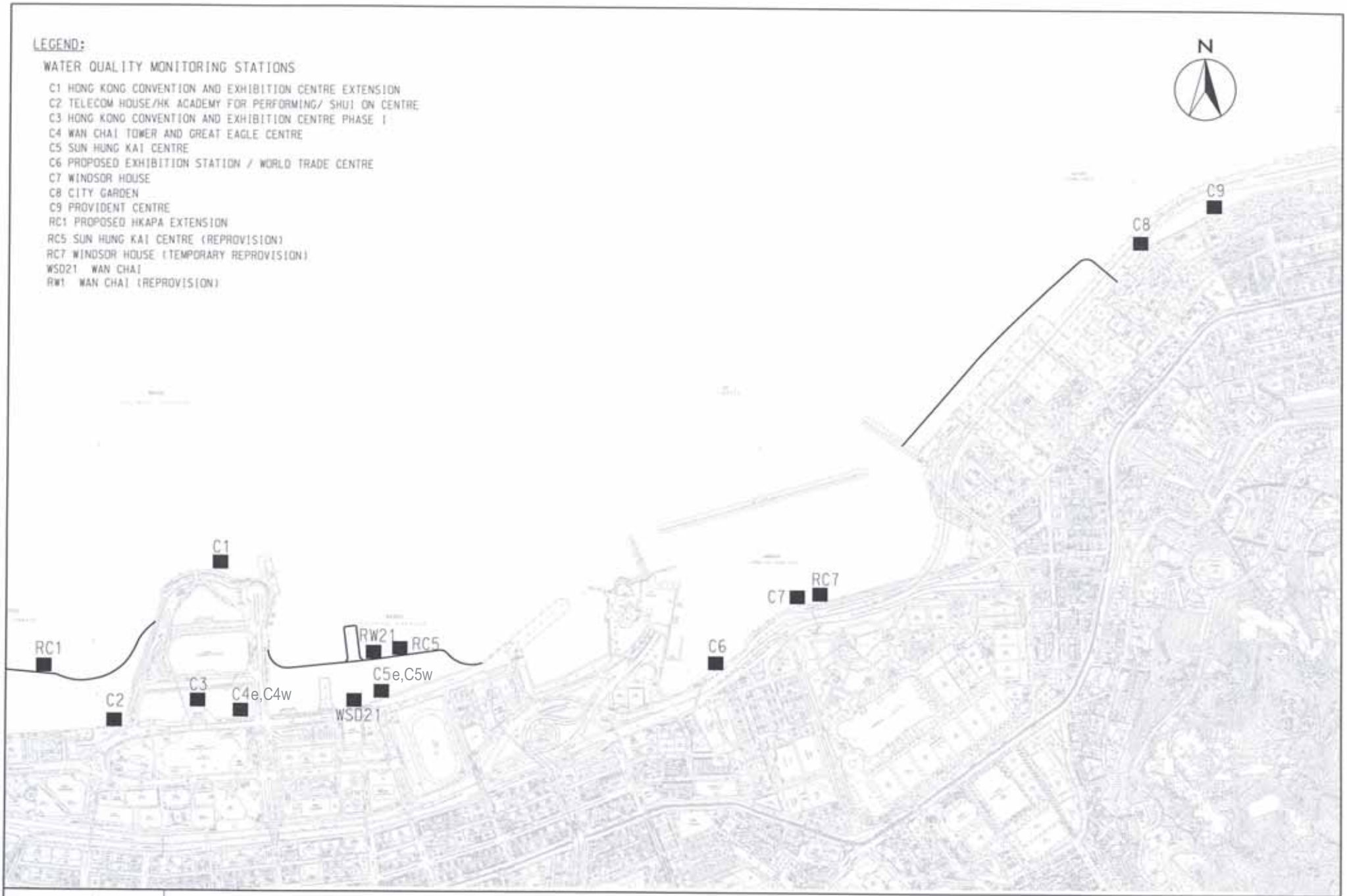
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

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)



MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

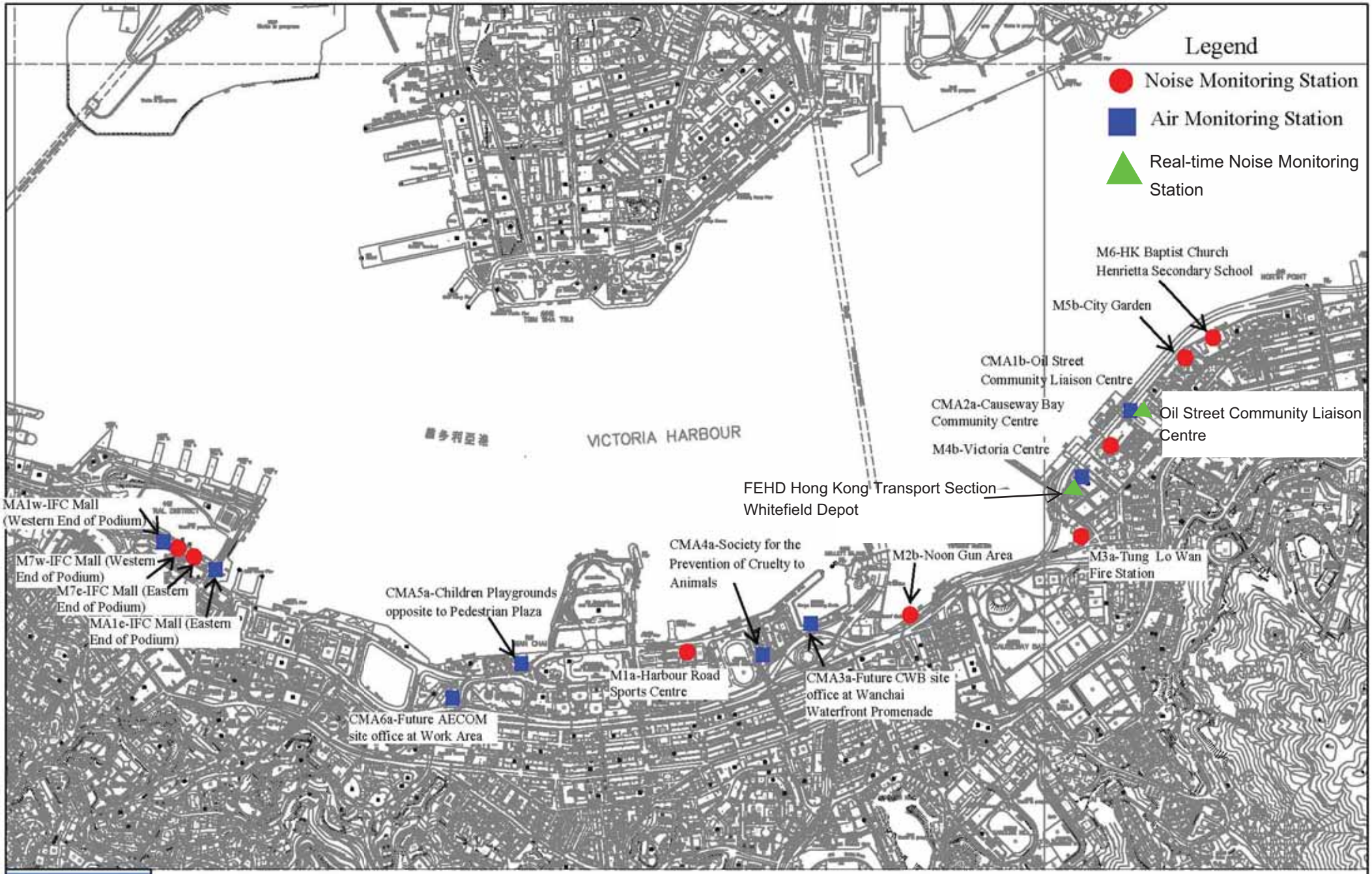
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

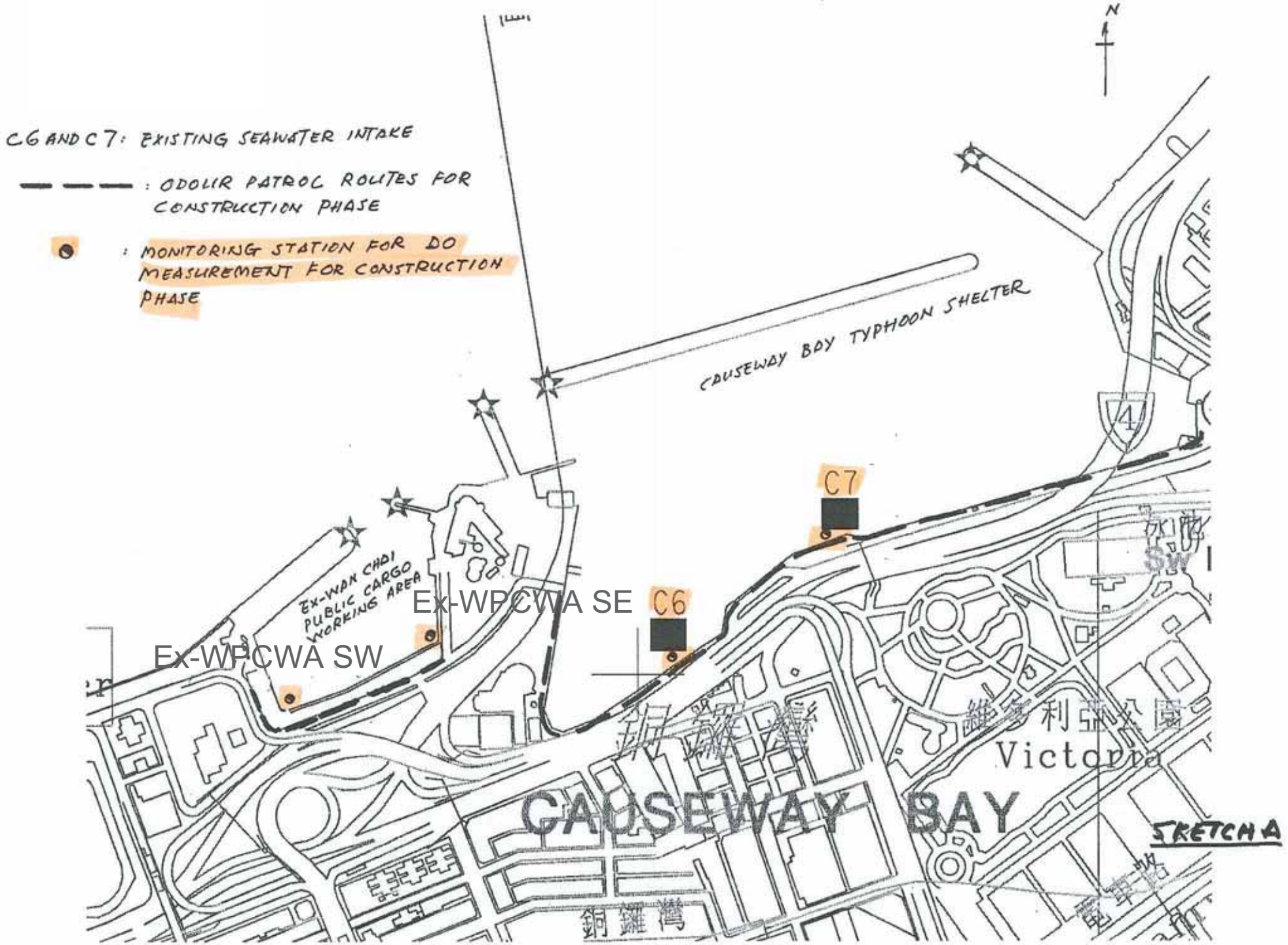
(SHEET 2 OF 2)

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

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 (m^3 per day)	Maximum Dredging Rate (m^3 per hour (for 16 hrs per day))	Maximum Dredging Rate (m^3 per week)
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

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.

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.*

Appendix 4.2

Copies of Calibration Certificates

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 06680 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224 **Serial No. :** 050112

Test Conditions

Date of Test : 19-Nov-10 **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 & 804 Type I Specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017A	Multi-Function Generator	00804	SCL-HKSAR
S024	Sound Level Calibrator	04062	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: 23-Nov-10

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 66, 24/F., Wall Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L_A	Fast	94.0	94.3
		Slow		94.3
	L_C	Fast		94.3
30 – 120	L_A	Fast	94.0	94.4
		Slow		94.4
	L_C	Fast		94.4
30 – 120	L_A	Fast	114.0	94.3
		Slow		94.3
	L_C	Fast		94.3

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 Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.5	+0.1	± 0.7 dB
130	104.0	104.4	0.0	
120	94.0	94.4 (Ref.)	- -	
110	84.0	84.1	-0.3	
100	74.0	74.2	-0.2	
90	64.0	64.1	-0.3	
80	54.0	54.1	-0.3	

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.1	-0.3	± 0.4
	94.0	94.4 (Ref.)	- -	
	95.0	95.4	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.3	- 39.4 dB, ± 1.5 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 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	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

Calibration Certificate

4. 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	39.9	
$1/10^3$	40.0	40.3	± 1.0 dB
$1/10^4$	40.0	40.3	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 009 hPa.

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 06681

Customer : Lam Geotechnics Limited

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

Order No. : Q02553 **Date of receipt :** 18-Nov-10

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : -- **Serial No. :** 050213

Test Conditions

Date of Test : 19-Nov-10 **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	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	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: 23-Nov-10

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 6B, 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

Results :

1. Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.22	± 0.3 dB

The above measured values are the mean of 3 measurements.
Uncertainty : ± 0.1 dB

2. Frequency

UUT Nominal Value	Measured Value		IEC 942 Class 1 Spec.
1 kHz	0.9834	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 : < 0.2 %
IEC 942 Class 1 Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 009 hPa.

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 03250A

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ONO SOKKI

Model : LA-5110 **Serial No. :** 72302293

Test Conditions

Date of Test : 21-Jun-10 **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 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	93758	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: 8-Oct-10

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

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Level Range	Filter	Frequency Weighting	Dynamic Characteristic		
40 - 100 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	113.97	113.9
			SLOW		113.9
		C	FAST		113.9

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)
130	114.0	114.1	+0.1	± 0.7 dB
130	104.0	104.1	+0.1	
120	94.0	94.0 (Ref.)	- -	
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.0	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	84.0	0.0	± 0.4
	94.0	94.0 (Ref.)	- -	
	95.0	95.0	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.5	- 39.4 dB, ± 1.5 dB
63 Hz	-26.9	- 26.2 dB, ± 1.5 dB
125 Hz	-16.9	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+1.5	+ 1.2 dB, ± 1 dB
5 kHz	+1.2	+ 1.0 dB ,± 1 dB
8 kHz	-1.0	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	-7.0	- 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	40.0	± 0.5 dB
$1/10^2$	40.0	40.0	
$1/10^3$	40.0	40.1	± 1.0 dB
$1/10^4$	40.0	39.9	

Uncertainty : ± 0.1 dB

Remarks : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 000 hPa.
4. This certificate is supersede our former certificate no. 03250.

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 03445

Customer : Lam Geotechnics Limited

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

Order No. : Q01282 **Date of receipt :** 14-Jun-10

Item Tested

Description : Sound Level Calibrator (EL078)

Manufacturer : ONO SOKKI

Model : SC-2110 **Serial No. :** 00393

Test Conditions

Date of Test : 21-Jun-10 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z02.

Test Results

All results were within the IEC 942 Class 2 specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Due Date	Traceable to
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	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: 25-Jun-10

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

Results :

1. **Level Accuracy (at 1 kHz)**

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 2 Spec.
94	94.05	± 0.5 dB

Uncertainty : ± 0.2 dB

2. **Frequency Accuracy**

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 942 Class 2 Spec.
1	0.998	± 4 %

Uncertainty : ± 0.1 %

3. **Level Stability** : 0.0 dB
IEC 942 Class 2 Spec. : ± 1.2 dB
Uncertainty : ± 0.01 dB

4. **Total Harmonic Distortion** : < 1.2 %
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 measurements.
3. The uncertainty claimed is for a confidence probability of not less than 95%.
4. Atmospheric Pressure : 1 000 hPa.

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

Brüel & Kjær

SPECTRIS CHINA LIMITED
思百吉中國有限公司

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-7 **Page** 1 **of** 2

Calibration of :

Description	:	Sound Level Meter	,	Microphone
Manufacture	:	Brüel & Kjær		
Type No.	:	2250	,	4950
Serial No.	:	2722310		2698702

Client :

Lam Geotechnics Limited
11/F, Centre Point
181-185 Gloucester Road
Wanchai
Hong Kong

Calibration Conditions :

Air Temperature	:	23	**°C**
Air Pressure	:	101.9	**kPa**
Relative Humidity	:	62	**%**

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration : 22 July, 2010
Calibrated By :

Dai Bin

Certificate issued : 22 July, 2010
Approved signatory :

Jacky Leung

Unit 706 7/F., Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong
香港九龍尖沙咀彌敦道132號美麗華大廈7樓706室

Tel : (852) 2548 7486
Fax : (852) 2858 1168

spectris

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-7 **Page 2 of 2**

Results :

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

" - " Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999

Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : Date : 22 July 2010

Checked By : Date : 22 July, 2010

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2 **Page 1 of 2**

Calibration of :

Description	:	Sound Level Meter	,	Microphone
Manufacture	:	Brüel & Kjær		
Type No.	:	2250	,	4950
Serial No.	:	2722311		2698703

Client :

Lam Geotechnics Limited
11/F, Centre Point
181-185 Gloucester Road
Wanchai
Hong Kong

Calibration Conditions :

Air Temperature	:	23	**°C**
Air Pressure	:	101.9	**kPa**
Relative Humidity	:	62	**%**

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration : 03 Aug, 2010
Calibrated By :

Dai Bin

Certificate issued : 03 Aug, 2010
Approved signatory :

Jacky Leung

spectris

CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2

Results :

List of performed (sub) test with test status:
"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.
" - " Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999

Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : Date : 03 Aug 2010

Checked By : Date : 03 Aug, 2010

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1107641
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG.	**DATE RECEIVED:**	04/04/2011
		DATE OF ISSUE:	08/04/2011
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, Salinity and Temperature
Description:	Sonde
Brand Name:	YSI
Model No.:	YSI 600XL
Serial No.:	05C1607
Equipment No.:	EL424
Date of Calibration:	06 April, 2011

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: HK1107641
Date of Issue: 08/04/2011
Client: LAM GEOTECHNICS LIMITED
Reference: --

Description: Sonde
Brand Name: YSI
Model No.: YSI 600XL
Serial No.: 05C1607
Equipment No.: EL424
Date of Calibration: 06 April, 2011 Date of next Calibration: 06 July, 2011

Parameters:

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)
16.0	16.1	0.1
23.0	22.5	-0.6
39.5	39.5	0.0
	Tolerance Limit (°C)	2.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.88	4.94	0.06
6.06	5.90	-0.16
8.23	8.40	0.17
	Tolerance Limit (±mg/L)	0.20

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.0	0.20	--
10.0	9.96	-0.4
20.0	19.98	-0.1
30.0	30.05	0.2
	Tolerance Limit (±%)	10.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager – Hong Kong

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1107886
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG.	**DATE RECEIVED:**	07/04/2011
		DATE OF ISSUE:	09/04/2011
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:	pH, Dissolved Oxygen, Salinity and Temperature
Description:	Sonde
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	10E100385
Equipment No.:	N/A
Date of Calibration:	08 April, 2011

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: HK1107886
Date of Issue: 09/04/2011
Client: LAM GEOTECHNICS LIMITED
Reference: --

Description: Sonde
Brand Name: YSI
Model No.: YSI Professional Plus
Serial No.: 10E100385
Equipment No.: N/A
Date of Calibration: 08 April, 2011 Date of next Calibration: 08 July, 2011

Parameters:

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)
16.0	15.0	-1.0
23.5	22.8	-0.7
30.7	30.0	-0.7
	Tolerance Limit (°C)	2.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.04	0.04
7.0	6.93	-0.07
10.0	9.85	-0.15
	Tolerance Limit (±unit)	0.2

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
6.76	6.90	0.14
7.97	8.06	0.09
8.76	8.76	0.00
	Tolerance Limit (±mg/L)	0.20

Salinity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.0	0.00	--
10.0	10.25	2.5
20.0	20.15	0.7
30.0	30.48	1.6
	Tolerance Limit (±%)	10.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd

CERTIFICATE OF ANALYSIS

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1105017
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	03/03/2011
		DATE OF ISSUE:	10/03/2011
PROJECT:	--	**SAMPLE TYPE:**	EQUIPMENT
		No. of SAMPLES:	1

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

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@alsenviro.com

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Abbreviations: *% SPK REC denotes percentage spike recovery*
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery

CERTIFICATE OF ANALYSIS

Work Order: HK1105017
Date of Issue: 10/03/2011
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Multimeter

Item : HACH Turbidimeter
ALS Lab ID: HK1105017 -001
Date of Calibration: 08 March, 2011

Model No.: 2100P
Equipment No.: EL148
Serial No.: 931000003861

Testing Results :

Turbidity

Expected Reading	Recording Reading
0.00 NTU	0.35 NTU
4.00 NTU	3.82 NTU
40.0 NTU	41.5 NTU
80.0 NTU	78.8 NTU
400 NTU	416 NTU
Allowing Deviation	± 10%

Testing Method:

APHA (19th edition), 2130B

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd

CERTIFICATE OF ANALYSIS

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1104129
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	21/02/2011
		DATE OF ISSUE:	25/02/2011
		SAMPLE TYPE:	EQUIPMENT
PROJECT:	--	**No. of SAMPLES:**	1

COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

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@alsenviro.com

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Abbreviations: *% SPK REC denotes percentage spike recovery*
CHK denotes duplicate check sample
LOR denotes limit of reporting
LCS % REC denotes Laboratory Control Sample percentage recovery

CERTIFICATE OF ANALYSIS

Work Order: HK1104129
Date of Issue: 25/02/2011
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Multimeter

Item : HACH Turbidimeter
ALS Lab ID: HK1104129-001
Date of Calibration: 25 February, 2011

Model No.: 2100P
Equipment No.: --
Serial No.: 930300002705

Testing Results :

Turbidity

Expected Reading	Recording Reading
0.00 NTU	0.27 NTU
4.00 NTU	4.35 NTU
40.0 NTU	37.0 NTU
80.0 NTU	81.9 NTU
400 NTU	432 NTU
Allowing Deviation	± 10%

Testing Method:

APHA (19th edition), 2130B

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1110550
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	11/05/2011
		DATE OF ISSUE:	20/05/2011
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:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P
Serial No.:	1000032935
Equipment No.:	EN06
Date of Calibration:	20 May, 2011

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: HK1110550
Date of Issue: 20/05/2011
Client: LAM GEOTECHNICS LIMITED

Description: Turbidimeter
Brand Name: HACH
Model No.: 2100P
Serial No.: 1000032935
Equipment No.: EN06
Date of Calibration: 20 May, 2011 Date of next Calibration: 16 August, 2011

Parameters:

Turbidity **Method Ref: APHA (21st edition), 2130B**

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.0	0.0	--
4.0	3.9	-2.0
40.0	36.3	-9.3
80.0	76.0	-5.0
400.0	376.0	-6.0
800.0	778.0	-2.8
	Tolerance Limit (±%)	10.0

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 - Jun 28, 2010 Rootsmeter S/N 9833620 Ta (K) - 298
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 745.49

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	1.3860	3.2	2.00
2	NA	NA	1.00	0.9740	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8320	8.8	5.50
5	NA	NA	1.00	0.6850	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9767	0.7047	1.4006		0.9957	0.7184	0.8941
0.9725	0.9985	1.9808		0.9914	1.0179	1.2645
0.9704	1.1116	2.2146		0.9893	1.1332	1.4137
0.9693	1.1650	2.3227		0.9882	1.1877	1.4828
0.9641	1.4075	2.8013		0.9829	1.4349	1.7883
Qstd slope (m) =		1.99628		Qa slope (m) =		1.25003
intercept (b) =		-0.00699		intercept (b) =		-0.00446
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}

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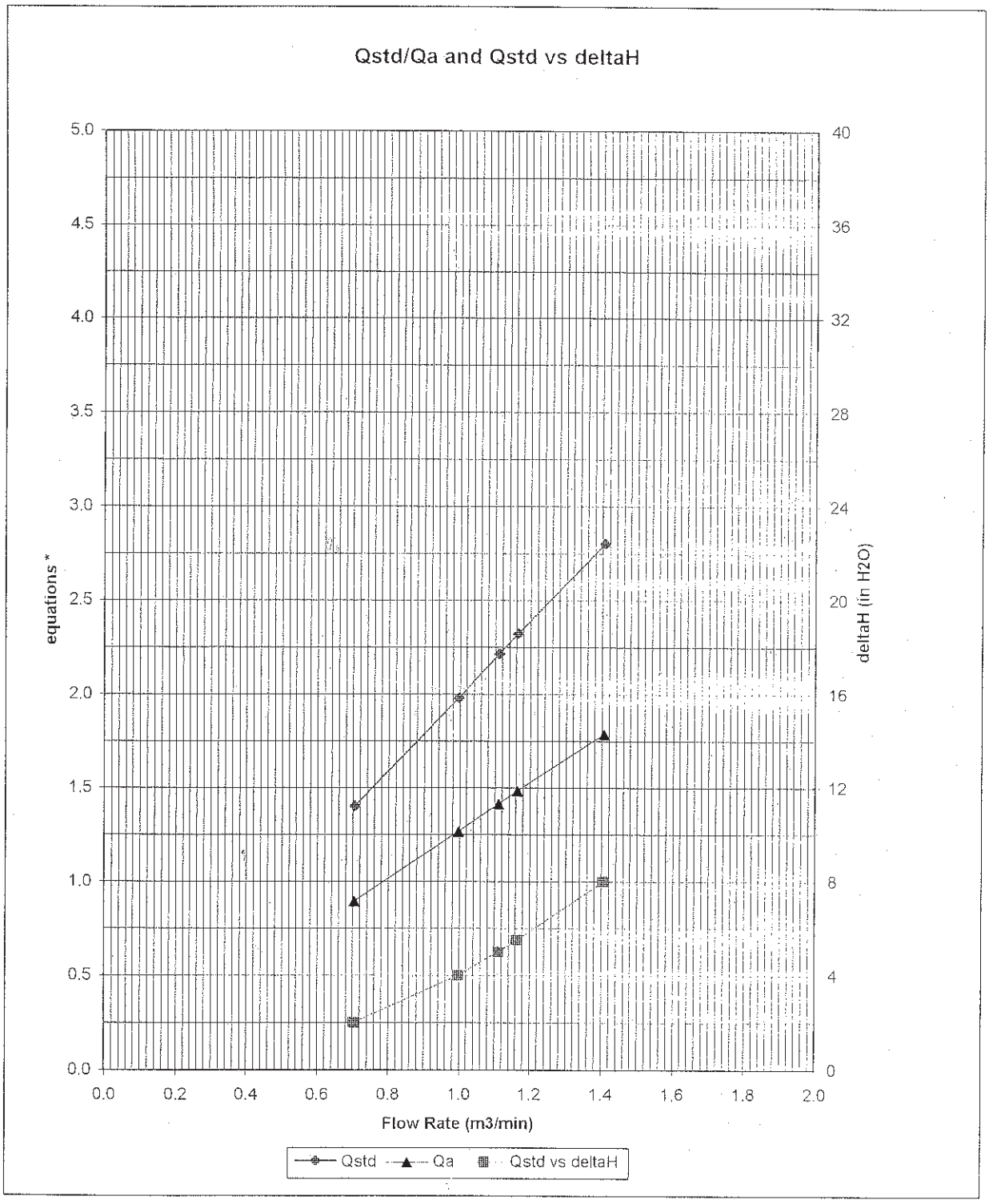
AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series: $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$

Qa series: $\sqrt{(\Delta H\ (Ta\ /\ Pa))}$

#0005

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	05-Mar-11
Equipment no.	:	EL452	**Calbration Due Date**	:	05-May-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	6.3	6.2	12.5	1.7968	60	60.9928
2	5.1	5.4	10.5	1.6470	53	53.8770
3	4.6	4.3	8.9	1.5165	47	47.7777
4	2.5	2.4	4.9	1.1259	36	36.5957
5	1.5	1.7	3.2	0.9104	26	26.4302

By Linear Regression of Y on X

Slope, m	=	37.0414	Intercept, b	=	-6.6987
Correlation Coefficient*	=	0.9952			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	05-Mar-11	**Date**	:	06-Mar-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	04-May-11
Equipment no.	:	EL452	**Calbration Due Date**	:	04-Jul-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	6.4	6.4	12.8	1.8182	62	63.0259
2	5.0	5.0	10.0	1.6074	53	53.8770
3	3.9	3.9	7.8	1.4199	46	46.7611
4	2.5	2.5	5	1.1373	35	35.5791
5	1.6	1.6	3.2	0.9104	25	25.4137

By Linear Regression of Y on X

Slope, m	=	40.9169	Intercept, b	=	-11.4784
Correlation Coefficient*	=	0.9997			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	04-May-11	**Date**	:	04-May-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	29-Apr-11
Equipment no.	:	EL449	**Calbration Due Date**	:	29-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	6.5	6.5	13	1.8324	51	51.8439
2	5.3	5.3	10.6	1.6548	45	45.7446
3	4.1	4.1	8.2	1.4558	38	38.6288
4	2.6	2.6	5.2	1.1598	27	27.4468
5	1.7	1.7	3.4	0.9383	15	15.2482

By Linear Regression of Y on X

Slope, m	=	40.1984	Intercept, b	=	-20.8256
Correlation Coefficient*	=	0.9957			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	29-Apr-11	**Date**	:	29-Apr-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	14-Mar-11
Equipment no.	:	EL888	**Calbration Due Date**	:	14-May-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1009	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	5.9	5.9	11.8	1.7225	41	41.1204
2	4.8	4.8	9.6	1.5539	36	36.1057
3	3.6	3.6	7.2	1.3461	33	33.0969
4	2.4	2.4	4.8	1.0995	27	27.0793
5	1.5	1.5	3.0	0.8698	21	21.0617

By Linear Regression of Y on X

Slope, m	=	22.7581	Intercept, b	=	1.6896
Correlation Coefficient*	=	0.9962			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	14-Mar-11	**Date**	:	14-Mar-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	04-May-11
Equipment no.	:	EL888	**Calbration Due Date**	:	04-Jul-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	295	Kelvin	**Pressure, P_a**	1009	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	5.9	5.9	11.8	1.7225	48	48.1410
2	4.7	4.7	9.4	1.5377	42	42.1234
3	3.6	3.6	7.2	1.3461	36	36.1057
4	2.4	2.8	5.2	1.1443	28	28.0822
5	1.6	1.4	3.0	0.8698	14	14.0411

By Linear Regression of Y on X

Slope, m	=	39.5583	Intercept, b	=	-18.6790
Correlation Coefficient*	=	0.9935			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	04-May-11	**Date**	:	04-May-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	11-Mar-11
Equipment no.	:	EL390	**Calbration Due Date**	:	11-May-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1016	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	5.8	5.8	11.6	1.7196	57	57.5608
2	4.7	4.7	9.4	1.5482	50	50.4920
3	3.6	3.6	7.2	1.3553	43	43.4231
4	2.4	2.4	4.8	1.1071	31	31.3050
5	1.4	1.4	2.8	0.8461	21	21.2066

By Linear Regression of Y on X

Slope, m	=	42.0637	Intercept, b	=	-14.5276
Correlation Coefficient*	=	0.9991			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	11-Mar-11	**Date**	:	11-Mar-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	04-May-11
Equipment no.	:	EL390	**Calbration Due Date**	:	04-Jul-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	293	Kelvin	**Pressure, P_a**	1016	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

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	6	12	1.7490	56	56.5510
2	4.7	4.7	9.4	1.5482	49	49.4821
3	3.7	3.7	7.4	1.3740	42	42.4132
4	2.4	2.4	4.8	1.1071	34	34.3345
5	1.5	1.5	3.0	0.8757	23	23.2263

By Linear Regression of Y on X

Slope, m	=	37.3850	Intercept, b	=	-8.5502
Correlation Coefficient*	=	0.9975			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	04-May-11	**Date**	:	04-May-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	09-Apr-11
Equipment no.	:	EL380	**Calbration Due Date**	:	09-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	5.9	5.9	11.8	1.7459	56	56.9266
2	4.8	4.8	9.6	1.5750	50	50.8273
3	3.7	3.7	7.4	1.3831	44	44.7280
4	2.3	2.3	4.6	1.0910	33	33.5460
5	1.4	1.4	2.8	0.8517	22	22.3640

By Linear Regression of Y on X

Slope, m	=	38.1982	Intercept, b	=	-9.0993
Correlation Coefficient*	=	0.9977			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	09-Apr-11	**Date**	:	11-Apr-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	09-Apr-11
Equipment no.	:	EL448	**Calbration Due Date**	:	09-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	290	Kelvin	**Pressure, P_a**	1019	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.00300	**Intercept, bc**	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	28-Jun-11	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	5.9	5.9	11.8	1.7459	56	56.9266
2	4.8	4.8	9.6	1.5750	50	50.8273
3	3.7	3.7	7.4	1.3831	44	44.7280
4	2.3	2.3	4.6	1.0910	33	33.5460
5	1.4	1.4	2.8	0.8517	22	22.3640

By Linear Regression of Y on X

Slope, m	=	38.1982	Intercept, b	=	-9.0993
Correlation Coefficient*	=	0.9977			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Derek Lo	**Checked by**	:	Cherry Mak
Date	:	09-Apr-11	**Date**	:	11-Apr-11

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)

Tentative Environmental Monitoring Schedule
May 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr Impact WQM Mid-flood: 15:19 Mid-ebb: 21:35	29-Apr	30-Apr 24hr TSP Impact WQM Mid-ebb: 11:02 Mid-flood: 17:00
1-May	**2-May**	3-May 1hr TSP x 3 Impact WQM Mid-ebb: 12:25 Mid-flood: 19:03	4-May Noise (Day time) Noise (Restricted hr) 1900-2300	5-May Impact WQM Mid-ebb: 13:18 Mid-flood: 20:22	6-May 24hr TSP	7-May 1hr TSP x 3 Impact WQM Mid-ebb: 14:15 Mid-flood: 21:58
8-May	9-May Impact WQM Mid-ebb 16:01	**10-May** Impact WQM Mid-flood: 0:07	11-May Noise (Day time) Noise (Restricted hr) 1900-2300	12-May 24hr TSP Impact WQM Mid-flood: 13:17 Mid-ebb: 20:01	13-May 1hr TSP x 3	14-May Impact WQM Mid-ebb: 9:46 Mid-flood: 16:00
15-May	16-May Impact WQM Mid-ebb: 11:16 Mid-flood: 18:01	17-May Noise (Day time) Noise (Restricted hr) 1900-2300	18-May 24hr TSP Impact WQM Mid-ebb: 12:47 Mid-flood: 19:53	19-May 1hr TSP x 3	20-May Impact WQM Mid-ebb: 14:22 Mid-flood: 21:39	21-May
22-May	23-May Impact WQM Mid-ebb: 16:41	24-May 24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2300 Impact WQM Mid-flood: 0:22	25-May 1hr TSP x 3 Impact WQM Mid-ebb: 18:21	26-May Impact WQM Mid-flood: 1:59	27-May	28-May Impact WQM Mid-flood: 3:08 Mid-ebb: 9:59

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)

Tentative Environmental Monitoring Schedule
May 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						28-May Impact WQM Mid-flood: 3:08 Mid-ebb: 9:59
29-May	30-May 24hr TSP Impact WQM Mid-ebb: 11:00 Mid-flood: 17:37	31-May 1hr TSP x 3	1-Jun Impact WQM Mid-ebb: 11:57 Mid-flood: 18:57	2-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	3-Jun 24hr TSP Impact WQM Mid-ebb: 13:08 Mid-flood: 20:17	4-Jun 1hr TSP x 3
5-Jun	**6-Jun**	7-Jun Impact WQM Mid-ebb: 16:11 Mid-flood: 23:31	8-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	9-Jun 24hr TSP Impact WQM Mid-flood: 11:36 Mid-ebb: 18:18	10-Jun 1hr TSP x 3	11-Jun Impact WQM Mid-flood: 14:45 Mid-ebb: 20:37
12-Jun	13-Jun Impact WQM Mid-ebb: 10:16 Mid-flood: 17:11	14-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	15-Jun 24hr TSP Impact WQM Mid-ebb: 11:50 Mid-flood: 19:06	16-Jun 1hr TSP x 3	17-Jun Impact WQM Mid-ebb: 13:23 Mid-flood: 20:39	18-Jun
19-Jun	20-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	21-Jun 24hr TSP Impact WQM Mid-flood: 9:08 Mid-ebb: 15:56	22-Jun 1hr TSP x 3	23-Jun Impact WQM Mid-ebb: 17:05	24-Jun Impact WQM Mid-flood: 0:42	25-Jun
26-Jun Impact WQM Mid-flood: 1:49 Mid-ebb: 9:22	27-Jun 24hr TSP					

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)

Tentative Environmental Monitoring Schedule
July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Jun	27-Jun 24hr TSP	28-Jun 1hr TSP x 3 Impact WQM Mid-ebb: 10:28 Mid-flood: 17:36	29-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	30-Jun Impact WQM Mid-ebb: 11:38 Mid-flood: 18:54	**1-Jul**	2-Jul 24hr TSP Impact WQM Mid-ebb: 13:01 Mid-flood: 20:06
3-Jul	4-Jul 1hr TSP x 3 Impact WQM Mid-ebb: 14:28 Mid-flood: 21:23	5-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	6-Jul Impact WQM Mid-ebb: 15:56 Mid-flood: 22:48	7-Jul	8-Jul 24hr TSP Impact WQM Mid-flood: 11:38 Mid-ebb: 17:52	9-Jul 1hr TSP x 3
10-Jul	11-Jul	12-Jul Impact WQM Mid-ebb: 10:11 Mid-flood: 17:32	13-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	14-Jul 24hr TSP Impact WQM Mid-ebb: 11:43 Mid-flood: 19:03	15-Jul 1hr TSP x 3	16-Jul Impact WQM Mid-ebb: 13:06 Mid-flood: 20:15
17-Jul	18-Jul Impact WQM Mid-ebb: 14:16 Mid-flood: 21:18	19-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	20-Jul 24hr TSP Impact WQM Mid-ebb: 15:18 Mid-flood: 22:17	21-Jul 1hr TSP x 3	22-Jul Impact WQM Mid-ebb: 16:18 Mid-flood: 23:19	23-Jul
24-Jul	25-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	26-Jul 24hr TSP Impact WQM Mid-ebb: 9:21 Mid-flood: 21:42	27-Jul 1hr TSP x 3	28-Jul Impact WQM Mid-ebb: 10:39 Mid-flood: 18:10	29-Jul	30-Jul Impact WQM Mid-ebb: 12:02 Mid-flood: 19:05
31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)

Remarks (Water)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Water Quality Monitoring Stations corresponding to active contracts are sub-divided below:
   - Contract HY/2009/11: WSD9, WSD10, WSD15, WSD17, C8, C9 (Commenced on 23 March 2010)
   - Contract HY/2009/15: C6 and C7 (Commenced on 9 Nov 2010)
   - Contract HK/2009/01: WSD7, WSD19, WSD20, C1(Shared with Contract HK/2010/06), C2, C3, C4e, C4w (Commenced on 8 July 2010)
   - Contract HK/2009/02: WSD21, C5e, C5w (Commenced on 8 July 2010)

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
   - Contract HK/2009/01: CMA5a and CMA6a (Commenced and reported in Apr 2011)
   - Contract HK/2009/02: (Commenced and reported in Feb 2011)
   - Contract HY/2009/11: CMA1b and CMA2a (Commenced on 17 Jun 2010, To be reported in Monthly report on 11 Aug 2010) and CMA2a (Commenced on 12 May 2010, To be reported in Monthly report on 11 Aug 2010
   - Contract HY/2009/15: CMA3a (Commenced and reported on 15 Mar 2011)
   - Contract 04/HY/2006: MA1e and MA1w (Commenced and reported on 9 Sep 2010)

Remarks (Noise)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Noise Quality Monitoring Stations corresponding to active contracts are sub-divided below:
   - Contract HK/2009/01 and HK/2009/02: M1a (Commenced on 30 Mar 2010, To be reported in Monthly report on 6 July 2010)
   - Contract HY/2009/11: M4b, M5b (Commenced on 23 Mar 2010 when dredging work starts)
   - Contract HY/2009/15: M2b(Commenced and reported on 10 Nov 2010) and M3a (Commenced on 10 May 2010, To be reported in Monthly report on 10 Nov 2010)
   - Contract 04/HY/2006: M7e, M7w (Commenced ane reported on 30 Aug 2010)
4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).
5. Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force for the following contract(s): Contracts HY/2009/11, HY/2009/11, HK/2009/01 and HK/2009/02

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)					
04/05/11	10:40	Cloudy	73.2	75.7	67.5	69.2	71	75
11/05/11	11:00	Fine	72.8	75.4	68.6	69.2	70	75
17/05/11	10:50	Cloudy	73.4	76.2	67.7	69.2	71	75
24/05/11	10:28	Cloudy	72.4	74.5	69.8	69.2	70	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)					
04/05/11	16:37	Cloudy	68.3	70.1	65.7	-	68	75
11/05/11	14:18	Fine	67.7	69.0	65.8	-	68	75
17/05/11	16:13	Cloudy	67.7	69.2	65.8	-	68	75
24/05/11	11:13	Cloudy	68.5	71.2	65.3	-	69	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)					
04/05/11	15:43	Cloudy	69.2	70.7	67.2	-	69	75
11/05/11	15:02	Fine	67.2	68.9	64.4	-	67	75
17/05/11	13:00	Cloudy	68.6	70.4	65.8	-	69	75
24/05/11	14:35	Cloudy	69.5	70.4	67.3	-	70	75

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

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)					
04/05/11	13:00	Cloudy	68.9	70.5	67.1	-	69	75
11/05/11	15:45	Cloudy	72.9	74.5	70.5	-	73	75
17/05/11	13:53	Cloudy	71.3	71.9	67.9	-	71	75
24/05/11	13:00	Cloudy	72.4	74.5	70.1	-	72	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)					
04/05/11	14:43	Cloudy	70.8	72.0	69.4	-	71	75
11/05/11	11:22	Fine	66.7	67.9	65.2	-	67	75
17/05/11	15:21	Cloudy	71.5	72.5	69.9	-	72	75
24/05/11	16:21	Cloudy	70.0	72.0	67.8	-	70	75

Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
04/05/11	19:21	Fine	71.2	73.7	68.9	71.1	61.1	71	70
	19:26		70.5	73.2	69.0				
	19:31		71.5	74.2	68.8				
11/05/11	19:15	Fine	71.8	73.6	69.0	71.8	61.1	71	70
	19:20		71.4	73.5	68.4				
	19:25		72.2	74.5	68.8				
17/05/11	19:15	Fine	71.6	74.0	66.7	72.6	61.1	72	70
	19:20		73.0	75.5	68.5				
	19:25		73.2	76.2	68.1				
24/05/11	19:17	Fine	72.9	75.4	69.0	72.9	61.1	73	70
	19:22		72.9	75.6	69.4				
	19:27		73.0	76.1	68.3				

Location: M2b -Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
04/05/11	20:02	Fine	68.0	69.0	64.0	68.7	-	69	70
	20:07		69.3	70.7	67.7				
	20:12		68.7	69.8	67.5				
11/05/11	19:50	Fine	69.0	70.7	66.9	69.0	-	69	70
	19:55		69.2	70.6	67.5				
	20:00		68.9	70.4	67.2				
17/05/11	19:47	Fine	69.5	71.8	64.8	69.5	-	69	70
	19:52		69.1	72.1	64.7				
	19:57		69.8	72.6	65.7				
24/05/11	20:20	Fine	66.5	68.1	64.7	67.4	-	67	70
	20:25		67.0	69.6	64.7				
	20:30		68.8	70.9	65.0				

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
04/05/11	20:40	Fine	68.0	69.7	66.2	68.3	-	68	70
	20:45		68.7	70.3	66.5				
	20:50		68.2	70.0	66.0				
11/05/11	20:18	Fine	68.3	70.2	65.0	68.5	-	68	70
	20:23		68.3	70.2	65.0				
	20:28		68.8	71.0	65.0				
17/05/11	20:15	Fine	67.6	68.7	63.7	66.6	-	67	70
	20:20		65.8	67.9	63.0				
	20:25		66.5	68.5	64.2				
24/05/11	20:54	Fine	65.8	69.4	62.5	65.4	-	65	70
	20:59		64.6	68.5	63.1				
	21:04		65.8	68.6	61.7				

Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

Location: M4b - Victoria Centre

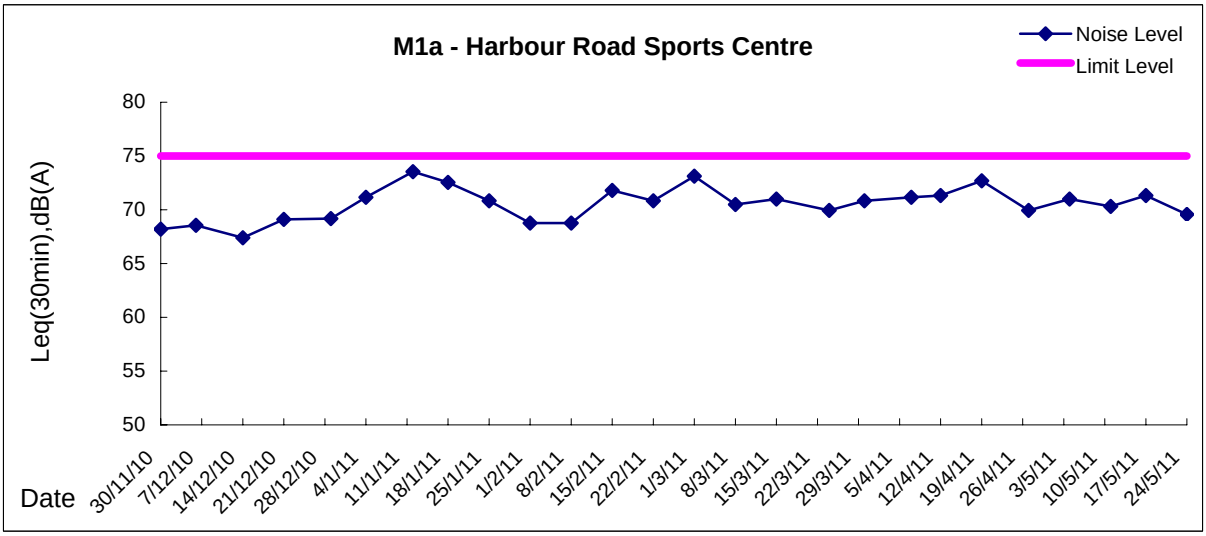
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
04/05/11	21:07	Fine	67.6	69.4	65.4	67.4	-	67	70
	21:12		67.1	68.6	65.5				
	21:17		67.4	68.8	65.7				
11/05/11	20:46	FIne	67.2	69.0	65.1	66.9	-	67	70
	20:51		66.5	68.0	64.7				
	20:56		67.0	68.8	65.1				
17/05/11	20:47	Fine	68.0	69.1	65.2	67.6	-	68	70
	20:52		67.3	68.7	65.2				
	20:57		67.4	69.4	65.1				
24/05/11	19:17	Fine	66.5	68.3	64.4	66.8	-	67	70
	19:22		67.3	68.8	64.9				
	19:27		66.6	68.4	64.8				

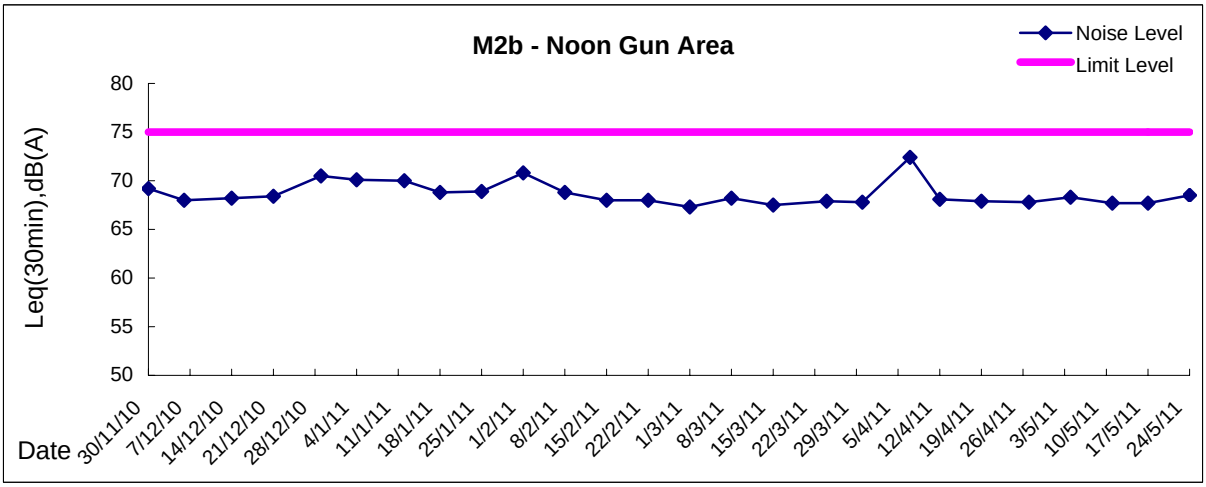
Location: M5b - City Garden

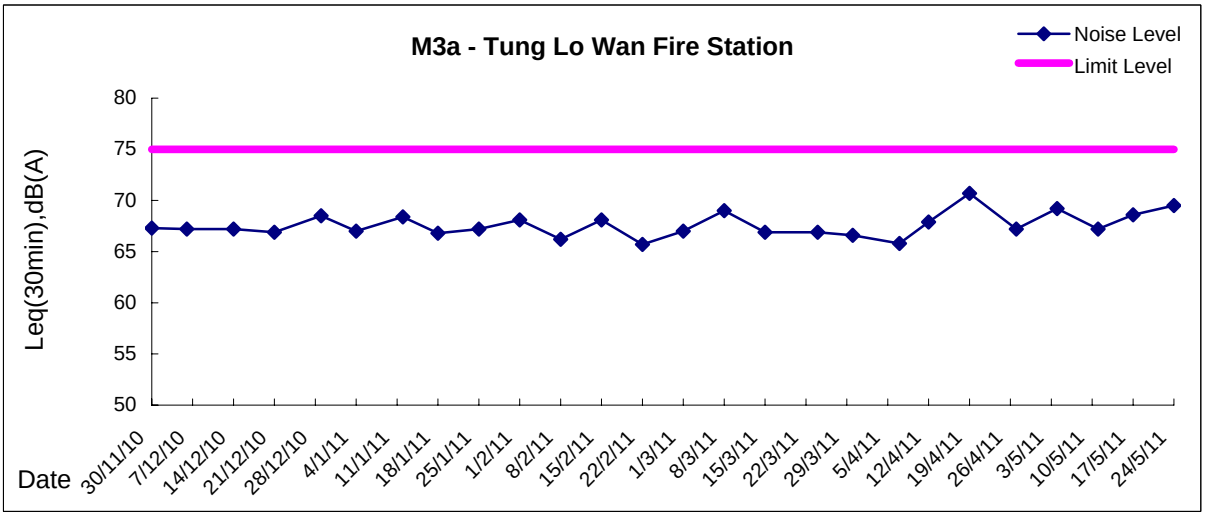
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
04/05/11	21:40	Fine	69.7	69.9	67.8	69.3	-	69	70
	21:45		69.4	70.4	67.7				
	21:50		68.7	69.2	67.6				
11/05/11	21:15	FIne	66.9	67.6	66.0	67.2	-	67	70
	21:20		67.4	68.3	66.6				
	21:25		67.3	68.4	66.3				
17/05/11	21:03	Fine	67.8	68.6	65.3	67.2	-	67	70
	21:08		66.6	67.7	65.2				
	21:13		67.2	68.7	65.6				
24/05/11	19:17	Fine	69.6	70.6	68.2	69.4	-	69	70
	19:22		69.4	70.5	68.3				
	19:27		69.2	70.2	68.1				

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

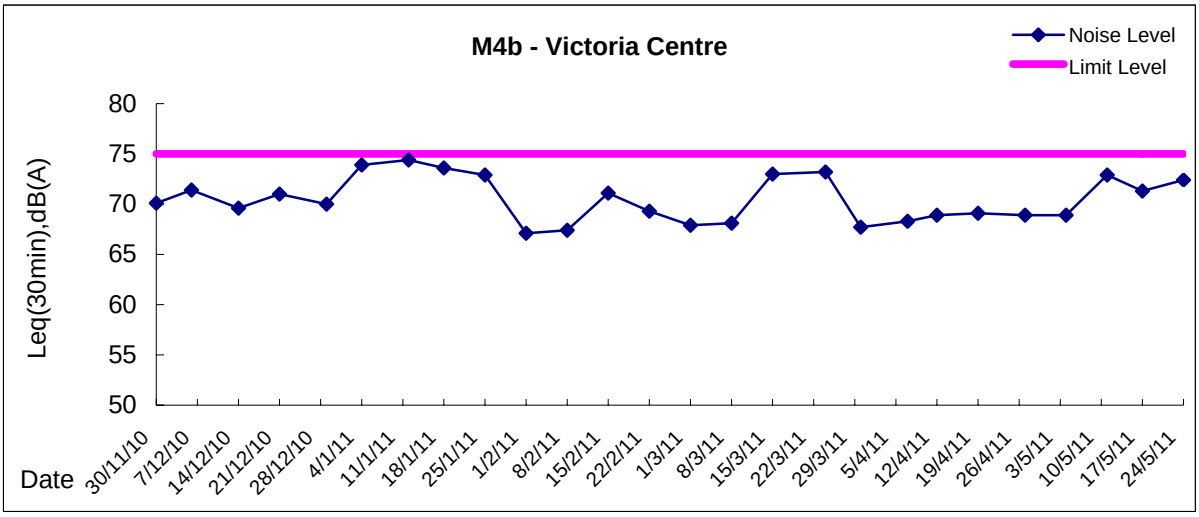


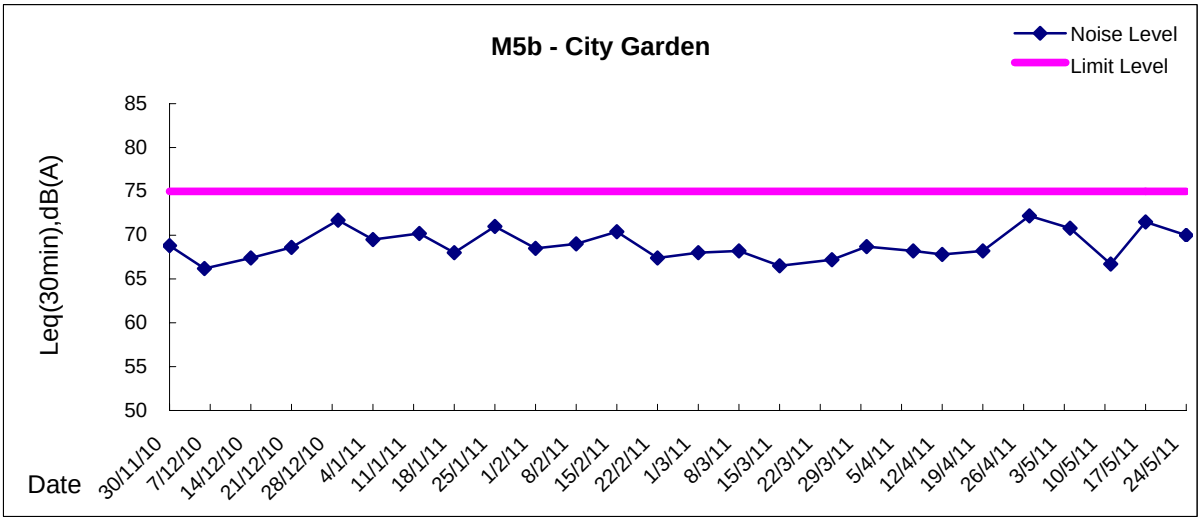




Graphic Presentation of Noise Monitoring Result

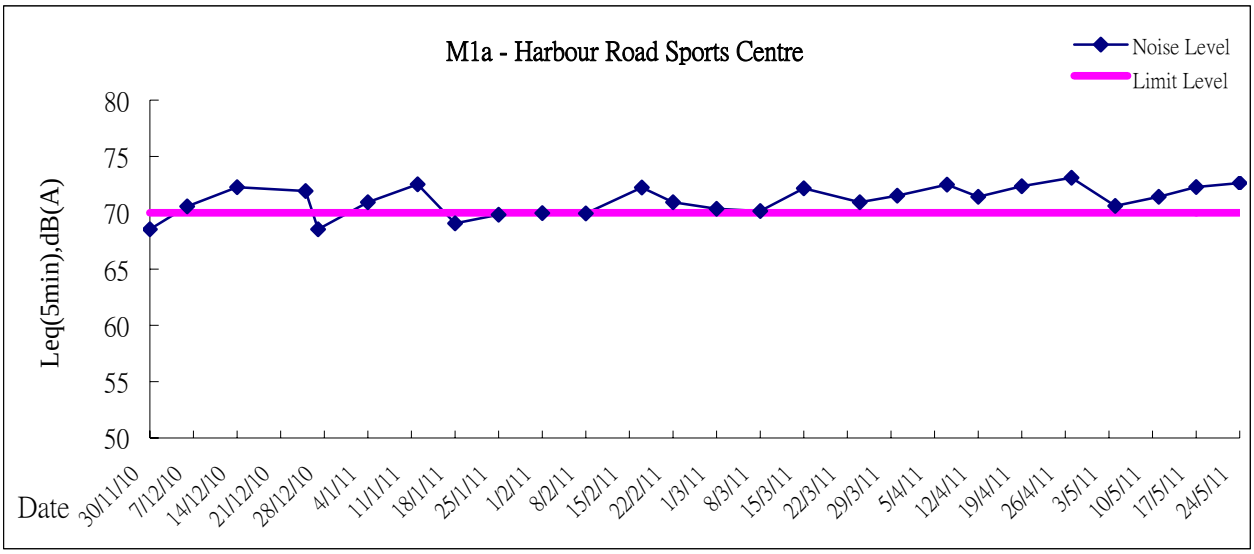
Day Time (0700 - 1900hrs on normal weekdays)

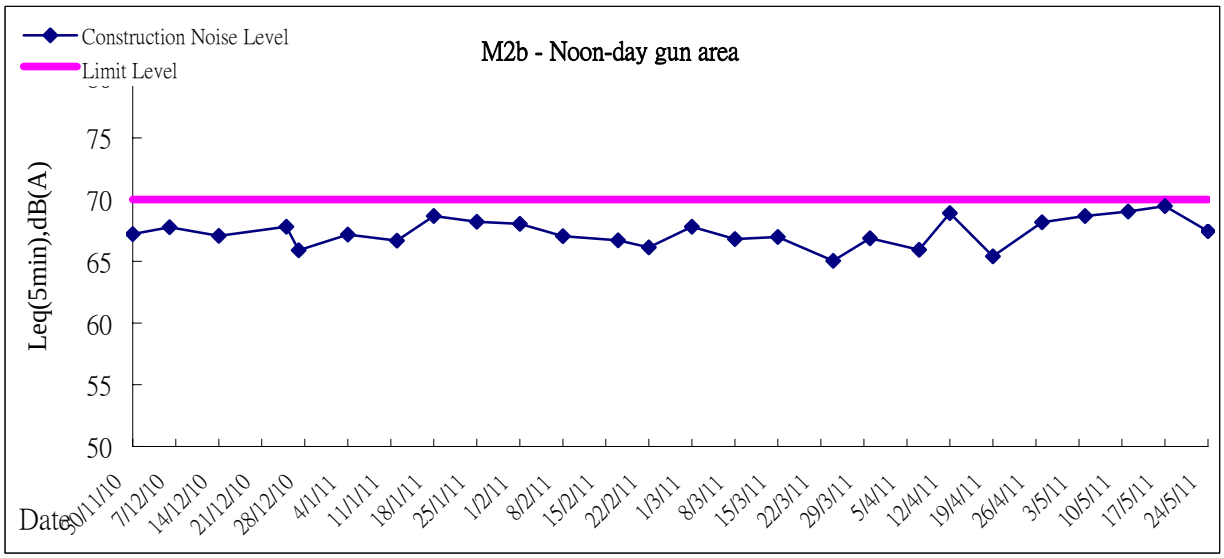


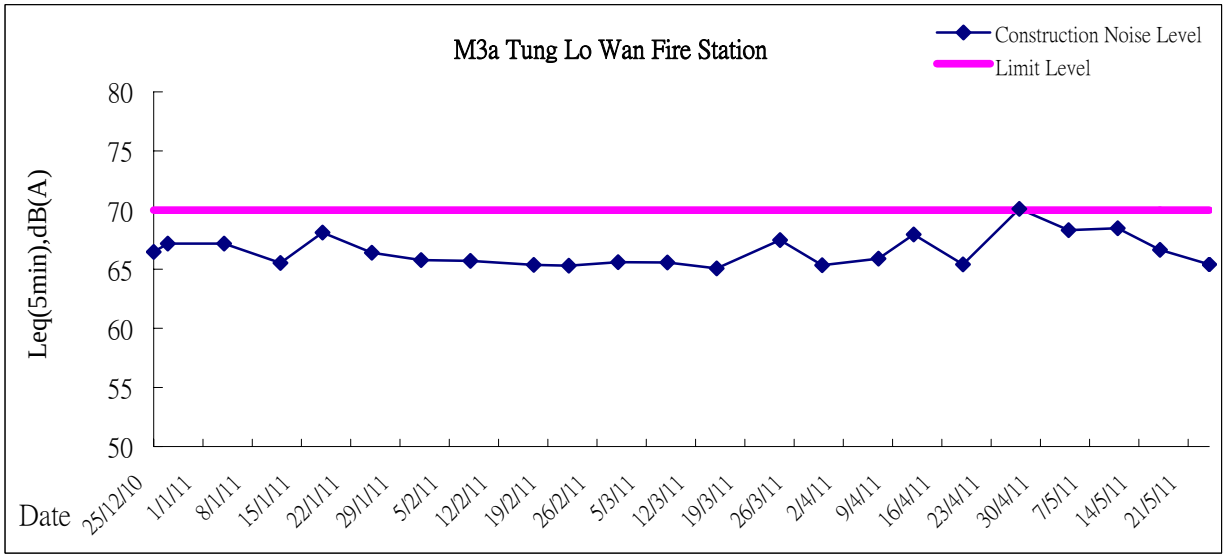


Graphic Presentation of Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

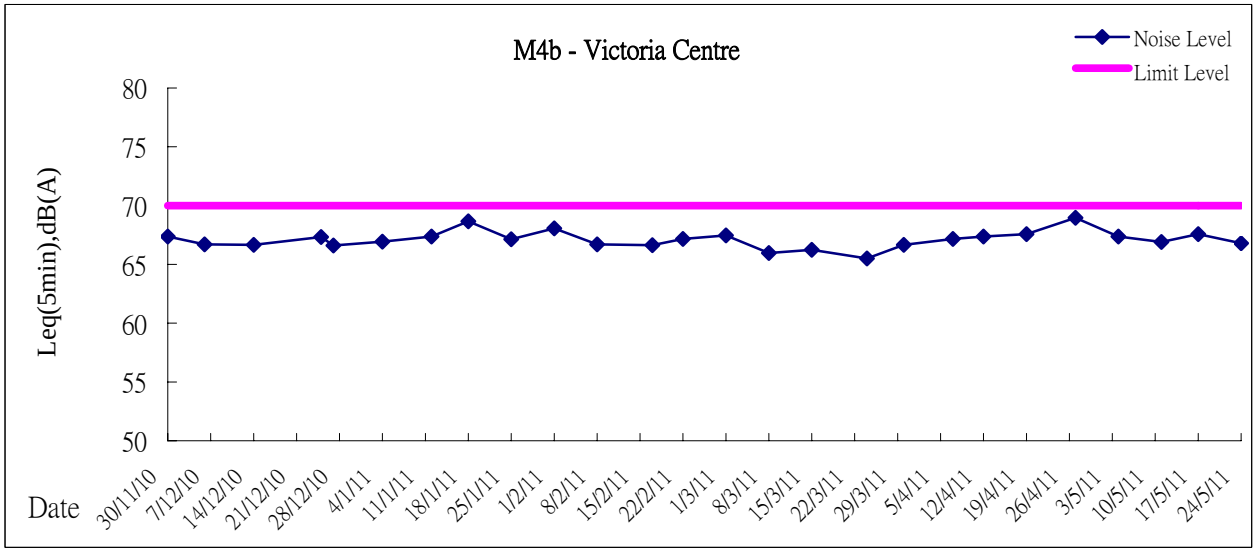


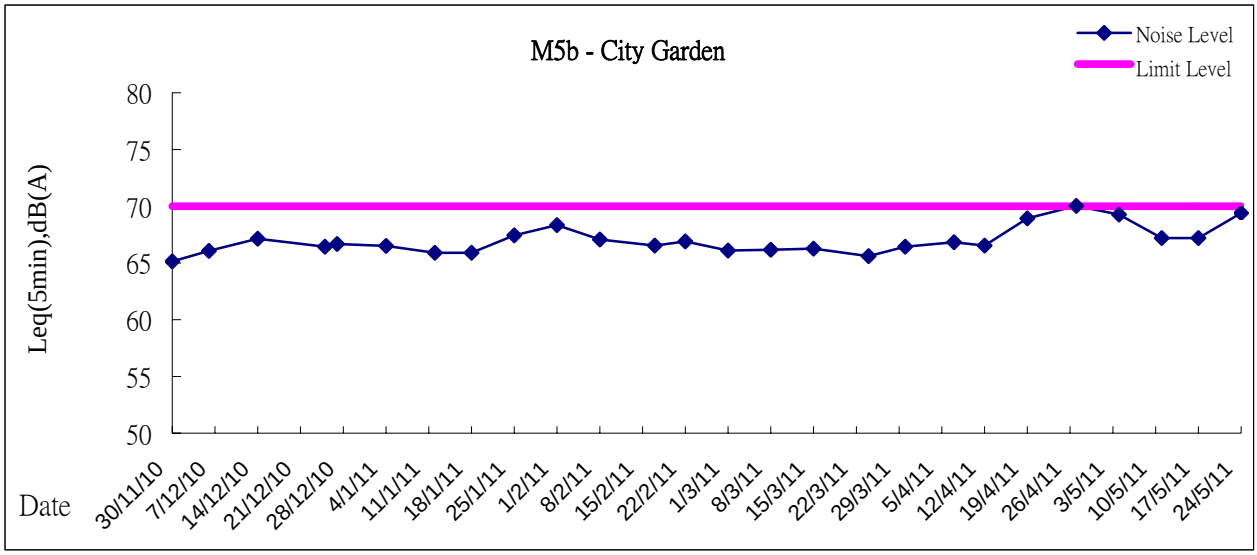




Graphic Presentation of Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

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		
30-Apr-11	08:00	Fine	000339	2.7333	2.9180	9206.00	9230.00	24.00	1.23	1.23	1.23	1774	104
06-May-11	08:00	Fine	000190	2.7439	2.8793	9233.00	9257.00	24.00	1.21	1.21	1.21	1749	77
12-May-11	08:00	Fine	000490	2.7656	2.8888	9260.00	9284.00	24.00	1.12	1.12	1.12	1614	76
18-May-11	08:00	Fine	000240	2.7466	2.8989	9287.00	9311.00	24.00	1.19	1.19	1.19	1712	89
24-May-11	09:00	Fine	000497	2.7627	2.8422	9314.00	9338.00	24.00	1.22	1.22	1.22	1756	45

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		
03-May-11	08:00	Fine	000115	2.8205	2.8344	9230.00	9231.00	1.00	0.99	0.99	0.99	59	234
03-May-11	09:00	Fine	000105	2.8119	2.8197	9231.00	9232.00	1.00	0.89	0.99	0.94	56	138
03-May-11	11:00	Fine	000106	2.8210	2.8307	9232.00	9233.00	1.00	1.22	1.22	1.22	73	132
07-May-11	10:20	Fine	000369	2.7399	2.7577	9257.00	9258.00	1.00	1.21	1.21	1.21	73	244
07-May-11	13:00	Fine	000488	2.7806	2.7956	9258.00	9259.00	1.00	1.21	1.21	1.21	73	206
07-May-11	14:00	Fine	000103	2.7993	2.8070	9259.00	9260.00	1.00	0.98	0.98	0.98	59	131
13-May-11	09:45	Rainy	000491	2.7711	2.7780	9284.00	9285.00	1.00	1.22	1.22	1.22	73	95
13-May-11	10:49	Rainy	000493	2.7753	2.7853	9285.00	9286.00	1.00	1.22	1.22	1.22	73	137
13-May-11	11:52	Rainy	000239	2.7568	2.7662	9286.00	9287.00	1.00	1.22	1.22	1.22	73	129
19-May-11	09:00	Fine	000495	2.7499	2.7609	9311.00	9312.00	1.00	1.21	1.22	1.21	73	151
19-May-11	10:15	Fine	000152	2.7720	2.7823	9312.00	9313.00	1.00	1.21	1.22	1.21	73	141
19-May-11	13:00	Fine	000154	2.7802	2.7898	9313.00	9314.00	1.00	1.21	1.22	1.21	73	132
25-May-11	09:10	Fine	000579	2.7979	2.8033	9338.00	9339.00	1.00	1.24	1.22	1.23	74	73
25-May-11	10:15	Fine	000576	2.8018	2.8074	9339.00	9340.00	1.00	1.22	1.22	1.22	73	77
25-May-11	13:00	Fine	000577	2.7949	2.8001	9340.00	9341.00	1.00	1.17	1.15	1.16	70	75

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		
30-Apr-11	08:00	Fine	000338	2.7647	2.9490	13613.01	13637.01	24.00	1.53	1.53	1.53	2210	83
06-May-11	08:00	Fine	000189	2.7511	2.8312	13640.01	13664.01	24.00	1.47	1.47	1.47	2115	38
12-May-11	08:00	Fine	000350	2.7210	2.8281	13667.01	13691.01	24.00	1.49	1.50	1.49	2149	50
18-May-11	08:00	Fine	000176	2.7431	2.8836	13694.01	13718.01	24.00	1.52	1.51	1.51	2180	64
24-May-11	08:00	Fine	000496	2.7638	2.8598	13721.01	13745.01	24.00	1.48	1.52	1.50	2157	45

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		
03-May-11	08:00	Fine	000188	2.7521	2.7597	13637.01	13638.01	1.00	1.60	1.60	1.60	96	79
03-May-11	09:00	Fine	000114	2.8160	2.8242	13638.01	13639.01	1.00	1.53	1.53	1.53	92	89
03-May-11	10:00	Fine	000116	2.8053	2.8139	13639.01	13640.01	1.00	1.48	1.48	1.48	89	97
07-May-11	10:07	Fine	000368	2.7445	2.7530	13664.01	13665.01	1.00	1.59	1.59	1.59	95	89
07-May-11	13:00	Fine	000489	2.7656	2.7742	13665.01	13666.01	1.00	1.47	1.47	1.47	88	98
07-May-11	14:00	Fine	000104	2.7930	2.8007	13666.01	13667.01	1.00	1.49	1.49	1.49	90	86
13-May-11	09:00	Rainy	000498	2.7625	2.7691	13691.01	13692.01	1.00	1.47	1.47	1.47	88	75
13-May-11	10:00	Rainy	000492	2.7608	2.7677	13692.01	13693.01	1.00	1.47	1.47	1.47	88	78
13-May-11	11:00	Rainy	000238	2.7389	2.7489	13693.01	13694.01	1.00	1.47	1.47	1.47	88	113
19-May-11	08:15	Fine	000151	2.7553	2.7655	13718.01	13719.01	1.00	1.47	1.47	1.47	88	116
19-May-11	10:00	Fine	000153	2.7617	2.7716	13719.01	13720.01	1.00	1.47	1.47	1.47	88	113
19-May-11	11:00	Fine	000155	2.7760	2.7869	13720.01	13721.01	1.00	1.47	1.47	1.47	88	124
25-May-11	09:25	Cloudy	000578	2.7952	2.8021	13745.01	13746.01	1.00	1.52	1.52	1.52	91	76
25-May-11	10:40	Cloudy	000574	2.7878	2.7966	13746.01	13747.01	1.00	1.52	1.52	1.52	91	96
25-May-11	13:00	Cloudy	000505	2.7771	2.7842	13747.01	13748.01	1.00	1.47	1.52	1.50	90	79

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		
30-Apr-11	08:00	Fine	000222	2.7235	2.9126	9521.17	9545.17	24.00	1.43	1.43	1.43	2066	92
06-May-11	08:00	Fine	000460	2.7498	2.8535	9548.17	9572.17	24.00	1.46	1.46	1.46	2106	49
12-May-11	08:00	Fine	000374	2.7435	2.8725	9575.17	9599.17	24.00	1.48	1.49	1.49	2140	60
18-May-11	08:00	Fine	000563	2.7883	2.9396	9602.17	9626.17	24.00	1.51	1.51	1.51	2172	70
24-May-11	08:00	Fine	000534	2.8010	2.9076	9629.17	9653.17	24.00	1.54	1.54	1.54	2219	48

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		
03-May-11	10:00	Fine	000234	2.7423	2.7513	9545.17	9546.17	1.00	1.43	1.43	1.43	86	105
03-May-11	11:00	Fine	000279	2.7438	2.7534	9546.17	9547.17	1.00	1.43	1.43	1.43	86	111
03-May-11	13:00	Fine	000210	2.7369	2.7477	9547.17	9548.17	1.00	1.43	1.43	1.43	86	125
07-May-11	08:45	Fine	000388	2.7607	2.7685	9572.17	9573.17	1.00	1.46	1.46	1.46	88	89
07-May-11	09:52	Fine	000367	2.7480	2.7574	9573.17	9574.17	1.00	1.49	1.49	1.49	89	105
07-May-11	13:00	Fine	000373	2.7412	2.7507	9574.17	9575.17	1.00	1.46	1.46	1.46	88	108
13-May-11	10:25	Rainy	000494	2.7640	2.7747	9599.17	9600.17	1.00	1.49	1.49	1.49	89	120
13-May-11	14:20	Rainy	000567	2.7869	2.8064	9600.17	9601.17	1.00	1.49	1.49	1.49	89	218
13-May-11	16:55	Rainy	000565	2.7814	2.7930	9601.17	9602.17	1.00	1.49	1.49	1.49	89	130
19-May-11	10:12	Fine	000393	2.7402	2.7512	9626.17	9627.17	1.00	1.39	1.39	1.39	83	132
19-May-11	13:55	Fine	000530	2.7997	2.8103	9627.17	9628.17	1.00	1.39	1.39	1.39	83	127
19-May-11	16:55	Fine	000532	2.8289	2.8395	9628.17	9629.17	1.00	1.39	1.43	1.41	85	125
25-May-11	09:40	Fine	000465	2.7695	2.7787	9653.17	9654.17	1.00	1.52	1.52	1.52	91	101
25-May-11	10:45	Fine	000470	2.7788	2.7893	9654.17	9655.17	1.00	1.52	1.52	1.52	91	116
25-May-11	13:00	Fine	000472	2.8075	2.8158	9655.17	9656.17	1.00	1.52	1.52	1.52	91	91

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		
30-Apr-11	08:00	Fine	000219	2.7197	2.8860	13075.50	13099.50	24.00	1.25	1.25	1.25	1796	93
06-May-11	08:00	Fine	000375	2.7547	2.8099	13102.50	13126.50	24.00	1.28	1.28	1.28	1838	30
12-May-11	08:00	Fine	000433	2.8197	2.9146	13129.50	13153.50	24.00	1.27	1.28	1.28	1836	52
18-May-11	08:00	Fine	000564	2.7727	2.8975	13156.50	13180.50	24.00	1.25	1.25	1.25	1798	69
24-May-11	08:00	Fine	000535	2.8005	2.8872	13183.50	13207.50	24.00	1.31	1.31	1.31	1882	46

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		
03-May-11	09:45	Fine	000226	2.7427	2.7499	13099.50	13100.50	1.00	1.25	1.25	1.25	75	96
03-May-11	10:50	Fine	000235	2.7586	2.7658	13100.50	13101.50	1.00	1.25	1.25	1.25	75	96
03-May-11	13:00	Fine	000261	2.7289	2.7359	13101.50	13102.50	1.00	1.25	1.25	1.25	75	94
07-May-11	08:30	Fine	000387	2.7460	2.7537	13126.50	13127.50	1.00	1.25	1.25	1.25	75	103
07-May-11	09:36	Fine	000337	2.7614	2.7662	13127.50	13128.50	1.00	1.25	1.25	1.25	75	64
07-May-11	13:00	Fine	000372	2.7425	2.7500	13128.50	13129.50	1.00	1.25	1.25	1.25	75	100
13-May-11	10:45	Rainy	000237	2.7415	2.7493	13153.50	13154.50	1.00	1.31	1.31	1.31	78	100
13-May-11	14:04	Rainy	000568	2.7682	2.7850	13154.50	13155.50	1.00	1.31	1.31	1.31	78	214
13-May-11	16:42	Rainy	000566	2.7703	2.7821	13155.50	13156.50	1.00	1.31	1.31	1.31	78	151
19-May-11	10:00	Fine	000392	2.7483	2.7564	13180.50	13181.50	1.00	1.25	1.25	1.25	75	108
19-May-11	14:10	Fine	000531	2.8066	2.8150	13181.50	13182.50	1.00	1.25	1.25	1.25	75	112
19-May-11	15:30	Fine	000533	2.7825	2.7911	13182.50	13183.50	1.00	1.25	1.25	1.25	75	115
25-May-11	09:43	Fine	000410	2.7433	2.7510	13207.50	13208.50	1.00	1.31	1.31	1.31	78	98
25-May-11	10:50	Fine	000471	2.7850	2.7930	13208.50	13209.50	1.00	1.31	1.31	1.31	78	102
25-May-11	13:00	Fine	000473	2.7831	2.7889	13209.50	13210.50	1.00	1.15	1.15	1.15	69	84

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 181 181

Limit Level (μg/m3) - 260 260

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		
30-Apr-11	08:00	Fine	000366	2.7318	2.9027	14130.73	14154.73	24.00	1.18	1.18	1.18	1700	101
06-May-11	08:00	Sunny	000404	2.7548	2.8246	14157.73	14181.73	24.00	1.14	1.14	1.14	1642	42
12-May-11	08:00	Fine	000432	2.8224	2.9194	14184.73	14208.73	24.00	1.14	1.04	1.09	1567	62
18-May-11	08:00	Fine	000156	2.7825	2.9044	14211.73	14235.73	24.00	1.19	1.19	1.19	1709	71
24-May-11	08:00	Fine	000447	2.7525	2.8473	14238.73	14262.73	24.00	1.20	1.19	1.19	1719	55

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		
03-May-11	09:00	Fine	000271	2.7368	2.7450	14154.73	14155.73	1.00	1.26	1.26	1.26	75	109
03-May-11	10:15	Fine	000275	2.7287	2.7330	14155.73	14156.73	1.00	1.26	1.25	1.25	75	57
03-May-11	13:00	Fine	000276	2.7448	2.7499	14156.73	14157.73	1.00	1.25	1.25	1.25	75	68
07-May-11	10:00	Fine	000430	2.8095	2.8166	14181.73	14182.73	1.00	1.19	1.19	1.19	71	99
07-May-11	11:00	Fine	000402	2.7476	2.7554	14182.73	14183.73	1.00	1.19	1.19	1.19	71	109
07-May-11	14:35	Fine	000403	2.7388	2.7466	14183.73	14184.73	1.00	1.19	1.19	1.19	71	109
13-May-11	09:30	Rainy	000437	2.7811	2.7866	14208.73	14209.73	1.00	1.19	1.19	1.19	71	77
13-May-11	10:30	Rainy	000438	2.7910	2.7983	14209.73	14210.73	1.00	1.19	1.19	1.19	71	102
13-May-11	13:00	Rainy	000436	2.7877	2.7976	14210.73	14211.73	1.00	1.19	1.19	1.19	71	139
19-May-11	09:00	Fine	000435	2.7833	2.7914	14235.73	14236.73	1.00	1.19	1.19	1.19	71	114
19-May-11	10:30	Fine	000443	2.7718	2.7793	14236.73	14237.73	1.00	1.19	1.19	1.19	71	105
19-May-11	13:45	Fine	000445	2.7686	2.7760	14237.73	14238.73	1.00	1.19	1.19	1.19	71	104
25-May-11	09:15	Fine	000464	2.7748	2.7831	14262.73	14263.73	1.00	1.19	1.19	1.19	72	116
25-May-11	11:00	Fine	000141	2.7923	2.8001	14263.73	14264.73	1.00	1.19	1.19	1.19	72	109
25-May-11	13:00	Fine	000468	2.7893	2.7956	14264.73	14265.73	1.00	0.99	0.99	0.99	60	106

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		
30-Apr-11	08:00	Fine	000264	2.7457	2.9201	12452.22	12476.22	24.00	1.25	1.25	1.25	1803	97
06-May-11	08:00	Fine	000274	2.7476	2.8675	12479.22	12503.22	24.00	1.25	1.25	1.25	1803	66
12-May-11	08:00	Fine	000405	2.7580	2.8603	12506.22	12530.22	24.00	1.23	1.24	1.24	1784	57
18-May-11	08:00	Fine	000434	2.7825	2.9081	12533.22	12557.22	24.00	1.24	1.24	1.24	1781	71
24-May-11	08:00	Fine	000448	2.7566	2.8500	12560.22	12584.22	24.00	1.25	1.24	1.24	1792	52

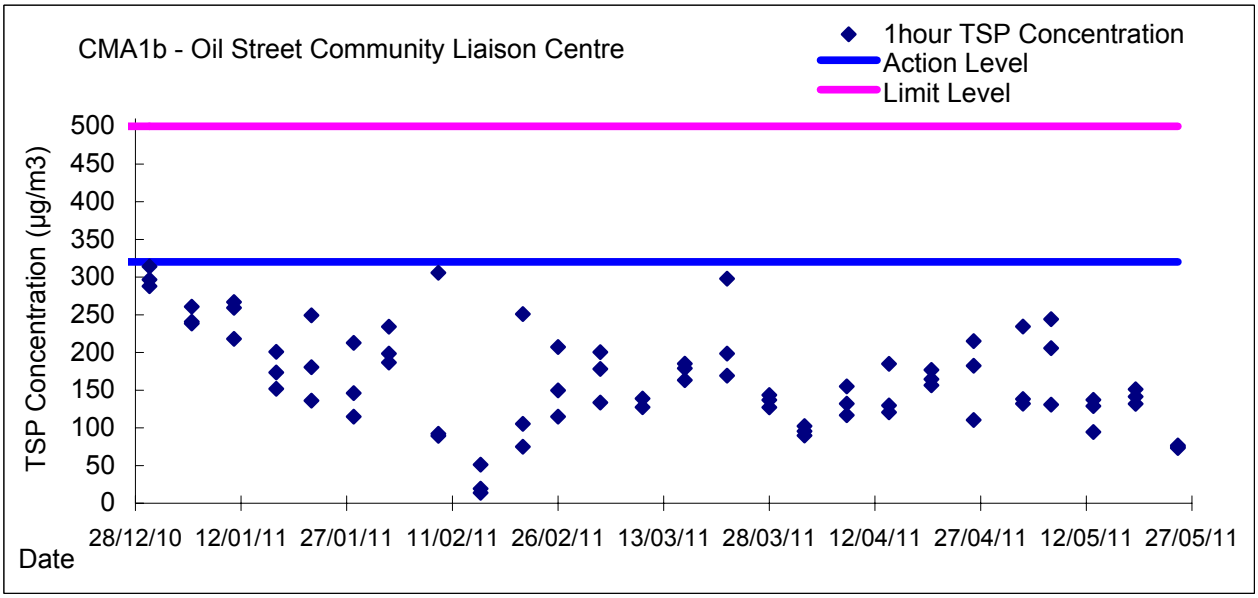
Report on 1-hour TSP monitoring

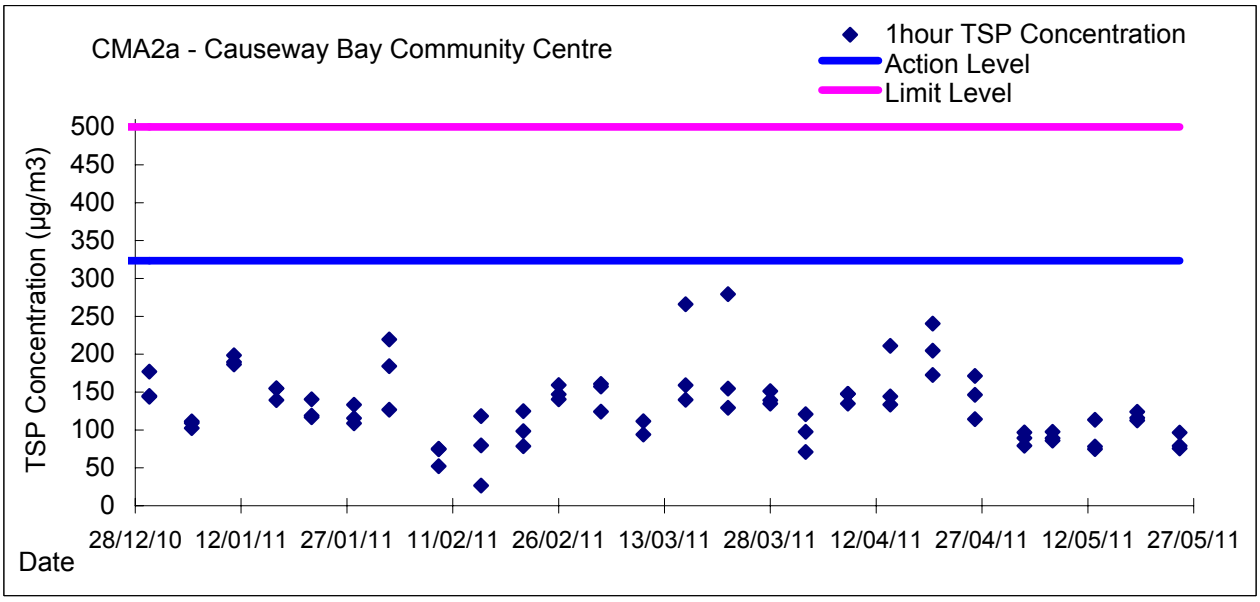
Action Level - 300.1 μ g/m^3

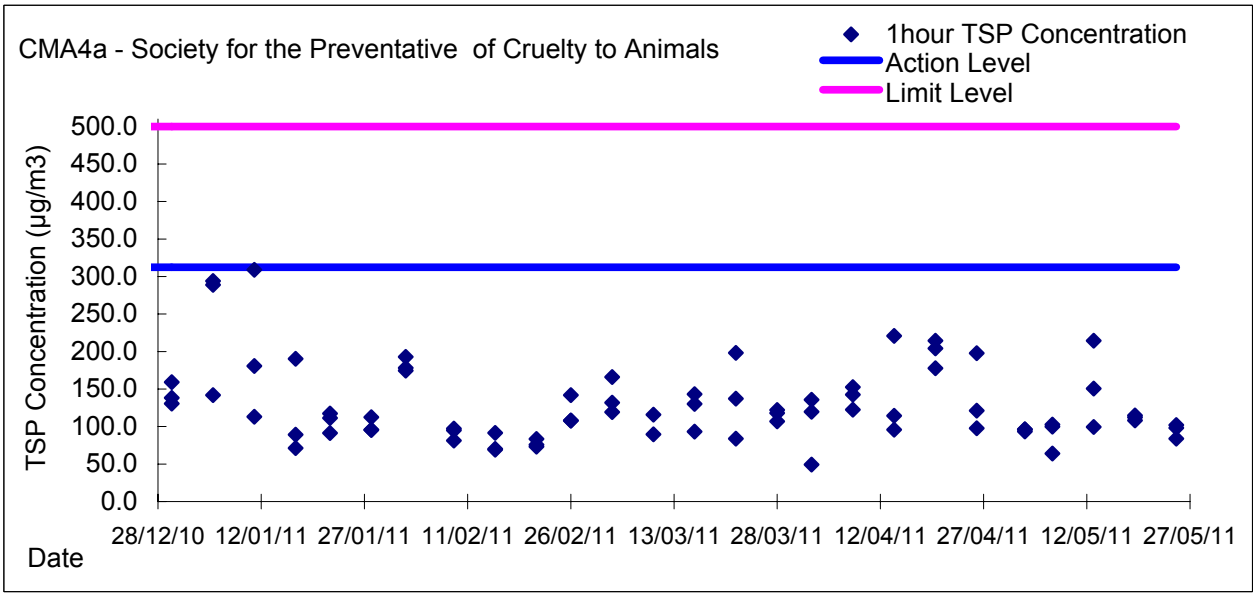
Limit Level - 500 μ g/m3

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		
03-May-11	08:45	Fine	000270	2.7440	2.7531	12476.22	12477.22	1.00	1.26	1.26	1.26	75	121
03-May-11	10:00	Fine	000272	2.7469	2.7549	12477.22	12478.22	1.00	1.25	1.25	1.25	75	107
03-May-11	13:00	Fine	000273	2.7331	2.7422	12478.22	12479.22	1.00	1.25	1.25	1.25	75	121
07-May-11	08:00	Fine	000431	2.8169	2.8233	12503.22	12504.22	1.00	1.29	1.29	1.29	77	83
07-May-11	09:22	Fine	000400	2.7111	2.7196	12504.22	12505.22	1.00	1.29	1.29	1.29	77	110
07-May-11	10:45	Fine	000401	2.7430	2.7515	12505.22	12506.22	1.00	1.29	1.29	1.29	77	110
13-May-11	09:45	Rainy	000440	2.7922	2.7995	12530.22	12531.22	1.00	1.24	1.24	1.24	74	98
13-May-11	10:47	Rainy	000441	2.7649	2.7726	12531.22	12532.22	1.00	1.24	1.24	1.24	74	104
13-May-11	13:00	Rainy	000439	2.7733	2.7851	12532.22	12533.22	1.00	1.24	1.24	1.24	74	159
19-May-11	09:45	Fine	000442	2.7571	2.7659	12557.22	12558.22	1.00	1.24	1.24	1.24	74	119
19-May-11	11:00	Fine	000444	2.7698	2.7764	12558.22	12559.22	1.00	1.24	1.24	1.24	74	89
19-May-11	13:32	Fine	000446	2.7512	2.7587	12559.22	12560.22	1.00	1.24	1.24	1.24	74	101
25-May-11	09:10	Fine	000463	2.7674	2.7774	12584.22	12585.22	1.00	1.29	1.29	1.29	78	129
25-May-11	10:15	Fine	000466	2.7763	2.7862	12585.22	12586.22	1.00	1.29	1.29	1.29	78	128
25-May-11	13:00	Fine	000449	2.7620	2.7700	12586.22	12587.22	1.00	1.49	1.49	1.49	90	89

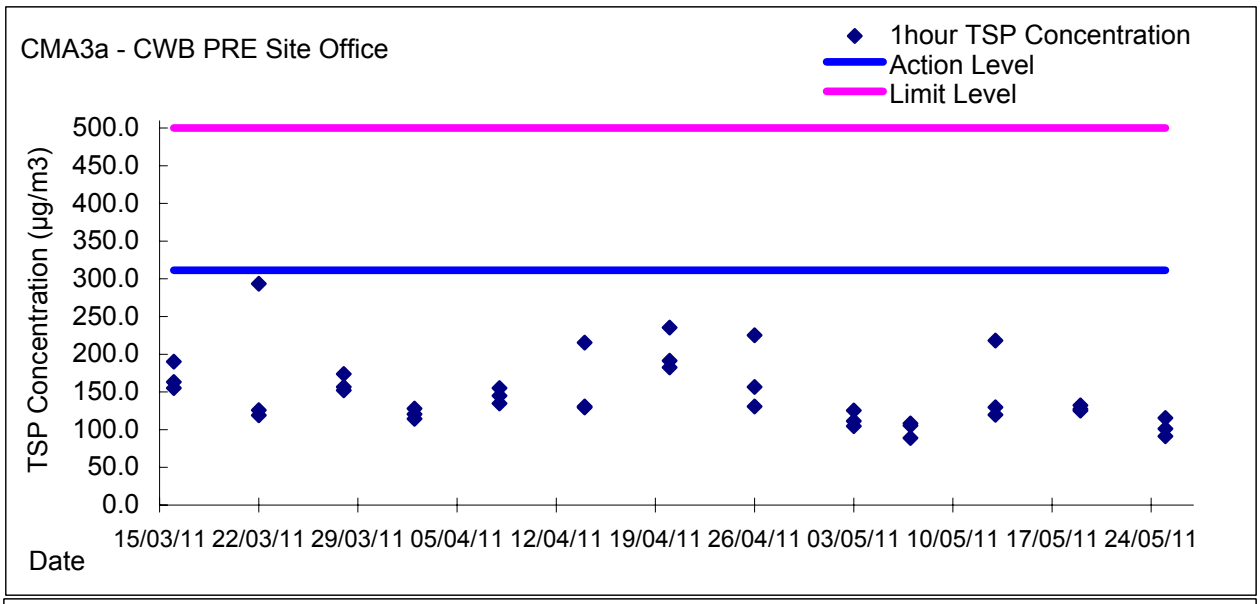
Graphic Presentation of 1 hour TSP Result

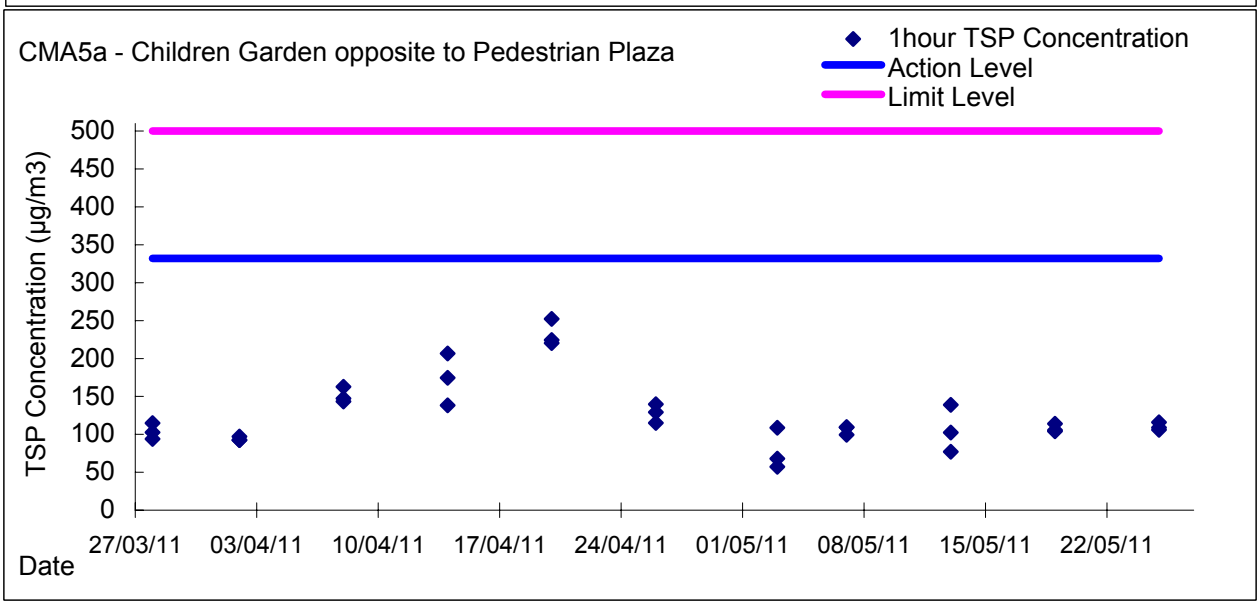


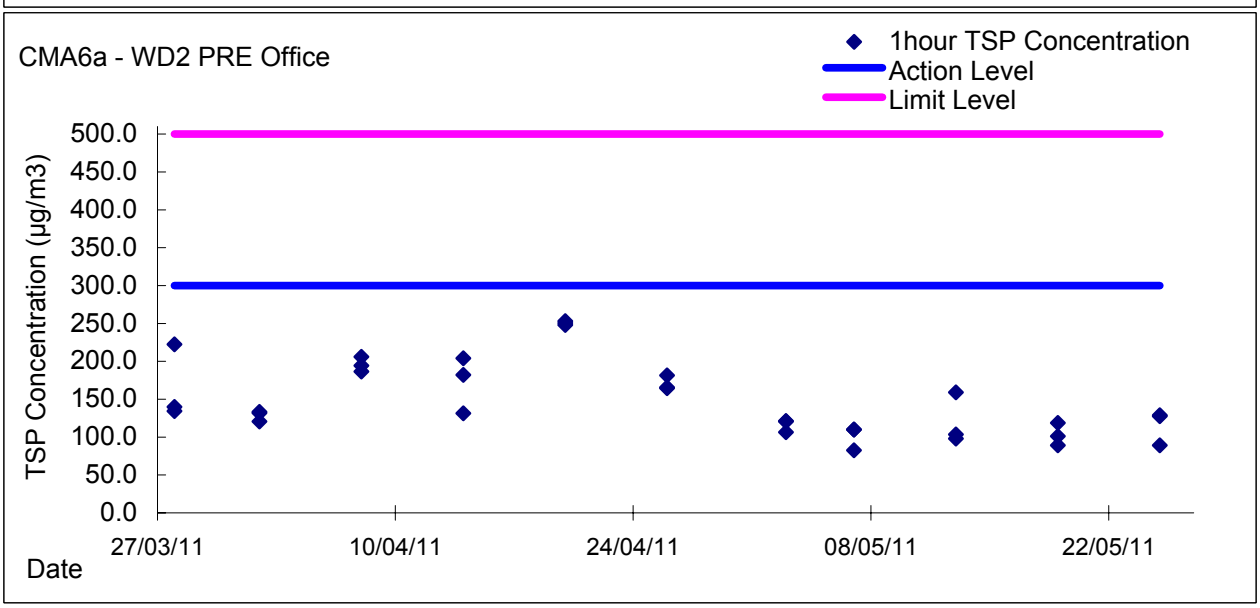




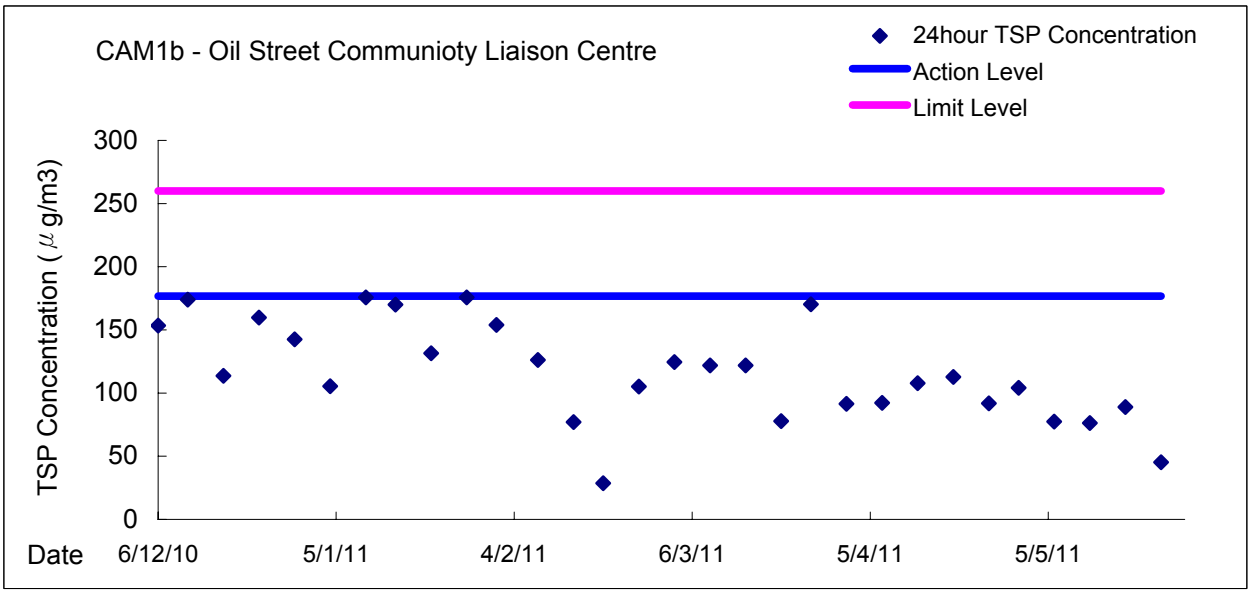
Graphic Presentation of 1 hour TSP Result

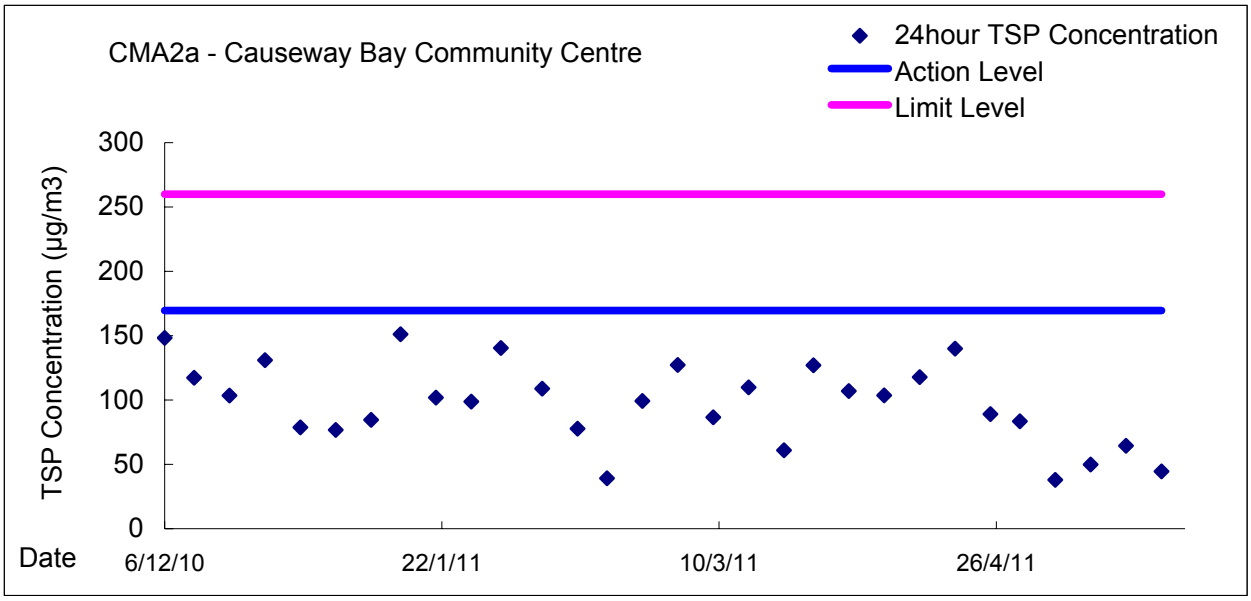


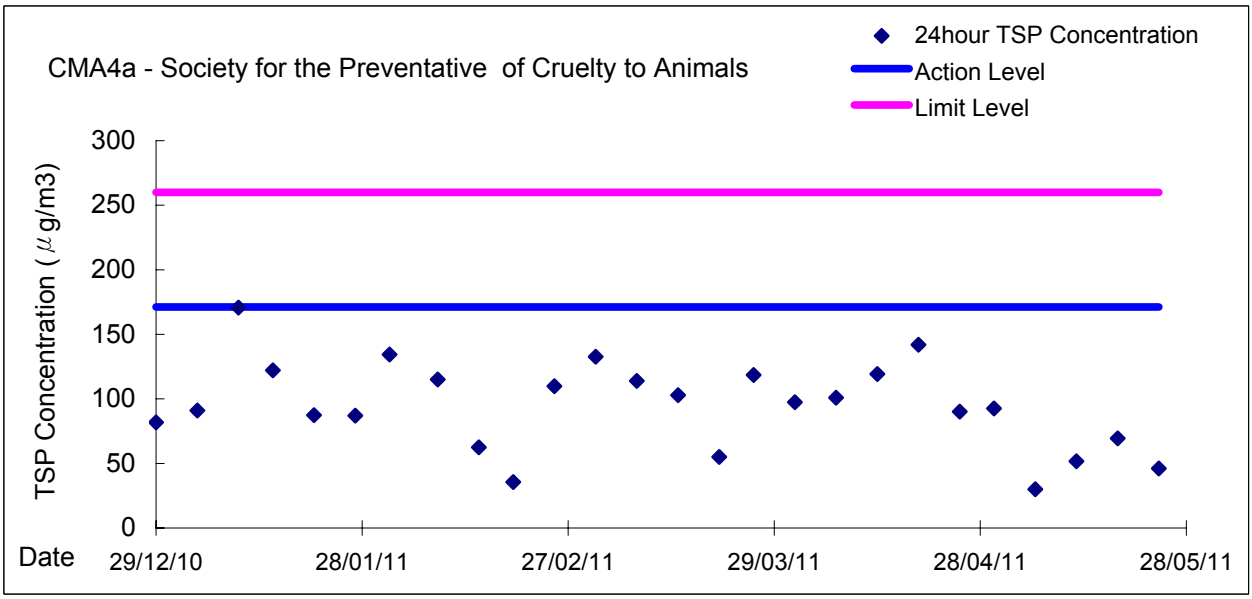




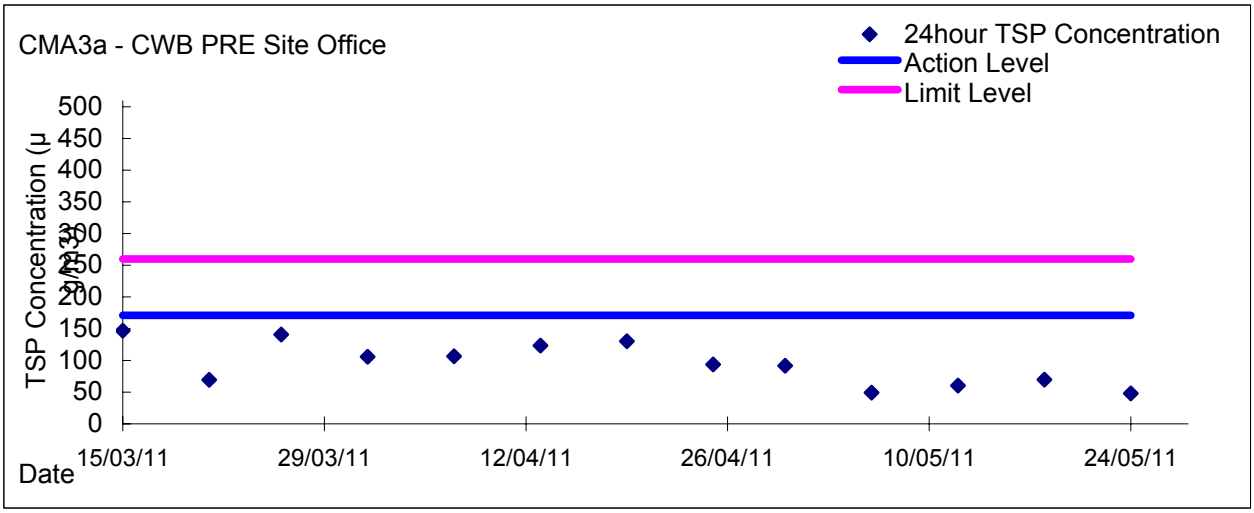
Graphic Presentation of 24 hour TSP Result

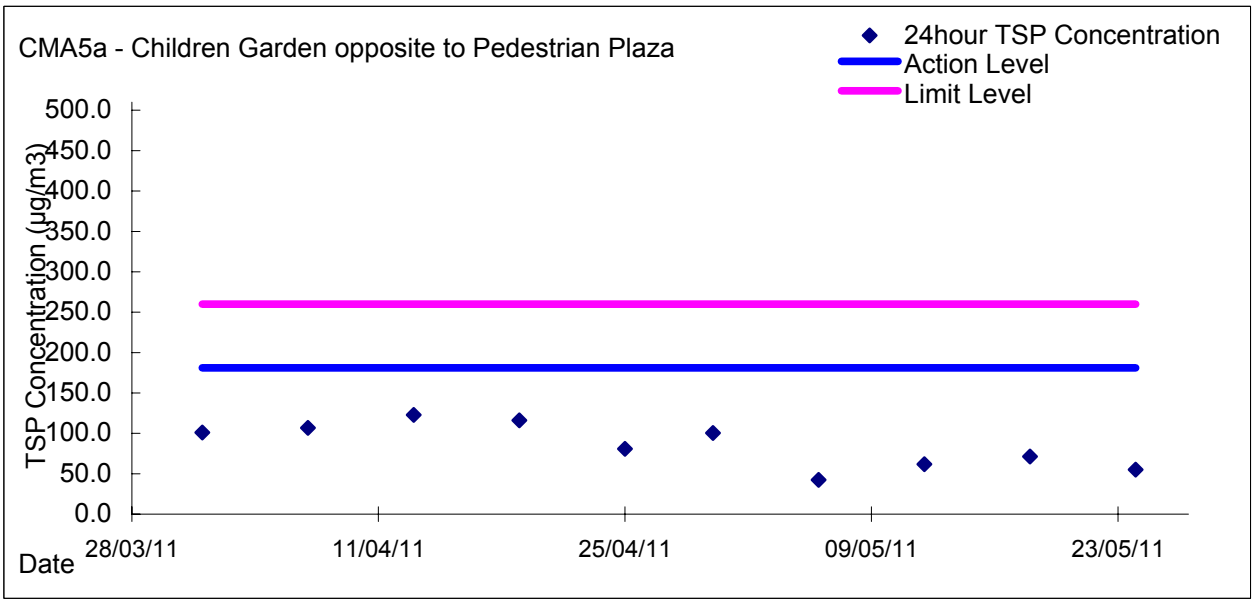


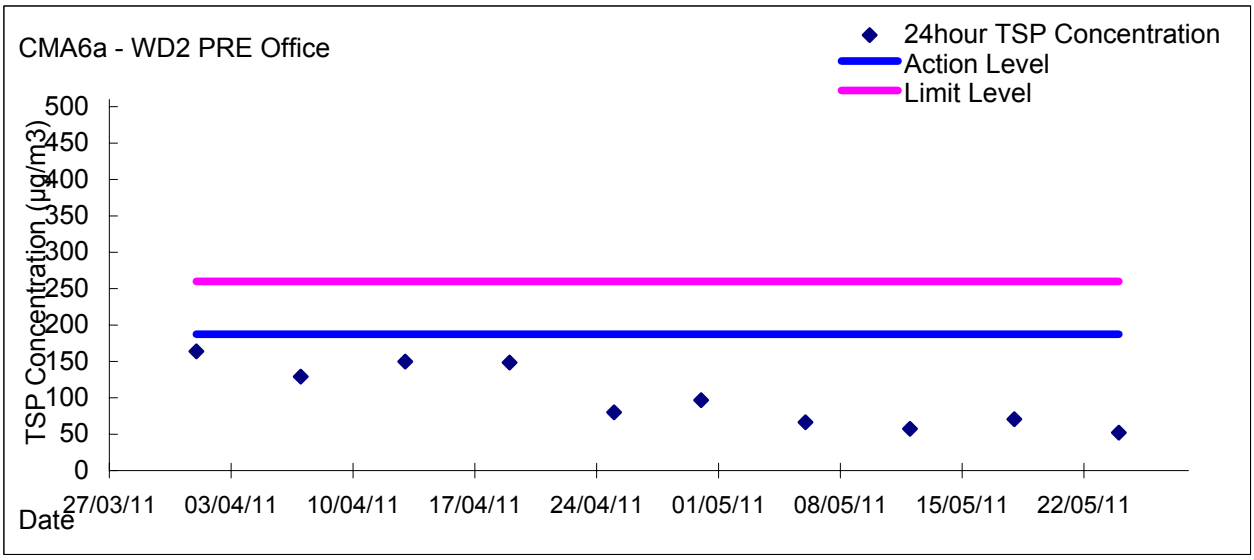




Graphic Presentation of 24 hour TSP Result







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
28/4/2011	14:02	Cloudy	Middle	2.5	24.00	24.00	24.10	7.88	7.88	7.87	32.75	32.75	32.73	80.6	78.5	80.0	5.61	5.47	5.56	3.58	3.30	3.30	5	6.00
	14:07		Middle	2.5	24.20	24.20		7.85	7.85		32.70	32.70		81.0	79.7		5.63	5.54		3.25	3.08		7	
30/4/2011	18:56	Cloudy	Middle	3.0	23.90	23.90	23.90	7.82	7.82	7.82	32.83	32.83	32.83	84.0	84.8	83.7	5.86	5.92	5.84	3.38	3.15	3.31	4	5.00
	18:57		Middle	3.0	23.90	23.90		7.82	7.82		32.83	32.83		82.4	83.7		5.74	5.83		3.41	3.29		6	
3/5/2011	17:11	Cloudy	Middle	2.0	25.40	25.40	25.43	7.79	7.79	7.79	32.47	32.47	32.47	69.7	66.5	67.9	4.66	4.51	4.57	2.58	3.02	2.77	4	5.00
	17:12		Middle	2.0	25.40	25.50		7.79	7.79		32.47	32.47		65.4	69.9		4.44	4.68		2.74	2.75		6	
5/5/2011	21:38	Cloudy	Middle	2.5	23.80	23.80	23.80	7.91	7.91	7.91	32.98	32.98	32.98	73.0	77.0	74.9	5.60	5.40	5.37	5.25	4.92	5.16	6	7.00
	21:39		Middle	2.5	23.80	23.80		7.91	7.91		32.98	32.98		77.0	72.7		5.40	5.08		5.12	5.36		8	
7/5/2011	22:27	Cloudy	Middle	2.5	25.50	25.50	25.50	7.84	7.84	7.84	32.47	32.47	32.47	76.8	74.6	74.4	5.23	5.08	5.07	4.87	4.56	4.49	6	6.00
	22:28		Middle	2.5	25.50	25.50		7.84	7.84		32.47	32.47		72.2	74.1		4.92	5.05		4.30	4.23		6	
10/5/2011	1:42	Cloudy	Middle	2.5	25.80	25.80	25.80	7.81	7.81	7.81	31.68	31.68	31.68	84.1	86.9	86.9	5.45	5.63	5.63	2.60	2.72	2.50	6	6.00
	1:43		Middle	2.5	25.80	25.80		7.81	7.80		31.68	31.68		87.6	89.0		5.67	5.76		2.45	2.23		6	
12/5/2011	13:05	Fine	Middle	2.5	26.38	26.38	26.39	7.15	7.15	7.15	30.91	30.91	30.97	103.5	102.9	102.8	7.00	6.96	6.95	3.77	3.56	3.47	5	6.00
	13:07		Middle	2.5	26.40	26.40		7.14	7.14		31.03	31.03		102.8	101.9		6.95	6.88		3.34	3.22		7	
14/5/2011	14:20	Cloudy	Middle	2.0	25.02	25.02	25.09	7.52	7.52	7.53	31.03	31.03	31.03	91.8	90.1	90.7	6.35	6.23	6.27	2.34	2.20	2.20	3	4.00
	14:21		Middle	2.0	25.16	25.16		7.53	7.53		31.02	31.02		90.0	91.0		6.22	6.29		2.18	2.09		5	
16/5/2011	16:43	Rainy	Middle	2.0	24.90	24.90	24.95	7.95	7.95	7.95	32.06	32.06	32.07	78.6	76.2	78.0	5.41	5.26	5.37	4.72	4.82	4.68	6	5.00
	16:48		Middle	2.0	25.00	25.00		7.94	7.94		32.07	32.07		79.2	77.9		5.46	5.36		4.53	4.64		4	
18/5/2011	18:18	Cloudy	Middle	2.0	24.59	24.59	24.80	7.40	7.40	7.40	31.03	31.03	31.04	62.4	64.4	65.7	4.30	4.52	4.57	3.19	2.88	2.96	3	3.00
	18:19		Middle	2.0	25.00	25.00		7.40	7.40		31.04	31.04		67.7	68.3		4.71	4.76		2.88	2.88		3	
20/5/2011	19:04	Cloudy	Middle	2.0	25.96	25.96	25.97	7.35	7.35	7.35	30.70	30.70	30.70	63.4	63.5	63.3	4.33	4.34	4.32	5.26	5.15	4.93	8	8.50
	19:05		Middle	2.0	25.97	25.97		7.35	7.35		30.70	30.70		64.7	61.4		4.42	4.19		4.69	4.60		9	
24/5/2011	21:03	Cloudy	Middle	2.0	25.25	25.26	25.24	7.34	7.34	7.34	30.36	30.36	30.36	58.1	58.0	58.0	4.03	4.03	4.02	2.14	2.04	2.21	5	5.50
	21:04		Middle	2.0	25.23	25.23		7.34	7.34		30.36	30.36		58.0	57.7		4.03	3.98		2.32	2.34		6	
26/5/2011	4:07	Cloudy	Middle	2.0	24.49	24.49	24.54	7.58	7.58	7.58	32.14	32.14	32.15	54.5	55.5	54.7	3.77	3.82	3.77	2.02	2.43	2.12	4	3.50
	4:08		Middle	2.0	24.59	24.59		7.58	7.58		32.15	32.15		53.4	55.5		3.67	3.82		2.04	1.97		3	

Water Monitoring Result at WSD10 - Cha Kwo Ling
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
28/4/2011	14:30	Cloudy	Middle	2.5	23.70	23.70	23.80	7.97	7.97	7.95	32.73	32.73	32.74	85.4	84.6	84.4	5.98	5.92	5.90	3.95	4.10	3.94	7	8.00
	14:34		Middle	2.5	23.90	23.90		7.93	7.93		32.74	32.74		84.6	82.9		5.91	5.79		3.84	3.85		9	
30/4/2011	20:00	Cloudy	Middle	3.0	23.40	23.40	23.40	7.89	7.89	7.89	33.14	33.14	33.14	77.4	77.4	76.3	5.43	5.43	5.41	3.14	3.30	3.20	7	6.50
	20:01		Middle	3.0	23.40	23.40		7.89	7.89		33.14	33.14		75.0	75.5		5.48	5.29		3.28	3.06		6	
3/5/2011	16:15	Cloudy	Middle	2.0	25.90	25.90	25.90	7.74	7.74	7.74	32.17	32.17	32.17	76.9	79.7	79.8	5.22	5.30	5.36	4.12	3.89	4.11	11	11.00
	16:16		Middle	2.0	25.90	25.90		7.74	7.74		32.17	32.17		79.5	83.0		5.34	5.58		4.46	3.95		11	
5/5/2011	22:49	Cloudy	Middle	2.5	23.50	23.50	23.50	7.93	7.93	7.93	33.11	33.11	33.11	76.4	71.0	74.1	5.38	4.99	5.20	3.73	3.61	3.53	6	6.00
	22:50		Middle	2.5	23.50	23.50		7.93	7.93		33.11	33.11		73.9	74.9		5.19	5.25		3.50	3.29		6	
7/5/2011	23:52	Cloudy	Middle	2.5	24.80	24.80	24.80	7.91	7.91	7.91	32.88	32.88	32.88	74.7	79.4	76.8	5.11	5.43	5.25	3.82	3.65	3.79	3	4.00
	23:53		Middle	2.5	24.80	24.80		7.91	7.91		32.88	32.88		77.7	75.3		5.32	5.13		3.77	3.92		5	
10/5/2011	3:23	Cloudy	Middle	2.5	26.10	26.10	26.10	7.86	7.86	7.86	32.98	32.98	32.98	80.6	81.8	81.2	5.00	5.09	5.05	2.82	3.04	2.99	5	6.00
	3:24		Middle	2.5	26.10	26.10		7.86	7.86		32.98	32.98		80.8	81.7		5.03	5.09		3.31	2.80		7	
12/5/2011	12:25	Fine	Middle	2.5	27.00	27.00	27.01	7.15	7.15	7.15	30.20	30.20	30.15	109.2	107.3	107.6	7.47	7.24	7.28	3.26	3.34	3.17	7	6.00
	12:28		Middle	2.5	27.01	27.01		7.14	7.14		30.09	30.09		107.1	106.8		7.22	7.19		3.02	3.05		5	
14/5/2011	12:52	Cloudy	Middle	2.0	25.24	25.24	25.26	7.27	7.27	7.27	30.84	30.84	30.84	95.3	92.8	94.0	6.54	6.40	6.48	1.71	1.43	1.58	5	5.50
	12:53		Middle	2.0	25.27	25.27		7.27	7.28		30.84	30.84		94.6	93.3		6.53	6.44		1.55	1.62		6	
16/5/2011	17:16	Rainy	Middle	2.0	24.70	24.70	24.75	8.00	8.00	7.99	32.17	32.17	32.17	78.3	77.9	78.0	5.41	5.38	5.39	6.16	6.06	6.14	9	9.00
	17:21		Middle	2.0	24.80	24.80		7.97	7.97		32.17	32.17		79.0	76.9		5.45	5.31		6.11	6.24		9	
18/5/2011	16:40	Cloudy	Middle	2.0	25.50	25.50	25.51	7.26	7.26	7.26	30.86	30.86	30.86	79.0	79.3	78.9	5.43	5.45	5.42	3.15	3.17	3.14	3	3.50
	16:41		Middle	2.0	25.51	25.51		7.26	7.26		30.85	30.85		78.8	78.5		5.40	5.40		3.13	3.11		4	
20/5/2011	18:20	Cloudy	Middle	2.0	26.18	26.18	26.21	7.23	7.23	7.24	30.49	30.49	30.48	85.3	85.0	85.1	5.81	5.78	5.80	6.13	6.06	6.13	10	9.00
	18:21		Middle	2.0	26.24	26.24		7.25	7.25		30.46	30.46		84.6	85.6		5.76	5.86		6.28	6.06		8	
24/5/2011	20:38	Cloudy	Middle	2.0	25.75	25.75	25.75	7.22	7.22	7.23	29.54	29.54	29.55	68.4	68.8	68.5	4.72	4.74	4.72	2.53	2.17	2.35	8	8.00
	20:39		Middle	2.0	25.74	25.74		7.23	7.23		29.55	29.55		68.0	68.8		4.69	4.74		2.48	2.20		8	
26/5/2011	4:32	Cloudy	Middle	2.0	24.63	24.63	24.62	7.70	7.70	7.70	32.21	32.21	32.21	74.3	74.3	73.6	5.14	5.14	5.06	2.98	3.39	3.02	4	4.50
	4:33		Middle	2.0	24.61	24.61		7.70	7.70		32.21	32.21		71.9	73.7		4.95	5.02		2.81	2.90		5	

Water Monitoring Result at WSD15 - Sai Wan Ho
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
28/4/2011	15:58	Cloudy	Middle	2.5	24.10	24.10	24.25	7.35	7.35	7.35	32.07	32.07	32.08	90.5	90.3	90.4	6.97	6.96	6.97	2.32	2.40	2.46	7	6.00
	16:04		Middle	2.5	24.40	24.40		7.34	7.34		32.08	32.08		90.7	90.1		6.98	6.95		2.62	2.51		5	
30/4/2011	17:11	Cloudy	Middle	2.5	23.90	23.90	23.90	7.84	7.84	7.84	33.03	33.03	33.03	73.0	72.7	71.9	5.13	5.07	5.02	3.53	3.65	3.66	6	5.50
	17:12		Middle	2.5	23.90	23.90		7.84	7.84		33.03	33.03		71.8	70.1		5.00	4.88		3.88	3.56		5	
3/5/2011	21:08	Cloudy	Middle	2.5	24.10	24.10	24.10	7.89	7.89	7.89	32.83	32.83	32.83	72.4	74.3	72.8	5.05	5.16	5.06	2.55	2.48	2.48	8	7.00
	21:09		Middle	2.5	24.10	24.10		7.89	7.89		32.83	32.83		70.9	73.4		4.92	5.10		2.57	2.31		6	
5/5/2011	20:50	Cloudy	Middle	3.0	23.40	23.40	23.40	7.95	7.95	7.95	33.21	33.22	33.22	76.1	76.1	75.1	5.35	5.35	5.31	6.35	6.25	6.50	11	11.50
	20:51		Middle	3.0	23.40	23.40		7.95	7.95		33.22	33.22		73.3	75.0		5.15	5.37		6.33	7.08		12	
7/5/2011	21:30	Cloudy	Middle	3.0	24.80	24.80	24.80	7.92	7.92	7.92	32.90	32.90	32.90	80.0	80.1	79.1	5.46	5.45	5.39	5.16	5.16	5.23	8	8.00
	21:31		Middle	3.0	24.80	24.80		7.92	7.92		32.90	32.90		78.7	77.6		5.37	5.29		5.62	4.96		8	
10/5/2011	23:58	Cloudy	Middle	3.0	25.30	25.30	25.35	7.85	7.85	7.85	31.63	31.63	31.63	70.7	73.2	72.0	4.93	5.00	4.94	3.53	3.13	3.11	5	6.00
	23:59		Middle	3.0	25.40	25.40		7.84	7.84		31.63	31.63		72.0	71.9		4.90	4.91		2.88	2.90		7	
12/5/2011	11:56	Fine	Middle	2.5	26.76	26.76	26.92	6.49	6.49	6.45	30.72	30.72	30.72	112.7	112.6	112.0	7.55	7.56	7.53	3.80	3.02	3.36	6	5.50
	11:58		Middle	2.5	27.08	27.08		6.41	6.41		30.72	30.72		110.2	112.5		7.44	7.55		3.28	3.34		5	
14/5/2011	18:35	Cloudy	Middle	2.5	24.75	24.75	24.75	7.61	7.61	7.61	31.54	31.54	31.54	80.5	76.7	78.9	5.58	5.32	5.47	1.59	1.50	1.52	4	4.50
	18:36		Middle	2.5	24.75	24.76		7.60	7.60		31.54	31.54		79.5	78.7		5.51	5.45		1.44	1.56		5	
16/5/2011	17:52	Rainy	Middle	2.0	24.70	24.70	24.70	8.03	8.03	8.03	32.50	32.50	32.50	86.6	85.7	86.0	5.98	5.92	5.94	8.03	8.13	8.25	14	13.00
	17:57		Middle	2.0	24.70	24.70		8.02	8.02		32.50	32.50		86.0	85.6		5.94	5.91		8.44	8.38		12	
18/5/2011	20:43	Cloudy	Middle	3.0	24.76	24.76	24.76	7.66	7.66	7.66	32.04	32.05	32.05	68.6	67.6	67.9	4.76	4.74	4.72	4.87	4.49	4.71	8	8.50
	20:44		Middle	3.0	24.76	24.76		7.66	7.66		32.04	32.05		68.3	67.2		4.71	4.65		5.00	4.47		9	
20/5/2011	22:53	Cloudy	Middle	2.5	25.75	25.75	25.75	7.56	7.56	7.56	32.10	32.10	32.10	59.6	58.1	59.5	4.05	3.68	4.35	3.65	3.65	3.58	4	4.00
	22:54		Middle	2.5	25.75	25.75		7.56	7.56		32.10	32.10		60.1	60.0		4.85	4.80		3.65	3.36		4	
24/5/2011	1:00	Cloudy	Middle	2.5	24.42	24.42	24.58	7.62	7.64	7.64	31.92	31.92	31.90	62.0	62.6	60.5	4.29	4.30	4.21	2.29	2.59	2.42	8	7.00
	1:01		Middle	2.5	24.74	24.74		7.65	7.65		31.88	31.88		57.2	60.3		3.95	4.30		2.41	2.37		6	
26/5/2011	1:50	Cloudy	Middle	2.5	24.81	24.81	24.81	7.59	7.58	7.58	31.82	31.82	31.83	54.0	57.3	55.1	3.73	3.96	3.80	1.77	1.48	1.65	4	4.00
	1:51		Middle	2.5	24.80	24.80		7.58	7.58		31.84	31.84		54.6	54.5		3.74	3.76		1.71	1.62		4	

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
28/4/2011	16:31	Cloudy	Middle	2.5	23.80	23.80	23.90	7.43	7.43	7.43	32.20	32.20	32.20	95.9	96.2	95.9	6.96	6.99	6.97	3.08	2.69	2.77	7	7.50
	16:35		Middle	2.5	24.00	24.00		7.42	7.42		32.20	32.20		96.1	95.5		6.98	6.93		2.70	2.62		8	
30/4/2011	16:45	Cloudy	Middle	2.5	24.00	24.00	24.00	7.80	7.80	7.80	32.82	32.82	32.82	74.2	73.9	72.9	5.16	5.14	5.07	4.76	4.63	4.48	9	8.00
	16:46		Middle	2.5	24.00	24.00		7.80	7.80		32.82	32.82		72.3	71.0		5.03	4.93		4.45	4.06		7	
3/5/2011	20:41	Cloudy	Middle	3.0	24.30	24.30	24.30	7.91	7.91	7.91	33.13	33.13	33.13	75.1	71.5	72.5	5.13	4.95	5.04	3.60	3.33	3.38	9	8.00
	20:42		Middle	3.0	24.30	24.30		7.91	7.91		33.13	33.13		72.4	70.8		5.06	5.03		3.38	3.19		7	
5/5/2011	20:25	Cloudy	Middle	2.5	23.20	23.20	23.20	7.93	7.93	7.93	33.29	33.29	33.29	77.0	74.9	75.2	5.44	5.27	5.29	11.00	12.10	**11.93**	26	**26.50**
	20:26		Middle	2.5	23.20	23.20		7.93	7.93		33.29	33.29		75.5	73.3		5.31	5.15		12.50	12.10		27	
7/5/2011	20:42	Cloudy	Middle	2.5	25.10	25.10	25.10	7.83	7.83	7.83	32.20	32.20	32.21	73.9	72.3	72.3	5.06	4.95	4.96	5.41	4.95	5.36	9	9.00
	20:43		Middle	2.5	25.10	25.10		7.83	7.83		32.21	32.21		71.5	71.6		4.90	4.91		5.52	5.56		9	
10/5/2011	23:18	Cloudy	Middle	2.5	25.40	25.50	25.48	7.83	7.83	7.83	31.54	31.54	31.54	73.6	75.2	74.2	5.00	5.14	5.06	3.13	3.35	3.21	6	7.00
	23:19		Middle	2.5	25.50	25.50		7.83	7.83		31.54	31.54		74.6	73.3		5.10	5.00		3.08	3.27		8	
12/5/2011	11:00	Fine	Middle	2.5	25.66	25.66	25.42	7.01	7.01	7.01	30.80	30.80	30.95	111.8	112.2	111.5	7.48	7.56	7.50	3.33	3.27	3.19	3	4.00
	11:03		Middle	2.5	25.17	25.17		7.00	7.00		31.09	31.09		111.0	110.9		7.48	7.47		3.05	3.10		5	
14/5/2011	18:12	Cloudy	Middle	3.0	24.95	24.95	24.98	7.68	7.68	7.68	31.70	31.70	31.70	91.2	91.9	89.9	6.31	6.36	6.22	1.86	1.44	1.64	3	3.50
	18:13		Middle	3.0	25.00	25.00		7.67	7.67		31.70	31.70		88.2	88.3		6.11	6.11		1.55	1.69		4	
16/5/2011	18:18	Rainy	Middle	2.0	24.70	24.70	24.75	8.02	8.02	8.02	32.48	32.48	32.48	80.3	79.6	80.3	5.54	5.49	5.54	11.30	11.50	**11.53**	15	15.00
	18:22		Middle	2.0	24.80	24.80		8.02	8.02		32.48	32.48		81.3	79.8		5.61	5.50		11.20	12.10		15	
18/5/2011	20:19	Cloudy	Middle	2.5	24.74	24.74	24.74	7.62	7.62	7.62	32.12	32.12	32.13	59.7	63.0	61.9	4.13	4.35	4.26	6.77	6.60	6.58	18	**17.00**
	20:20		Middle	2.5	24.74	24.74		7.62	7.62		32.13	32.13		61.5	63.2		4.17	4.37		6.66	6.29		16	
20/5/2011	22:30	Cloudy	Middle	2.5	25.68	25.68	25.65	7.51	7.51	7.51	32.06	32.06	32.08	66.0	62.4	64.2	4.50	4.25	4.38	6.14	5.97	5.97	10	9.50
	22:31		Middle	2.5	25.62	25.62		7.51	7.51		32.09	32.09		64.6	63.9		4.40	4.35		5.89	5.86		9	
24/5/2011	0:30	Cloudy	Middle	2.5	25.00	25.00	24.99	7.48	7.48	7.49	30.28	30.28	30.29	58.2	58.2	57.7	4.05	4.05	4.01	2.02	1.96	2.01	11	10.50
	0:31		Middle	2.5	24.97	24.97		7.49	7.49		30.29	30.29		57.2	57.0		3.98	3.96		2.16	1.90		10	
26/5/2011	0:31	Cloudy	Middle	2.5	24.74	24.74	24.71	7.57	7.57	7.57	31.29	31.29	31.29	54.9	56.2	55.6	3.42	3.91	3.77	1.96	1.97	2.06	7	6.00
	0:32		Middle	2.5	24.67	24.67		7.57	7.57		31.29	31.29		56.7	54.6		3.95	3.80		2.26	2.05		5	

Water Monitoring Result at C9 - Provident 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
28/4/2011	17:35	Cloudy	Middle	2.5	23.30	23.30	23.35	7.84	7.84	7.84	32.51	32.51	32.50	81.1	80.3	80.2	5.73	5.68	5.67	4.23	4.43	4.38	21	**19.00**
	17:38		Middle	2.5	23.40	23.40		7.83	7.83		32.49	32.49		79.9	79.5		5.64	5.62		4.57	4.28		17	
30/4/2011	16:21	Cloudy	Middle	2.0	24.50	24.50	24.50	7.86	7.86	7.86	32.39	32.39	32.39	77.3	80.5	77.9	5.46	5.54	5.41	8.45	8.39	8.46	15	15.50
	16:22		Middle	2.0	24.50	24.50		7.84	7.86		32.39	32.39		77.3	76.4		5.35	5.29		8.73	8.26		16	
3/5/2011	20:17	Cloudy	Middle	2.0	24.90	24.90	24.90	7.82	7.82	7.82	32.24	32.24	32.24	69.6	70.6	69.8	4.81	4.88	4.82	6.15	6.07	6.21	12	11.00
	20:18		Middle	2.0	24.90	24.90		7.82	7.82		32.24	32.24		68.8	70.2		4.74	4.83		6.38	6.24		10	
5/5/2011	20:05	Cloudy	Middle	1.5	23.70	23.70	23.70	7.84	7.84	7.84	32.38	32.38	32.38	76.9	77.4	77.1	5.41	5.43	5.41	9.05	8.38	8.56	10	11.00
	20:06		Middle	1.5	23.70	23.70		7.84	7.84		32.38	32.38		77.1	77.0		5.41	5.40		8.52	8.29		12	
7/5/2011	21:05	Cloudy	Middle	2.0	25.90	25.90	25.90	7.74	7.74	7.74	31.32	31.32	31.32	75.1	75.3	74.6	5.11	5.13	5.09	6.53	6.77	6.58	9	8.50
	21:06		Middle	2.0	25.90	25.90		7.74	7.74		31.32	31.32		74.8	73.3		5.13	4.99		6.13	6.88		8	
10/5/2011	21:02	Cloudy	Middle	2.0	25.90	25.90	25.90	7.80	7.80	7.80	30.93	30.93	30.97	76.9	75.4	76.7	5.16	5.05	5.18	9.94	10.60	10.41	18	**19.00**
	21:03		Middle	2.0	25.90	25.90		7.79	7.79		31.01	31.01		76.3	78.1		5.20	5.32		10.70	10.40		20	
12/5/2011	11:30	Fine	Middle	2.0	26.42	26.42	26.51	7.30	7.30	7.27	29.56	29.56	29.53	117.5	117.2	116.8	8.01	7.99	7.96	3.25	2.83	2.80	5	5.50
	11:32		Middle	2.0	26.59	26.59		7.23	7.23		29.49	29.49		116.2	116.4		7.92	7.91		2.63	2.49		6	
14/5/2011	13:00	Cloudy	Middle	2.0	24.50	24.50	24.50	7.99	7.99	7.99	31.71	31.71	31.72	72.2	71.4	71.6	5.03	4.98	4.99	4.30	4.14	4.16	6	6.50
	13:03		Middle	2.0	24.50	24.50		7.99	7.99		31.72	31.72		72.0	70.9		5.02	4.94		4.07	4.11		7	
16/5/2011	20:01	Rainy	Middle	2.0	24.60	24.60	24.60	7.88	7.88	7.88	31.87	31.87	31.87	62.0	62.0	61.9	4.31	4.30	4.30	7.83	7.91	7.82	7	7.00
	20:03		Middle	2.0	24.60	24.60		7.88	7.88		31.87	31.87		61.9	61.7		4.30	4.28		7.90	7.65		7	
18/5/2011	16:50	Cloudy	Middle	2.0	25.00	25.00	25.05	7.79	7.79	7.79	31.14	31.14	31.14	60.4	59.0	59.8	4.18	4.08	4.14	12.90	13.60	**13.45**	20	**20.00**
	16:53		Middle	2.0	25.10	25.10		7.79	7.79		31.14	31.14		60.1	59.6		4.16	4.12		13.70	13.60		20	
20/5/2011	23:20	Cloudy	Middle	2.0	25.60	25.60	25.64	7.42	7.42	7.42	31.24	31.24	31.24	58.2	56.4	57.1	3.99	3.82	3.90	4.10	3.94	4.12	4	4.50
	23:21		Middle	2.0	25.68	25.68		7.41	7.41		31.24	31.24		57.2	56.5		3.91	3.87		4.18	4.27		5	
24/5/2011	23:40	Cloudy	Middle	2.0	24.97	24.97	24.99	7.39	7.39	7.39	29.74	29.74	29.74	63.3	62.5	63.1	4.42	4.37	4.42	2.80	2.53	2.66	8	7.00
	23:41		Middle	2.0	25.00	25.00		7.39	7.39		29.73	29.73		63.0	63.7		4.40	4.47		2.67	2.65		6	
26/5/2011	0:49	Cloudy	Middle	1.5	25.15	25.15	25.15	7.52	7.52	7.52	31.68	31.68	31.68	53.4	51.8	52.7	3.67	3.57	3.63	3.28	2.74	2.92	9	8.00
	0:50		Middle	1.5	25.15	25.15		7.52	7.52		31.68	31.68		52.8	52.8		3.64	3.64		2.62	3.05		7	

Water Monitoring Result at C8 - City Garden
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
28/4/2011	17:53	Cloudy	Middle	2.0	23.60	23.60	23.60	7.75	7.75	7.75	32.19	32.19	32.19	57.5	63.4	61.1	4.04	4.46	4.30	8.29	9.05	8.89	14	13.00
	17:54		Middle	2.0	23.60	23.60		7.75	7.75		32.19	32.19		62.5	61.0		4.40	4.28		9.17	9.05		12	
30/4/2011	18:27	Cloudy	Middle	1.5	23.70	23.70	23.70	7.75	7.75	7.75	32.57	32.57	32.57	62.1	61.2	62.5	4.33	4.26	4.37	8.65	8.49	8.35	16	17.50
	18:30		Middle	1.5	23.70	23.70		7.75	7.75		32.57	32.57		63.1	63.5		4.41	4.47		8.31	7.95		19	
3/5/2011	19:41	Cloudy	Middle	2.0	24.80	24.80	24.80	7.79	7.79	7.79	31.99	32.04	32.03	64.2	61.6	62.8	4.47	4.26	4.35	9.17	9.94	9.64	16	17.00
	19:42		Middle	2.0	24.80	24.80		7.79	7.79		32.04	32.04		62.2	63.1		4.30	4.36		9.43	10.00		18	
5/5/2011	19:10	Cloudy	Middle	1.5	23.50	23.50	23.50	7.81	7.81	7.81	32.40	32.39	32.40	57.7	57.7	59.3	4.06	4.06	4.15	13.00	12.90	**12.98**	18	**19.00**
	19:11		Middle	1.5	23.50	23.50		7.81	7.81		32.40	32.40		63.2	58.6		4.39	4.09		13.10	12.90		20	
7/5/2011	20:26	Cloudy	Middle	2.0	25.30	25.30	25.30	7.80	7.80	7.80	31.50	31.51	31.51	71.6	71.4	71.5	4.92	4.88	4.90	9.72	9.20	9.50	12	12.50
	20:27		Middle	2.0	25.30	25.30		7.80	7.80		31.51	31.51		71.3	71.5		4.90	4.90		9.85	9.23		13	
10/5/2011	0:58	Cloudy	Middle	2.0	26.80	26.80	26.80	7.79	7.79	7.79	31.49	31.49	31.49	68.4	69.5	68.4	4.50	4.57	4.50	4.19	4.21	4.16	10	9.00
	0:59		Middle	2.0	26.80	26.80		7.79	7.79		31.49	31.49		67.6	67.9		4.44	4.47		4.06	4.16		8	
12/5/2011	10:42	Fine	Middle	1.5	26.60	26.60	26.61	6.81	6.81	6.81	28.97	28.97	29.00	105.9	106.0	107.3	7.24	7.25	7.33	6.38	5.60	5.59	8	7.00
	10:44		Middle	1.5	26.62	26.62		6.81	6.81		29.02	29.02		108.7	108.4		7.42	7.41		5.33	5.03		6	
14/5/2011	17:50	Cloudy	Middle	2.0	24.50	24.50	24.50	7.34	7.33	7.33	31.77	31.77	31.77	71.0	72.9	73.3	5.07	5.07	5.13	4.63	4.62	4.62	8	8.00
	17:51		Middle	2.0	24.50	24.50		7.33	7.33		31.77	31.77		73.0	76.1		5.08	5.29		4.56	4.66		8	
16/5/2011	19:50	Rainy	Middle	1.5	24.60	24.60	24.60	7.86	7.86	7.87	31.63	31.63	31.63	69.6	69.2	69.4	4.83	4.81	4.82	9.31	9.75	9.39	10	10.00
	19:53		Middle	1.5	24.60	24.60		7.87	7.87		31.63	31.63		69.7	69.2		4.84	4.81		9.30	9.21		10	
18/5/2011	20:00	Cloudy	Middle	2.0	25.03	25.03	25.03	7.40	7.40	7.40	31.00	31.00	31.00	57.7	61.1	58.8	4.00	4.01	4.00	6.48	6.48	6.33	9	9.50
	20:01		Middle	2.0	25.02	25.02		7.39	7.39		31.00	31.00		60.3	56.0		4.11	3.88		6.17	6.17		10	
20/5/2011	22:15	Cloudy	Middle	2.0	25.76	25.78	25.77	7.32	7.32	7.32	31.04	31.04	31.02	53.6	58.7	56.3	3.67	3.99	3.84	7.18	7.37	7.06	9	10.00
	22:16		Middle	2.0	25.76	25.76		7.32	7.32		30.99	30.99		58.0	54.7		3.97	3.73		6.92	6.77		11	
24/5/2011	23:30	Cloudy	Middle	2.0	25.20	25.20	25.20	7.26	7.26	7.26	28.96	28.96	28.94	60.0	57.9	58.5	4.19	4.04	4.08	6.10	6.08	6.39	10	9.00
	23:31		Middle	2.0	25.20	25.20		7.26	7.27		28.91	28.91		57.0	59.0		3.98	4.12		6.65	6.74		8	
26/5/2011	0:06	Cloudy	Middle	1.5	25.05	25.05	25.06	7.40	7.40	7.40	31.42	31.42	31.42	54.7	57.3	55.0	3.78	3.96	3.80	4.85	4.55	4.65	7	6.00
	0:07		Middle	1.5	25.07	25.07		7.40	7.40		31.42	31.42		54.6	53.5		3.75	3.69		4.62	4.59		5	

Water Monitoring Result at C6 - Excelsior Hotel
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
28/4/2011	17:21	Cloudy	Middle	1.5	24.30	24.30	24.30	7.63	7.63	7.63	31.38	31.38	31.38	63.4	67.8	65.4	4.44	4.72	4.58	1.16	1.20	1.17	6	5.00
	17:22		Middle	1.5	24.30	24.30		7.63	7.63		31.38	31.38		66.2	64.3		4.74	4.42		1.13	1.20		4	
30/4/2011	17:58	Cloudy	Middle	1.5	24.00	24.00	24.00	7.63	7.63	7.63	31.75	31.75	31.75	51.2	54.3	52.8	3.59	3.80	3.78	1.55	1.44	1.47	2	2.50
	17:59		Middle	1.5	24.00	24.00		7.62	7.62		31.75	31.75		52.1	53.7		3.99	3.75		1.47	1.41		3	
3/5/2011	19:06	Cloudy	Middle	1.5	25.20	25.20	25.20	7.58	7.58	7.56	31.07	31.07	31.05	50.2	50.3	50.6	3.47	3.47	3.49	1.26	1.89	1.50	3	3.00
	19:07		Middle	1.5	25.20	25.20		7.53	7.53		31.07	31.00		51.4	50.3		3.47	3.53		1.37	1.48		3	
5/5/2011	18:30	Cloudy	Middle	1.5	23.50	23.50	23.70	7.64	7.64	7.64	31.35	31.35	31.35	63.3	61.0	63.2	4.45	4.29	4.45	1.63	1.94	1.73	4	4.00
	18:31		Middle	1.5	23.90	23.90		7.64	7.64		31.35	31.35		64.3	64.2		4.53	4.52		1.75	1.58		4	
7/5/2011	19:58	Cloudy	Middle	1.5	25.40	25.40	25.43	7.59	7.59	7.59	30.84	30.84	30.84	50.9	51.1	51.4	3.50	3.52	3.53	2.53	2.28	2.28	4	3.50
	19:59		Middle	1.5	25.40	25.50		7.59	7.59		30.84	30.84		51.4	52.3		3.50	3.60		2.11	2.20		3	
10/5/2011	0:35	Cloudy	Middle	1.5	26.50	26.50	26.50	7.88	7.88	7.88	30.81	30.81	30.81	55.6	56.2	55.0	3.69	3.73	3.64	2.34	2.06	2.06	7	6.50
	0:36		Middle	1.5	26.50	26.50		7.87	7.87		30.81	30.81		53.9	54.4		3.51	3.61		2.07	1.78		6	
12/5/2011	10:12	Fine	Middle	1.5	26.36	26.36	26.38	6.52	6.52	6.51	29.19	29.19	29.22	71.8	69.8	67.7	4.91	4.69	4.61	2.69	2.36	2.51	3	4.00
	10:14		Middle	1.5	26.40	26.40		6.50	6.50		29.25	29.25		64.9	64.4		4.43	4.41		2.53	2.45		5	
14/5/2011	17:07	Cloudy	Middle	1.5	25.53	25.53	25.53	7.04	7.04	7.04	29.43	29.43	29.44	66.8	66.6	66.4	4.64	4.61	4.61	0.68	0.79	0.74	3	3.00
	17:08		Middle	1.5	25.53	25.53		7.03	7.03		29.44	29.44		65.4	66.7		4.56	4.62		0.76	0.72		3	
16/5/2011	19:28	Rainy	Middle	1.5	24.60	24.60	24.60	7.68	7.68	7.68	30.87	30.87	30.90	58.8	57.7	58.5	4.10	4.03	4.09	2.63	2.17	2.29	4	3.00
	19:31		Middle	1.5	24.60	24.60		7.67	7.67		30.92	30.92		59.3	58.3		4.14	4.07		2.23	2.11		2	

Water Monitoring Result at C1 - HKCEC Extension
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
28/4/2011	14:00	Cloudy	Middle	3.0	24.10	24.10	24.15	7.83	7.83	7.83	32.00	32.00	32.05	91.7	90.6	90.6	6.38	6.34	6.31	3.47	2.84	3.14	8	7.00
	14:03		Middle	3.0	24.20	24.20		7.82	7.82		32.10	32.10		90.4	89.6		6.30	6.21		3.02	3.23		6	
30/4/2011	14:05	Cloudy	Middle	2.0	23.70	23.70	23.65	7.97	7.97	7.98	32.20	32.20	32.25	92.8	92.3	92.3	6.53	6.50	6.49	4.75	5.32	4.98	6	6.00
	14:08		Middle	2.0	23.60	23.60		7.98	7.98		32.30	32.30		92.1	91.9		6.48	6.46		4.92	4.93		6	
3/5/2011	16:42	Cloudy	Middle	3.0	24.70	24.70	24.75	7.95	7.95	7.96	31.60	31.60	31.55	88.6	88.1	88.1	6.12	6.08	6.08	3.60	3.50	3.52	6	6.00
	16:45		Middle	3.0	24.80	24.80		7.96	7.96		31.50	31.50		88.0	87.8		6.06	6.04		3.47	3.52		6	
5/5/2011	18:13	Cloudy	Middle	2.0	24.10	24.10	24.10	7.89	7.89	7.89	31.70	31.70	31.70	81.2	81.1	81.1	5.64	5.63	5.62	6.35	6.39	6.37	8	8.50
	18:14		Middle	2.0	24.10	24.10		7.89	7.89		31.70	31.70		81.0	80.9		5.60	5.59		6.49	6.24		9	
7/5/2011	19:50	Cloudy	Middle	2.0	25.60	25.60	25.60	7.89	7.89	7.89	31.40	31.40	31.40	85.8	85.5	85.3	5.74	5.71	5.71	5.73	6.05	5.90	6	6.50
	19:51		Middle	2.0	25.60	25.60		7.89	7.89		31.40	31.40		85.0	84.9		5.69	5.68		5.97	5.84		7	
10/5/2011	21:23	Cloudy	Middle	2.0	25.40	25.40	25.40	7.92	7.92	7.92	31.20	31.20	31.20	89.5	89.2	89.3	6.40	6.39	6.35	4.36	4.49	4.27	4	5.00
	21:24		Middle	2.0	25.40	25.40		7.92	7.92		31.20	31.20		89.4	89.0		6.32	6.30		4.08	4.14		6	
12/5/2011	10:30	Fine	Middle	1.0	27.30	27.30	27.35	8.02	8.02	8.03	29.50	29.50	29.50	98.7	98.6	98.7	6.57	6.56	6.56	2.41	2.00	2.17	3	3.50
	10:34		Middle	1.0	27.40	27.40		8.03	8.03		29.50	29.50		98.8	98.6		6.57	6.55		2.12	2.13		4	
14/5/2011	14:45	Cloudy	Middle	2.5	25.00	25.00	25.05	7.89	7.89	7.89	31.40	31.40	31.35	92.8	92.1	92.0	6.40	6.37	6.36	4.76	4.39	4.58	6	7.00
	14:48		Middle	2.5	25.10	25.10		7.88	7.88		31.30	31.30		92.0	91.2		6.35	6.30		4.59	4.59		8	
16/5/2011	15:36	Rainy	Middle	2.0	25.30	25.30	25.30	7.98	7.98	7.99	31.10	31.10	31.05	89.7	88.9	88.7	6.17	6.13	6.11	2.52	2.55	2.57	4	4.00
	15:38		Middle	2.0	25.30	25.30		7.99	7.99		31.00	31.00		88.4	87.8		6.07	6.05		2.79	2.43		4	
18/5/2011	19:26	Cloudy	Middle	2.0	24.70	24.70	24.85	7.36	7.36	7.36	30.94	30.94	30.96	65.4	70.4	66.5	4.54	4.89	4.62	8.02	8.12	8.05	16	17.00
	19:27		Middle	2.0	25.00	25.00		7.35	7.35		30.97	30.97		65.5	64.5		4.55	4.48		7.91	8.13		18	
20/5/2011	20:06	Cloudy	Middle	2.0	25.70	25.70	25.75	7.30	7.30	7.30	29.91	29.91	29.90	55.5	58.6	58.3	3.81	4.02	4.01	5.03	5.10	4.98	8	7.00
	20:07		Middle	2.0	25.80	25.80		7.30	7.30		29.89	29.89		59.6	59.6		4.10	4.09		4.96	4.81		6	
24/5/2011	21:02	Cloudy	Middle	1.5	24.60	24.60	24.60	7.90	7.90	7.91	29.90	29.90	29.90	86.9	86.7	86.6	5.98	5.97	5.96	2.92	2.85	2.93	7	7.50
	21:03		Middle	1.5	24.60	24.60		7.91	7.91		29.90	29.90		86.5	86.3		5.95	5.94		2.89	3.04		8	
26/5/2011	22:38	Cloudy	Middle	2.0	24.30	24.30	24.30	7.61	7.61	7.60	31.69	31.69	31.69	57.6	55.8	56.0	4.02	3.89	3.90	2.49	2.57	2.31	4	4.50
	22:39		Middle	2.0	24.30	24.30		7.59	7.59		31.69	31.69		55.7	55.0		3.88	3.80		2.13	2.05		5	

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
28/4/2011	13:40	Cloudy	Middle	2.0	24.40	24.30	24.33	7.28	7.28	7.28	32.00	32.00	32.05	87.0	86.4	85.7	6.05	5.98	5.95	5.46	5.67	5.67	7	6.50
	13:43		Middle	2.0	24.30	24.30		7.27	7.27		32.10	32.10		85.3	84.0		5.95	5.83		5.99	5.56		6	
30/4/2011	15:28	Cloudy	Middle	2.0	24.00	24.00	23.95	7.94	7.94	7.95	32.20	32.20	32.15	88.9	88.5	88.5	6.20	6.16	6.16	4.21	4.39	4.44	6	6.00
	15:31		Middle	2.0	23.90	23.90		7.95	7.95		32.10	32.10		88.3	88.2		6.15	6.13		4.68	4.48		6	
3/5/2011	16:30	Cloudy	Middle	2.0	24.60	24.60	24.55	7.93	7.93	7.94	31.80	31.80	31.85	89.8	89.4	88.9	6.21	6.19	6.14	3.71	3.88	3.69	5	5.50
	16:33		Middle	2.0	24.50	24.50		7.94	7.94		31.90	31.90		88.4	87.8		6.09	6.05		3.90	3.27		6	
5/5/2011	21:16	Cloudy	Middle	2.0	24.20	24.20	24.20	7.84	7.84	7.84	32.00	32.00	32.00	81.0	80.9	80.8	5.60	5.59	5.59	6.44	6.36	6.30	9	9.00
	21:17		Middle	2.0	24.20	24.20		7.84	7.84		32.00	32.00		80.7	80.6		5.58	5.57		6.17	6.23		9	
7/5/2011	22:04	Cloudy	Middle	2.0	25.00	25.00	25.00	7.85	7.85	7.85	31.60	31.60	31.60	82.5	82.4	82.3	5.61	5.60	5.59	4.43	4.23	4.28	6	6.00
	22:05		Middle	2.0	25.00	25.00		7.85	7.85		31.60	31.60		82.2	82.0		5.58	5.57		4.25	4.21		6	
10/5/2011	23:12	Cloudy	Middle	2.0	25.70	25.70	25.70	7.83	7.83	7.83	31.30	31.30	31.30	80.8	80.2	80.1	5.36	5.36	5.35	4.71	4.63	4.53	4	4.00
	23:13		Middle	2.0	25.70	25.70		7.83	7.83		31.30	31.30		79.9	79.6		5.35	5.34		4.34	4.43		4	
12/5/2011	10:15	Fine	Middle	1.0	26.70	26.70	26.90	7.95	7.95	7.96	30.10	30.10	30.20	91.2	90.9	90.8	6.15	6.14	6.12	2.71	3.09	2.78	6	5.50
	10:20		Middle	1.0	27.10	27.10		7.97	7.97		30.30	30.30		90.5	90.4		6.11	6.09		2.77	2.54		5	
14/5/2011	14:30	Cloudy	Middle	1.5	24.70	24.80	24.78	7.92	7.92	7.93	31.30	31.30	31.35	82.8	82.9	82.8	5.76	5.78	5.75	5.28	5.36	5.48	6	6.00
	14:33		Middle	1.5	24.80	24.80		7.93	7.93		31.40	31.40		82.7	82.6		5.74	5.73		5.67	5.61		6	
16/5/2011	15:28	Rainy	Middle	1.5	25.10	25.10	25.10	7.93	7.93	7.93	31.10	31.10	31.15	83.0	82.4	82.4	5.72	5.69	5.69	6.92	6.99	6.58	9	9.00
	15:30		Middle	1.5	25.10	25.10		7.93	7.93		31.20	31.20		82.2	81.9		5.68	5.65		6.52	5.87		9	
18/5/2011	21:07	Cloudy	Middle	2.0	23.30	23.30	23.45	7.23	7.23	7.23	30.76	30.76	30.77	59.1	60.1	58.8	4.20	4.24	4.17	6.46	6.15	6.31	9	10.00
	21:08		Middle	2.0	23.60	23.60		7.23	7.23		30.78	30.78		56.5	59.3		4.02	4.22		6.03	6.60		11	
20/5/2011	21:31	Cloudy	Middle	2.0	25.60	25.60	25.65	7.21	7.21	7.21	30.38	30.38	30.37	55.7	53.8	54.5	3.82	3.69	3.74	4.84	4.23	4.43	6	6.00
	21:32		Middle	2.0	25.70	25.70		7.21	7.21		30.35	30.35		54.3	54.1		3.73	3.71		4.38	4.28		6	
24/5/2011	23:22	Cloudy	Middle	2.0	25.60	25.60	25.60	7.95	7.95	7.95	30.50	30.50	30.50	82.2	82.1	82.0	5.59	5.58	5.57	6.90	7.30	7.03	15	15.50
	23:23		Middle	2.0	25.60	25.60		7.95	7.95		30.50	30.50		82.0	81.8		5.57	5.55		6.97	6.94		16	
26/5/2011	0:31	Cloudy	Middle	2.0	24.50	24.50	24.50	7.47	7.47	7.47	31.66	31.66	31.66	49.4	51.4	52.1	3.44	4.28	4.17	4.99	4.85	4.80	7	8.00
	0:32		Middle	2.0	24.50	24.50		7.47	7.47		31.66	31.66		53.4	54.1		4.45	4.51		4.84	4.52		9	

Water Monitoring Result at C3 - HKCEC Phase I
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)		Remarks
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average	
28/4/2011	15:15	Cloudy	Middle	3.0	24.20	24.20	24.15	7.88	7.88	7.88	32.30	32.30	32.30	68.0	67.2	67.1	4.75	4.68	4.67	12.00	12.20	**11.58**	17	**16.50**	Back filling; Repeated measurement: 11.13; Outside silt screen: 6.59
	15:18		Middle	3.0	24.10	24.10		7.87	7.87		32.30	32.30		66.7	66.4		4.65	4.61		11.40	10.70		16		
30/4/2011	15:16	Cloudy	Middle	3.0	23.90	23.90	23.95	7.89	7.89	7.90	32.70	32.70	32.65	84.4	84.1	83.8	5.91	5.85	5.85	21.00	21.10	**20.80**	17	18.00	Repeated measurement: 17.85 (inside turbidity); 8.75 (outside turbidity)
	15:18		Middle	3.0	24.00	24.00		7.90	7.90		32.60	32.60		83.5	83.3		5.84	5.80		20.60	20.50		19		
3/5/2011	17:45	Cloudy	Middle	3.0	25.10	25.10	25.05	7.86	7.86	7.87	31.90	31.90	31.85	78.7	77.1	77.3	5.33	5.31	5.30	11.70	11.60	**11.55**	15	15.00	Repeated measurement: 11.35; Outside silt screen: 5.91
	17:48		Middle	3.0	25.00	25.00		7.87	7.87		31.80	31.80		77.0	76.5		5.28	5.26		11.40	11.50		15		
5/5/2011	20:50	Cloudy	Middle	3.0	24.20	24.20	24.20	7.86	7.86	7.86	32.00	32.00	32.00	81.4	81.3	81.2	5.64	5.63	5.63	6.60	6.58	6.77	9	8.00	Outside silt screen: 6.26
	20:51		Middle	3.0	24.20	24.20		7.86	7.86		32.00	32.00		81.1	81.0		5.62	5.61		6.90	7.01		7		
7/5/2011	21:19	Cloudy	Middle	2.5	25.50	25.50	25.50	7.83	7.83	7.83	31.60	31.60	31.60	87.0	86.9	86.7	5.83	5.82	5.81	5.45	5.41	5.30	6	6.00	Outside silt screen: 6.04
	21:20		Middle	2.5	25.50	25.50		7.83	7.83		31.60	31.60		86.4	86.3		5.79	5.78		5.23	5.12		6		
10/5/2011	22:53	Cloudy	Middle	2.5	26.60	26.60	26.60	7.85	7.85	7.85	31.40	31.40	31.40	76.6	76.5	76.3	5.24	5.21	5.21	4.24	4.14	4.09	3	3.00	Outside silt screen: 4.72
	22:54		Middle	2.5	26.60	26.60		7.85	7.85		31.40	31.40		76.2	76.0		5.19	5.18		4.02	3.95		3		
12/5/2011	11:48	Fine	Middle	2.5	26.90	26.90	26.90	7.96	7.96	7.96	30.60	30.60	30.60	86.7	86.5	86.3	5.82	5.80	5.79	27.60	27.70	**27.03**	33	**32.00**	Repeated measurement: 25.98; Outside silt screen: 8.63; Brownish-yellow water was observed
	11:53		Middle	2.5	26.90	26.90		7.96	7.96		30.60	30.60		86.1	85.8		5.77	5.75		26.70	26.10		31		
14/5/2011	15:20	Cloudy	Middle	2.5	25.30	25.30	25.35	7.98	7.98	7.99	31.40	31.40	31.35	79.6	78.9	78.9	5.45	5.42	5.42	10.30	10.40	10.53	10	9.50	Repeated measurement: 10.30; Outside silt screen: 8.94; Backfilling
	15:23		Middle	2.5	25.40	25.40		7.99	7.99		31.30	31.30		78.7	78.2		5.43	5.38		10.50	10.90		9		
16/5/2011	17:30	Rainy	Middle	2.5	25.80	25.80	25.80	7.97	7.97	7.97	31.50	31.50	31.50	85.1	83.9	83.6	5.79	5.68	5.65	5.57	5.20	5.17	5	5.50	Outside silt curtain: 4.59
	17:33		Middle	2.5	25.80	25.80		7.97	7.97		31.50	31.50		83.9	81.6		5.57	5.55		5.00	4.90		6		
18/5/2011	17:05	Cloudy	Middle	1.0	24.30	24.30	24.35	7.79	7.79	7.80	31.50	31.50	31.55	86.8	86.0	85.7	6.02	5.98	5.95	4.65	4.59	4.69	7	6.50	Backfilling
	17:08		Middle	1.0	24.40	24.40		7.80	7.80		31.60	31.60		85.4	84.7		5.91	5.88		4.58	4.93		6		
20/5/2011	21:15	Cloudy	Middle	2.5	25.60	25.60	25.65	7.12	7.12	7.12	30.09	30.09	30.08	50.2	51.1	50.7	3.46	3.52	3.49	3.21	2.91	3.14	3	2.50	Outside silt screen: 4.29
	21:16		Middle	2.5	25.70	25.70		7.12	7.12		30.07	30.07		50.2	51.1		3.46	3.52		3.53	2.89		2		
24/5/2011	23:06	Cloudy	Middle	2.5	25.60	25.60	25.60	7.90	7.90	7.90	30.20	30.20	30.20	81.8	81.4	81.4	5.54	5.53	5.52	2.97	2.80	2.83	6	5.00	Outside silt screen: 5.68
	23:07		Middle	2.5	25.60	25.60		7.90	7.90		30.20	30.20		81.3	81.1		5.51	5.49		2.76	2.79		4		
26/5/2011	0:06	Cloudy	Middle	2.5	24.40	24.40	24.40	7.52	7.52	7.52	31.63	31.63	31.63	50.0	49.8	49.8	3.49	3.47	3.47	5.01	4.87	4.83	6	5.50	Outside silt screen: 5.39
	0:07		Middle	2.5	24.40	24.40		7.52	7.52		31.63	31.63		49.2	50.1		3.43	3.50		4.70	4.75		5		

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
28/4/2011	15:00	Cloudy	Middle	1.5	24.30	24.40	24.35	7.83	7.83	7.83	32.10	32.10	32.05	82.1	81.8	80.9	5.71	5.66	5.61	1.69	1.41	1.60	9	8.00
	15:03		Middle	1.5	24.30	24.40		7.82	7.82		32.00	32.00		80.0	79.5		5.57	5.51		1.37	1.91		7	
30/4/2011	14:55	Cloudy	Middle	1.5	23.90	23.90	23.85	7.80	7.80	7.81	32.50	32.50	32.40	78.2	77.0	77.1	5.45	5.38	5.38	6.29	6.21	6.25	7	7.50
	14:58		Middle	1.5	23.80	23.80		7.81	7.81		32.30	32.30		76.7	76.4		5.35	5.34		6.46	6.04		8	
3/5/2011	17:35	Cloudy	Middle	1.5	25.30	25.30	25.35	7.82	7.82	7.82	31.70	31.70	31.65	70.0	69.2	69.2	4.77	4.74	4.73	4.14	4.13	3.85	14	10.00
	17:38		Middle	1.5	25.40	25.40		7.81	7.81		31.60	31.60		69.0	68.7		4.71	4.69		3.56	3.55		6	
5/5/2011	19:57	Cloudy	Middle	2.0	24.40	24.40	24.40	7.84	7.84	7.84	31.90	31.90	31.90	85.4	85.3	85.2	5.86	5.84	5.83	4.96	4.95	4.99	6	7.00
	19:58		Middle	2.0	24.40	24.40		7.84	7.84		31.90	31.90		85.1	85.0		5.82	5.81		5.05	5.01		8	
7/5/2011	21:44	Cloudy	Middle	2.0	25.00	25.00	25.00	7.83	7.83	7.83	31.30	31.30	31.30	84.9	84.7	84.6	5.76	5.75	5.74	4.94	5.01	5.01	5	5.50
	21:45		Middle	2.0	25.00	25.00		7.83	7.83		31.30	31.30		84.4	84.3		5.72	5.71		5.03	5.06		6	
10/5/2011	22:38	Cloudy	Middle	2.0	25.70	25.70	25.70	7.82	7.82	7.82	31.20	31.20	31.20	76.6	76.3	76.1	5.39	5.35	5.32	4.33	4.48	4.27	4	5.00
	22:39		Middle	2.0	25.70	25.70		7.82	7.82		31.20	31.20		75.9	75.7		5.30	5.25		4.06	4.21		6	
12/5/2011	11:25	Fine	Middle	1.5	27.30	27.30	27.30	7.94	7.94	7.93	30.60	30.60	30.60	87.3	86.6	86.3	5.79	5.75	5.73	5.70	5.68	5.48	8	8.00
	11:29		Middle	1.5	27.30	27.30		7.92	7.92		30.60	30.60		85.9	85.3		5.70	5.66		5.31	5.22		8	
14/5/2011	15:10	Cloudy	Middle	1.0	25.20	25.20	25.25	7.90	7.90	7.90	31.50	31.50	31.45	78.6	78.3	78.2	5.41	5.39	5.38	5.15	5.28	5.26	4	5.00
	15:13		Middle	1.0	25.30	25.30		7.90	7.91		31.40	31.40		78.2	77.8		5.38	5.35		5.36	5.23		6	
16/5/2011	17:10	Rainy	Middle	1.0	25.90	25.90	25.90	7.95	7.95	7.95	31.50	31.50	31.50	81.9	82.2	80.7	5.56	5.53	5.47	5.90	5.43	5.53	7	7.00
	17:12		Middle	1.0	25.90	25.90		7.94	7.94		31.50	31.50		79.6	78.9		5.40	5.37		5.31	5.46		7	
18/5/2011	20:42	Cloudy	Middle	2.0	22.10	22.10	22.30	7.11	7.11	7.11	30.97	30.93	30.92	61.4	61.5	61.4	4.45	4.46	4.45	4.39	5.02	4.82	4	5.00
	20:43		Middle	2.0	22.50	22.50		7.11	7.11		30.89	30.89		63.6	59.2		4.61	4.29		4.77	5.10		6	
20/5/2011	21:00	Cloudy	Middle	2.0	25.80	25.80	25.80	7.20	7.20	7.20	30.09	30.09	30.09	52.6	52.8	53.2	3.61	3.62	3.65	4.52	5.05	4.77	5	5.50
	21:01		Middle	2.0	25.80	25.80		7.20	7.20		30.08	30.08		53.6	53.6		3.68	3.68		4.67	4.82		6	
24/5/2011	22:23	Cloudy	Middle	2.0	25.50	25.50	25.50	7.88	7.88	7.88	30.10	30.10	30.10	78.9	78.8	78.7	5.34	5.33	5.32	5.72	5.56	5.58	4	5.00
	22:24		Middle	2.0	25.50	25.50		7.88	7.88		30.10	30.10		78.6	78.4		5.31	5.30		5.62	5.40		6	
26/5/2011	23:42	Cloudy	Middle	2.0	24.30	24.30	24.30	7.53	7.53	7.53	31.48	31.48	31.48	60.3	60.3	60.2	4.22	4.22	4.19	4.41	4.28	4.28	5	6.00
	23:43		Middle	2.0	24.30	24.30		7.53	7.53		31.48	31.48		59.5	60.5		4.10	4.22		4.32	4.10		7	

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
28/4/2011	14:50	Cloudy	Middle	1.5	24.40	24.40	24.40	7.78	7.78	7.79	32.10	32.10	32.10	74.6	74.3	74.0	5.19	5.14	5.13	1.68	1.35	1.52	4	4.50
	14:53		Middle	1.5	24.40	24.40		7.79	7.79		32.10	32.10		73.7	73.3		5.12	5.08		1.58	1.48		5	
30/4/2011	14:45	Cloudy	Middle	1.5	24.10	24.10	24.15	7.76	7.76	7.77	32.20	32.20	32.15	76.7	75.8	75.7	5.35	5.29	5.28	2.10	2.13	2.07	2	2.00
	14:48		Middle	1.5	24.20	24.20		7.77	7.77		32.10	32.10		75.5	74.7		5.25	5.22		2.00	2.06		2	
3/5/2011	17:25	Cloudy	Middle	1.5	25.40	25.40	25.45	7.82	7.82	7.83	31.60	31.60	31.55	83.5	82.3	81.8	5.69	5.62	5.59	4.89	4.54	4.76	4	4.00
	17:28		Middle	1.5	25.50	25.50		7.83	7.83		31.50	31.50		81.4	80.1		5.54	5.50		4.84	4.77		4	
5/5/2011	20:15	Cloudy	Middle	2.0	24.50	24.50	24.50	7.72	7.72	7.72	31.80	31.80	31.80	77.8	77.4	77.4	5.32	5.30	5.29	1.16	1.05	1.05	4	3.50
	20:16		Middle	2.0	24.50	24.50		7.72	7.72		31.80	31.80		77.3	77.0		5.27	5.26		0.97	1.01		3	
7/5/2011	21:52	Cloudy	Middle	2.0	25.00	25.00	25.00	7.80	7.80	7.80	31.30	31.30	31.30	78.9	78.8	78.7	5.33	5.32	5.31	1.60	1.52	1.52	4	3.50
	21:53		Middle	2.0	25.00	25.00		7.80	7.80		31.30	31.30		78.6	78.5		5.29	5.28		1.48	1.47		3	
10/5/2011	22:44	Cloudy	Middle	2.0	26.20	26.20	26.20	7.81	7.81	7.81	31.20	31.20	31.20	61.3	60.9	60.8	4.24	4.21	4.21	1.35	1.41	1.40	3	3.00
	22:45		Middle	2.0	26.20	26.20		7.81	7.81		31.20	31.20		60.6	60.4		4.20	4.18		1.43	1.42		3	
12/5/2011	11:36	Fine	Middle	1.5	26.90	26.90	26.95	7.79	7.79	7.79	30.50	30.50	30.50	62.8	62.4	62.1	4.21	4.18	4.16	1.27	1.26	1.25	<2	<2
	11:40		Middle	1.5	27.00	27.00		7.79	7.79		30.50	30.50		61.8	61.4		4.13	4.11		1.26	1.21		<2	
14/5/2011	15:20	Cloudy	Middle	1.5	25.20	25.20	25.25	7.84	7.84	7.85	31.00	31.00	31.05	71.8	71.3	70.7	4.96	4.90	4.87	1.32	1.64	1.47	<2	<2
	15:23		Middle	1.5	25.30	25.30		7.85	7.85		31.10	31.10		70.3	69.4		4.83	4.79		1.36	1.56		<2	
16/5/2011	16:55	Rainy	Middle	1.0	26.00	26.00	26.00	7.95	7.95	7.95	31.40	31.40	31.90	81.4	80.8	80.4	5.52	5.50	5.46	5.44	5.17	5.15	6	6.00
	16:58		Middle	1.0	26.00	26.00		7.95	7.95		32.40	32.40		79.9	79.3		5.42	5.39		4.94	5.03		6	
18/5/2011	20:49	Cloudy	Middle	2.0	24.10	24.10	24.10	7.21	7.21	7.21	30.82	30.82	30.85	65.5	61.2	63.2	4.62	4.32	4.46	1.72	1.68	1.69	4	3.00
	20:51		Middle	2.0	24.10	24.10		7.21	7.21		30.87	30.87		63.7	62.2		4.49	4.40		1.76	1.59		2	
20/5/2011	21:08	Cloudy	Middle	2.0	25.90	25.90	25.90	7.03	7.03	7.03	30.05	30.05	30.05	49.9	49.9	50.1	3.42	3.42	3.44	2.01	1.68	1.92	2	2.00
	21:09		Middle	2.0	25.90	25.90		7.03	7.03		30.05	30.05		50.3	50.2		3.47	3.46		2.13	1.87		<2	
24/5/2011	22:39	Cloudy	Middle	2.0	25.10	25.10	25.10	7.70	7.70	7.70	29.30	29.30	29.30	75.4	74.9	74.5	5.06	5.03	5.00	1.23	1.05	1.09	6	5.00
	22:40		Middle	2.0	25.10	25.10		7.70	7.70		29.30	29.30		73.9	73.7		4.96	4.93		1.13	0.95		4	
26/5/2011	23:55	Cloudy	Middle	2.0	24.40	24.40	24.40	7.17	7.17	7.17	31.03	31.03	31.04	56.7	56.7	55.7	3.95	3.95	3.87	1.03	0.92	1.03	<2	2.00
	23:56		Middle	2.0	24.40	24.40		7.17	7.17		31.04	31.04		54.8	54.7		3.78	3.78		1.22	0.95		2	

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
28/4/2011	14:23	Cloudy	Middle	1.5	24.80	24.80	24.85	7.84	7.84	7.84	32.20	32.20	32.25	82.1	81.5	81.2	5.66	5.61	5.60	2.86	2.94	2.93	5	5.50
	14:26		Middle	1.5	24.90	24.90		7.83	7.83		32.30	32.30		80.8	80.4		5.58	5.53		2.81	3.11		6	
30/4/2011	14:33	Cloudy	Middle	1.5	25.00	25.00	24.95	7.89	7.89	7.89	32.40	32.40	32.35	82.8	82.3	82.0	5.67	5.62	5.60	7.31	7.33	7.13	7	8.00
	14:36		Middle	1.5	24.90	24.90		7.88	7.88		32.30	32.30		81.6	81.1		5.59	5.53		7.08	6.80		9	
3/5/2011	17:15	Cloudy	Middle	1.5	25.30	25.30	25.35	7.84	7.84	7.84	31.80	31.80	31.75	84.6	83.7	83.3	5.76	5.72	5.69	6.48	6.82	6.69	14	15.00
	17:18		Middle	1.5	25.40	25.40		7.83	7.83		31.70	31.70		82.9	82.1		5.65	5.61		6.93	6.54		16	
5/5/2011	19:15	Cloudy	Middle	2.0	24.30	24.30	24.30	7.81	7.81	7.81	30.90	30.90	30.90	74.4	74.3	74.2	5.14	5.13	5.13	4.75	4.86	4.63	9	8.00
	19:16		Middle	2.0	24.30	24.30		7.81	7.81		30.90	30.90		74.0	73.9		5.12	5.11		4.48	4.43		7	
7/5/2011	20:36	Cloudy	Middle	2.0	25.20	25.20	25.20	7.85	7.85	7.85	31.30	31.30	31.30	84.7	84.6	84.5	5.78	5.76	5.76	5.38	5.66	5.38	6	7.00
	20:37		Middle	2.0	25.20	25.20		7.85	7.85		31.30	31.30		84.3	84.2		5.75	5.74		5.30	5.17		8	
10/5/2011	21:57	Cloudy	Middle	2.0	25.50	25.50	25.50	7.84	7.84	7.84	30.40	30.40	30.40	69.2	68.6	68.6	4.98	4.94	4.93	3.65	3.20	3.34	7	6.00
	21:58		Middle	2.0	25.50	25.50		7.84	7.84		30.40	30.40		68.5	68.1		4.92	4.87		3.14	3.35		5	
12/5/2011	11:10	Fine	Middle	1.5	27.60	27.60	27.75	7.90	7.90	7.90	30.40	30.40	30.40	81.1	80.1	79.6	5.36	5.29	5.25	3.42	3.32	3.27	4	5.00
	11:13		Middle	1.5	27.90	27.90		7.89	7.89		30.40	30.40		78.9	78.2		5.19	5.15		3.14	3.19		6	
14/5/2011	14:00	Cloudy	Middle	1.0	24.70	24.70	24.70	7.87	7.87	7.87	30.80	30.80	30.85	70.4	67.9	69.2	4.96	4.79	4.89	6.75	6.73	6.57	7	6.50
	14:03		Middle	1.0	24.70	24.70		7.87	7.87		30.90	30.90		70.5	68.1		4.98	4.81		6.34	6.44		6	
16/5/2011	16:25	Rainy	Middle	1.5	26.00	26.00	25.95	7.95	7.95	7.96	31.40	31.40	31.40	84.7	83.9	83.3	5.76	5.69	5.66	4.56	4.67	4.58	8	7.00
	16:27		Middle	1.5	25.90	25.90		7.96	7.96		31.40	31.40		82.6	81.9		5.62	5.56		4.51	4.56		6	
18/5/2011	20:13	Cloudy	Middle	2.0	24.30	24.30	24.30	7.15	7.15	7.16	30.81	30.81	30.82	61.0	61.7	60.0	4.28	4.33	4.21	2.51	2.59	2.59	3	3.50
	20:14		Middle	2.0	24.30	24.30		7.16	7.16		30.82	30.82		59.4	57.7		4.17	4.04		2.53	2.74		4	
20/5/2011	20:36	Cloudy	Middle	2.0	25.70	25.70	25.75	7.14	7.14	7.14	28.39	28.39	28.39	52.5	51.0	51.2	3.64	3.54	3.54	2.59	2.49	2.48	3	2.50
	20:37		Middle	2.0	25.80	25.80		7.14	7.14		28.39	28.39		50.1	51.2		3.47	3.52		2.40	2.45		2	
24/5/2011	21:52	Cloudy	Middle	2.0	25.10	25.10	25.10	7.83	7.83	7.83	28.30	28.30	28.30	79.2	79.0	78.9	5.36	5.34	5.33	2.49	2.33	2.37	4	5.00
	21:53		Middle	2.0	25.10	25.10		7.83	7.83		28.30	28.30		78.9	78.6		5.33	5.29		2.36	2.28		6	
26/5/2011	23:16	Cloudy	Middle	2.0	24.10	24.10	24.10	7.41	7.41	7.41	30.07	30.07	30.07	50.5	50.6	51.6	3.56	3.56	3.63	2.76	1.82	2.16	4	3.50
	23:17		Middle	2.0	24.10	24.10		7.41	7.41		30.07	30.07		52.6	52.8		3.70	3.71		2.07	1.99		3	

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
28/4/2011	14:30	Cloudy	Middle	1.5	24.80	24.80	24.80	7.85	7.85	7.85	32.20	32.20	32.15	73.5	73.3	73.0	5.06	5.04	5.03	2.65	2.78	2.59	6	5.00
	14:33		Middle	1.5	24.80	24.80		7.84	7.84		32.10	32.10		72.8	72.5		5.02	4.98		2.58	2.35		4	
30/4/2011	14:26	Cloudy	Middle	1.5	25.10	25.10	25.15	7.83	7.83	7.84	32.50	32.50	32.45	85.4	84.8	84.3	5.83	5.79	5.75	4.41	4.36	4.29	4	4.00
	14:29		Middle	1.5	25.20	25.20		7.84	7.84		32.40	32.40		83.7	83.3		5.71	5.65		4.25	4.14		4	
3/5/2011	17:07	Cloudy	Middle	1.5	25.60	25.60	25.55	7.89	7.89	7.89	31.60	31.60	31.55	78.8	77.8	77.5	5.35	5.31	5.28	6.76	7.08	6.92	11	10.50
	17:10		Middle	1.5	25.50	25.50		7.88	7.88		31.50	31.50		77.1	76.3		5.23	5.21		6.84	6.99		10	
5/5/2011	19:32	Cloudy	Middle	2.0	24.20	24.20	24.20	7.85	7.85	7.85	30.80	30.80	30.80	82.6	82.5	82.3	5.72	5.71	5.69	3.30	3.39	3.35	5	5.00
	19:33		Middle	2.0	24.20	24.20		7.85	7.85		30.80	30.80		82.0	81.9		5.68	5.66		3.25	3.45		5	
7/5/2011	20:49	Cloudy	Middle	2.0	25.00	25.00	25.00	7.90	7.90	7.90	31.40	31.40	31.40	86.8	86.7	86.5	5.90	5.89	5.88	5.73	5.83	5.77	8	8.00
	20:50		Middle	2.0	25.00	25.00		7.90	7.90		31.40	31.40		86.3	86.2		5.86	5.85		5.82	5.70		8	
10/5/2011	22:08	Cloudy	Middle	2.0	24.80	24.80	24.80	7.83	7.83	7.83	30.80	30.80	30.80	63.6	62.9	62.7	4.25	4.21	4.21	5.86	6.27	6.10	9	8.50
	22:09		Middle	2.0	24.80	24.80		7.83	7.83		30.80	30.80		62.4	61.9		4.19	4.17		6.25	6.02		8	
12/5/2011	11:02	Fine	Middle	1.5	27.60	27.60	27.65	7.90	7.90	7.90	30.40	30.40	30.45	80.9	80.4	79.7	5.35	5.33	5.27	2.30	2.50	2.34	3	3.50
	11:06		Middle	1.5	27.70	27.70		7.90	7.90		30.50	30.50		79.0	78.5		5.22	5.18		2.28	2.26		4	
14/5/2011	14:07	Cloudy	Middle	1.0	24.70	24.70	24.75	7.84	7.84	7.84	31.60	31.60	31.55	64.2	63.6	64.3	4.47	4.43	4.48	5.86	5.75	5.58	6	6.50
	14:10		Middle	1.0	24.80	24.80		7.83	7.83		31.50	31.50		65.4	64.0		4.56	4.46		5.47	5.24		7	
16/5/2011	16:33	Rainy	Middle	1.5	25.90	25.90	25.85	7.96	7.96	7.97	31.30	31.30	31.30	64.6	64.1	64.1	4.40	4.38	4.37	4.18	4.34	4.34	5	5.50
	16:35		Middle	1.5	25.80	25.80		7.97	7.97		31.30	31.30		63.7	64.1		4.34	4.36		4.17	4.65		6	
18/5/2011	20:20	Cloudy	Middle	2.0	24.60	24.60	24.60	7.28	7.28	7.28	30.53	30.53	30.55	59.9	59.7	58.5	4.19	4.18	4.09	3.32	3.27	3.37	5	4.00
	20:21		Middle	2.0	24.60	24.60		7.28	7.28		30.56	30.56		56.9	57.5		3.98	4.02		3.52	3.38		3	
20/5/2011	20:40	Cloudy	Middle	2.0	25.80	25.80	25.80	7.07	7.07	7.07	28.11	28.11	28.11	56.5	57.9	56.0	3.92	4.02	3.89	2.19	2.30	2.19	5	4.00
	20:41		Middle	2.0	25.80	25.80		7.07	7.07		28.10	28.10		52.2	57.5		3.62	3.99		2.13	2.13		3	
24/5/2011	22:02	Cloudy	Middle	2.0	24.20	24.20	24.20	7.88	7.88	7.88	28.00	28.00	27.95	77.9	77.8	77.6	5.44	5.43	5.42	5.66	5.71	5.60	6	7.00
	22:03		Middle	2.0	24.20	24.20		7.88	7.88		27.90	27.90		77.4	77.3		5.41	5.40		5.47	5.57		8	
26/5/2011	23:21	Cloudy	Middle	2.0	24.20	24.20	24.20	7.38	7.38	7.38	28.82	28.82	28.82	57.5	60.9	59.9	4.09	4.33	4.26	1.87	1.45	1.59	3	3.00
	23:22		Middle	2.0	24.20	24.20		7.38	7.38		28.82	28.82		60.9	60.4		4.33	4.30		1.44	1.60		3	

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
28/4/2011	14:33	Cloudy	Middle	2.0	24.40	24.40	24.45	7.81	7.81	7.82	32.10	32.10	32.05	81.6	80.7	80.1	5.68	5.58	5.56	4.28	3.86	3.94	8	7.50
	14:36		Middle	2.0	24.50	24.50		7.82	7.82		32.00	32.00		79.3	78.8		5.51	5.45		3.81	3.80		7	
30/4/2011	14:15	Cloudy	Middle	1.5	24.10	24.10	24.15	7.83	7.83	7.83	32.60	32.60	32.55	82.3	81.9	81.8	5.73	5.71	5.69	5.85	5.81	5.65	6	7.00
	14:18		Middle	1.5	24.20	24.20		7.82	7.82		32.50	32.50		81.5	81.3		5.67	5.65		5.35	5.60		8	
3/5/2011	17:00	Cloudy	Middle	1.0	25.20	25.20	25.15	7.84	7.84	7.84	31.80	31.80	31.85	79.2	78.2	77.9	5.41	5.36	5.34	3.97	3.69	3.85	9	9.50
	17:03		Middle	1.0	25.10	25.10		7.83	7.83		31.90	31.90		77.6	76.7		5.31	5.27		3.88	3.86		10	
5/5/2011	18:38	Cloudy	Middle	2.0	24.50	24.50	24.50	7.85	7.85	7.85	32.00	32.00	32.00	84.5	84.4	84.3	5.82	5.81	5.81	6.64	6.53	6.40	8	8.50
	18:39		Middle	2.0	24.50	24.50		7.85	7.86		32.00	32.00		84.2	84.1		5.80	5.79		6.27	6.15		9	
7/5/2011	20:09	Cloudy	Middle	2.0	25.40	25.40	25.40	7.87	7.87	7.87	31.40	31.40	31.40	87.1	86.9	86.8	5.90	5.88	5.87	7.32	6.90	6.87	10	9.50
	20:10		Middle	2.0	25.40	25.40		7.87	7.87		31.40	31.40		86.6	86.5		5.86	5.85		6.67	6.57		9	
10/5/2011	21:39	Cloudy	Middle	2.0	25.70	25.70	25.70	7.82	7.82	7.82	31.40	31.40	31.40	74.8	74.4	74.1	5.38	5.32	5.29	4.99	4.62	4.70	9	8.00
	21:40		Middle	2.0	25.70	25.70		7.82	7.82		31.40	31.40		73.8	73.3		5.25	5.22		4.76	4.41		7	
12/5/2011	10:47	Fine	Middle	1.5	27.50	27.50	27.60	7.91	7.91	7.91	30.50	30.50	30.60	83.2	82.2	82.1	5.47	5.42	5.41	3.41	3.62	3.66	3	4.00
	10:53		Middle	1.5	27.70	27.70		7.91	7.91		30.70	30.70		82.0	81.0		5.40	5.34		3.65	3.95		5	
14/5/2011	14:19	Cloudy	Middle	1.5	25.00	25.00	24.95	7.93	7.93	7.93	31.40	31.40	31.35	74.0	73.0	73.8	5.13	5.06	5.11	4.95	5.11	4.74	6	5.00
	14:22		Middle	1.5	24.90	24.90		7.92	7.92		31.30	31.30		74.2	73.8		5.14	5.11		4.58	4.30		4	
16/5/2011	16:05	Rainy	Middle	2.0	25.50	25.50	25.50	7.96	7.96	7.96	31.50	31.50	31.50	85.2	84.2	83.2	5.81	5.77	5.68	4.18	4.51	4.46	5	5.50
	16:08		Middle	2.0	25.50	25.50		7.96	7.96		31.50	31.50		82.0	81.2		5.59	5.55		4.72	4.41		6	
18/5/2011	19:49	Cloudy	Middle	2.0	24.20	24.20	24.20	7.29	7.29	7.29	30.75	30.75	30.75	62.3	60.9	61.2	4.38	4.28	4.30	3.28	3.01	3.35	4	4.00
	19:50		Middle	2.0	24.20	24.20		7.29	7.29		30.75	30.75		63.1	58.6		4.43	4.12		3.28	3.83		4	
20/5/2011	20:20	Cloudy	Middle	2.0	25.90	25.90	25.95	7.22	7.22	7.23	30.10	30.10	30.09	55.6	52.3	55.3	3.81	3.58	3.79	5.27	5.98	5.71	15	14.00
	20:21		Middle	2.0	26.00	26.00		7.23	7.23		30.08	30.08		56.2	57.0		3.85	3.90		5.57	6.03		13	
24/5/2011	21:26	Cloudy	Middle	2.0	25.30	25.30	25.30	7.87	7.87	7.88	29.70	29.70	29.70	86.8	86.7	86.4	5.77	5.74	5.74	3.32	3.27	3.27	8	7.50
	21:27		Middle	2.0	25.30	25.30		7.88	7.88		29.70	29.70		86.2	86.0		5.73	5.71		3.26	3.23		7	
26/5/2011	22:57	Cloudy	Middle	2.0	24.40	24.40	24.40	7.42	7.42	7.42	31.55	31.55	31.56	57.7	56.5	57.0	4.02	3.94	3.97	1.87	1.66	1.74	4	4.00
	22:58		Middle	2.0	24.40	24.40		7.42	7.42		31.56	31.56		56.1	57.7		3.91	4.02		1.64	1.78		4	

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
28/4/2011	12:49	Cloudy	Middle	1.5	24.20	24.20	24.35	7.81	7.81	7.82	32.10	32.10	32.09	76.8	74.9	77.0	5.33	5.20	5.34	3.10	2.94	2.99	13	12.00
	12:53		Middle	1.5	24.50	24.50		7.82	7.82		32.08	32.08		79.1	77.0		5.48	5.34		2.88	3.04		11	
30/4/2011	15:10	Cloudy	Middle	1.5	25.30	25.30	25.30	7.90	7.90	7.90	32.14	32.14	32.14	83.6	81.5	83.1	5.72	5.56	5.62	4.06	4.31	4.30	8	7.50
	15:11		Middle	1.5	25.30	25.30		7.90	7.90		32.14	32.14		86.3	81.0		5.76	5.44		4.10	4.74		7	
3/5/2011	21:49	Cloudy	Middle	2.0	24.60	24.40	24.55	7.81	7.81	7.81	31.82	31.82	31.82	67.2	62.3	65.2	4.69	4.31	4.52	5.84	5.80	5.68	20	16.00
	21:50		Middle	2.0	24.60	24.60		7.81	7.81		31.82	31.82		66.9	64.2		4.63	4.45		5.71	5.38		12	
5/5/2011	17:36	Cloudy	Middle	2.0	23.90	23.90	23.90	7.83	7.83	7.83	31.65	31.65	31.65	76.8	73.4	73.7	5.05	5.12	5.07	9.26	9.40	9.34	16	16.00
	17:37		Middle	2.0	23.90	23.90		7.83	7.83		31.65	31.65		72.0	72.7		5.03	5.08		8.91	9.77		16	
7/5/2011	19:13	Cloudy	Middle	1.5	25.50	25.60	25.58	7.83	7.83	7.83	31.22	31.22	31.22	82.4	83.9	81.9	5.63	5.72	5.59	7.70	7.95	7.92	12	13.00
	19:14		Middle	1.5	25.60	25.60		7.83	7.83		31.22	31.22		80.9	80.5		5.52	5.49		8.03	8.00		14	
10/5/2011	22:29	Cloudy	Middle	2.0	26.70	26.70	26.70	7.93	7.98	7.92	30.40	30.40	30.42	85.4	84.8	83.6	5.79	5.71	5.64	2.80	3.04	2.77	9	8.00
	22:30		Middle	2.0	26.70	26.70		7.88	7.88		30.43	30.43		82.5	81.5		5.56	5.50		2.52	2.72		7	
12/5/2011	14:45	Fine	Middle	2.5	27.44	27.44	27.49	7.11	7.11	7.10	29.02	29.02	29.04	100.5	100.5	100.4	6.75	6.75	6.74	3.04	3.23	3.10	4	4.00
	14:48		Middle	2.5	27.53	27.53		7.09	7.09		29.06	29.06		100.1	100.3		6.73	6.74		2.96	3.16		4	
14/5/2011	15:37	Cloudy	Middle	2.0	25.34	25.34	25.36	7.27	7.27	7.28	30.67	30.66	30.66	80.4	76.7	76.3	5.55	5.29	5.26	2.94	2.87	2.96	8	7.00
	15:38		Middle	2.0	25.37	25.37		7.28	7.28		30.66	30.66		74.9	73.0		5.16	5.04		3.57	2.45		6	
16/5/2011	15:37	Rainy	Middle	1.5	25.20	25.20	25.25	7.89	7.89	7.88	31.03	31.03	31.03	73.8	72.2	73.1	5.09	4.98	5.04	5.97	5.84	5.82	9	9.50
	15:43		Middle	1.5	25.30	25.30		7.86	7.86		31.02	31.02		72.9	73.4		5.03	5.06		5.79	5.67		10	
18/5/2011	21:38	Cloudy	Middle	1.5	24.87	24.87	24.88	7.37	7.37	7.37	30.84	30.84	30.85	56.9	54.4	56.3	3.95	3.78	3.91	5.59	5.12	5.46	14	13.50
	21:39		Middle	1.5	24.88	24.88		7.37	7.37		30.85	30.85		57.2	56.5		3.97	3.92		5.75	5.37		13	
20/5/2011	20:50	Cloudy	Middle	2.0	25.79	25.79	25.79	7.29	7.29	7.29	30.40	30.40	30.39	57.7	57.4	58.0	3.95	3.93	3.98	4.91	5.10	4.97	6	6.00
	20:51		Middle	2.0	25.79	25.80		7.29	7.29		30.38	30.38		56.3	60.7		3.86	4.16		4.94	4.93		6	
24/5/2011	22:20	Cloudy	Middle	2.0	25.31	25.31	25.32	7.43	7.43	7.43	30.14	30.14	30.15	70.7	71.7	70.2	4.90	4.97	4.86	4.64	4.68	4.96	16	15.00
	22:21		Middle	2.0	25.33	25.33		7.43	7.43		30.15	30.15		70.6	67.6		4.89	4.68		5.34	5.17		14	
26/5/2011	3:15	Cloudy	Middle	2.0	25.07	25.07	25.07	7.55	7.55	7.55	31.57	31.57	31.58	59.5	60.5	59.3	4.10	4.18	4.09	2.11	1.73	2.04	4	4.00
	3:16		Middle	2.0	25.07	25.07		7.55	7.55		31.58	31.58		57.5	59.5		3.97	4.11		2.02	2.30		4	

Water Monitoring Result at WSD20 - Kennedy Town
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
28/4/2011	12:29	Cloudy	Middle	1.5	24.40	24.40	24.45	7.92	7.92	7.93	31.28	31.28	31.25	94.6	93.0	94.3	6.60	6.49	6.57	3.68	3.04	3.17	6	7.00
	12:32		Middle	1.5	24.50	24.50		7.93	7.93		31.22	31.22		96.0	93.5		6.69	6.51		2.94	3.00		8	
30/4/2011	14:20	Cloudy	Middle	1.5	24.60	24.60	24.60	7.97	7.97	7.97	31.58	31.58	31.58	85.7	86.9	84.1	5.95	6.08	5.85	4.06	4.33	4.34	7	7.50
	14:21		Middle	1.5	24.60	24.60		7.97	7.97		31.58	31.58		81.6	82.1		5.66	5.69		4.58	4.39		8	
3/5/2011	21:32	Cloudy	Middle	2.0	24.40	24.40	24.40	7.91	7.91	7.91	30.86	30.86	30.86	77.3	79.9	78.4	5.56	5.59	5.52	4.33	4.06	4.19	7	7.50
	21:33		Middle	2.0	24.40	24.40		7.91	7.91		30.86	30.86		78.5	78.0		5.49	5.45		4.06	4.30		8	
5/5/2011	17:16	Cloudy	Middle	1.5	24.10	24.10	24.10	7.96	7.96	7.96	31.72	31.72	31.72	83.7	81.3	82.5	5.87	5.69	5.78	6.23	6.03	6.15	11	13.00
	17:17		Middle	1.5	24.10	24.10		7.96	7.96		31.72	31.72		80.0	84.8		5.60	5.94		6.32	6.02		15	
7/5/2011	18:50	Cloudy	Middle	1.5	27.10	27.10	27.10	7.82	7.82	7.82	31.25	31.25	31.23	90.9	91.0	90.1	6.25	6.26	6.16	9.41	9.19	9.29	15	15.00
	18:51		Middle	1.5	27.10	27.10		7.82	7.82		31.21	31.22		88.3	90.0		6.05	6.09		9.51	9.03		15	
10/5/2011	22:00	Cloudy	Middle	1.5	26.00	26.00	26.10	7.88	7.88	7.87	30.67	30.67	30.65	80.0	83.2	80.5	5.43	5.75	5.50	8.37	8.88	8.43	16	15.50
	22:01		Middle	1.5	26.20	26.20		7.86	7.86		30.62	30.62		80.0	78.7		5.49	5.34		8.21	8.24		15	
12/5/2011	14:25	Fine	Middle	2.0	26.98	26.98	27.00	7.40	7.40	7.39	28.14	28.14	28.04	114.5	114.3	114.2	7.72	7.70	7.70	3.12	3.14	3.09	5	4.50
	14:28		Middle	2.0	27.02	27.02		7.37	7.37		27.94	27.94		114.0	114.0		7.68	7.68		3.05	3.05		4	
14/5/2011	15:19	Cloudy	Middle	2.0	25.61	25.61	25.62	7.52	7.51	7.51	29.67	29.67	29.67	87.7	84.6	86.7	6.06	5.84	5.99	3.17	2.74	2.86	6	6.50
	15:20		Middle	2.0	25.62	25.62		7.51	7.51		29.67	29.67		87.2	87.2		6.02	6.02		2.68	2.86		7	
16/5/2011	15:04	Rainy	Middle	1.0	25.00	25.00	25.05	7.98	7.98	7.96	30.78	30.78	30.64	76.3	75.8	76.0	5.29	5.25	5.27	5.82	5.56	5.58	9	10.00
	15:07		Middle	1.0	25.10	25.10		7.94	7.94		30.50	30.50		77.0	75.0		5.34	5.19		5.48	5.45		11	
18/5/2011	21:15	Cloudy	Middle	1.5	24.99	24.98	24.98	7.47	7.47	7.47	28.87	28.87	28.87	59.1	60.5	60.5	4.14	4.24	4.24	5.85	6.30	6.20	8	8.00
	21:16		Middle	1.5	24.98	24.98		7.47	7.47		28.87	28.87		61.2	61.0		4.29	4.28		6.23	6.42		8	
20/5/2011	20:32	Cloudy	Middle	2.0	25.94	25.94	25.93	7.32	7.32	7.32	28.47	28.47	28.48	63.1	62.0	62.1	4.37	4.29	4.30	8.00	7.80	7.96	8	9.00
	20:33		Middle	2.0	25.91	25.91		7.32	7.32		28.48	28.48		64.2	59.2		4.44	4.10		8.01	8.03		10	
24/5/2011	21:53	Cloudy	Middle	2.0	25.50	25.50	25.50	7.42	7.42	7.42	28.85	28.85	28.85	62.2	69.6	67.1	4.32	4.84	4.66	5.92	6.32	6.20	9	9.00
	21:54		Middle	2.0	25.49	25.49		7.42	7.42		28.85	28.85		68.3	68.2		4.75	4.74		5.98	6.58		9	
26/5/2011	2:50	Cloudy	Middle	2.0	25.22	25.22	25.22	7.54	7.54	7.54	31.67	31.67	31.67	55.5	55.5	54.9	3.82	3.82	3.77	2.14	1.82	1.88	4	5.00
	2:51		Middle	2.0	25.22	25.22		7.54	7.54		31.67	31.67		54.6	53.8		3.75	3.70		1.81	1.73		6	

Water Monitoring Result at WSD7 - Kowloon South
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
28/4/2011	13:21	Cloudy	Middle	1.5	24.50	24.50	24.65	7.75	7.75	7.75	32.13	32.13	32.09	67.6	64.6	66.8	4.68	4.47	4.62	4.00	3.53	3.63	13	12.00
	13:24		Middle	1.5	24.80	24.80		7.75	7.75		32.05	32.05		68.4	66.4		4.73	4.58		3.59	3.40		11	
30/4/2011	19:28	Cloudy	Middle	2.0	24.10	24.10	24.10	7.84	7.84	7.84	32.44	32.44	32.44	75.8	74.5	75.0	5.24	5.21	5.21	5.68	6.03	5.56	12	11.00
	19:29		Middle	2.0	24.10	24.10		7.84	7.84		32.44	32.44		73.6	75.9		5.10	5.29		5.29	5.24		10	
3/5/2011	17:39	Cloudy	Middle	2.5	25.50	25.50	25.50	7.89	7.89	7.89	31.12	31.12	31.12	88.3	88.9	88.0	6.06	6.07	6.03	3.69	3.73	3.57	7	8.00
	17:40		Middle	2.5	25.50	25.50		7.89	7.89		31.12	31.12		89.2	85.7		6.10	5.88		3.43	3.41		9	
5/5/2011	22:08	Cloudy	Middle	2.0	24.00	24.10	24.05	7.83	7.83	7.83	32.14	32.14	32.14	81.2	84.7	82.9	5.68	5.96	5.83	4.38	4.66	4.56	8	7.50
	22:09		Middle	2.0	24.00	24.10		7.83	7.83		32.14	32.14		84.2	81.4		5.96	5.70		4.68	4.50		7	
7/5/2011	23:14	Cloudy	Middle	2.0	25.40	25.40	25.40	7.73	7.73	7.73	31.43	31.43	31.43	74.8	75.5	74.2	5.13	5.18	5.09	2.63	2.29	2.36	6	5.50
	23:15		Middle	2.0	25.40	25.40		7.73	7.73		31.43	31.43		72.1	74.4		4.94	5.10		2.11	2.40		5	
10/5/2011	2:38	Cloudy	Middle	2.0	26.00	26.00	26.05	7.83	7.83	7.83	30.41	30.41	30.41	76.4	77.3	75.3	4.96	5.02	4.89	2.51	1.99	2.18	4	5.00
	2:39		Middle	2.0	26.10	26.10		7.83	7.83		30.41	30.41		73.9	73.4		4.80	4.76		2.12	2.10		6	
12/5/2011	13:30	Fine	Middle	2.0	27.01	27.01	27.03	7.46	7.46	7.45	28.36	28.36	28.24	111.4	110.1	110.1	7.54	7.45	7.43	2.20	2.18	2.27	3	3.50
	13:32		Middle	2.0	27.05	27.05		7.44	7.44		28.11	28.11		109.2	109.8		7.35	7.39		2.59	2.12		4	
14/5/2011	13:39	Cloudy	Middle	2.0	25.87	25.87	25.88	7.20	7.20	7.19	29.39	29.39	29.39	82.5	78.6	81.6	5.68	5.42	5.62	2.87	2.96	2.89	6	5.00
	13:40		Middle	2.0	25.88	25.88		7.18	7.18		29.39	29.39		83.8	81.5		5.77	5.62		2.87	2.85		4	
16/5/2011	16:05	Rainy	Middle	1.5	25.00	25.00	25.05	7.86	7.86	7.86	30.93	30.93	30.93	74.1	73.1	73.8	5.13	5.06	5.11	4.82	4.77	4.62	7	6.00
	16:08		Middle	1.5	25.10	25.10		7.86	7.86		30.92	30.92		74.3	73.6		5.14	5.09		4.37	4.53		5	
18/5/2011	17:40	Cloudy	Middle	1.5	24.95	24.95	24.95	7.36	7.36	7.34	30.24	30.24	30.24	80.6	79.9	80.4	5.61	5.56	5.60	6.52	6.29	6.58	10	10.50
	17:41		Middle	1.5	24.95	24.95		7.32	7.32		30.24	30.24		80.0	81.0		5.57	5.64		7.23	6.27		11	
20/5/2011	19:35	Cloudy	Middle	2.0	25.97	25.97	25.98	7.36	7.36	7.36	29.47	29.46	29.46	82.5	83.4	82.9	5.67	5.73	5.70	7.70	7.44	7.62	11	11.50
	19:36		Middle	2.0	25.98	25.98		7.35	7.35		29.46	29.46		83.0	82.6		5.71	5.67		8.03	7.31		12	
24/5/2011	21:20	Cloudy	Middle	2.0	25.34	25.34	25.34	7.25	7.25	7.25	29.36	29.36	29.36	72.8	71.0	71.8	5.06	4.93	4.99	3.29	3.57	3.58	9	8.00
	21:21		Middle	2.0	25.34	25.34		7.24	7.24		29.36	29.36		71.9	71.5		5.00	4.97		3.73	3.73		7	
26/5/2011	5:19	Cloudy	Middle	2.0	24.41	24.41	24.33	7.57	7.57	7.57	31.78	31.78	31.79	75.6	72.8	73.4	5.27	5.08	5.12	2.34	2.31	2.38	4	4.00
	5:20		Middle	2.0	24.25	24.25		7.57	7.57		31.78	31.80		72.7	72.6		5.07	5.07		2.56	2.30		4	

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
28/4/2011	22:51	Cloudy	Middle	2.0	23.60	23.60	23.60	7.85	7.85	7.85	32.64	32.64	32.64	73.2	72.3	73.4	5.14	5.03	5.14	2.19	1.97	2.05	5	5.50
	22:52		Middle	2.0	23.60	23.60		7.85	7.85		32.64	32.64		73.3	74.7		5.15	5.24		1.82	2.20		6	
30/4/2011	9:15	Cloudy, Foggy	Middle	2.5	23.30	23.30	23.30	7.91	7.90	7.90	33.35	33.35	33.35	83.8	83.6	83.7	5.89	5.88	5.88	3.09	3.02	3.12	5	5.00
	9:16		Middle	2.5	23.30	23.30		7.90	7.90		33.35	33.35		83.6	83.6		5.88	5.88		3.29	3.09		5	
3/5/2011	13:36	Fine	Middle	2.5	25.86	25.86	25.87	6.52	6.52	6.51	32.14	32.14	32.26	99.9	97.8	97.6	6.83	6.68	6.66	2.87	2.82	2.86	7	6.00
	13:38		Middle	2.5	25.88	25.88		6.50	6.50		31.88	32.88		96.6	96.0		6.59	6.55		2.92	2.81		5	
5/5/2011	10:50	Cloudy	Middle	2.5	23.00	23.00	23.00	7.92	7.92	7.92	33.37	33.37	33.37	76.7	77.8	76.4	5.43	5.51	5.41	4.64	4.32	4.37	5	5.50
	10:52		Middle	2.5	23.00	23.00		7.92	7.92		33.37	33.37		76.3	74.9		5.41	5.30		4.34	4.17		6	
7/5/2011	11:44	Sunny	Middle	3.0	24.70	24.70	24.70	7.90	7.90	7.90	32.86	32.86	32.86	76.0	76.0	76.8	5.23	5.23	5.28	4.58	4.73	4.40	6	7.00
	11:45		Middle	3.0	24.70	24.70		7.90	7.90		32.86	32.86		75.6	79.5		5.19	5.46		4.20	4.09		8	
9/5/2011	13:20	Sunny	Middle	2.0	25.60	25.60	25.65	7.88	7.88	7.88	32.02	32.02	32.02	82.8	82.9	81.8	5.63	5.64	5.57	1.98	1.94	1.92	4	3.50
	13:21		Middle	2.0	25.70	25.70		7.88	7.88		32.02	32.02		80.1	81.5		5.46	5.56		1.96	1.79		3	
12/5/2011	17:25	Cloudy	Middle	2.0	27.20	27.20	27.20	7.93	7.93	7.93	31.36	31.36	31.36	85.9	84.0	84.5	5.68	5.56	5.59	2.16	2.01	2.22	3	2.50
	17:26		Middle	2.0	27.20	27.20		7.93	7.93		31.36	31.36		84.7	83.2		5.60	5.50		2.07	2.64		2	
14/5/2011	7:27	Rainy	Middle	3.0	24.10	24.10	24.15	7.92	7.92	7.92	32.44	32.44	32.44	79.2	78.8	78.9	5.53	5.50	5.51	2.33	2.40	2.32	5	6.00
	7:33		Middle	3.0	24.20	24.20		7.91	7.91		32.44	32.44		79.0	78.4		5.51	5.48		2.26	2.30		7	
16/5/2011	9:57	Cloudy	Middle	2.5	25.12	25.12	25.20	7.34	7.34	7.35	31.91	31.91	31.88	71.9	75.4	72.8	4.94	5.18	5.00	2.34	2.55	2.36	5	4.50
	9:58		Middle	2.5	25.27	25.27		7.35	7.35		31.84	31.84		71.6	72.2		4.91	4.96		2.18	2.37		4	
18/5/2011	13:55	Fine	Middle	2.0	25.40	25.40	25.50	7.92	7.92	7.92	32.19	32.19	32.14	75.7	73.6	74.5	5.13	5.00	5.05	3.46	3.24	3.30	3	3.00
	14:00		Middle	2.0	25.60	25.60		7.91	7.91		32.08	32.09		75.4	73.3		5.11	4.97		3.18	3.30		3	
20/5/2011	11:23	Fine	Middle	3.0	25.80	25.80	25.90	8.01	8.01	8.00	32.76	32.76	32.75	81.3	82.6	82.4	5.48	5.56	5.55	2.66	2.71	2.65	6	5.00
	11:28		Middle	3.0	26.00	26.00		7.99	7.99		32.73	32.73		83.3	82.5		5.60	5.56		2.74	2.48		4	
23/5/2011	15:32	Cloudy	Middle	2.0	25.70	25.70	25.70	7.92	7.92	7.92	31.03	31.03	31.05	71.9	70.1	71.3	4.92	4.80	4.88	1.62	1.30	1.45	7	6.50
	15:37		Middle	2.0	25.70	25.70		7.91	7.91		31.06	31.06		72.8	70.2		4.99	4.80		1.52	1.37		6	
25/5/2011	17:02	Cloudy	Middle	2.0	25.16	25.16	25.17	7.51	7.51	7.51	32.03	32.03	32.03	57.8	56.6	56.8	3.97	3.89	3.91	1.67	1.79	1.69	3	3.00
	17:03		Middle	2.0	25.17	25.17		7.51	7.51		32.03	32.03		56.0	56.9		3.86	3.91		1.60	1.71		3	

Water Monitoring Result at WSD10 - Cha Kwo Ling
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
28/4/2011	0:00	Cloudy	Middle	2.0	23.10	23.10	23.10	7.96	7.96	7.96	33.14	33.14	33.14	83.8	80.3	82.8	5.92	5.69	5.84	2.92	3.04	3.02	8	8.00
	0:01		Middle	2.0	23.10	23.10		7.96	7.96		33.14	33.14		84.6	82.4		5.94	5.82		3.21	2.89		8	
30/4/2011	8:05	Cloudy, Foggy	Middle	2.5	23.40	23.40	23.40	7.76	7.76	7.76	33.12	33.12	33.12	81.2	80.2	81.1	5.72	5.62	5.71	2.64	2.98	2.91	6	5.50
	8:06		Middle	2.5	23.40	23.40		7.76	7.76		33.12	33.12		81.5	81.5		5.75	5.75		3.05	2.97		5	
3/5/2011	13:00	Fine	Middle	2.0	24.69	24.69	24.71	6.93	6.93	6.92	32.39	32.39	32.39	101.9	102.4	102.0	7.02	7.06	7.03	5.94	5.62	5.76	7	6.50
	13:02		Middle	2.0	24.73	24.73		6.91	6.91		32.39	32.39		101.9	101.9		7.01	7.02		5.79	5.67		6	
5/5/2011	10:02	Cloudy	Middle	2.5	23.30	23.30	23.30	7.64	7.64	7.68	33.14	33.14	33.17	77.9	79.7	78.7	5.47	5.59	5.52	3.62	3.91	3.77	7	7.50
	10:03		Middle	2.5	23.30	23.30		7.72	7.72		33.20	33.20		77.6	79.5		5.44	5.58		3.68	3.86		8	
7/5/2011	10:25	Sunny	Middle	2.5	25.00	25.00	25.00	7.84	7.84	7.84	32.88	32.88	32.88	74.0	73.0	74.1	5.06	4.99	5.06	6.68	6.61	6.40	9	9.00
	10:26		Middle	2.5	25.00	25.00		7.84	7.84		32.88	32.88		74.9	74.3		5.12	5.07		6.15	6.15		9	
9/5/2011	12:13	Sunny	Middle	2.0	26.80	26.80	26.80	7.83	7.83	7.83	32.81	32.81	32.81	83.0	86.1	83.7	5.48	5.68	5.54	3.55	4.12	3.93	6	5.50
	12:14		Middle	2.0	26.80	26.80		7.83	7.83		32.81	32.81		83.6	82.0		5.52	5.48		4.00	4.03		5	
12/5/2011	16:46	Cloudy	Middle	2.0	29.50	29.50	29.45	7.95	7.95	7.96	30.57	30.57	30.44	85.1	80.7	84.3	5.48	5.19	5.44	1.52	1.48	1.43	2	3.00
	16:47		Middle	2.0	29.40	29.40		7.97	7.97		30.31	30.31		85.7	85.8		5.52	5.58		1.49	1.24		4	
14/5/2011	7:00	Rainy	Middle	3.0	24.00	24.00	24.05	7.90	7.90	7.90	32.47	32.47	32.45	77.9	77.2	77.8	5.44	5.39	5.43	3.10	2.84	2.93	4	5.00
	7:05		Middle	3.0	24.10	24.10		7.90	7.90		32.43	32.43		78.5	77.5		5.48	5.41		3.02	2.77		6	
16/5/2011	8:10	Cloudy	Middle	2.5	24.66	24.66	24.66	7.49	7.49	7.49	31.47	31.47	31.47	73.9	68.8	71.7	5.14	4.78	4.99	5.04	5.05	5.01	12	11.00
	8:11		Middle	2.5	24.66	24.66		7.49	7.49		31.47	31.47		71.8	72.3		4.99	5.03		5.00	4.96		10	
18/5/2011	13:10	Fine	Middle	2.5	25.20	25.20	25.28	8.01	8.01	8.01	32.74	32.74	32.72	73.9	74.9	73.8	5.03	5.09	5.02	3.62	3.39	3.49	6	5.00
	13:14		Middle	2.5	25.30	25.40		8.01	8.01		32.69	32.69		74.4	72.0		5.06	4.90		3.51	3.44		4	
20/5/2011	12:05	Fine	Middle	2.5	26.10	26.10	26.20	8.04	8.04	8.03	32.80	32.80	32.79	87.6	86.7	87.6	5.87	5.81	5.87	3.14	3.09	3.06	4	4.00
	12:10		Middle	2.5	26.30	26.30		8.01	8.01		32.78	32.78		88.5	87.7		5.92	5.87		2.95	3.06		4	
23/5/2011	16:07	Cloudy	Middle	2.0	25.70	25.70	25.70	8.02	8.02	8.00	30.95	30.95	30.86	76.6	77.3	78.4	5.25	5.30	5.37	2.71	2.47	2.49	8	8.00
	16:11		Middle	2.0	25.70	25.70		7.97	7.97		30.77	30.77		80.4	79.1		5.51	5.42		2.36	2.41		8	
25/5/2011	15:45	Cloudy	Middle	2.5	25.08	25.08	25.09	7.37	7.37	7.39	32.00	32.00	32.00	66.8	66.8	66.6	4.60	4.60	4.59	3.77	3.47	3.71	6	5.50
	15:46		Middle	2.5	25.09	25.09		7.41	7.41		31.99	31.99		66.4	66.4		4.57	4.57		3.94	3.67		5	

Water Monitoring Result at WSD15 - Sai Wan Ho
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
28/4/2011	18:58	Cloudy	Middle	3	23.10	23.10	23.10	7.95	7.95	7.95	33.02	33.02	33.02	79.7	77.2	79.6	5.64	5.46	5.67	3.39	2.91	2.77	6	5.00
	19:00		Middle	3	23.10	23.10		7.95	7.95		33.02	33.02		76.4	85.1		5.56	6.02		2.46	2.32		4	
30/4/2011	10:50	Cloudy, Foggy	Middle	3	23.80	23.80	23.80	7.87	7.87	7.87	33.20	33.20	33.20	75.6	76.3	75.0	5.27	5.33	5.26	5.12	4.54	4.96	14	10.50
	10:51		Middle	3	23.80	23.80		7.87	7.87		33.20	33.20		72.8	75.1		5.16	5.28		5.44	4.75		7	
3/5/2011	12:35	Fine	Middle	2	24.63	24.63	24.64	6.60	6.60	6.60	32.38	32.38	32.39	96.2	94.7	95.0	6.64	6.54	6.55	4.97	5.05	4.96	7	8.00
	12:36		Middle	2	24.65	24.65		6.59	6.59		32.40	32.40		94.0	94.9		6.48	6.54		4.90	4.92		9	
5/5/2011	15:55	Cloudy	Middle	2	23.70	23.70	23.70	7.88	7.88	7.88	32.86	32.86	32.86	65.5	69.3	66.7	4.58	4.85	4.67	3.88	3.68	3.95	7	8.00
	15:56		Middle	2	23.70	23.70		7.88	7.88		32.86	32.86		67.5	64.6		4.72	4.53		4.08	4.16		9	
7/5/2011	15:07	Sunny	Middle	2	25.40	25.40	25.55	7.86	7.86	7.86	32.70	32.70	32.70	75.5	76.8	75.6	5.14	5.21	5.14	3.31	3.07	3.16	11	11.00
	15:08		Middle	2	25.70	25.70		7.86	7.86		32.70	32.70		75.3	74.9		5.11	5.08		3.26	3.01		11	
9/5/2011	17:25	Sunny	Middle	2	25.50	25.50	25.55	7.86	7.86	7.86	32.07	32.07	32.08	75.6	76.7	76.0	5.15	5.14	5.15	2.49	2.34	2.34	2	2.50
	17:26		Middle	2	25.60	25.60		7.86	7.86		32.08	32.08		77.3	74.2		5.26	5.06		2.40	2.12		3	
12/5/2011	20:51	Cloudy	Middle	3	26.90	26.90	27.00	7.94	7.94	7.94	31.11	31.11	31.11	84.0	81.5	83.1	5.61	5.44	5.55	11.80	10.30	**10.75**	5	5.50
	20:52		Middle	3	27.10	27.10		7.94	7.94		31.11	31.11		82.3	84.6		5.49	5.64		10.60	10.30		6	
14/5/2011	11:55	Rainy	Middle	3	24.40	24.40	24.40	7.98	7.98	7.97	31.93	31.93	31.93	79.6	78.5	79.2	5.54	5.47	5.52	2.33	2.36	2.31	6	6.00
	11:58		Middle	3	24.40	24.40		7.96	7.96		31.93	31.93		79.9	78.9		5.57	5.50		2.11	2.42		6	
16/5/2011	13:55	Cloudy	Middle	3	25.66	25.67	25.76	7.14	7.14	7.14	31.30	31.30	31.34	64.9	66.4	66.1	4.43	4.53	4.51	3.59	3.63	3.55	6	5.50
	13:56		Middle	3	25.86	25.86		7.14	7.14		31.37	31.37		67.2	66.0		4.58	4.50		3.41	3.56		5	
18/5/2011	12:13	Fine	Middle	3	25.30	25.30	25.40	7.99	7.99	7.99	32.69	32.69	32.69	84.4	83.1	83.8	5.74	5.65	5.70	3.53	2.97	3.48	12	12.00
	12:17		Middle	3	25.50	25.50		7.98	7.98		32.69	32.69		84.6	82.9		5.76	5.64		3.74	3.66		12	
20/5/2011	13:20	Fine	Middle	3	25.60	25.60	25.70	8.02	8.02	8.01	32.76	32.76	32.74	83.1	81.7	82.6	5.62	5.52	5.58	3.83	3.13	3.32	8	6.00
	13:24		Middle	3	25.80	25.80		7.99	7.99		32.72	32.72		83.7	81.9		5.66	5.53		3.09	3.24		4	
23/5/2011	13:01	Cloudy	Middle	3	26.70	26.70	26.80	7.88	7.88	7.89	30.33	30.33	30.58	82.3	81.6	81.8	5.53	5.49	5.50	1.92	1.97	1.88	2	2.50
	13:05		Middle	3	26.90	26.90		7.90	7.90		30.83	30.83		82.4	81.0		5.54	5.44		1.83	1.78		3	
25/5/2011	19:25	Cloudy	Middle	3	25.00	25.00	24.95	7.70	7.70	7.70	31.95	31.95	31.95	78.6	79.7	79.0	5.42	5.52	5.46	1.29	1.35	1.41	3	3.00
	19:26		Middle	3	24.90	24.90		7.70	7.70		31.95	31.95		80.0	77.6		5.52	5.36		1.48	1.50		3	

Water Monitoring Result at WSD17 - Quarry Bay
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
28/4/2011	18:40	Cloudy	Middle	3	23.40	23.40	23.40	7.94	7.94	7.94	33.02	33.02	33.02	78.1	77.9	78.5	5.49	5.48	5.51	3.51	3.71	3.51	9	8.00
	18:42		Middle	3	23.40	23.40		7.94	7.93		33.02	33.02		80.0	77.8		5.60	5.48		3.60	3.23		7	
30/4/2011	10:21	Cloudy, Foggy	Middle	2	23.50	23.50	23.50	7.83	7.83	7.83	32.51	32.51	32.51	70.9	70.9	70.5	4.98	4.98	4.95	5.00	4.71	5.00	6	7.00
	10:22		Middle	2	23.50	23.50		7.83	7.83		32.51	32.51		70.0	70.0		4.92	4.92		5.27	5.03		8	
3/5/2011	12:00	Fine	Middle	2	24.53	24.53	24.54	6.64	6.64	6.63	31.81	31.81	31.82	95.2	95.1	94.6	6.51	6.50	6.48	7.59	7.99	7.91	7	7.50
	12:05		Middle	2	24.55	24.55		6.62	6.62		31.83	31.83		93.9	94.0		6.44	6.45		8.04	8.00		8	
5/5/2011	15:24	Cloudy	Middle	2	24.10	24.10	24.10	7.84	7.84	7.84	32.21	32.21	32.22	71.6	73.1	70.8	5.05	5.07	4.93	4.88	5.27	5.18	9	10.00
	15:25		Middle	2	24.10	24.10		7.84	7.84		32.22	32.22		71.5	67.0		4.93	4.68		5.28	5.27		11	
7/5/2011	14:45	Sunny	Middle	3	25.20	25.20	25.40	7.88	7.88	7.86	32.08	32.08	32.09	74.8	75.7	74.1	5.13	5.10	5.04	5.36	5.23	5.28	9	9.00
	14:46		Middle	3	25.60	25.60		7.83	7.83		32.11	32.08		71.9	73.9		4.89	5.03		5.19	5.32		9	
9/5/2011	16:55	Sunny	Middle	2	25.90	25.90	25.95	7.84	7.84	7.84	32.03	32.03	32.03	77.4	74.6	75.4	5.24	5.03	5.09	3.32	2.96	3.31	5	6.00
	16:56		Middle	2	26.00	26.00		7.83	7.83		32.03	32.03		74.6	74.8		5.03	5.05		3.69	3.27		7	
12/5/2011	19:50	Cloudy	Middle	3	26.70	26.70	26.50	7.98	7.98	7.96	30.78	30.78	30.75	83.2	80.6	80.5	5.63	5.30	5.39	1.72	1.73	1.83	2	3.00
	19:51		Middle	3	26.30	26.30		7.94	7.94		30.72	30.72		77.3	80.9		5.19	5.43		2.10	1.75		4	
14/5/2011	11:20	Rainy	Middle	2	24.10	24.10	24.20	7.99	7.99	7.98	32.08	32.08	32.08	82.3	81.5	81.8	5.74	5.68	5.70	2.47	2.52	2.39	3	4.00
	11:24		Middle	2	24.30	24.30		7.97	7.97		32.07	32.07		82.3	81.2		5.73	5.66		2.24	2.34		5	
16/5/2011	13:19	Cloudy	Middle	2	25.73	25.73	25.78	7.04	7.04	7.04	31.12	31.12	31.11	74.5	73.5	71.7	5.09	5.02	4.90	3.84	3.94	3.77	5	5.50
	13:20		Middle	2	25.82	25.82		7.03	7.03		31.09	31.09		70.8	67.9		4.83	4.64		3.76	3.55		6	
18/5/2011	12:38	Fine	Middle	3	25.60	25.60	25.65	7.89	7.89	7.89	31.33	31.33	31.38	72.6	71.8	72.2	4.95	4.89	4.92	4.28	4.21	4.04	8	8.00
	12:42		Middle	3	25.70	25.70		7.89	7.89		31.42	31.42		72.8	71.5		4.97	4.87		3.65	4.02		8	
20/5/2011	13:55	Fine	Middle	3	26.40	26.40	26.60	7.92	7.92	7.91	31.95	31.95	31.86	72.5	71.5	72.2	4.82	4.73	4.77	4.32	4.08	4.08	9	7.00
	13:59		Middle	3	26.80	26.80		7.90	7.90		31.77	31.77		74.0	70.6		4.87	4.64		4.00	3.91		5	
23/5/2011	13:40	Cloudy	Middle	3	26.30	26.30	26.45	7.95	7.95	7.94	29.91	29.91	29.89	74.4	73.8	73.7	5.05	5.01	4.99	2.56	2.55	2.50	3	3.50
	13:44		Middle	3	26.60	26.60		7.93	7.93		29.87	29.87		74.3	72.2		5.03	4.88		2.43	2.47		4	
25/5/2011	18:55	Cloudy	Middle	3	25.14	25.14	25.12	7.54	7.54	7.54	31.68	31.68	31.74	57.9	57.7	56.3	3.98	3.97	3.87	2.17	2.08	2.16	4	4.50
	18:56		Middle	3	25.10	25.10		7.54	7.54		31.80	31.80		54.2	55.4		3.73	3.81		2.35	2.03		5	

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
28/4/2011	20:26	Cloudy	Middle	2	23.30	23.30	23.30	7.88	7.88	7.88	32.62	32.62	32.62	74.5	71.5	72.9	5.27	5.08	5.18	3.83	3.52	3.82	7	7.50
	20:27		Middle	2	23.30	23.30		7.88	7.89		32.62	32.63		74.3	71.2		5.33	5.04		4.06	3.86		8	
30/4/2011	13:05	Cloudy, Foggy	Middle	2	23.90	23.90	23.90	7.86	7.86	7.85	32.79	32.79	32.78	72.2	72.1	71.6	5.03	5.03	4.99	5.20	4.64	4.72	9	8.00
	13:06		Middle	2	23.90	23.90		7.84	7.84		32.77	32.77		71.5	70.5		4.98	4.92		4.69	4.36		7	
3/5/2011	11:30	Fine	Middle	2	24.61	24.61	24.62	6.89	6.89	6.89	31.84	31.84	31.81	95.1	93.3	93.0	6.59	6.46	6.43	12.60	11.50	**11.53**	10	10.50
	11:35		Middle	2	24.62	24.62		6.88	6.88		31.78	31.78		92.6	90.9		6.40	6.28		11.10	10.90		11	
5/5/2011	14:52	Cloudy	Middle	2	24.00	24.00	24.05	7.88	7.88	7.89	32.14	32.14	32.15	51.3	60.0	58.8	3.76	4.22	4.17	5.48	5.32	5.44	12	12.00
	14:53		Middle	2	24.10	24.10		7.89	7.89		32.15	32.15		64.0	59.9		4.49	4.22		5.58	5.38		12	
7/5/2011	14:17	Sunny	Middle	3	24.20	24.20	24.20	7.94	7.94	7.91	31.96	31.96	31.98	67.4	68.0	67.2	4.71	4.75	4.70	4.68	4.79	4.55	8	9.00
	14:21		Middle	3	24.20	24.20		7.88	7.88		31.99	31.99		66.9	66.6		4.67	4.65		4.38	4.36		10	
9/5/2011	16:25	Sunny	Middle	2	25.80	25.80	25.80	7.96	7.96	7.96	31.43	31.43	31.43	79.4	78.5	78.8	5.40	5.33	5.35	5.09	4.53	4.62	10	10.00
	16:30		Middle	2	25.80	25.80		7.96	7.96		31.42	31.42		78.7	78.6		5.34	5.33		4.78	4.09		10	
12/5/2011	20:15	Cloudy	Middle	2	26.80	26.80	26.80	8.00	8.00	8.00	29.95	29.95	29.95	83.9	85.0	81.6	5.68	5.74	5.52	3.01	2.54	3.12	8	8.00
	20:16		Middle	2	26.80	26.80		8.00	8.00		29.95	29.95		80.4	77.2		5.41	5.26		3.57	3.36		8	
14/5/2011	12:28	Rainy	Middle	2	24.50	24.50	24.45	8.00	8.00	7.99	31.69	31.69	31.70	71.7	71.2	70.3	4.99	4.97	4.90	4.37	4.18	4.23	8	7.50
	12:31		Middle	2	24.40	24.40		7.98	7.98		31.70	31.70		69.0	69.4		4.81	4.84		4.12	4.25		7	
16/5/2011	9:00	Cloudy	Middle	2	24.40	24.40	24.40	8.03	8.03	8.03	32.40	32.40	32.40	76.2	75.6	75.4	5.29	5.26	5.24	4.99	5.12	5.30	12	11.00
	9:04		Middle	2	24.40	24.40		8.02	8.02		32.39	32.39		75.0	74.7		5.21	5.18		5.47	5.60		10	
18/5/2011	11:35	Fine	Middle	2	24.70	24.70	24.70	7.95	7.95	7.95	31.98	31.98	31.97	70.0	69.9	69.4	4.85	4.84	4.81	5.02	4.93	4.87	8	7.50
	11:38		Middle	2	24.70	24.70		7.94	7.94		31.95	31.95		68.8	68.9		4.77	4.78		4.70	4.81		7	
20/5/2011	16:40	Fine	Middle	2	25.60	25.60	25.60	8.03	8.03	8.00	30.62	30.62	30.63	87.8	80.9	82.2	5.62	5.56	5.55	5.17	4.23	4.53	8	8.00
	16:43		Middle	2	25.60	25.60		7.97	7.97		30.64	30.64		80.2	79.9		5.51	5.49		4.48	4.25		8	
23/5/2011	18:30	Cloudy	Middle	2	25.60	25.60	25.60	7.99	7.99	7.99	29.88	29.88	29.88	72.6	72.5	72.4	5.01	5.00	5.00	4.18	3.76	3.87	6	7.00
	18:33		Middle	2	25.60	25.60		7.99	7.99		29.88	29.88		72.2	72.3		4.98	4.99		3.71	3.82		8	
25/5/2011	21:30	Cloudy	Middle	2	25.07	25.08	25.16	7.53	7.53	7.53	31.61	31.60	31.58	64.4	65.4	64.6	4.43	4.50	4.44	2.61	3.06	2.82	10	10.50
	21:31		Middle	2	25.24	25.24		7.53	7.53		31.55	31.55		64.7	63.8		4.45	4.38		2.80	2.80		11	

Water Monitoring Result at C8 - City Garden
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
28/4/2011	21:01	Cloudy	Middle	2	23.40	23.40	23.40	7.85	7.85	7.85	32.91	32.91	32.91	70.6	67.2	68.6	4.97	4.73	4.83	6.29	6.87	6.71	13	**17.50**
	21:02		Middle	2	23.40	23.40		7.85	7.85		32.91	32.91		66.1	70.3		4.64	4.98		6.64	7.05		22	
30/4/2011	12:45	Cloudy, Foggy	Middle	2	23.80	23.90	23.88	7.99	7.99	7.99	32.72	32.72	32.72	72.1	71.8	71.3	4.85	4.84	4.80	5.72	5.76	5.56	12	11.00
	12:46		Middle	2	23.90	23.90		7.99	7.99		32.72	32.72		70.7	70.4		4.72	4.79		5.31	5.46		10	
3/5/2011	10:05	Fine	Middle	2	24.51	24.51	24.51	6.82	6.82	6.82	31.55	31.55	31.54	90.7	90.5	90.3	6.32	6.31	6.30	10.50	9.95	10.02	9	10.00
	10:07		Middle	2	24.50	24.50		6.81	6.81		31.52	31.52		90.8	89.2		6.33	6.22		10.30	9.34		11	
5/5/2011	14:10	Cloudy	Middle	2	24.10	24.10	24.10	7.79	7.79	7.79	31.74	31.74	31.74	67.6	69.3	67.0	4.73	4.89	4.70	9.86	9.04	9.09	13	12.00
	14:11		Middle	2	24.10	24.10		7.79	7.79		31.74	31.74		66.4	64.7		4.65	4.53		9.06	8.41		11	
7/5/2011	13:52	Sunny	Middle	2	25.80	25.80	25.80	7.81	7.81	7.81	32.00	32.00	32.00	73.5	73.1	74.1	4.98	4.95	5.02	6.84	6.13	6.29	7	8.00
	13:53		Middle	2	25.80	25.80		7.81	7.81		32.00	32.00		73.9	75.8		5.00	5.13		6.43	5.74		9	
9/5/2011	16:00	Sunny	Middle	2	25.90	25.90	25.95	7.67	7.67	7.67	30.01	30.01	30.01	71.8	70.0	71.0	4.92	4.72	4.84	8.37	8.12	8.29	5	5.00
	16:01		Middle	2	25.90	26.10		7.66	7.66		30.00	30.00		70.3	71.8		4.81	4.91		8.89	7.79		5	
12/5/2011	19:31	Cloudy	Middle	2	26.70	26.70	26.68	7.95	7.95	7.95	30.11	30.11	30.14	85.0	80.7	84.4	5.65	5.40	5.58	4.43	4.54	4.46	13	12.00
	19:32		Middle	2	26.70	26.60		7.95	7.95		30.16	30.16		84.6	87.2		5.46	5.80		4.81	4.05		11	
14/5/2011	10:02	Rainy	Middle	2	24.50	24.50	24.50	7.90	7.90	7.91	31.32	31.32	31.33	75.7	76.3	76.1	5.28	5.32	5.30	3.42	3.11	3.36	6	6.00
	10:05		Middle	2	24.50	24.50		7.91	7.91		31.33	31.33		76.9	75.3		5.36	5.23		3.56	3.35		6	
16/5/2011	12:48	Cloudy	Middle	2	26.99	26.99	26.51	6.88	6.88	6.88	31.00	31.00	31.00	76.7	78.7	76.7	5.32	5.36	5.25	6.97	7.50	7.54	9	9.00
	12:49		Middle	2	26.02	26.02		6.88	6.88		31.00	31.00		75.3	75.9		5.13	5.17		7.71	7.96		9	
18/5/2011	11:17	Fine	Middle	2	24.70	24.70	24.75	7.90	7.90	7.91	32.06	32.06	32.07	73.1	71.8	74.0	5.06	4.97	5.12	5.49	5.32	5.14	10	10.50
	11:20		Middle	2	24.80	24.80		7.91	7.91		32.07	32.07		76.5	74.7		5.28	5.16		4.72	5.04		11	
20/5/2011	16:15	Fine	Middle	2	26.10	26.10	26.20	7.91	7.91	7.91	30.52	30.52	30.50	80.5	79.1	80.4	5.47	5.37	5.46	5.59	6.62	5.54	9	9.00
	16:18		Middle	2	26.30	26.30		7.91	7.91		30.48	30.48		81.4	80.6		5.53	5.47		5.32	4.63		9	
23/5/2011	18:12	Cloudy	Middle	2	25.30	25.30	25.35	7.87	7.87	7.87	29.70	29.70	29.72	77.3	74.5	76.6	5.42	5.18	5.37	4.51	4.20	4.16	5	5.50
	18:16		Middle	2	25.40	25.40		7.87	7.87		29.74	29.74		77.5	77.1		5.44	5.42		3.74	4.17		6	
25/5/2011	18:40	Cloudy	Middle	2	25.07	25.07	25.06	7.50	7.50	7.50	31.68	31.68	31.68	66.1	66.7	66.3	4.55	4.60	4.57	3.38	3.70	3.52	6	5.00
	18:41		Middle	2	25.05	25.05		7.49	7.49		31.68	31.68		66.1	66.1		4.56	4.56		3.61	3.40		4	

Water Monitoring Result at C6 - Excelsior Hotel
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
28/4/2011	19:42	Cloudy	Middle	2	23.90	23.90	23.90	7.61	7.61	7.61	31.58	31.58	31.58	62.7	62.3	60.8	4.41	4.38	4.27	1.22	1.32	1.29	3	3.50
	19:44		Middle	2	23.90	23.90		7.61	7.61		31.58	31.58		57.3	60.8		4.04	4.23		1.28	1.34		4	
30/4/2011	9:50	Cloudy, Foggy	Middle	2	23.60	23.60	23.60	7.64	7.64	7.64	31.56	31.56	31.56	59.0	59.5	59.4	4.16	4.20	4.19	3.11	3.01	2.95	5	6.00
	9:51		Middle	2	23.60	23.60		7.64	7.64		31.56	31.56		59.7	59.3		4.21	4.18		2.71	2.96		7	
3/5/2011	9:30	Fine	Middle	2	24.40	24.40	24.41	6.67	6.67	6.67	30.96	30.96	30.96	66.8	65.5	65.3	4.68	4.59	4.57	5.28	4.93	4.92	4	3.50
	9:32		Middle	2	24.42	24.42		6.66	6.66		30.96	30.96		64.5	64.3		4.52	4.50		4.72	4.74		3	
5/5/2011	13:35	Cloudy	Middle	1	24.50	24.50	24.50	7.64	7.64	7.64	31.27	31.27	31.27	62.1	64.0	61.9	4.33	4.43	4.30	1.25	1.35	1.29	3	3.00
	13:36		Middle	1	24.50	24.50		7.64	7.64		31.27	31.27		60.6	60.8		4.22	4.23		1.27	1.28		<2	
7/5/2011	13:30	Sunny	Middle	2	26.60	26.60	26.60	7.63	7.63	7.63	31.55	31.55	31.55	49.9	50.9	50.2	3.65	3.66	3.56	4.54	4.77	4.55	6	5.00
	13:31		Middle	2	26.60	26.60		7.63	7.63		31.55	31.55		50.1	50.0		3.60	3.34		4.47	4.41		4	
9/5/2011	15:35	Sunny	Middle	2	26.60	26.50	26.58	7.66	7.66	7.66	31.17	31.17	31.17	61.2	63.8	62.5	4.12	4.30	4.20	1.99	2.19	2.07	3	2.50
	15:36		Middle	2	26.60	26.60		7.66	7.66		31.17	31.17		63.4	61.6		4.24	4.14		2.08	2.02		2	
12/5/2011	19:00	Cloudy	Middle	2	27.30	27.40	27.38	7.67	7.67	7.67	29.95	29.95	29.95	66.1	69.1	66.6	4.41	6.61	4.94	1.59	1.60	1.60	2	3.00
	19:01		Middle	2	27.40	27.40		7.67	7.67		29.95	29.95		67.3	63.7		4.49	4.25		1.47	1.73		4	
14/5/2011	9:40	Rainy	Middle	2	25.40	25.40	25.40	7.61	7.61	7.60	28.64	28.64	28.64	44.2	45.0	45.3	3.08	3.14	3.16	2.30	2.73	2.45	3	3.50
	9:43		Middle	2	25.40	25.40		7.59	7.59		28.64	28.64		46.3	45.8		3.23	3.20		2.40	2.38		4	
16/5/2011	12:10	Cloudy	Middle	2	26.07	26.07	26.20	6.74	6.71	6.72	30.29	30.29	30.42	67.7	64.9	66.3	4.56	4.38	4.47	1.07	0.79	0.91	3	2.50
	12:11		Middle	2	26.32	26.32		6.71	6.71		30.54	30.54		68.1	64.6		4.59	4.35		0.99	0.79		2	

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
28/4/2011	19:19	Cloudy	Middle	2.0	23.60	23.60	23.60	7.81	7.81	7.81	32.40	32.40	32.40	72.6	71.4	73.3	5.11	5.02	5.14	2.45	2.36	2.41	14	15.00
	19:20		Middle	2.0	23.60	23.60		7.81	7.81		32.40	32.40		76.6	72.5		5.34	5.10		2.39	2.42		16	
30/4/2011	9:42	Cloudy, Foggy	Middle	2.5	23.80	23.80	23.80	7.88	7.88	7.89	32.80	32.80	32.85	83.8	83.6	83.2	5.87	5.84	5.83	6.11	5.86	5.99	8	7.50
	9:45		Middle	2.5	23.80	23.80		7.89	7.89		32.90	32.90		83.0	82.5		5.81	5.80		5.90	6.10		7	
3/5/2011	10:40	Fine	Middle	2.5	24.80	24.80	24.85	7.85	7.85	7.85	32.20	32.20	32.25	85.4	83.9	83.4	5.86	5.79	5.74	5.15	5.71	5.45	9	8.50
	10:43		Middle	2.5	24.90	24.90		7.84	7.84		32.30	32.30		82.7	81.6		5.67	5.62		5.47	5.46		8	
5/5/2011	10:15	Cloudy	Middle	2.0	23.70	23.70	23.70	7.95	7.95	7.95	32.40	32.40	32.40	88.7	87.8	87.7	6.22	6.17	6.15	11.00	11.70	**11.45**	16	17.00
	10:18		Middle	2.0	23.70	23.70		7.95	7.95		32.40	32.40		87.4	86.8		6.11	6.10		11.10	12.00		18	
7/5/2011	14:25	Sunny	Middle	2.5	26.50	26.50	26.55	7.96	7.96	7.97	31.60	31.60	31.55	93.0	91.1	92.5	6.23	6.02	6.16	3.89	3.65	3.68	4	5.00
	14:28		Middle	2.5	26.60	26.60		7.97	7.97		31.50	31.50		92.1	93.6		6.16	6.21		3.54	3.62		6	
9/5/2011	14:52	Sunny	Middle	1.0	26.00	26.00	25.95	7.93	7.93	7.94	31.20	31.20	31.25	89.8	89.6	89.6	6.07	6.03	6.04	5.36	4.87	4.85	5	4.50
	14:55		Middle	1.0	25.90	25.90		7.94	7.94		31.30	31.30		89.4	89.5		6.02	6.03		4.67	4.50		4	
12/5/2011	19:36	Cloudy	Middle	2.5	26.70	26.70	26.70	8.04	8.04	8.04	29.80	29.80	29.80	99.8	99.7	99.8	6.73	6.73	6.73	2.71	2.52	2.65	3	3.50
	19:37		Middle	2.5	26.70	26.70		8.04	8.04		29.80	29.80		99.8	99.9		6.72	6.73		2.65	2.73		4	
14/5/2011	10:00	Rainy	Middle	2.0	25.10	25.10	25.05	7.95	7.95	7.95	31.60	31.60	31.55	90.1	89.8	89.7	6.23	6.21	6.20	3.30	3.42	3.36	4	3.50
	10:03		Middle	2.0	25.00	25.00		7.94	7.94		31.50	31.50		89.4	89.3		6.18	6.16		3.55	3.17		3	
16/5/2011	10:23	Cloudy	Middle	1.0	25.30	25.30	25.30	7.98	7.98	7.99	31.60	31.60	29.15	90.6	90.0	88.9	6.21	6.19	6.10	4.31	4.20	4.22	4	4.00
	10:26		Middle	1.0	25.30	25.30		7.99	7.99		21.70	31.70		87.8	87.1		6.01	5.98		4.30	4.07		4	
18/5/2011	12:35	Fine	Middle	2.5	26.90	26.90	26.95	7.93	7.93	7.93	31.20	31.20	31.25	88.5	88.2	89.0	5.94	5.88	5.96	6.03	5.90	6.11	7	8.00
	12:38		Middle	2.5	27.00	27.00		7.92	7.92		31.30	31.30		89.2	89.9		5.97	6.03		6.40	6.12		9	
20/5/2011	14:50	Fine	Middle	2.0	26.80	26.80	26.75	8.00	8.00	8.01	30.40	30.40	30.35	91.4	91.0	91.2	6.13	6.10	6.11	5.13	5.31	5.16	3	3.50
	14:53		Middle	2.0	26.70	26.70		8.01	8.01		30.30	30.30		91.3	91.2		6.11	6.10		5.12	5.06		4	
23/5/2011	15:31	Cloudy	Middle	2.5	26.00	26.00	26.05	7.97	7.97	7.98	29.70	29.70	29.75	95.4	95.3	95.1	6.51	6.50	6.49	2.72	2.85	2.69	10	9.50
	15:33		Middle	2.5	26.10	26.10		7.98	7.98		29.80	29.80		95.0	94.8		6.47	6.46		2.55	2.62		9	
25/5/2011	16:33	Cloudy	Middle	2.0	25.40	25.40	25.45	8.01	8.01	8.02	32.30	32.30	32.30	90.3	90.0	89.8	6.17	6.14	6.13	3.72	3.73	3.73	7	8.00
	16:36		Middle	2.0	25.50	25.50		8.02	8.02		32.30	32.30		89.6	89.2		6.11	6.09		3.74	3.73		9	

Water Monitoring Result at C2 - TH / APA / SOC
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
28/4/2011	21:45	Cloudy	Middle	2.0	23.20	23.20	23.20	7.76	7.76	7.76	32.50	32.50	32.50	61.2	59.2	60.4	4.32	4.18	4.26	3.17	2.75	2.88	10	11.00
	21:46		Middle	2.0	23.20	23.20		7.76	7.76		32.50	32.50		60.5	60.5		4.27	4.27		2.96	2.63		12	
30/4/2011	9:35	Cloudy, Foggy	Middle	1.5	23.50	23.50	23.45	7.59	7.59	7.60	32.70	32.70	32.65	80.6	80.0	79.8	5.67	5.64	5.61	4.45	4.37	4.35	5	5.00
	9:38		Middle	1.5	23.40	23.40		7.60	7.60		32.60	32.60		79.7	78.9		5.60	5.54		4.25	4.31		5	
3/5/2011	10:20	Fine	Middle	1.5	24.60	24.60	24.65	7.87	7.87	7.88	32.00	32.00	32.05	76.7	75.4	74.7	5.34	5.26	5.20	6.51	6.38	6.13	11	10.00
	10:23		Middle	1.5	24.70	24.70		7.88	7.88		32.10	32.10		73.8	72.7		5.13	5.05		6.02	5.62		9	
5/5/2011	10:04	Cloudy	Middle	1.5	23.60	23.60	23.65	7.90	7.90	7.90	32.30	32.30	32.30	85.7	84.9	84.0	6.01	5.94	5.89	3.17	3.05	3.06	5	6.00
	10:06		Middle	1.5	23.70	23.70		7.90	7.90		32.30	32.30		82.9	82.3		5.84	5.78		3.05	2.98		7	
7/5/2011	11:30	Sunny	Middle	1.5	24.70	24.70	24.75	7.20	7.20	7.21	32.00	32.00	32.05	86.4	85.8	85.7	5.99	5.93	5.92	6.21	6.12	6.16	9	8.50
	11:33		Middle	1.5	24.80	24.80		7.21	7.21		32.10	32.10		85.3	85.1		5.90	5.87		6.16	6.15		8	
9/5/2011	14:35	Sunny	Middle	1.0	26.20	26.20	26.25	7.86	7.86	7.86	31.60	31.60	31.55	85.5	84.7	84.5	5.78	5.70	5.70	3.60	3.50	3.49	4	4.00
	14:38		Middle	1.0	26.30	26.30		7.85	7.85		31.50	31.50		84.1	83.7		5.68	5.64		3.40	3.46		4	
12/5/2011	21:58	Cloudy	Middle	2.0	26.80	26.80	26.80	7.97	7.97	7.97	29.80	29.80	29.80	94.8	94.7	94.6	6.35	6.33	6.33	2.78	2.70	2.73	4	5.00
	21:59		Middle	2.0	26.80	26.80		7.97	7.97		29.80	29.80		94.6	94.3		6.32	6.31		2.74	2.71		6	
14/5/2011	9:40	Rainy	Middle	1.5	24.90	24.90	24.85	7.94	7.94	7.94	31.50	31.50	31.45	83.6	83.3	83.3	5.80	5.78	5.78	3.21	2.88	2.94	4	4.00
	9:43		Middle	1.5	24.80	24.80		7.93	7.93		31.40	31.40		83.1	83.0		5.77	5.76		2.84	2.82		4	
16/5/2011	10:12	Cloudy	Middle	1.5	25.10	25.10	25.10	7.97	7.97	7.98	32.00	32.00	32.00	87.2	86.8	86.2	6.00	5.99	5.94	5.61	5.45	5.40	6	6.00
	10:14		Middle	1.5	25.10	25.10		7.99	7.99		32.00	32.00		85.7	85.1		5.90	5.87		5.34	5.20		6	
18/5/2011	10:25	Fine	Middle	1.5	25.40	25.40	25.35	7.93	7.94	7.94	31.80	31.80	31.85	78.3	78.5	78.5	5.35	5.36	5.36	6.69	5.92	6.27	10	10.50
	10:28		Middle	1.5	25.30	25.30		7.94	7.94		31.90	31.90		78.6	78.4		5.37	5.35		6.15	6.33		11	
20/5/2011	14:30	Fine	Middle	1.5	26.20	26.20	26.25	7.73	7.73	7.74	30.40	30.40	30.45	93.3	93.1	93.0	6.31	6.29	6.29	4.74	4.76	4.81	11	10.50
	14:33		Middle	1.5	26.30	26.30		7.74	7.74		30.50	30.50		92.9	92.6		6.28	6.26		4.87	4.85		10	
23/5/2011	15:21	Cloudy	Middle	1.5	25.70	25.70	25.75	7.95	7.95	7.96	30.00	30.00	30.05	87.5	87.3	87.1	5.99	5.97	5.96	4.30	3.91	3.94	6	6.50
	15:23		Middle	1.5	25.80	25.80		7.96	7.96		30.10	30.10		87.0	86.7		5.95	5.91		3.75	3.81		7	
25/5/2011	16:15	Cloudy	Middle	1.0	24.90	24.90	24.95	8.01	8.01	8.02	32.50	32.50	32.55	86.7	86.3	86.1	5.94	5.90	5.89	5.75	5.88	5.89	8	8.50
	16:18		Middle	1.0	25.00	25.00		8.02	8.02		32.60	32.60		85.8	85.5		5.88	5.84		5.83	6.08		9	

Water Monitoring Result at C3 - HKCEC Phase I
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)		Remarks
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average	
28/4/2011	21:25	Cloudy	Middle	3.0	23.60	23.60	23.60	7.69	7.69	7.69	32.50	32.50	32.50	62.4	65.1	64.4	4.40	4.69	4.56	13.50	13.90	**14.20**	20	**20.50**	Repeated measurement: 16.10; Outside silt screen: 7.56
	21:26		Middle	3.0	23.60	23.60		7.69	7.69		32.50	32.50		66.8	63.3		4.70	4.45		14.80	14.60		21		
30/4/2011	11:00	Cloudy, Foggy	Middle	2.5	23.50	23.50	23.55	7.84	7.84	7.85	32.70	32.70	32.65	84.7	83.5	83.4	5.94	5.88	5.87	8.18	8.43	8.32	10	10.50	-
	11:03		Middle	2.5	23.60	23.60		7.85	7.85		32.60	32.60		83.0	82.2		5.83	5.81		8.27	8.40		11		
3/5/2011	12:10	Fine	Middle	2.5	24.30	24.30	24.35	7.88	7.88	7.89	32.10	32.10	32.15	83.6	82.8	82.6	5.80	5.75	5.73	9.01	8.96	8.99	24	**22.50**	-
	12:13		Middle	2.5	24.40	24.40		7.89	7.89		32.20	32.20		82.3	81.7		5.70	5.68		9.02	8.95		21		
5/5/2011	11:30	Cloudy	Middle	2.5	23.70	23.70	23.75	7.98	7.98	7.98	32.40	32.40	32.40	83.5	83.1	82.9	5.86	5.84	5.82	54.00	54.10	**52.45**	75	**75.00**	Repeated measurement: 49.88; Outside silt screen: 18.25
	11:32		Middle	2.5	23.80	23.80		7.98	7.98		32.40	32.40		82.7	82.2		5.80	5.78		50.90	50.80		75		
7/5/2011	11:43	Sunny	Middle	2.0	25.00	25.00	24.95	7.83	7.83	7.84	31.90	31.90	31.90	76.1	76.0	76.0	5.23	5.22	5.22	12.40	12.40	**12.25**	16	16.00	Repeated measurement: 12.78; Outside silt screen: 17.38
	11:46		Middle	2.0	24.90	24.90		7.84	7.84		31.90	31.90		75.9	76.0		5.21	5.21		12.00	12.20		16		
9/5/2011	16:00	Sunny	Middle	2.5	26.00	26.00	26.05	7.98	7.98	7.99	31.70	31.70	31.75	83.4	82.7	81.9	5.61	5.59	5.52	6.14	5.97	5.90	9	8.00	-
	16:03		Middle	2.5	26.10	26.10		7.99	7.99		31.80	31.80		81.3	80.3		5.48	5.41		5.72	5.78		7		
12/5/2011	21:36	Cloudy	Middle	2.5	27.30	27.30	27.30	7.98	7.98	7.98	30.10	30.10	30.10	94.2	94.1	94.0	6.25	6.24	6.24	5.52	5.73	5.67	4	5.00	Outside silt screen: 5.30
	21:37		Middle	2.5	27.30	27.30		7.98	7.98		30.10	30.10		93.8	93.9		6.24	6.24		5.63	5.79		6		
14/5/2011	11:18	Rainy	Middle	2.5	25.00	25.00	25.00	7.94	7.94	7.94	31.70	31.70	31.65	86.0	85.7	85.5	5.95	5.93	5.91	16.60	16.60	**16.73**	19	**19.00**	Repeated measurement: 14.63; Outside silt screen: 10.55; Backfilling
	11:21		Middle	2.5	25.00	25.00		7.93	7.93		31.60	31.60		85.3	85.0		5.89	5.86		17.30	16.40		19		
16/5/2011	11:25	Cloudy	Middle	2.5	25.20	25.20	25.20	8.02	8.02	8.03	32.00	32.00	32.00	85.1	84.4	84.1	5.86	5.80	5.79	40.30	39.80	**39.65**	39	**40.50**	Repeated measurement: 37.63; Outside silt curtain: 67.85
	11:27		Middle	2.5	25.20	25.20		8.03	8.03		32.00	32.00		83.6	83.4		5.76	5.72		39.70	38.80		42		
18/5/2011	10:40	Fine	Middle	2.0	24.90	24.90	24.95	7.95	7.95	7.95	31.70	31.70	31.75	81.2	80.8	80.6	5.62	5.60	5.59	15.90	16.00	**16.03**	30	**29.50**	Repeated measurement: 17.75NTU; Outside silt screen: 37.93NTU; Backfilling
	10:43		Middle	2.0	25.00	25.00		7.94	7.94		31.80	31.80		80.4	80.1		5.57	5.55		16.40	15.80		29		
20/5/2011	16:23	Fine	Middle	2.0	26.00	26.00	26.05	7.95	7.95	7.96	31.10	31.10	31.10	87.9	87.7	87.3	5.95	5.92	5.90	5.42	5.38	5.32	12	13.00	Outside silt screen: 5.71
	16:26		Middle	2.0	26.10	26.10		7.96	7.96		31.10	31.10		87.2	86.5		5.91	5.82		5.17	5.29		14		
23/5/2011	16:33	Cloudy	Middle	2.5	25.80	25.80	25.85	7.95	7.95	7.96	30.50	30.50	30.55	85.4	83.9	83.8	5.79	5.72	5.69	13.20	13.30	**13.30**	16	15.50	Repeated measurement: 12.53NTU; Outside silt screen: 5.13NTU; Backfilling tipping
	16:36		Middle	2.5	25.90	25.90		7.96	7.96		30.60	30.60		83.2	82.5		5.65	5.61		13.40	13.30		15		
25/5/2011	17:15	Cloudy	Middle	2.0	25.30	25.30	25.35	8.04	8.04	8.05	32.10	32.10	32.05	83.8	82.1	82.0	5.70	5.60	5.59	15.20	15.40	**15.13**	15	12.50	Repeated measurement: 15.58; Outside silt screen: 5.17; Tipping
	17:18		Middle	2.0	25.40	25.40		8.05	8.05		32.00	32.00		81.5	80.7		5.55	5.52		14.80	15.10		10		

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
28/4/2011	20:49	Cloudy	Middle	2.0	23.50	23.50	23.50	7.76	7.76	7.76	32.40	32.40	32.40	65.1	66.2	64.5	4.59	4.61	4.53	5.69	6.11	5.66	11	10.00
	20:50		Middle	2.0	23.50	23.50		7.76	7.76		32.40	32.40		62.5	64.2		4.40	4.52		5.36	5.48		9	
30/4/2011	10:42	Cloudy, Foggy	Middle	1.5	23.50	23.50	23.45	7.85	7.85	7.85	32.70	32.70	32.65	74.9	74.5	74.3	5.27	5.26	5.23	6.46	6.44	6.47	4	4.50
	10:45		Middle	1.5	23.40	23.40		7.84	7.84		32.60	32.60		74.2	73.6		5.21	5.19		6.78	6.19		5	
3/5/2011	11:59	Fine	Middle	1.5	24.40	24.40	24.45	7.85	7.85	7.85	32.00	32.00	32.05	73.9	73.0	72.9	5.12	5.08	5.06	3.67	3.84	3.53	7	7.50
	12:02		Middle	1.5	24.50	24.50		7.84	7.84		32.10	32.10		72.7	71.8		5.04	5.00		3.26	3.35		8	
5/5/2011	11:05	Cloudy	Middle	1.0	23.80	23.80	23.80	7.89	7.89	7.90	32.30	32.30	32.30	84.4	83.8	83.5	5.91	5.88	5.85	4.77	5.20	4.89	5	5.00
	11:06		Middle	1.0	23.80	23.80		7.90	7.90		32.30	32.30		83.3	82.5		5.83	5.79		4.77	4.83		5	
7/5/2011	12:40	Sunny	Middle	1.5	25.00	25.00	24.95	7.84	7.84	7.84	32.00	32.00	32.05	79.8	79.0	79.0	5.48	5.44	5.43	5.68	5.58	5.49	6	7.00
	12:43		Middle	1.5	24.90	24.90		7.83	7.83		32.10	32.10		78.8	78.4		5.41	5.40		5.39	5.29		8	
9/5/2011	15:48	Sunny	Middle	1.0	25.80	25.80	25.85	7.93	7.93	7.94	31.80	31.80	31.75	79.2	78.1	78.1	5.34	5.28	5.28	5.87	5.59	6.56	6	6.00
	15:51		Middle	1.0	25.90	25.90		7.94	7.94		31.70	31.70		77.8	77.4		5.25	5.24		6.97	7.82		6	
12/5/2011	20:55	Cloudy	Middle	2.0	27.20	27.20	27.20	8.02	8.02	8.02	30.10	30.10	30.10	95.4	95.2	95.2	6.37	6.36	6.36	7.66	7.45	7.57	7	7.50
	20:56		Middle	2.0	27.20	27.20		8.02	8.02		30.10	30.10		95.0	95.1		6.35	6.35		7.67	7.48		8	
14/5/2011	10:09	Rainy	Middle	1.0	25.00	25.00	25.20	7.95	7.95	7.95	31.40	31.40	31.35	66.0	65.9	65.9	4.57	6.59	5.06	6.53	7.12	6.60	10	9.00
	11:12		Middle	1.0	25.40	25.40		7.94	7.94		31.30	31.30		65.8	65.7		4.55	4.54		6.43	6.33		8	
16/5/2011	11:05	Cloudy	Middle	1.0	25.40	25.40	25.40	7.97	7.97	7.98	31.90	31.90	31.90	83.2	83.0	82.6	5.70	5.66	5.65	11.50	10.70	10.78	13	13.50
	11:07		Middle	1.0	25.40	25.40		7.99	7.99		31.90	31.90		82.3	81.9		5.64	5.60		10.60	10.30		14	
18/5/2011	11:11	Fine	Middle	1.5	24.60	24.60	24.55	8.02	8.02	8.02	31.80	31.80	31.85	90.7	89.8	89.5	6.25	6.21	6.19	6.61	7.03	6.82	8	9.00
	11:13		Middle	1.5	24.50	24.50		8.02	8.02		31.90	31.90		89.1	88.5		6.16	6.13		6.88	6.74		10	
20/5/2011	16:05	Fine	Middle	1.0	26.10	26.10	26.15	7.95	7.95	7.95	31.00	31.00	31.05	84.2	83.9	83.7	5.70	5.68	5.67	7.02	6.82	6.68	14	14.50
	16:08		Middle	1.0	26.20	26.20		7.94	7.94		31.10	31.10		83.5	83.1		5.66	5.62		6.19	6.69		15	
23/5/2011	16:25	Cloudy	Middle	1.0	25.50	25.50	25.55	7.88	7.88	7.89	30.20	30.20	30.15	84.7	82.9	82.4	5.76	5.67	5.62	4.27	4.26	4.21	11	10.00
	16:28		Middle	1.0	25.60	25.60		7.89	7.89		30.10	30.10		81.5	80.3		5.54	5.50		4.09	4.21		9	
25/5/2011	16:58	Cloudy	Middle	1.5	25.10	25.10	25.05	7.97	7.97	7.98	32.10	32.10	32.15	82.4	81.3	81.2	5.63	5.58	5.56	3.54	3.60	3.54	7	6.00
	17:01		Middle	1.5	25.00	25.00		7.98	7.98		32.20	32.20		80.9	80.3		5.53	5.51		3.47	3.54		5	

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
28/4/2011	21:05	Cloudy	Middle	2.0	23.50	23.50	23.50	7.67	7.67	7.67	32.10	32.10	32.10	54.4	54.0	54.5	3.84	3.81	3.85	2.25	2.09	2.44	3	3.00
	21:06		Middle	2.0	23.50	23.50		7.67	7.67		32.10	32.10		55.4	54.2		3.91	3.82		3.02	2.41		3	
30/4/2011	10:35	Cloudy, Foggy	Middle	1.5	23.90	23.90	23.85	7.76	7.76	7.76	32.50	32.50	32.45	68.5	67.9	67.8	4.79	4.77	4.75	3.22	3.09	3.07	6	6.00
	10:38		Middle	1.5	23.80	23.80		7.75	7.75		32.40	32.40		67.6	67.1		4.73	4.71		2.95	3.03		6	
3/5/2011	11:50	Fine	Middle	1.5	24.80	24.80	24.85	7.75	7.75	7.76	31.60	31.60	31.55	74.6	72.7	72.5	5.13	5.06	5.01	1.00	1.13	1.44	4	5.00
	11:53		Middle	1.5	24.90	24.90		7.76	7.76		31.50	31.50		72.0	70.8		4.95	4.91		1.84	1.79		6	
5/5/2011	11:11	Cloudy	Middle	1.0	23.80	23.80	23.85	7.83	7.83	7.83	31.90	31.90	31.90	82.4	81.4	80.7	5.77	5.72	5.67	1.78	1.74	1.65	2	3.00
	11:14		Middle	1.0	23.90	23.90		7.83	7.83		31.90	31.90		79.9	79.2		5.61	5.57		1.57	1.50		4	
7/5/2011	12:30	Sunny	Middle	1.5	25.00	25.00	25.05	7.72	7.72	7.73	31.70	31.70	31.75	76.0	75.2	74.8	5.22	5.18	5.14	2.48	2.41	2.31	5	5.50
	12:33		Middle	1.5	25.10	25.10		7.73	7.73		31.80	31.80		74.4	73.6		5.11	5.06		2.17	2.16		6	
9/5/2011	15:40	Sunny	Middle	1.0	26.20	26.20	26.25	7.78	7.78	7.79	31.40	31.40	31.35	77.4	75.9	75.5	5.18	5.11	5.07	2.68	2.75	2.77	3	4.00
	15:43		Middle	1.0	26.30	26.30		7.79	7.79		31.30	31.30		74.9	73.8		5.02	4.97		2.73	2.91		5	
12/5/2011	21:10	Cloudy	Middle	2.0	27.10	27.10	27.10	7.99	7.99	7.99	30.00	30.00	30.00	93.1	93.0	92.8	6.22	6.23	6.22	2.84	2.78	2.80	2	3.00
	21:11		Middle	2.0	27.10	27.10		7.99	7.99		30.00	30.00		92.6	92.5		6.21	6.20		2.82	2.76		4	
14/5/2011	11:03	Rainy	Middle	1.5	25.30	25.30	25.35	7.86	7.86	7.86	30.70	30.70	30.75	67.5	67.0	67.0	4.66	4.64	4.63	4.31	4.06	4.23	9	9.00
	11:06		Middle	1.5	25.40	25.40		7.85	7.85		30.80	30.80		66.8	66.6		4.61	4.60		4.36	4.18		9	
16/5/2011	11:12	Cloudy	Middle	1.0	25.00	25.00	25.00	7.96	7.96	7.91	31.50	31.50	31.50	77.2	76.6	74.8	5.35	5.28	5.18	1.35	1.34	1.34	6	6.00
	11:14		Middle	1.0	25.00	25.00		7.85	7.85		31.50	31.50		73.3	72.2		5.08	5.00		1.30	1.35		6	
18/5/2011	11:03	Fine	Middle	2.0	24.40	24.40	24.35	7.95	7.95	7.96	31.60	31.60	31.55	76.8	76.3	76.1	5.34	5.32	5.30	8.69	7.86	7.84	12	16.00
	11:05		Middle	2.0	24.30	24.30		7.96	7.96		31.50	31.50		75.8	75.5		5.28	5.27		7.61	7.18		20	
20/5/2011	15:55	Fine	Middle	1.0	26.30	26.30	26.35	7.92	7.92	7.92	31.00	31.00	31.00	83.8	83.3	83.0	5.65	5.59	5.58	5.37	5.63	5.31	5	4.50
	15:58		Middle	1.0	26.40	26.40		7.91	7.91		31.00	31.00		82.5	82.3		5.56	5.52		5.44	4.79		4	
23/5/2011	16:21	Cloudy	Middle	1.0	25.50	25.50	25.55	7.74	7.74	7.75	29.40	29.40	29.35	57.4	56.9	56.5	3.94	3.90	3.89	2.46	2.33	2.16	7	7.50
	16:24		Middle	1.0	25.60	25.60		7.75	7.75		29.30	29.30		56.2	55.5		3.87	3.83		1.95	1.89		8	
25/5/2011	16:51	Cloudy	Middle	2.0	25.00	25.00	25.05	7.83	7.83	7.84	31.70	31.70	31.75	75.3	74.1	73.7	5.15	5.10	5.06	1.21	1.09	1.19	4	5.00
	16:54		Middle	2.0	25.10	25.10		7.84	7.84		31.80	31.80		73.2	72.1		5.01	4.97		1.08	1.39		6	

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
28/4/2011	20:14	Cloudy	Middle	2.0	23.50	23.50	23.50	7.70	7.70	7.70	32.30	32.30	32.30	60.4	63.3	61.1	4.27	4.47	4.31	2.14	2.13	2.15	8	9.00
	20:15		Middle	2.0	23.50	23.50		7.70	7.70		32.30	32.30		60.2	60.3		4.25	4.25		2.20	2.11		10	
30/4/2011	10:15	Cloudy, Foggy	Middle	1.5	24.10	24.10	24.15	7.85	7.85	7.86	32.50	32.50	32.45	86.2	85.6	84.9	6.04	5.95	5.93	5.21	5.55	5.22	5	4.50
	10:18		Middle	1.5	24.20	24.20		7.86	7.86		32.40	32.40		84.5	83.4		5.89	5.84		5.09	5.03		4	
3/5/2011	11:12	Fine	Middle	1.0	25.00	25.00	25.05	7.86	7.86	7.87	31.60	31.60	31.55	76.3	75.3	75.1	5.23	5.19	5.16	4.88	5.54	4.17	7	7.00
	11:15		Middle	1.0	25.10	25.10		7.87	7.87		31.50	31.50		74.8	74.0		5.13	5.10		3.17	3.08		7	
5/5/2011	10:48	Cloudy	Middle	1.0	24.40	24.40	24.48	7.87	7.87	7.87	32.00	32.00	32.00	85.1	84.6	83.4	5.92	5.86	5.80	6.47	6.90	6.56	10	10.00
	10:50		Middle	1.0	24.40	24.70		7.87	7.87		32.00	32.00		82.1	81.7		5.73	5.67		6.42	6.44		10	
7/5/2011	13:45	Sunny	Middle	1.0	26.10	26.10	26.15	7.84	7.84	7.85	31.20	31.20	31.25	67.7	67.5	67.2	4.56	4.54	4.52	4.46	4.02	4.08	10	9.00
	13:48		Middle	1.0	26.20	26.20		7.85	7.85		31.30	31.30		66.9	66.6		4.49	4.47		3.94	3.89		8	
9/5/2011	15:26	Sunny	Middle	2.0	26.20	26.20	26.25	7.87	7.87	7.88	31.50	31.50	31.55	83.5	82.8	77.5	5.59	5.57	5.53	4.97	4.84	4.81	7	6.50
	15:29		Middle	2.0	26.30	26.30		7.88	7.88		31.60	31.60		62.2	81.6		5.50	5.46		4.67	4.76		6	
12/5/2011	20:25	Cloudy	Middle	2.0	27.20	27.20	27.20	7.82	7.82	7.82	29.40	29.40	29.40	77.0	76.9	76.8	5.09	5.08	5.07	2.83	2.92	2.83	3	4.00
	20:26		Middle	2.0	27.20	27.20		7.82	7.82		29.40	29.40		76.6	76.5		5.06	5.05		2.84	2.72		5	
14/5/2011	10:33	Rainy	Middle	1.0	25.10	25.10	25.15	7.91	7.91	7.91	29.60	29.60	29.65	71.9	70.8	70.4	5.03	4.94	4.92	3.40	3.10	3.25	<2	2.00
	10:36		Middle	1.0	25.20	25.20		7.90	7.90		29.70	29.70		69.8	68.9		4.88	4.81		3.21	3.29		2	
16/5/2011	10:53	Cloudy	Middle	2.0	25.60	25.40	25.50	7.91	7.91	7.92	30.50	30.50	30.60	85.4	83.5	83.2	5.90	5.74	5.74	4.14	4.18	4.12	7	6.00
	10:55		Middle	2.0	25.50	25.50		7.92	7.92		30.70	30.70		82.5	81.4		5.69	5.61		4.09	4.08		5	
18/5/2011	12:00	Fine	Middle	1.0	26.50	26.50	26.45	7.87	7.87	7.88	30.30	30.30	30.35	80.7	80.3	80.1	5.47	5.42	5.42	3.20	3.00	3.03	5	4.50
	12:03		Middle	1.0	26.40	26.40		7.88	7.88		30.40	30.40		79.9	79.4		5.41	5.36		2.91	3.01		4	
20/5/2011	15:25	Fine	Middle	1.0	26.70	26.70	26.75	7.93	7.93	7.94	30.50	30.50	30.55	76.1	75.6	75.5	5.10	5.07	5.06	7.85	8.05	7.86	7	6.50
	15:28		Middle	1.0	26.80	26.80		7.94	7.94		30.60	30.60		75.4	74.9		5.05	5.02		7.89	7.65		6	
23/5/2011	16:00	Cloudy	Middle	1.0	25.70	25.70	25.75	7.89	7.89	7.89	27.40	27.40	27.45	59.3	59.0	58.9	4.11	4.09	4.09	3.12	3.15	3.18	6	7.00
	16:03		Middle	1.0	25.80	25.80		7.88	7.88		27.50	27.50		58.8	58.6		4.08	4.07		3.33	3.13		8	
25/5/2011	16:27	Cloudy	Middle	1.5	25.30	25.30	25.40	7.92	7.92	7.92	30.41	30.41	30.41	61.1	61.8	61.1	4.22	4.27	4.20	2.58	2.58	2.60	3	3.00
	16:30		Middle	1.5	25.50	25.50		7.92	7.92		30.41	30.41		61.0	60.6		4.11	4.18		2.41	2.82		3	

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
28/4/2011	20:24	Cloudy	Middle	2.0	23.40	23.40	23.40	7.73	7.73	7.73	32.30	32.30	32.30	59.9	62.4	61.2	4.23	4.41	4.32	2.61	2.77	2.98	13	12.00
	20:25		Middle	2.0	23.40	23.40		7.73	7.73		32.30	32.30		61.8	60.8		4.37	4.25		3.17	3.37		11	
30/4/2011	10:22	Cloudy, Foggy	Middle	1.5	24.20	24.20	24.25	7.74	7.74	7.74	32.30	32.30	32.25	86.1	85.9	84.6	5.99	5.95	5.89	4.26	4.25	4.23	9	8.00
	10:25		Middle	1.5	24.30	24.30		7.73	7.73		32.20	32.20		83.6	82.6		5.85	5.75		4.27	4.12		7	
3/5/2011	11:05	Fine	Middle	1.0	25.60	25.60	25.55	7.85	7.85	7.85	31.80	31.80	31.85	72.6	72.0	71.9	4.94	4.92	4.90	4.38	3.86	3.83	6	6.50
	11:08		Middle	1.0	25.50	25.50		7.84	7.84		31.90	31.90		71.8	71.0		4.88	4.85		3.58	3.51		7	
5/5/2011	10:53	Cloudy	Middle	1.0	24.20	24.20	24.25	7.90	7.90	7.89	32.00	32.00	32.00	85.8	83.7	82.6	6.00	5.85	5.77	5.58	4.96	5.25	7	8.00
	10:56		Middle	1.0	24.30	24.30		7.88	7.88		32.00	32.00		80.9	80.1		5.62	5.59		5.31	5.13		9	
7/5/2011	13:53	Sunny	Middle	1.0	25.40	25.40	25.45	7.81	7.81	7.80	31.50	31.50	31.45	59.1	58.7	57.0	4.06	4.00	3.93	3.44	3.28	3.49	8	7.00
	13:56		Middle	1.0	25.50	25.50		7.79	7.79		31.40	31.40		54.8	55.3		3.80	3.87		3.60	3.63		6	
9/5/2011	15:17	Sunny	Middle	2.0	26.70	26.70	26.75	7.83	7.83	7.84	31.50	31.50	31.55	77.9	77.2	77.0	5.21	5.17	5.15	4.45	4.31	4.28	4	4.50
	15:20		Middle	2.0	26.80	26.80		7.84	7.84		31.60	31.60		76.7	76.0		5.11	5.09		4.28	4.07		5	
12/5/2011	20:32	Cloudy	Middle	2.0	26.70	26.70	26.70	7.89	7.89	7.89	29.00	29.00	29.00	82.4	82.3	82.2	5.52	5.51	5.50	3.00	3.09	3.04	3	4.00
	20:33		Middle	2.0	26.70	26.70		7.89	7.89		29.00	29.00		82.0	81.9		5.49	5.48		3.06	3.02		5	
14/5/2011	10:25	Rainy	Middle	1.0	25.20	25.20	25.25	7.89	7.89	7.90	30.40	30.40	30.45	81.1	80.7	80.0	5.63	5.58	5.55	2.94	3.06	2.94	4	4.00
	10:28		Middle	1.0	25.30	25.30		7.90	7.90		30.50	30.50		79.3	78.9		5.53	5.46		2.93	2.84		4	
16/5/2011	10:47	Cloudy	Middle	2.0	25.70	25.70	25.70	7.92	7.92	7.93	31.00	31.00	31.00	80.8	79.7	77.1	5.55	5.43	5.28	2.94	2.94	2.88	2	2.50
	10:49		Middle	2.0	25.70	25.70		7.93	7.93		31.00	31.00		74.4	73.6		5.11	5.02		2.86	2.76		3	
18/5/2011	12:15	Fine	Middle	1.0	26.90	26.90	26.85	7.84	7.84	7.84	30.70	30.70	30.65	67.9	66.3	65.3	4.61	4.49	4.43	3.10	3.07	2.96	5	4.50
	12:18		Middle	1.0	26.80	26.80		7.83	7.83		30.60	30.60		64.7	62.4		4.38	4.23		3.09	2.57		4	
20/5/2011	15:36	Fine	Middle	1.0	26.00	26.00	26.05	7.92	7.92	7.93	29.80	29.80	29.85	70.7	69.7	69.5	4.81	4.74	4.73	7.87	8.39	8.19	5	4.00
	15:39		Middle	1.0	26.10	26.10		7.93	7.93		29.90	29.90		68.9	68.5		4.71	4.66		8.43	8.06		3	
23/5/2011	16:07	Cloudy	Middle	1.0	25.40	25.40	25.35	7.81	7.81	7.82	29.10	29.10	29.15	72.3	72.1	71.1	4.97	4.95	4.89	2.57	2.63	2.53	6	7.50
	16:10		Middle	1.0	25.30	25.30		7.82	7.82		29.20	29.20		70.5	69.3		4.83	4.81		2.53	2.39		9	
25/5/2011	16:33	Cloudy	Middle	1.5	25.50	25.50	25.50	7.86	7.86	7.87	30.76	30.76	30.76	72.2	72.5	72.0	4.98	5.00	4.96	2.21	2.18	2.24	4	4.50
	16:36		Middle	1.5	25.50	25.50		7.87	7.87		30.76	30.76		71.3	71.8		4.91	4.95		2.24	2.31		5	

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
28/4/2011	19:40	Cloudy	Middle	2.0	23.30	23.30	23.30	7.77	7.77	7.77	32.40	32.40	32.40	60.9	63.3	62.8	4.31	4.48	4.45	4.44	4.65	4.45	6	5.50
	19:41		Middle	2.0	23.30	23.30		7.77	7.77		32.40	32.40		64.5	62.6		4.56	4.43		4.51	4.21		5	
30/4/2011	10:05	Cloudy, Foggy	Middle	1.5	23.80	23.80	23.75	7.81	7.81	7.82	32.60	32.60	32.55	85.4	84.4	84.1	5.98	5.93	5.90	4.38	3.99	4.00	4	4.00
	10:08		Middle	1.5	23.70	23.70		7.82	7.82		32.50	32.50		83.8	82.8		5.87	5.80		4.01	3.62		4	
3/5/2011	11:30	Fine	Middle	2.0	25.00	25.00	25.05	7.83	7.83	7.83	31.70	31.70	31.68	76.0	75.3	75.2	5.23	5.19	5.18	5.89	5.86	5.84	24	**18.00**
	11:33		Middle	2.0	25.10	25.10		7.82	7.82		31.70	31.60		75.1	74.4		5.16	5.12		5.98	5.62		12	
5/5/2011	10:35	Cloudy	Middle	2.0	24.10	24.10	24.10	7.90	7.90	7.91	32.00	32.00	32.05	88.3	87.6	87.4	6.17	6.13	6.11	4.21	4.32	4.22	6	7.00
	10:38		Middle	2.0	24.10	24.10		7.91	7.91		32.10	32.10		87.0	86.5		6.08	6.04		4.14	4.19		8	
7/5/2011	12:58	Sunny	Middle	1.5	25.70	25.70	25.75	7.87	7.87	7.87	31.90	31.90	31.95	77.2	76.9	76.8	5.24	5.21	5.21	3.80	3.76	3.76	5	5.50
	13:01		Middle	1.5	25.80	25.80		7.86	7.86		32.00	32.00		76.7	76.4		5.20	5.18		3.71	3.77		6	
9/5/2011	15:07	Sunny	Middle	1.0	27.30	27.30	27.35	7.79	7.79	7.80	31.40	31.40	31.35	88.2	87.4	86.7	5.89	5.81	5.77	4.48	4.92	4.71	8	7.00
	15:10		Middle	1.0	27.40	27.40		7.80	7.80		31.30	31.30		86.0	85.2		5.70	5.66		4.85	4.60		6	
12/5/2011	20:00	Cloudy	Middle	2.0	27.10	27.10	27.10	7.97	7.97	7.97	30.10	30.10	30.10	92.2	92.1	92.0	6.13	6.12	6.11	5.32	5.17	5.19	8	7.00
	20:01		Middle	2.0	27.10	27.10		7.97	7.97		30.10	30.10		92.0	91.7		6.11	6.09		5.20	5.07		6	
14/5/2011	10:20	Rainy	Middle	2.0	25.10	25.10	25.05	7.93	7.93	7.94	31.30	31.30	31.25	69.2	69.1	69.0	4.79	4.78	4.77	4.49	4.48	4.37	6	5.50
	10:23		Middle	2.0	25.00	25.00		7.94	7.94		31.20	31.20		68.8	68.7		4.76	4.75		4.31	4.19		5	
16/5/2011	10:36	Cloudy	Middle	1.0	25.50	25.50	25.55	7.92	7.92	7.92	31.60	31.60	31.60	80.5	79.5	78.0	5.50	5.45	5.34	3.70	3.79	3.88	2	2.50
	10:38		Middle	1.0	25.60	25.60		7.92	7.92		31.60	31.60		76.2	75.8		5.21	5.19		4.19	3.83		3	
18/5/2011	11:43	Fine	Middle	2.0	24.70	24.70	24.75	7.97	7.97	7.98	31.70	31.70	31.75	80.7	80.4	80.4	5.60	5.58	5.58	2.98	2.85	2.89	7	8.00
	11:46		Middle	2.0	24.80	24.80		7.98	7.98		31.80	31.80		80.3	80.2		5.57	5.56		2.85	2.89		9	
20/5/2011	15:10	Fine	Middle	1.0	26.90	26.90	26.95	7.95	7.95	7.96	31.20	31.20	31.25	77.4	77.2	77.0	5.13	5.12	5.11	6.14	6.29	6.02	4	5.00
	15:13		Middle	1.0	27.00	27.00		7.96	7.96		31.30	31.30		76.9	76.5		5.10	5.08		5.88	5.78		6	
23/5/2011	15:45	Cloudy	Middle	1.5	26.10	26.10	26.15	7.91	7.91	7.92	30.40	30.40	30.35	86.2	85.7	85.7	5.83	5.82	5.81	3.41	3.45	3.37	4	3.50
	15:48		Middle	1.5	26.20	26.20		7.92	7.92		30.30	30.30		85.5	85.3		5.79	5.78		3.37	3.26		3	
25/5/2011	16:05	Cloudy	Middle	2.0	25.70	25.70	25.60	8.01	8.01	7.98	31.92	31.92	32.03	70.6	70.5	71.2	4.81	4.80	4.85	2.41	2.29	2.33	5	5.50
	16:08		Middle	2.0	25.50	25.50		7.95	7.95		32.13	32.13		72.2	71.3		4.93	4.87		2.26	2.35		6	

Water Monitoring Result at WSD19 - Sheung Wan
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
28/4/2011	21:50	Cloudy	Middle	1.5	22.90	22.90	22.90	7.96	7.96	7.96	32.64	32.64	32.64	73.6	74.0	75.2	5.22	5.23	5.32	2.82	2.80	2.79	10	9.00
	21:51		Middle	1.5	22.90	22.90		7.96	7.96		32.64	32.64		77.3	75.8		5.50	5.32		2.94	2.61		8	
30/4/2011	12:05	Cloudy, Foggy	Middle	1.5	23.90	23.90	23.90	7.91	7.91	7.91	32.19	32.19	32.19	75.4	75.1	75.2	5.27	5.22	5.23	5.19	5.07	4.93	9	10.00
	12:06		Middle	1.5	23.90	23.90		7.91	7.91		32.19	32.19		75.7	74.7		5.28	5.13		4.82	4.62		11	
3/5/2011	15:00	Fine	Middle	2.0	26.00	26.00	26.01	6.28	6.28	6.28	30.56	30.56	30.56	97.3	96.6	96.1	6.62	6.57	6.53	7.78	7.87	7.89	10	10.00
	15:04		Middle	2.0	26.01	26.01		6.27	6.27		30.56	30.56		95.7	94.7		6.50	6.43		7.86	8.03		10	
5/5/2011	12:40	Cloudy	Middle	2.0	23.90	23.90	23.90	7.89	7.89	7.89	32.24	32.24	32.24	79.9	76.6	77.0	5.76	5.37	5.44	9.82	10.70	**10.51**	17	**16.50**
	12:41		Middle	2.0	23.90	23.90		7.89	7.89		32.24	32.24		76.5	75.1		5.36	5.26		10.70	10.80		16	
7/5/2011	12:45	Sunny	Middle	1.5	25.70	25.70	25.70	7.85	7.85	7.85	32.02	32.02	32.02	72.9	73.3	72.8	4.93	4.96	4.93	5.88	5.40	5.51	10	10.50
	12:46		Middle	1.5	25.70	25.70		7.85	7.85		32.02	32.02		73.0	72.0		4.95	4.87		5.36	5.41		11	
9/5/2011	14:35	Sunny	Middle	1.5	25.80	25.80	25.90	7.84	7.84	7.84	31.28	31.28	31.28	80.0	80.1	81.6	5.53	5.54	5.63	3.04	3.15	3.02	4	4.50
	14:36		Middle	1.5	26.00	26.00		7.83	7.83		31.28	31.28		83.0	83.2		5.71	5.72		3.12	2.75		5	
12/5/2011	22:13	Cloudy	Middle	1.5	27.20	27.20	27.30	8.06	8.06	8.06	28.91	28.91	28.91	83.7	85.2	84.8	5.59	5.76	5.68	2.36	2.41	2.20	4	4.00
	22:14		Middle	1.5	27.40	27.40		8.06	8.06		28.91	28.91		86.8	83.4		5.78	5.60		1.85	2.17		4	
14/5/2011	8:44	Rainy	Middle	1.5	24.70	24.70	24.65	7.92	7.92	7.92	30.75	30.75	30.77	82.0	80.9	81.6	5.72	5.65	5.69	2.05	2.00	2.00	4	4.00
	8:48		Middle	1.5	24.60	24.60		7.92	7.92		30.79	30.79		82.4	80.9		5.75	5.65		1.89	2.04		4	
16/5/2011	11:13	Cloudy	Middle	1.5	26.05	26.05	26.07	7.11	7.11	7.11	30.46	30.46	30.44	69.3	66.7	67.7	4.73	4.55	4.62	4.07	4.85	4.28	7	7.00
	11:14		Middle	1.5	26.09	26.09		7.11	7.11		30.41	30.41		66.8	67.8		4.56	4.63		4.05	4.13		7	
18/5/2011	10:03	Fine	Middle	2.5	24.70	24.70	24.70	7.92	7.92	7.90	31.73	31.73	31.71	67.9	68.3	67.5	4.68	4.71	4.65	6.98	6.41	6.21	11	13.50
	10:05		Middle	2.5	24.70	24.70		7.87	7.87		31.69	31.69		66.9	66.8		4.62	4.59		6.04	5.41		16	
20/5/2011	14:58	Fine	Middle	1.5	26.40	26.40	26.50	7.92	7.92	7.92	29.97	29.97	29.97	74.7	72.4	74.1	5.07	4.90	5.02	4.47	4.31	4.35	7	7.00
	15:02		Middle	1.5	26.60	26.60		7.92	7.92		29.96	29.96		75.8	73.6		5.14	4.98		4.41	4.22		7	
23/5/2011	14:27	Cloudy	Middle	1.5	25.90	25.90	25.95	7.85	7.85	7.85	29.83	29.83	29.82	77.7	76.6	77.7	5.33	5.25	5.33	1.91	1.86	1.95	2	2.50
	14:33		Middle	1.5	26.00	26.00		7.85	7.85		29.80	29.80		79.8	76.8		5.47	5.26		1.97	2.05		3	
25/5/2011	21:00	Cloudy	Middle	1.5	24.90	24.91	25.06	7.59	7.59	7.59	31.46	31.46	31.51	75.4	75.4	75.1	5.19	5.19	5.17	1.84	1.76	1.70	5	5.50
	21:01		Middle	1.5	25.22	25.21		7.59	7.59		31.56	31.56		74.7	74.8		5.15	5.15		1.60	1.60		6	

Water Monitoring Result at WSD20 - Kennedy Town
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
28/4/2011	21:32	Cloudy	Middle	1.5	23.40	23.40	23.40	7.98	7.98	7.98	32.36	32.36	32.36	78.1	75.8	75.8	5.51	5.35	5.35	3.01	2.50	2.63	8	7.00
	21:33		Middle	1.5	23.40	23.40		7.98	7.98		32.36	32.36		73.1	76.2		5.16	5.37		2.65	2.35		6	
30/4/2011	11:35	Cloudy, Foggy	Middle	1.5	23.80	23.90	23.83	7.96	7.96	7.96	32.57	32.57	32.57	84.9	84.5	85.1	5.95	5.92	5.95	5.67	5.80	5.85	10	10.00
	11:36		Middle	1.5	23.80	23.80		7.96	7.96		32.57	32.57		85.9	85.0		6.01	5.92		5.30	6.61		10	
3/5/2011	14:30	Fine	Middle	1.5	25.77	25.77	25.84	6.85	6.85	6.85	30.41	30.41	30.38	95.0	94.5	94.6	6.52	6.48	6.48	4.72	4.38	4.34	7	6.00
	14:33		Middle	1.5	25.90	25.90		6.84	6.84		30.34	30.34		94.3	94.5		6.45	6.47		4.01	4.26		5	
5/5/2011	12:13	Cloudy	Middle	2.0	23.80	23.80	23.80	8.00	8.00	8.00	32.41	32.41	32.41	80.6	83.6	82.1	5.67	5.86	5.76	4.34	4.48	4.51	8	8.00
	12:14		Middle	2.0	23.80	23.80		8.00	8.00		32.41	32.41		82.8	81.5		5.80	5.71		4.76	4.44		8	
7/5/2011	12:24	Sunny	Middle	1.5	25.40	25.40	25.40	7.94	7.94	7.94	30.98	30.98	30.98	81.1	86.2	84.0	5.08	5.53	5.43	3.80	3.60	3.66	6	5.50
	12:25		Middle	1.5	25.40	25.40		7.94	7.94		30.98	30.98		83.9	84.7		5.76	5.36		3.71	3.51		5	
9/5/2011	14:10	Sunny	Middle	1.5	26.70	26.70	26.70	7.98	7.98	7.98	30.84	30.84	30.84	83.4	80.6	82.4	5.62	5.40	5.57	2.70	2.73	2.67	3	3.50
	14:11		Middle	1.5	26.70	26.70		7.98	7.98		30.84	30.84		82.1	83.3		5.62	5.63		2.60	2.63		4	
12/5/2011	21:40	Cloudy	Middle	1.5	27.00	27.00	27.03	8.05	8.05	8.04	29.32	29.32	29.32	89.1	92.8	90.5	6.06	6.25	6.11	2.38	2.99	2.89	6	5.00
	21:41		Middle	1.5	27.00	27.10		8.03	8.03		29.32	29.32		88.3	91.6		5.95	6.19		3.17	3.02		4	
14/5/2011	8:22	Rainy	Middle	1.5	24.60	24.60	24.60	7.96	7.96	7.97	31.06	31.06	31.08	81.6	81.2	81.8	5.70	5.66	5.71	2.95	3.45	3.08	4	4.00
	8:25		Middle	1.5	24.60	24.60		7.98	7.98		31.09	31.09		82.8	81.5		5.78	5.69		3.03	2.88		4	
16/5/2011	10:51	Cloudy	Middle	1.5	25.49	25.49	25.46	7.17	7.17	7.17	30.73	30.73	30.74	63.2	62.8	65.3	4.35	4.33	4.50	2.50	2.27	2.25	5	6.00
	10:52		Middle	1.5	25.43	25.43		7.17	7.17		30.74	30.74		68.9	66.2		4.75	4.56		2.14	2.10		7	
18/5/2011	9:43	Fine	Middle	2.0	24.70	24.70	24.75	7.86	7.86	7.88	31.12	31.12	31.09	75.4	74.7	75.1	5.24	5.19	5.22	3.93	4.09	3.78	5	6.00
	9:46		Middle	2.0	24.80	24.80		7.89	7.89		31.06	31.06		77.0	73.2		5.35	5.09		3.93	3.17		7	
20/5/2011	14:30	Fine	Middle	1.5	26.20	26.20	26.35	7.91	7.91	7.91	29.59	29.59	29.57	81.7	80.4	81.5	5.57	5.48	5.55	3.50	2.74	2.79	5	4.50
	14:33		Middle	1.5	26.50	26.50		7.90	7.90		29.55	29.55		82.2	81.8		5.59	5.57		2.47	2.45		4	
23/5/2011	14:07	Cloudy	Middle	1.5	25.60	25.60	25.65	7.93	7.93	7.93	28.53	28.53	28.55	86.8	86.3	85.9	6.02	5.91	5.94	2.53	2.63	2.45	3	3.50
	14:11		Middle	1.5	25.70	25.70		7.93	7.93		28.57	28.57		86.0	84.4		5.96	5.85		2.35	2.30		4	
25/5/2011	20:20	Cloudy	Middle	1.5	25.20	25.20	25.20	7.58	7.58	7.58	31.79	31.78	31.79	59.7	59.1	58.7	4.10	4.06	4.03	2.30	2.88	2.38	4	4.50
	20:21		Middle	1.5	25.19	25.19		7.58	7.58		31.79	31.79		58.0	58.0		3.98	3.98		2.23	2.11		5	

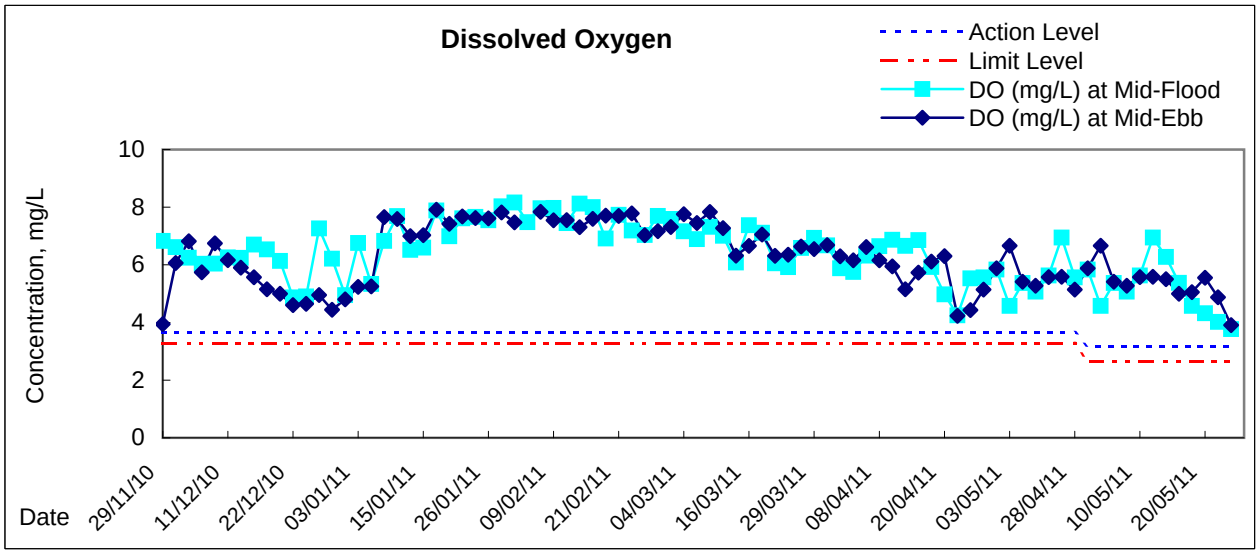
Water Monitoring Result at WSD7 - Kowloon South
Mid-Ebb Tide

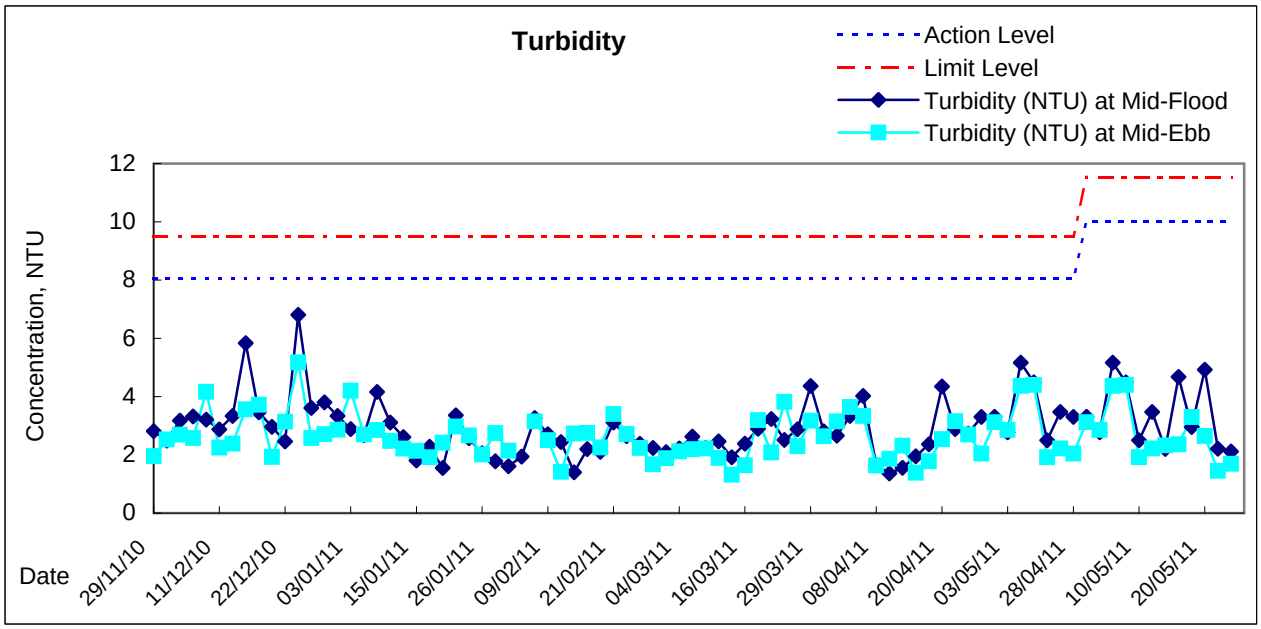
Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/4/2011	23:19	Cloudy	Middle	1.5	23.60	23.60	23.60	7.79	7.79	7.79	32.23	32.23	32.23	72.4	74.3	73.8	5.20	5.33	5.27	5.91	6.08	5.75	9	10.00
	23:20		Middle	1.5	23.60	23.60		7.79	7.79		32.23	32.23		74.5	74.0		5.30	5.23		5.68	5.31		11	
30/4/2011	8:45	Cloudy, Foggy	Middle	1.5	23.60	23.60	23.60	7.82	7.82	7.82	32.75	32.75	32.75	76.6	76.7	76.9	5.38	5.39	5.40	3.55	3.32	3.52	5	5.00
	8:46		Middle	1.5	23.60	23.60		7.82	7.82		32.75	32.75		77.0	77.3		5.41	5.43		3.51	3.68		5	
3/5/2011	14:00	Fine	Middle	1.5	25.25	25.25	25.43	6.62	6.62	6.60	31.32	31.32	31.23	100.8	100.5	100.3	6.92	6.90	6.88	4.57	4.15	4.24	11	10.00
	14:02		Middle	1.5	25.61	25.61		6.58	6.58		31.13	31.13		100.2	99.7		6.87	6.84		4.14	4.08		9	
5/5/2011	11:23	Cloudy	Middle	1.5	23.60	23.60	23.60	7.80	7.80	7.80	31.86	31.86	31.86	78.1	70.9	74.6	5.65	5.09	5.38	9.18	8.52	8.55	15	15.00
	11:24		Middle	1.5	23.60	23.60		7.80	7.80		31.86	31.86		78.7	70.7		5.72	5.05		8.36	8.13		15	
7/5/2011	11:12	Sunny	Middle	2.0	24.00	24.00	24.00	7.86	7.86	7.86	32.39	32.39	32.39	78.3	79.2	77.1	5.47	5.56	5.36	3.73	3.88	3.61	6	5.50
	11:13		Middle	2.0	24.00	24.00		7.86	7.86		32.39	32.39		75.7	75.3		5.22	5.19		3.39	3.43		5	
9/5/2011	12:55	Sunny	Middle	1.5	25.80	25.80	25.80	7.80	7.80	7.80	31.28	31.28	31.28	72.5	68.4	69.5	4.79	4.64	4.67	4.06	4.34	3.97	8	7.00
	12:56		Middle	1.5	25.80	25.80		7.80	7.80		31.28	31.28		65.2	72.0		4.42	4.83		3.73	3.74		6	
12/5/2011	17:50	Cloudy	Middle	1.5	27.80	27.80	27.83	7.99	7.99	8.00	31.17	31.17	31.17	84.4	87.9	85.6	6.12	6.30	6.18	1.85	1.42	1.71	3	2.50
	17:51		Middle	1.5	27.80	27.90		8.01	8.01		31.17	31.17		87.4	82.6		6.33	5.96		2.17	1.41		2	
14/5/2011	7:55	Rainy	Middle	1.5	24.90	24.90	24.90	7.89	7.89	7.88	30.51	30.51	30.52	72.7	71.1	72.5	5.06	4.95	5.05	2.04	1.81	1.89	3	4.00
	7:58		Middle	1.5	24.90	24.90		7.86	7.86		30.53	30.53		73.2	73.0		5.10	5.08		1.98	1.74		5	
16/5/2011	9:20	Cloudy	Middle	1.5	25.05	25.05	25.06	7.11	7.11	7.11	31.08	31.08	31.08	65.4	69.4	69.5	4.68	4.80	4.85	2.33	2.45	2.53	5	5.00
	9:21		Middle	1.5	25.06	25.06		7.11	7.11		31.08	31.08		71.1	72.0		4.92	4.98		2.50	2.85		5	
18/5/2011	9:20	Fine	Middle	1.5	24.60	24.60	24.60	7.71	7.71	7.73	31.41	31.41	31.43	67.2	66.1	67.1	4.67	4.60	4.66	3.95	3.58	3.71	6	5.50
	9:22		Middle	1.5	24.60	24.60		7.74	7.74		31.44	31.44		68.4	66.5		4.76	4.62		3.56	3.74		5	
20/5/2011	10:55	Fine	Middle	1.5	26.20	26.20	26.30	7.76	7.76	7.78	31.05	31.05	31.06	73.8	72.8	73.7	4.98	4.91	4.97	3.37	3.49	3.33	7	7.00
	10:58		Middle	1.5	26.40	26.40		7.79	7.79		31.06	31.06		74.6	73.6		5.03	4.96		3.21	3.26		7	
23/5/2011	14:57	Cloudy	Middle	1.5	25.80	25.80	25.83	7.78	7.78	7.79	29.53	29.53	29.51	67.0	65.8	67.9	4.61	4.52	4.66	8.32	8.46	8.26	14	14.00
	15:00		Middle	1.5	25.80	25.90		7.79	7.79		29.54	29.44		70.0	68.6		4.81	4.71		8.25	8.01		14	
25/5/2011	16:35	Cloudy	Middle	2.0	25.18	25.19	25.21	7.34	7.34	7.34	31.60	31.60	31.60	62.4	56.7	59.5	4.29	3.90	4.10	2.75	2.63	2.71	7	6.00
	16:36		Middle	2.0	25.23	25.23		7.34	7.34		31.60	31.60		59.7	59.0		4.11	4.10		2.54	2.92		5	

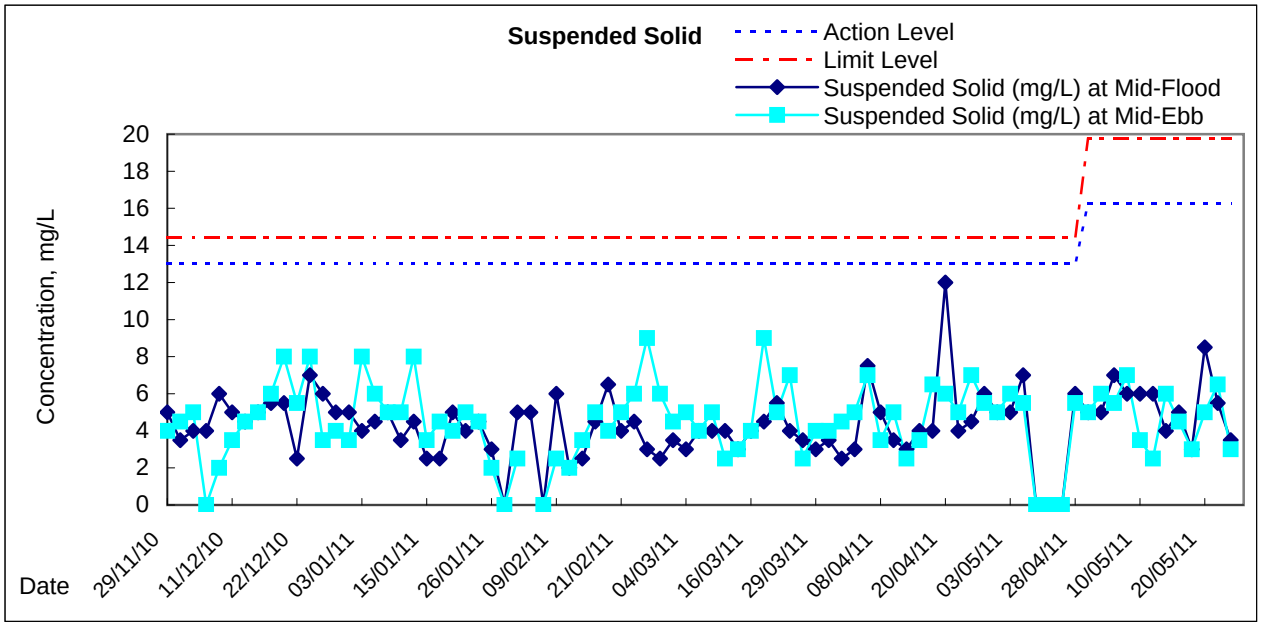
Water Monitoring Result at C3 - HKCEC Phase I (Daily Monitoring Results from 17 to 27 May 2011)

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)		Remarks
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average	
17/5/2011	14:10	Cloudy	Middle	2.0	24.50	24.50	24.50	7.97	7.97	7.98	31.60	31.60	31.60	84.2	83.2	82.78	5.86	5.79	5.76	11.2	10.9	11.00	14	13.00	Repeated measurement: 11.28NTU; Outside silt screen: 9.94NTU
	14:12		Middle	2.0	24.50	24.50		7.98	7.98		31.60	31.60		82.3	81.4		5.72	5.66		11.1	10.8		12		
19/5/2011	10:27	Fine	Middle	2.0	24.70	24.70	24.75	7.95	7.95	7.95	31.40	31.40	31.45	77.2	76.3	76.43	5.36	5.32	5.31	11.90	12.30	**11.93**	14	13.50	Repeated measurement: 8.58NTU; Outside silt screen: 37.1NTU
	10:30		Middle	2.0	24.80	24.80		7.94	7.94		31.50	31.50		76.2	76.0		5.29	5.27		12.20	11.30		13		
21/5/2011	10:05	Cloudy	Middle	2.0	25.00	25.00	25.05	7.85	7.86	7.86	31.10	31.10	31.15	82.6	82.1	81.78	5.67	5.61	5.60	3.60	3.89	3.77	16	14.50	Outside silt screen: 3.87NTU
	10:08		Middle	2.0	25.10	25.10		7.86	7.86		31.20	31.20		81.3	81.1		5.58	5.55		4.01	3.57		13		
24/5/2011	10:30	Cloudy	Middle	2.0	25.10	25.10	25.05	7.90	7.90	7.91	30.60	30.60	30.55	79.3	79.0	78.85	5.51	5.49	5.48	2.99	3.11	3.11	5	4.00	Outside silt screen: 3.81NTU
	10:33		Middle	2.0	25.00	25.00		7.91	7.91		30.50	30.50		78.6	78.5		5.46	5.45		3.14	3.19		3		
26/5/2011	15:30	Sunny	Middle	2.0	25.20	25.20	25.15	7.96	7.96	7.97	32.40	32.40	32.35	86.3	85.6	85.63	5.88	5.84	5.84	7.60	6.79	7.02	7	8.00	Repeated measurement: 6.59NTU; Outside silt screen: 4.41NTU
	15:33		Middle	2.0	25.10	25.10		7.98	7.98		32.30	32.30		85.4	85.2		5.84	5.81		6.72	6.95		9		
27/5/2011	9:54	Sunny	Middle	2.5	25.20	25.20	25.15	7.94	7.94	7.95	32.40	32.40	32.45	77.6	77.1	76.73	5.30	5.25	5.24	12.90	13.50	**13.40**	20	**19.50**	Repeated measurement: 13.9NTU; Outside silt screen: 3.78NTU
	9:57		Middle	2.5	25.10	25.10		7.95	7.95		32.50	32.50		76.1	76.1		5.22	5.20		13.90	13.30		19		

Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

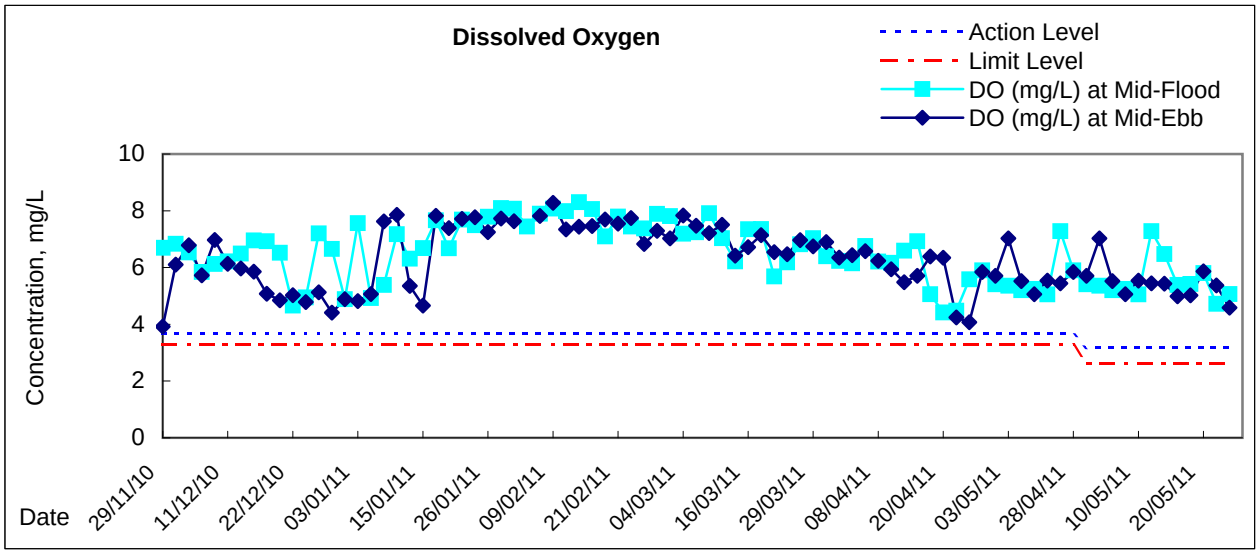


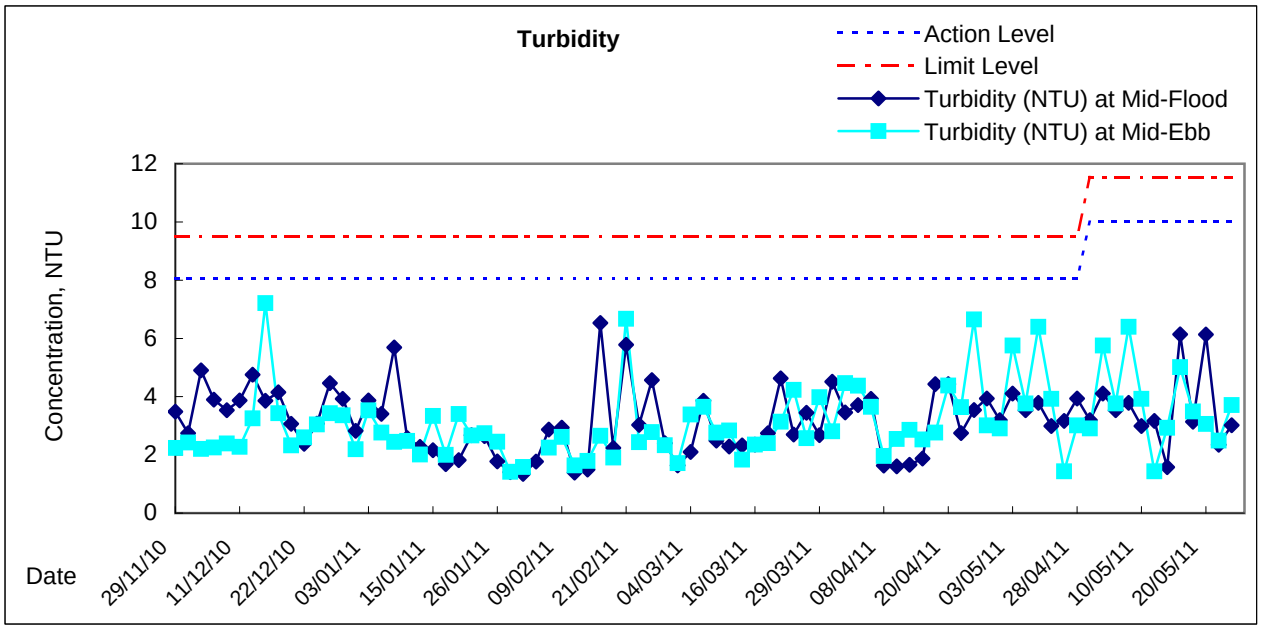


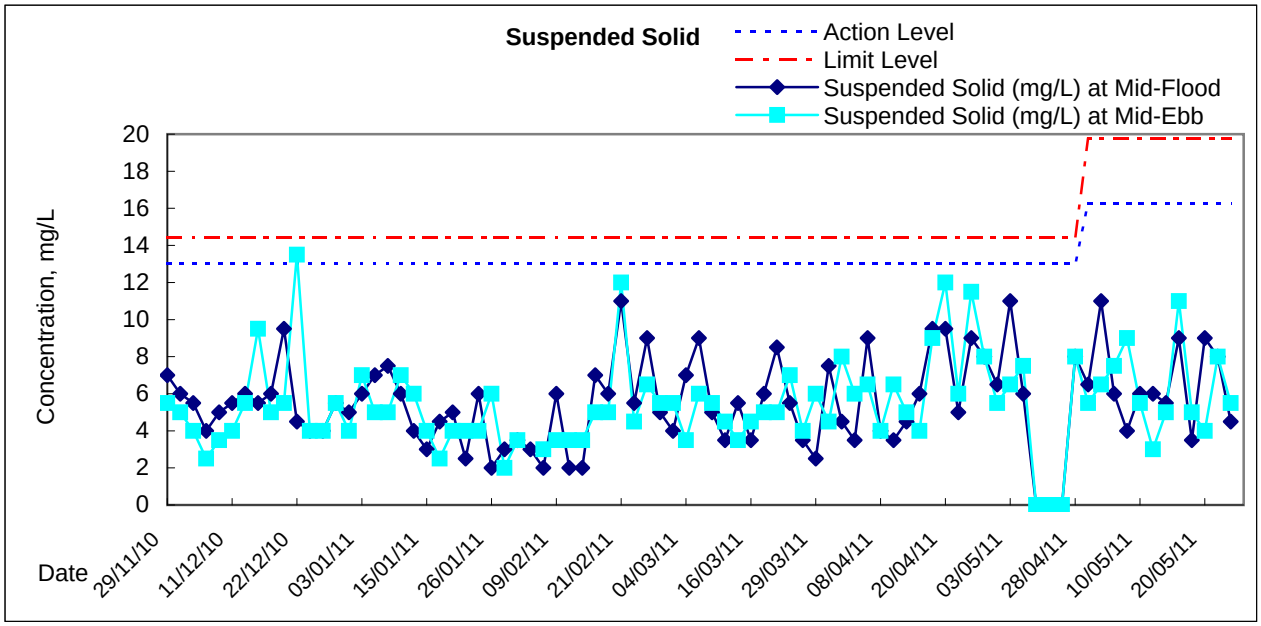


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD10 - Cha Kwo Ling

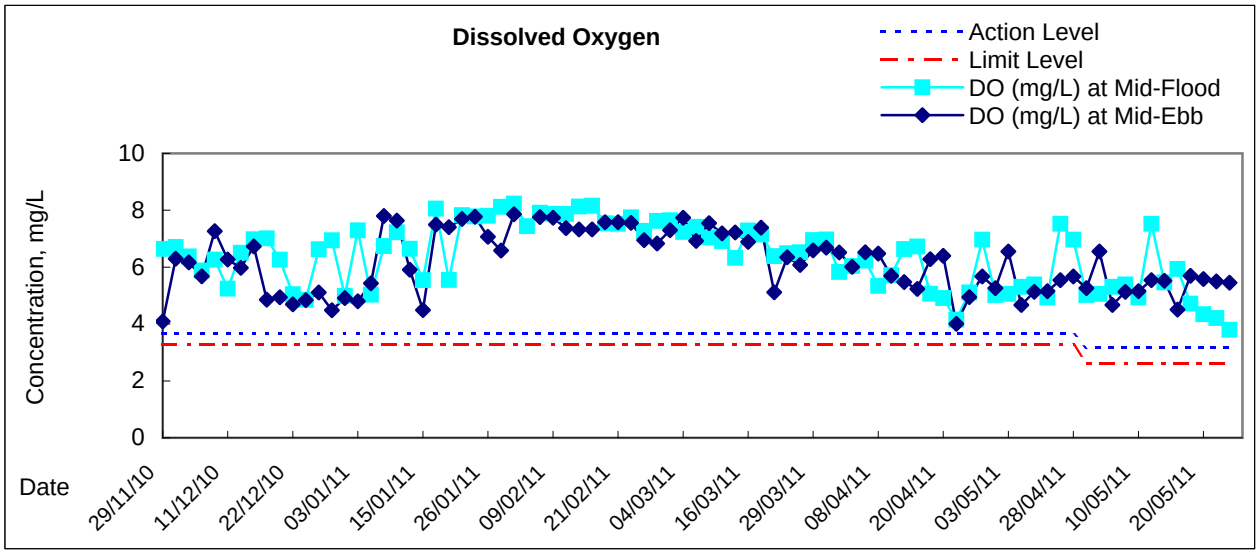


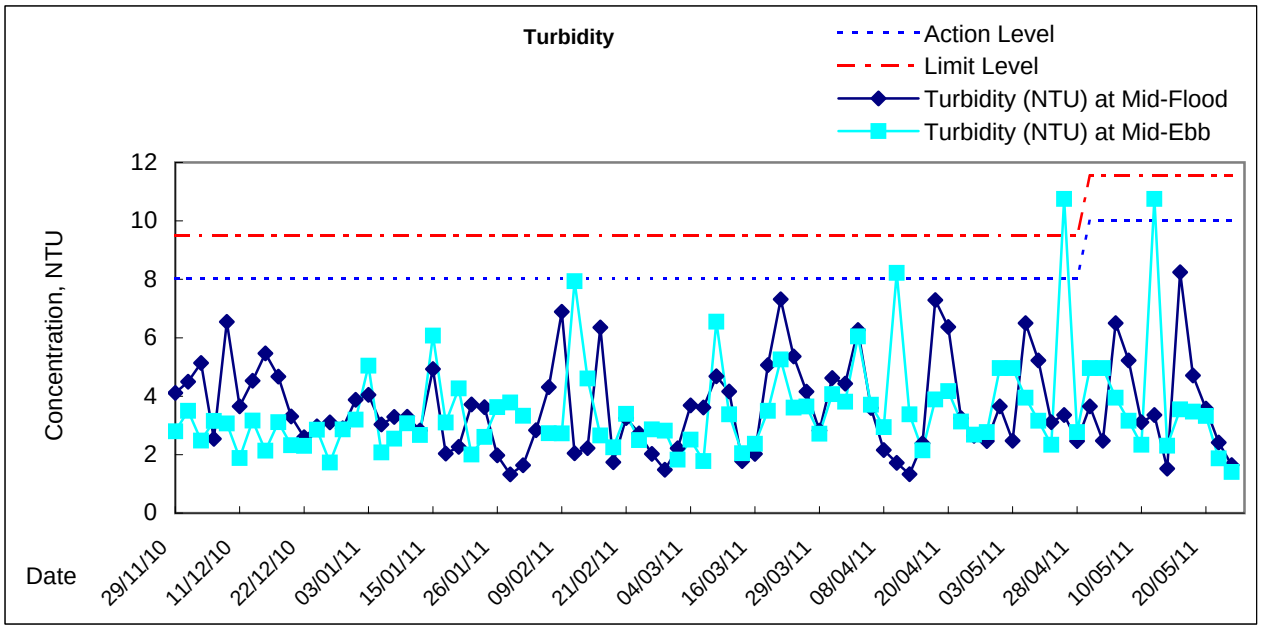


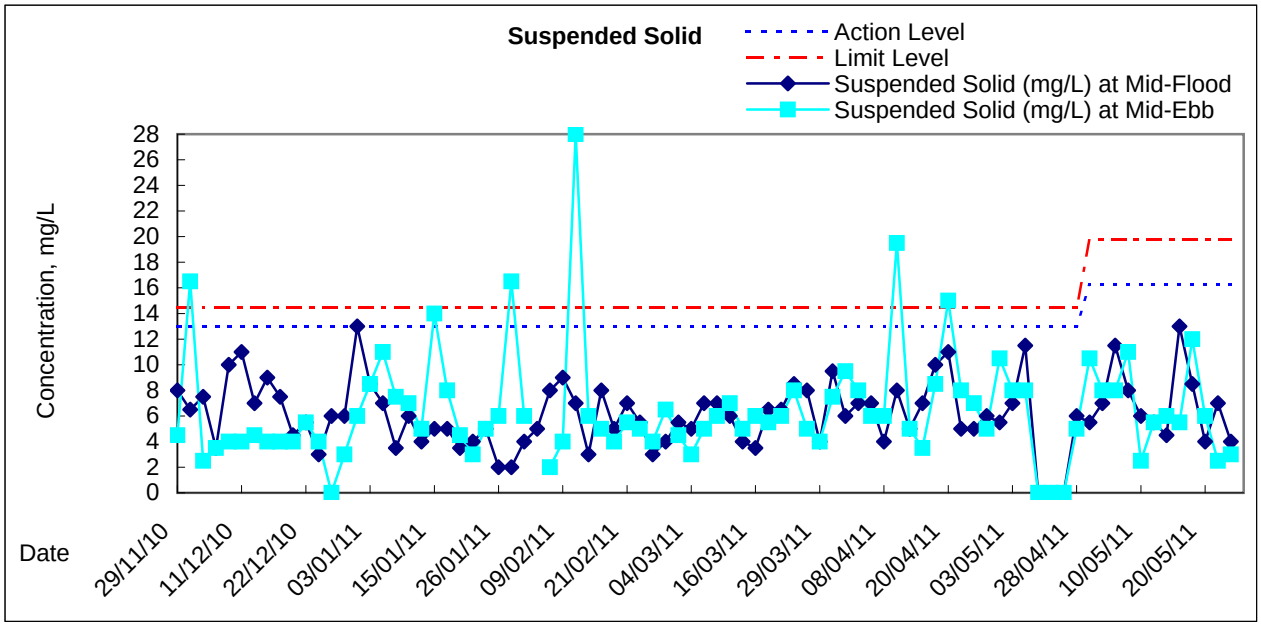


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD15 - Sai Wan Ho

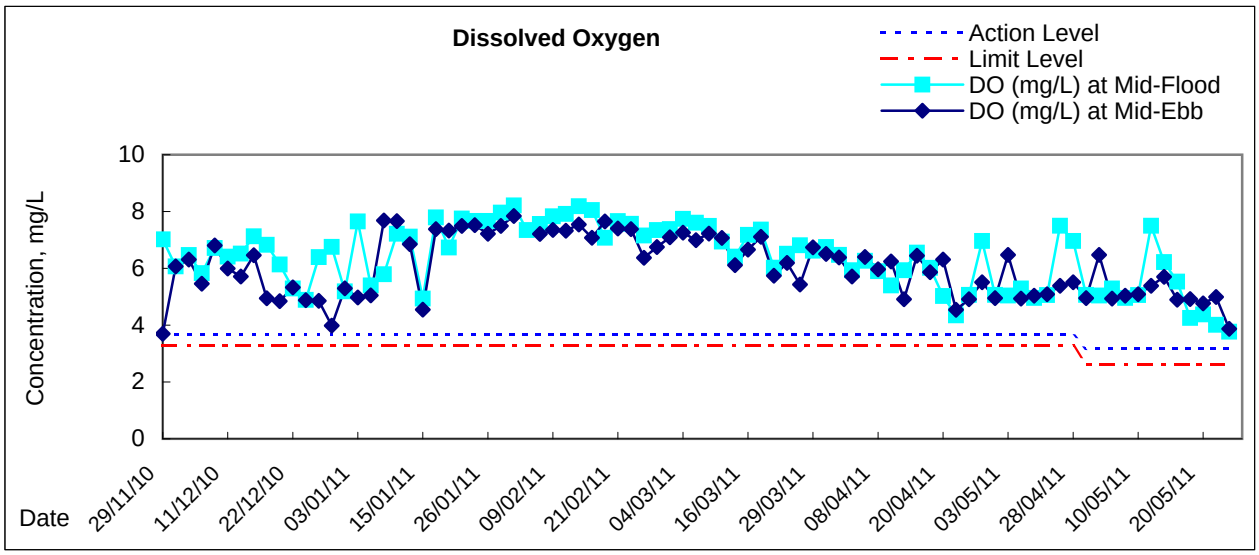


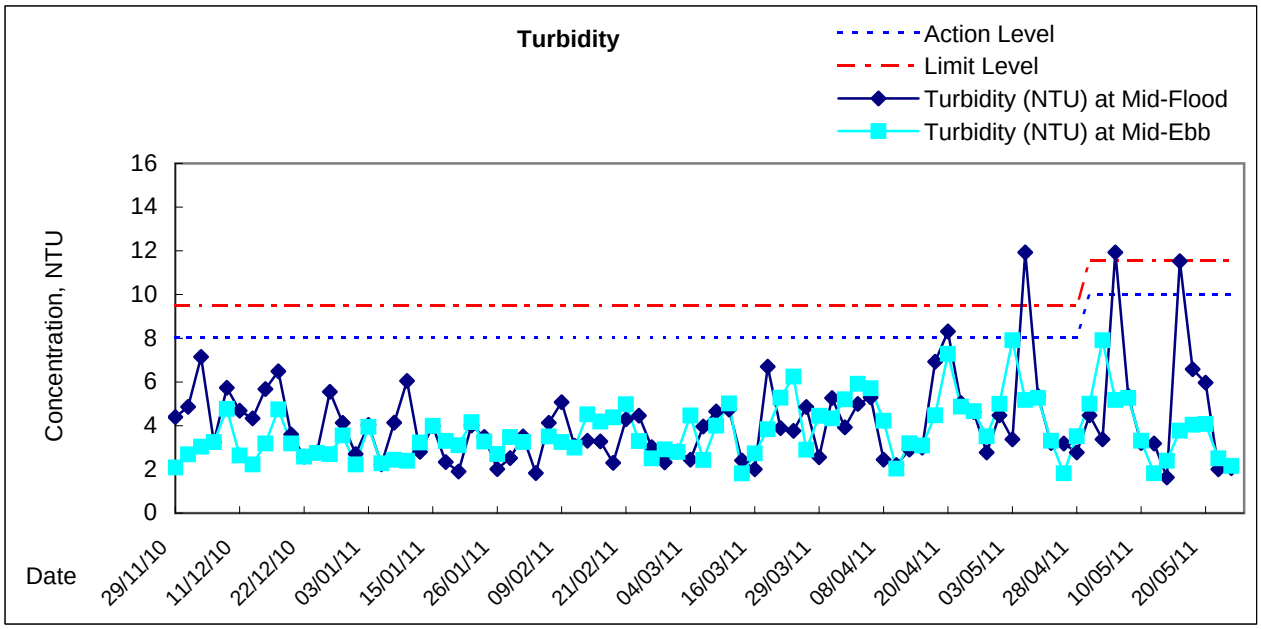


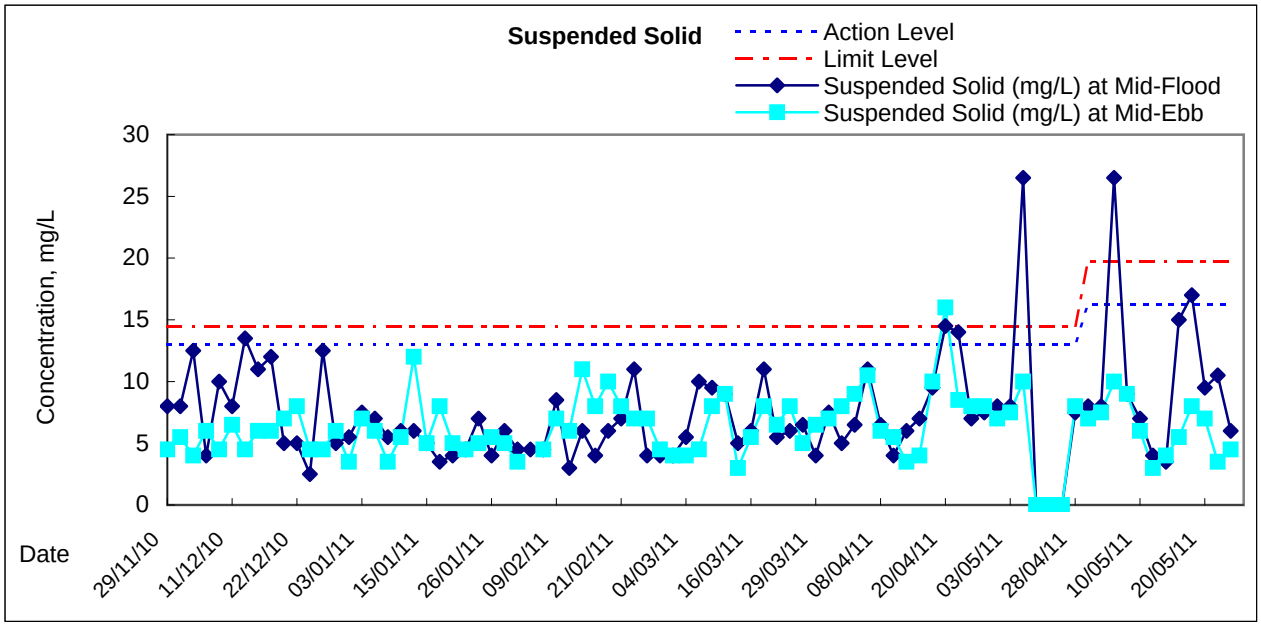


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

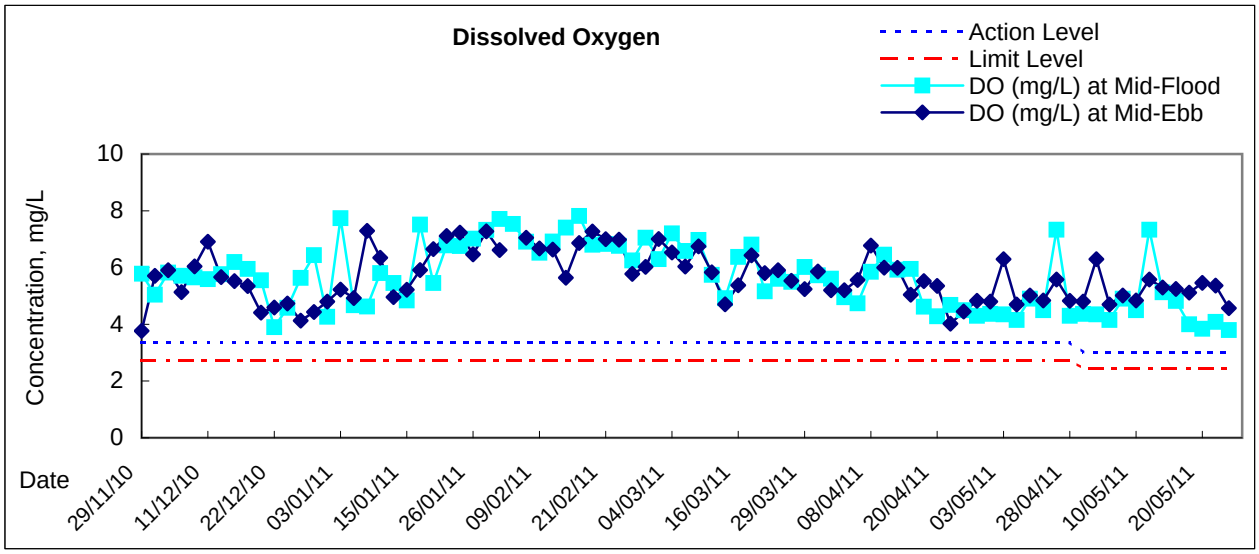


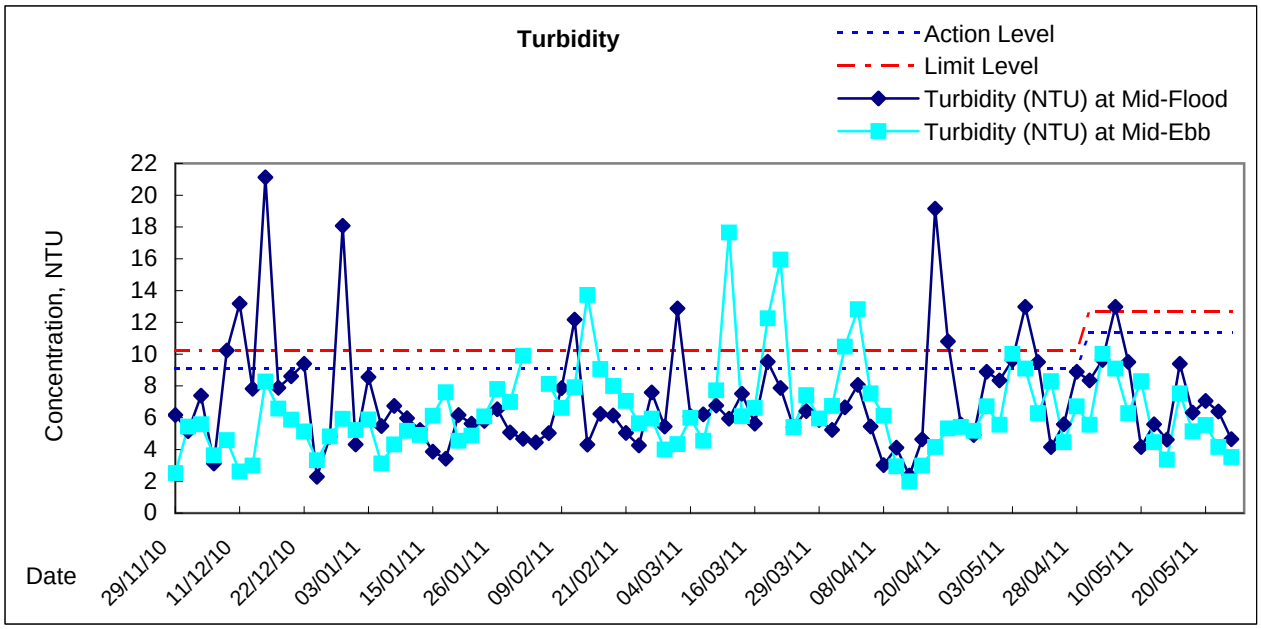


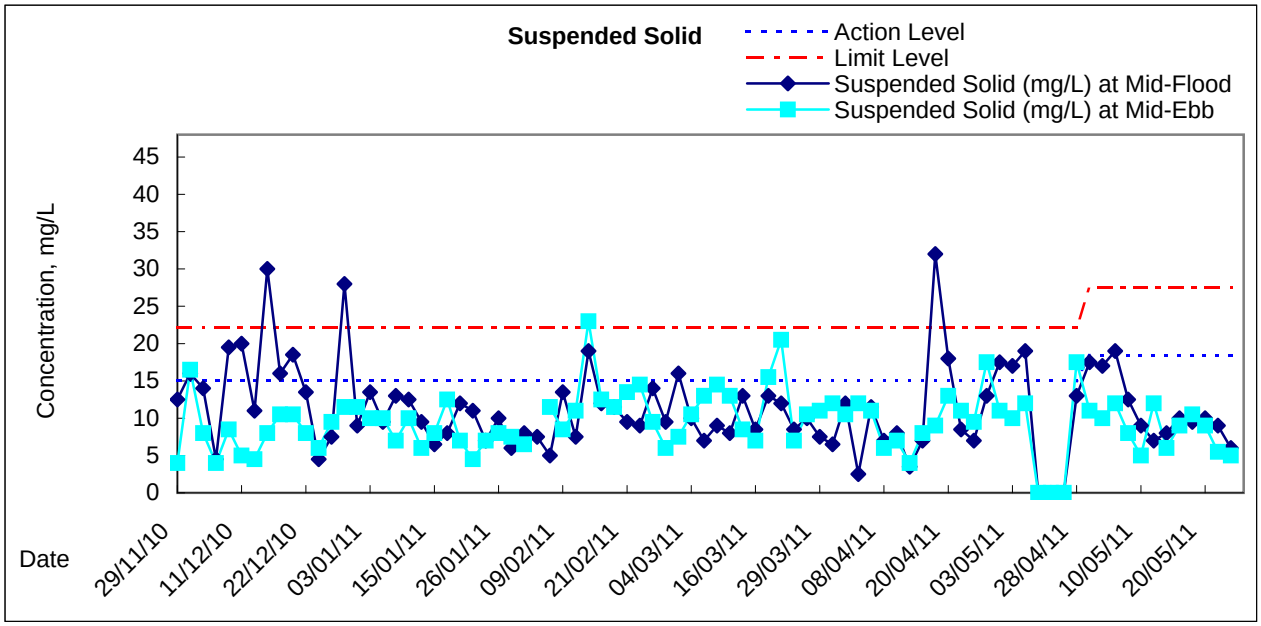


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of C8 - City Garden

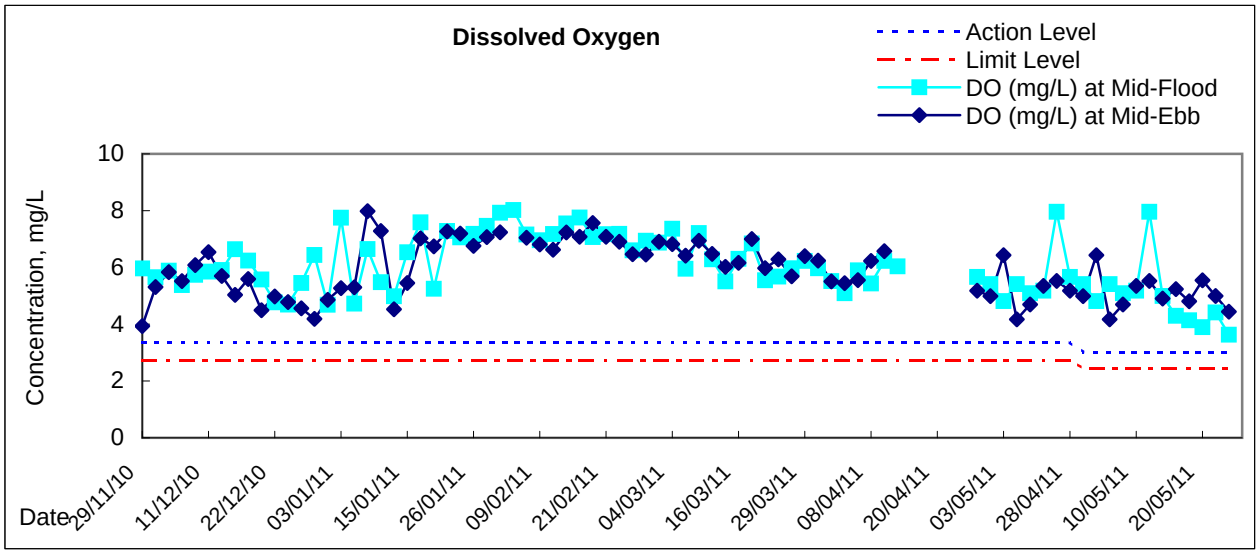


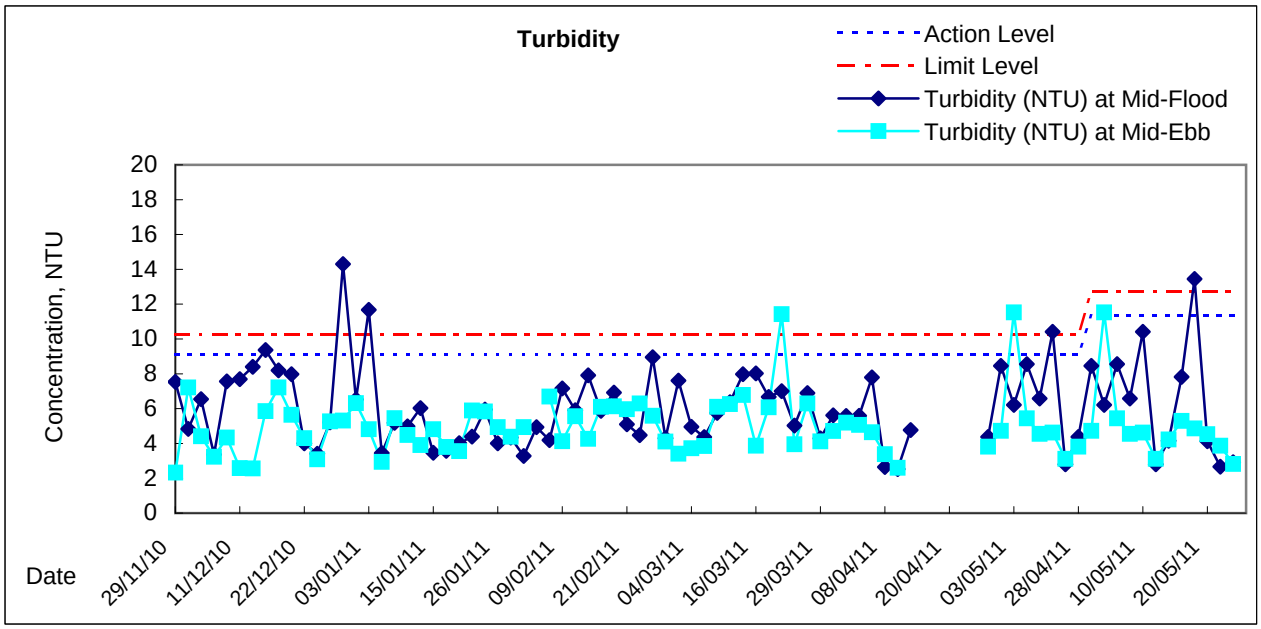


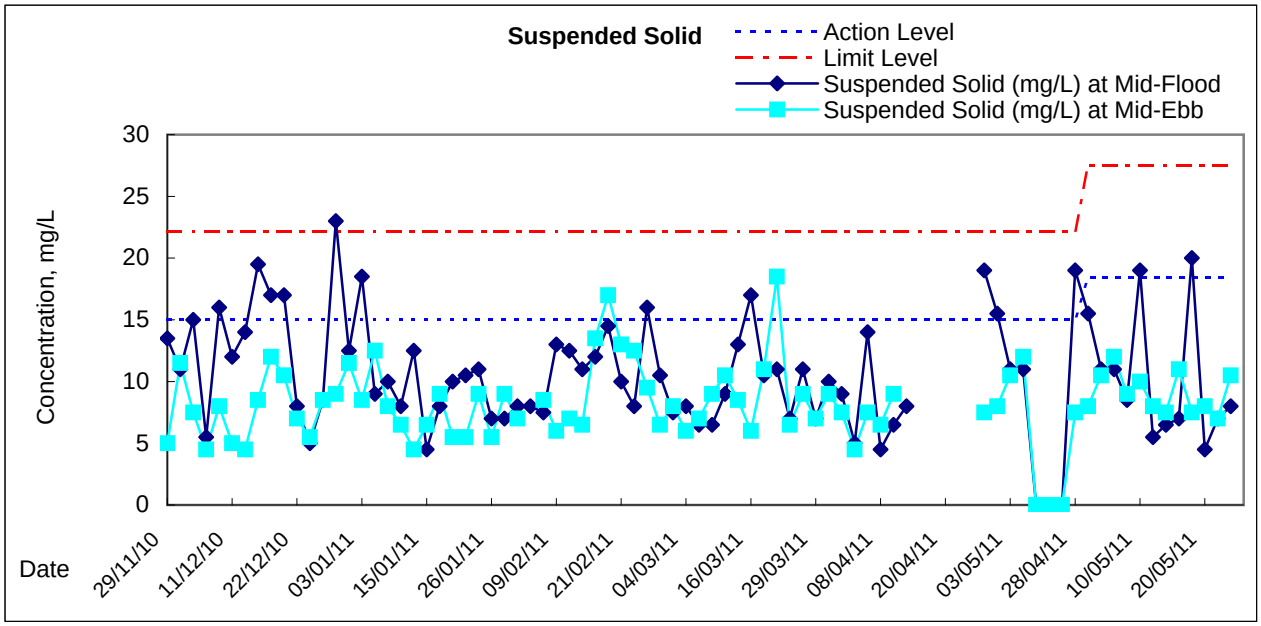


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of C9 - Provident Centre

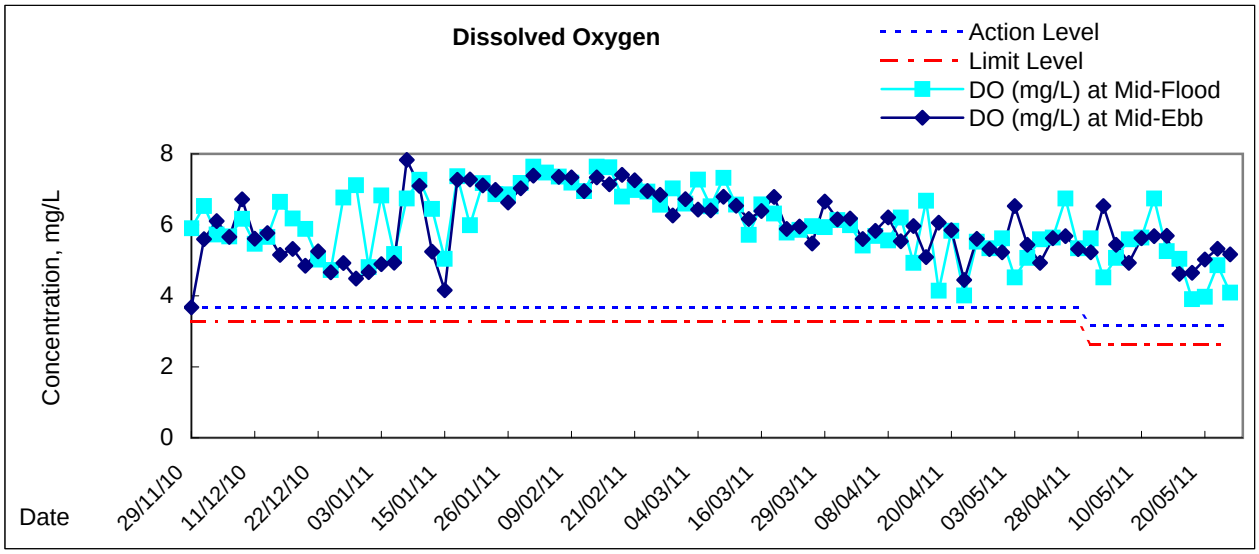


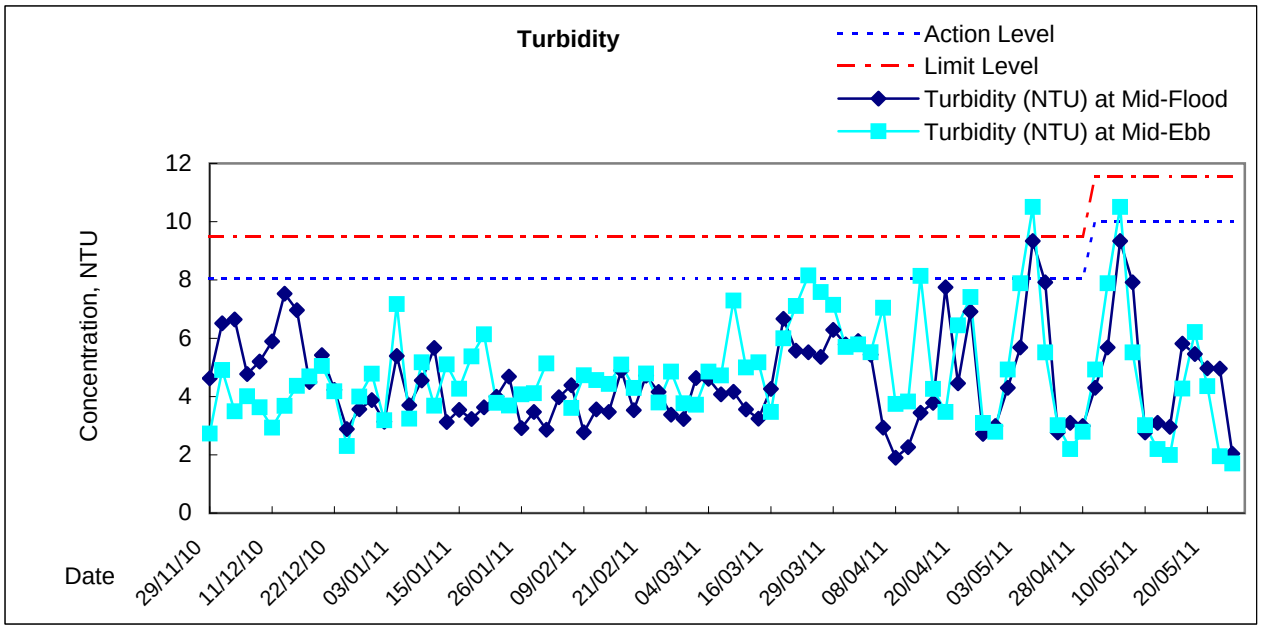


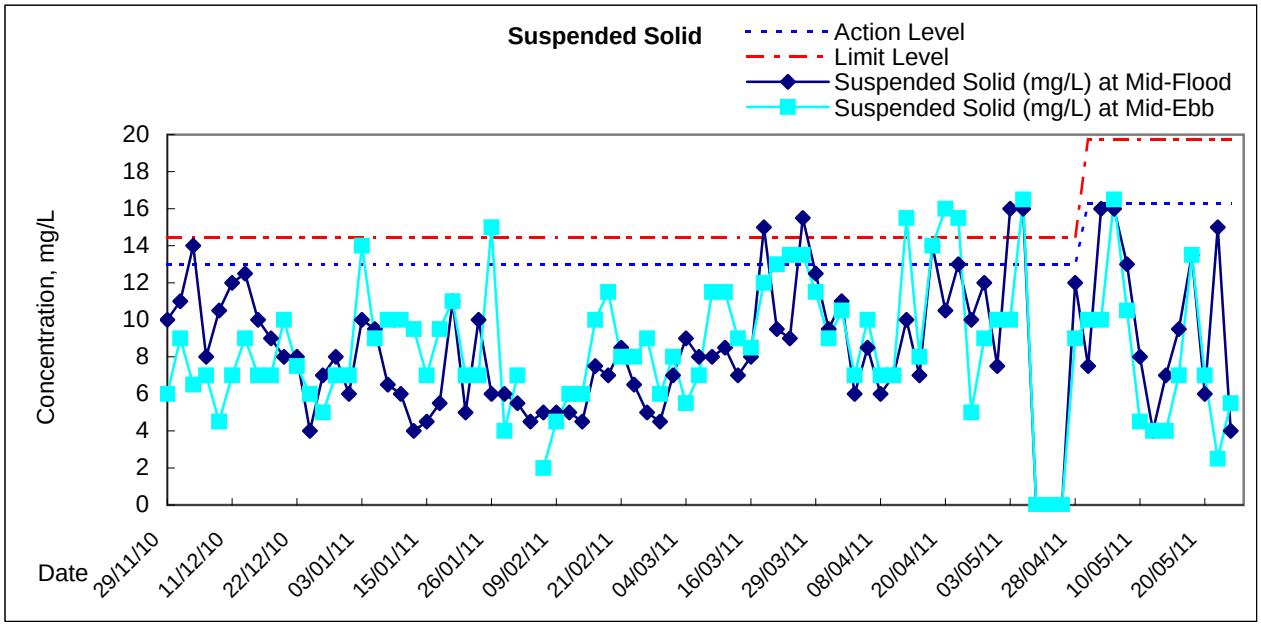


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

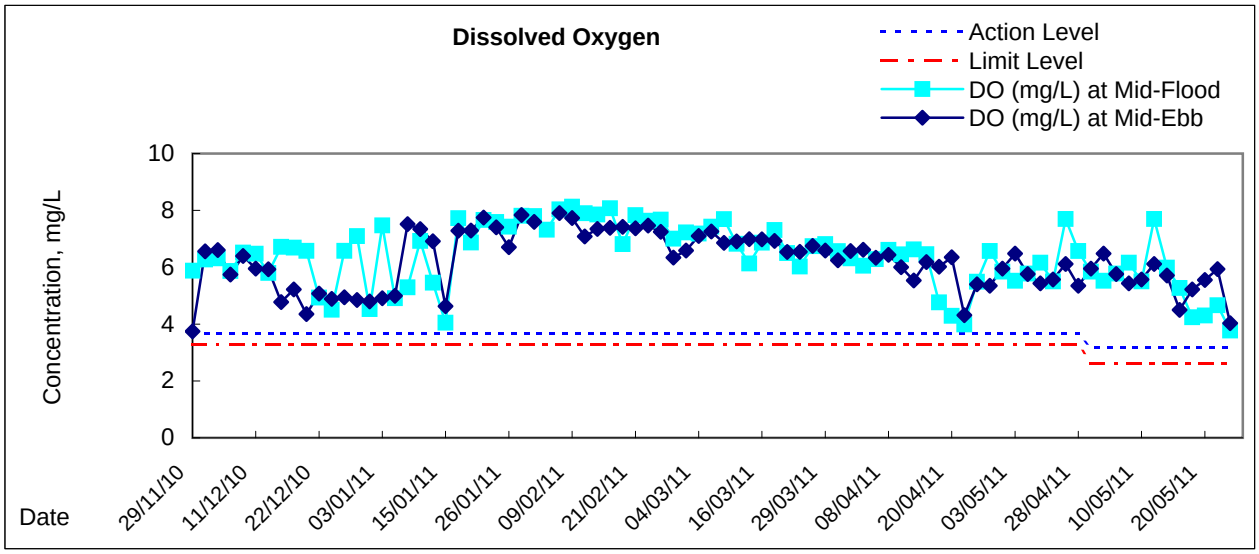


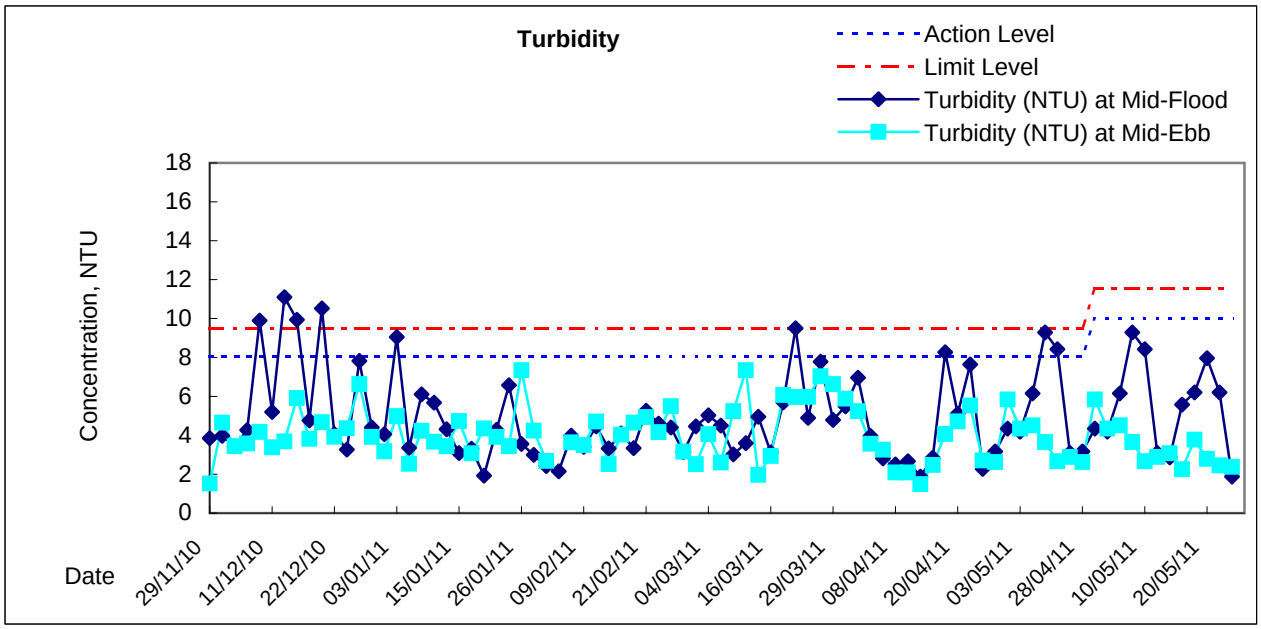


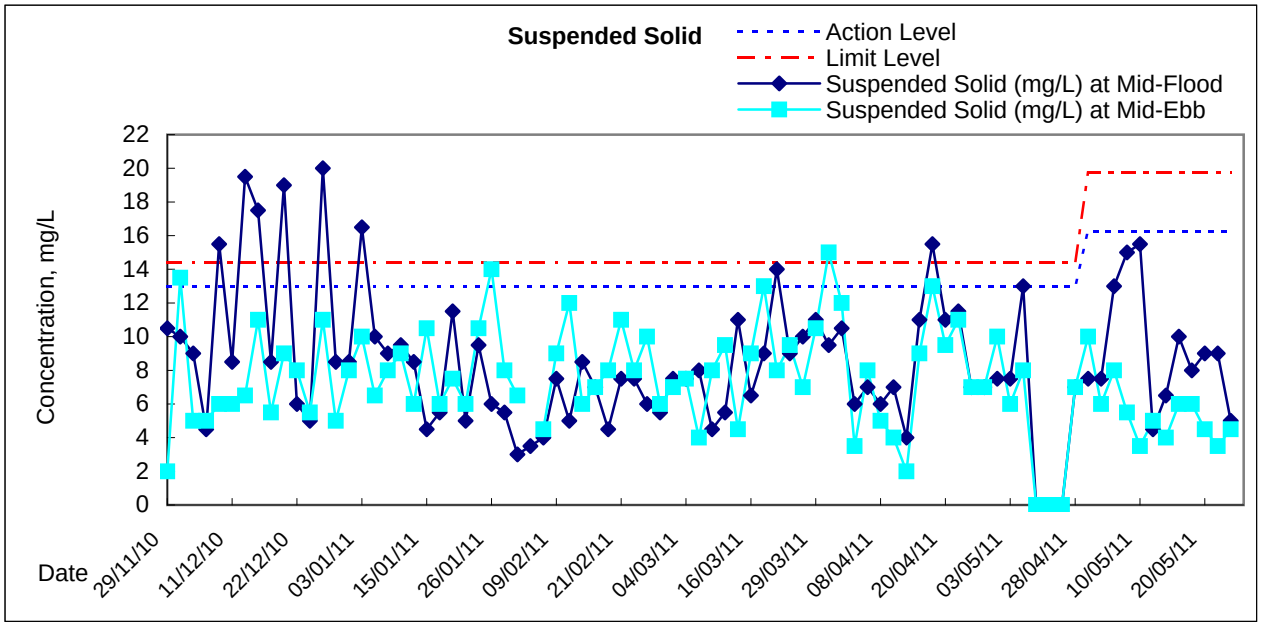


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD20 - Kennedy Town

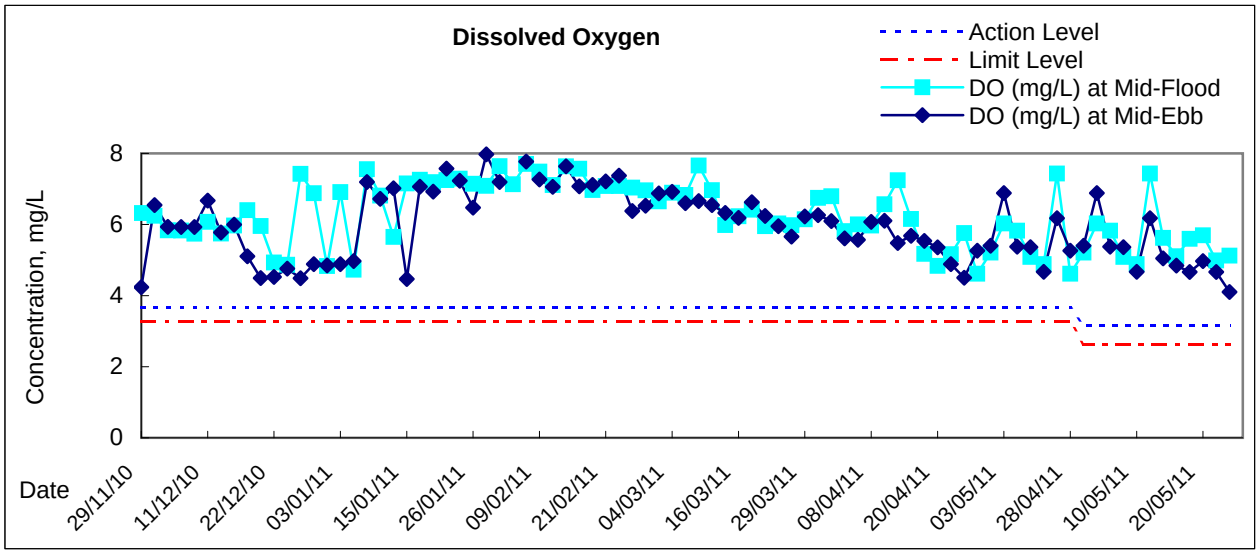


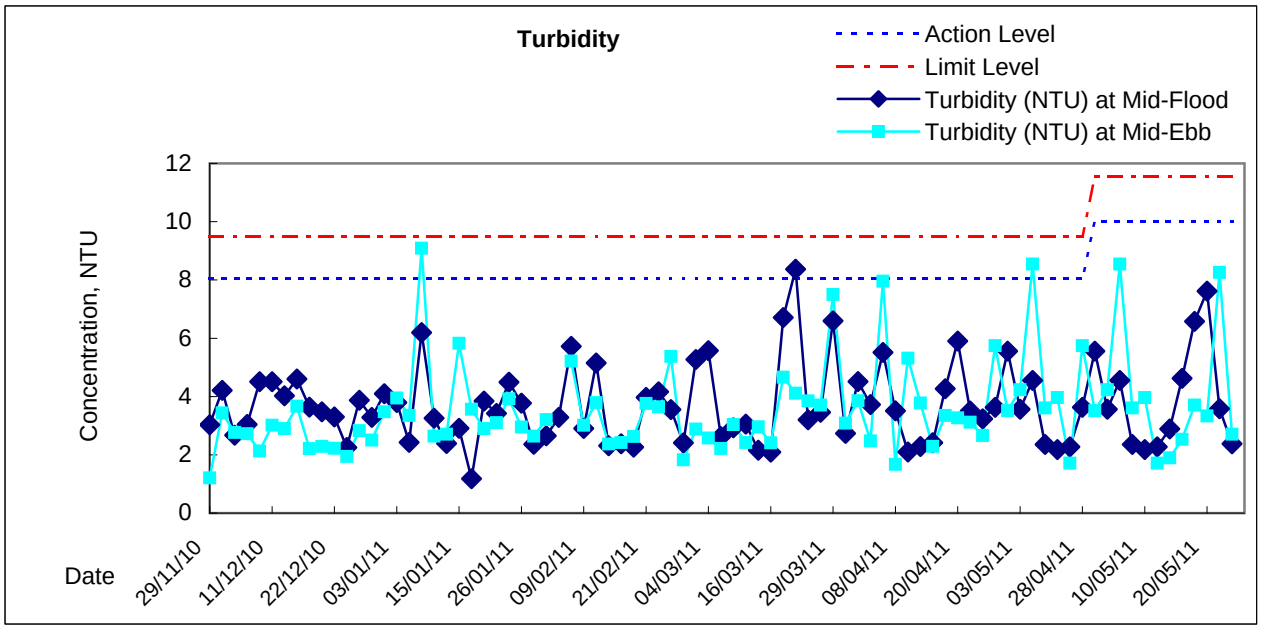


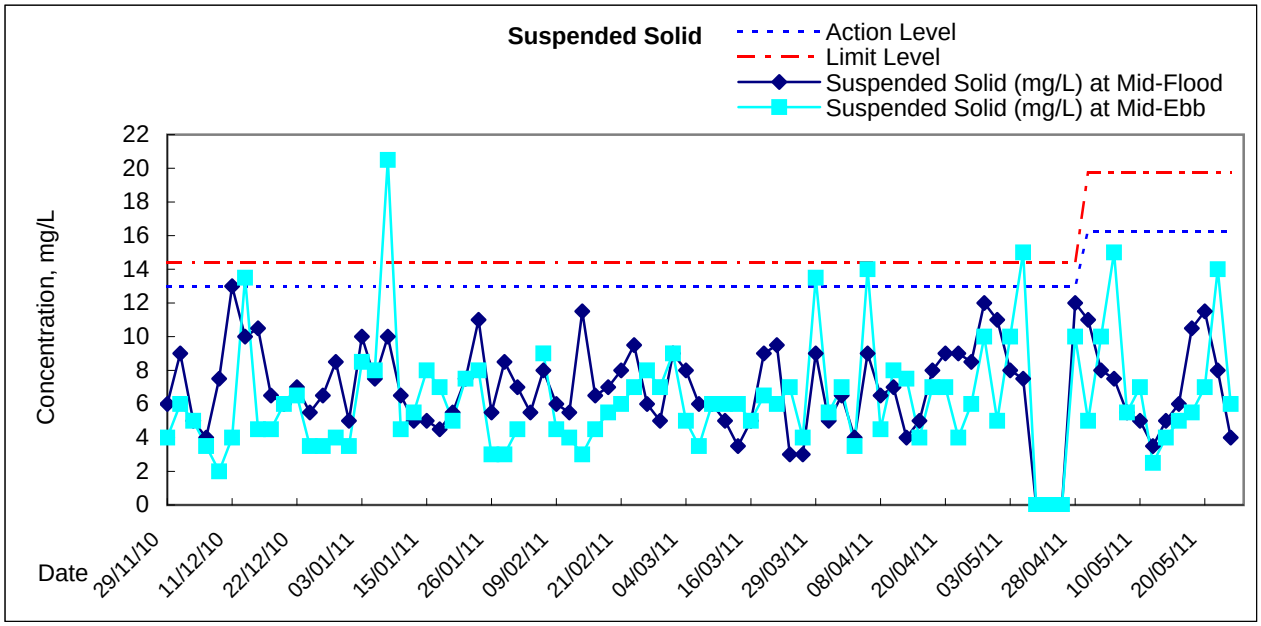


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD7 - Kowloon South

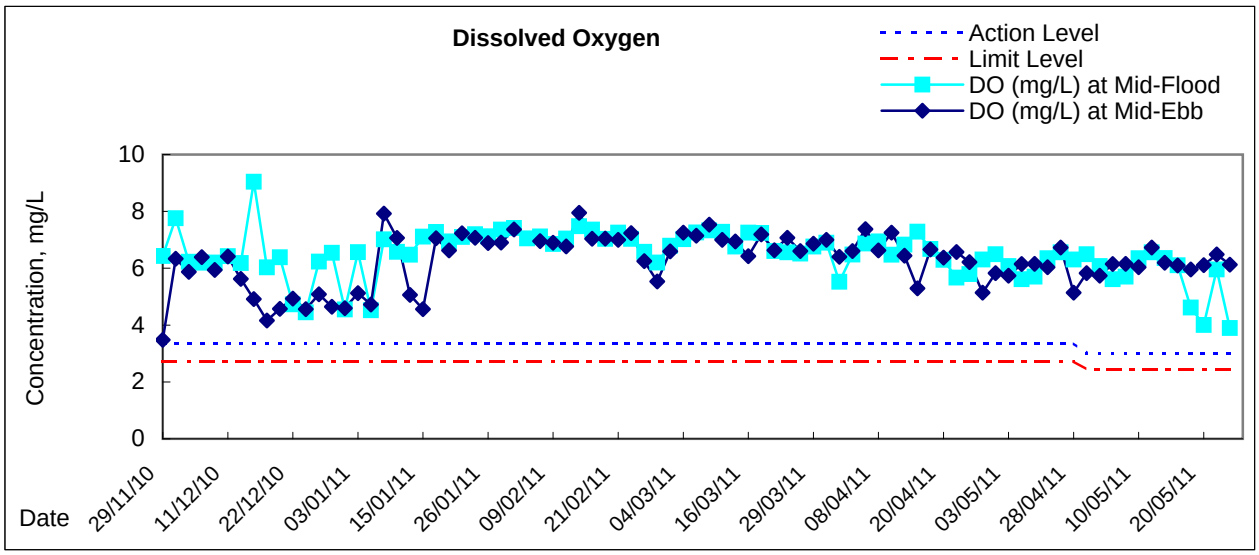


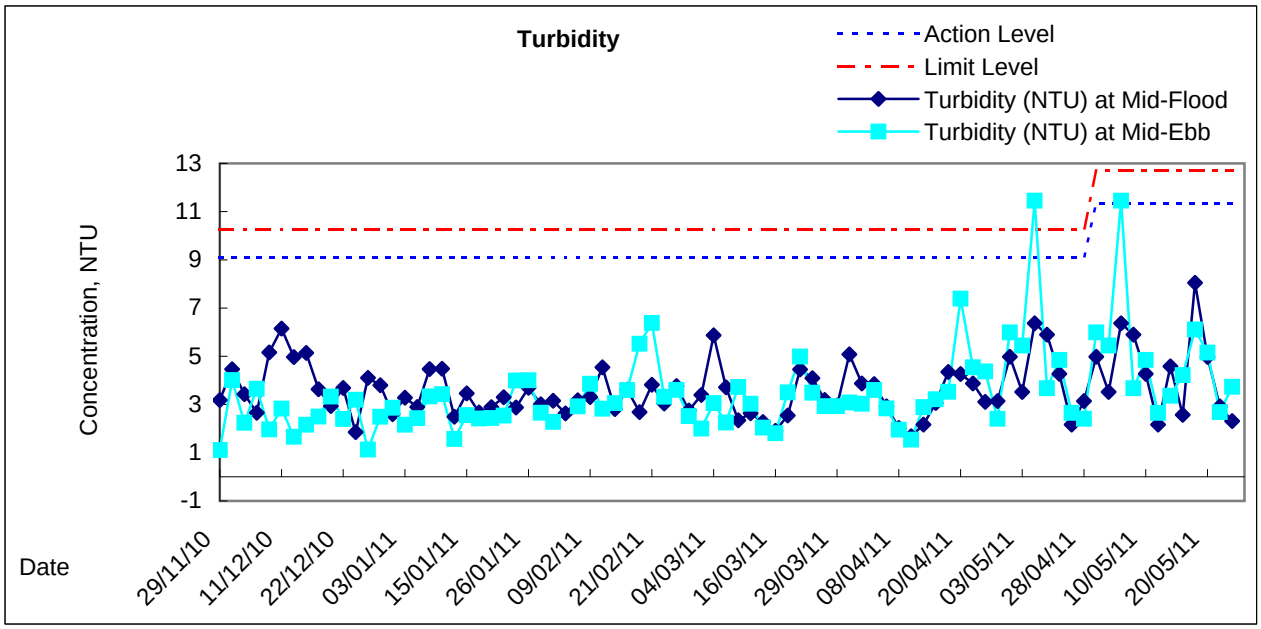


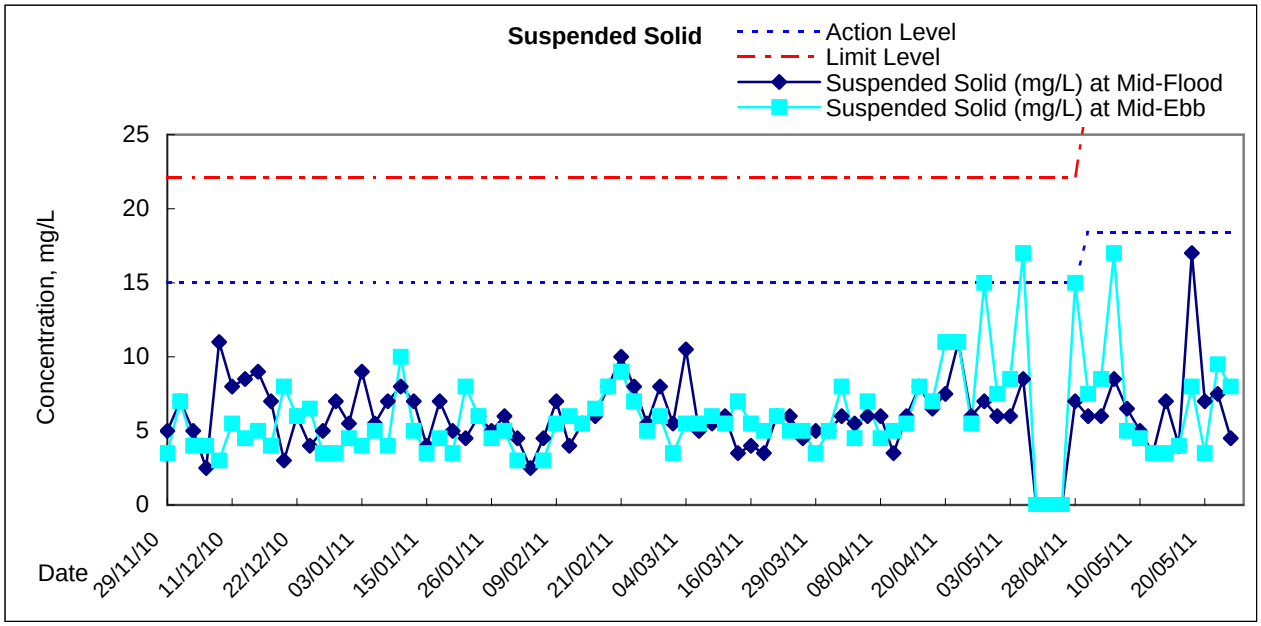


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of C1 - HKCEC

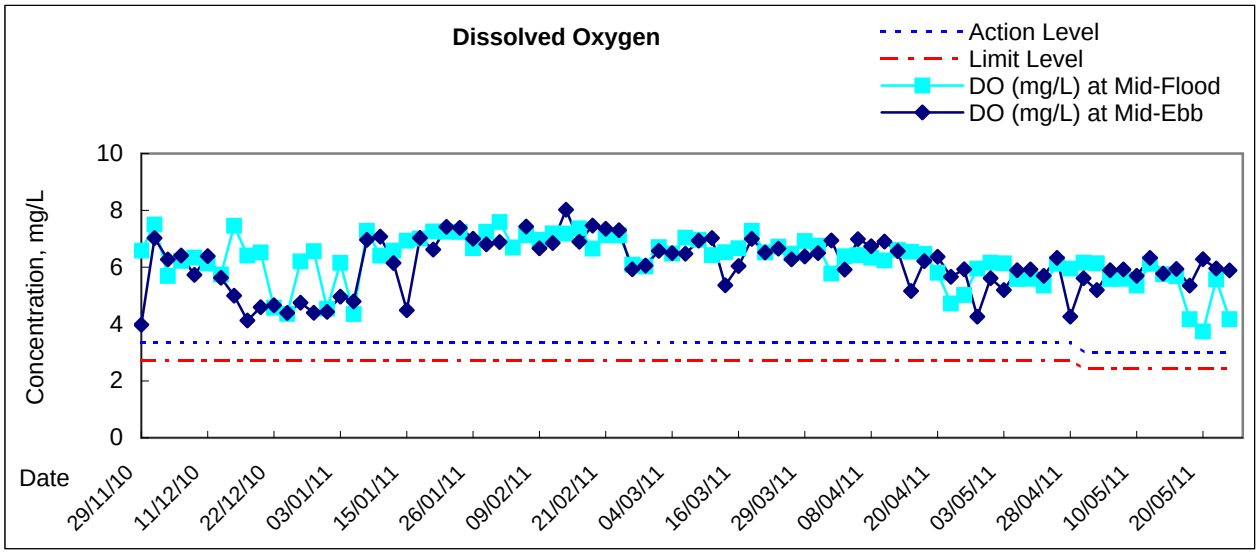


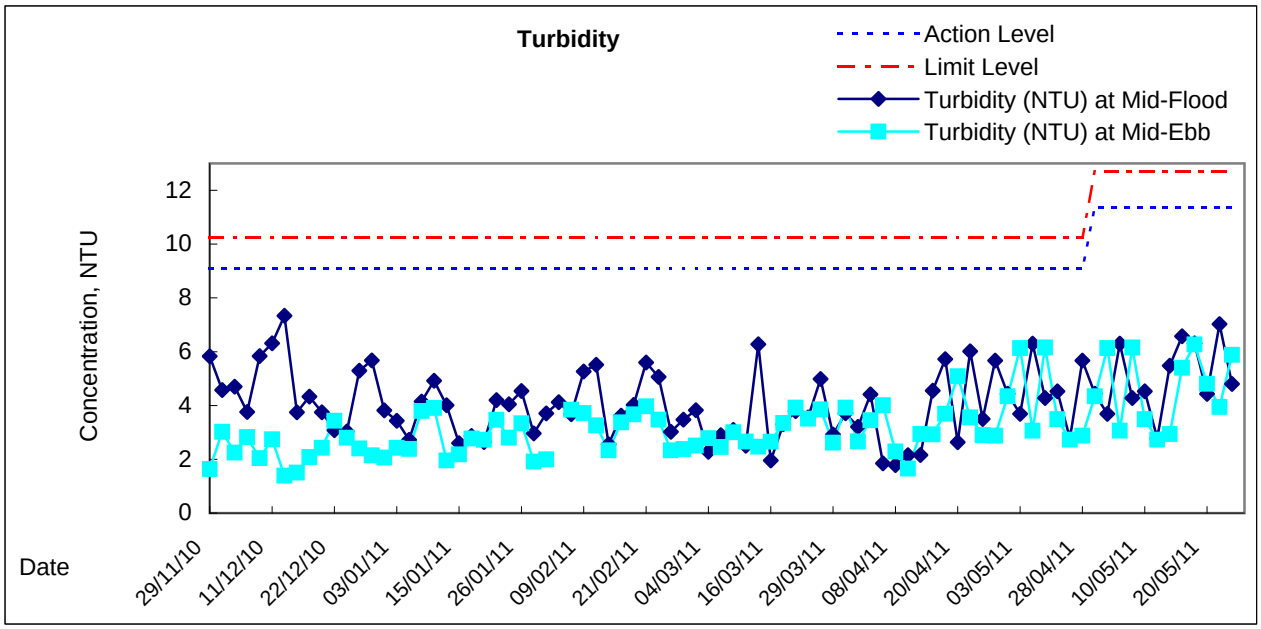


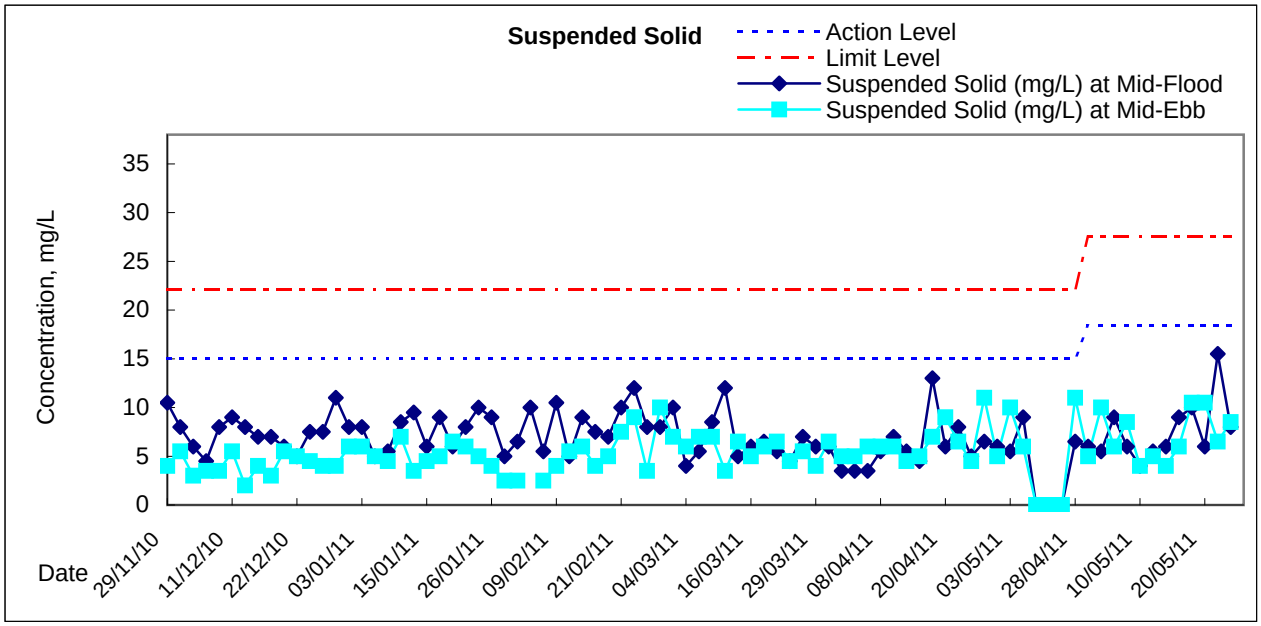


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

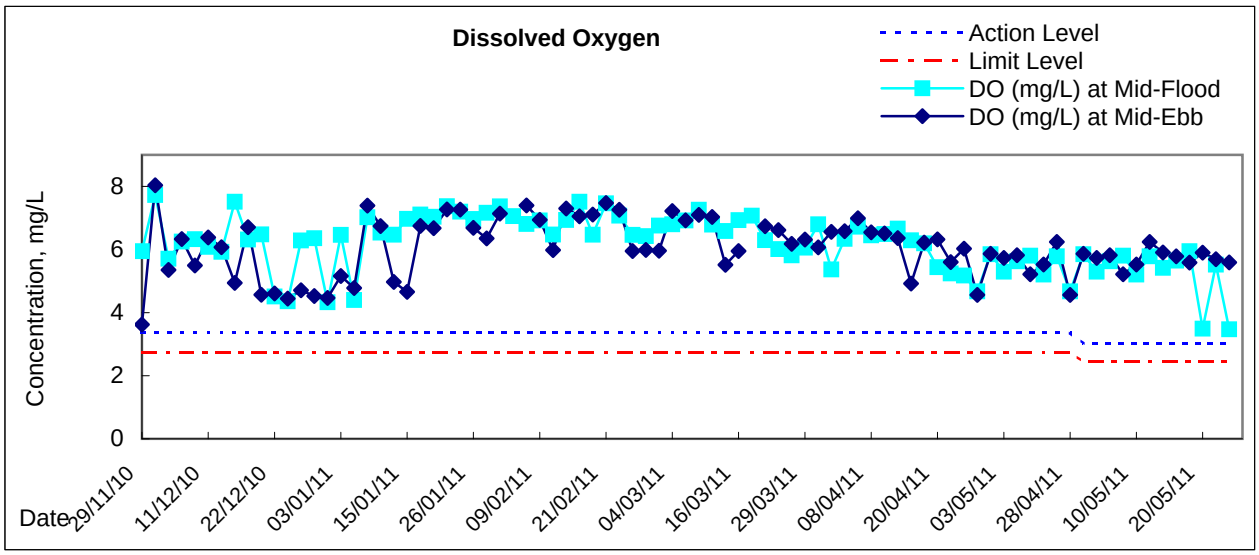


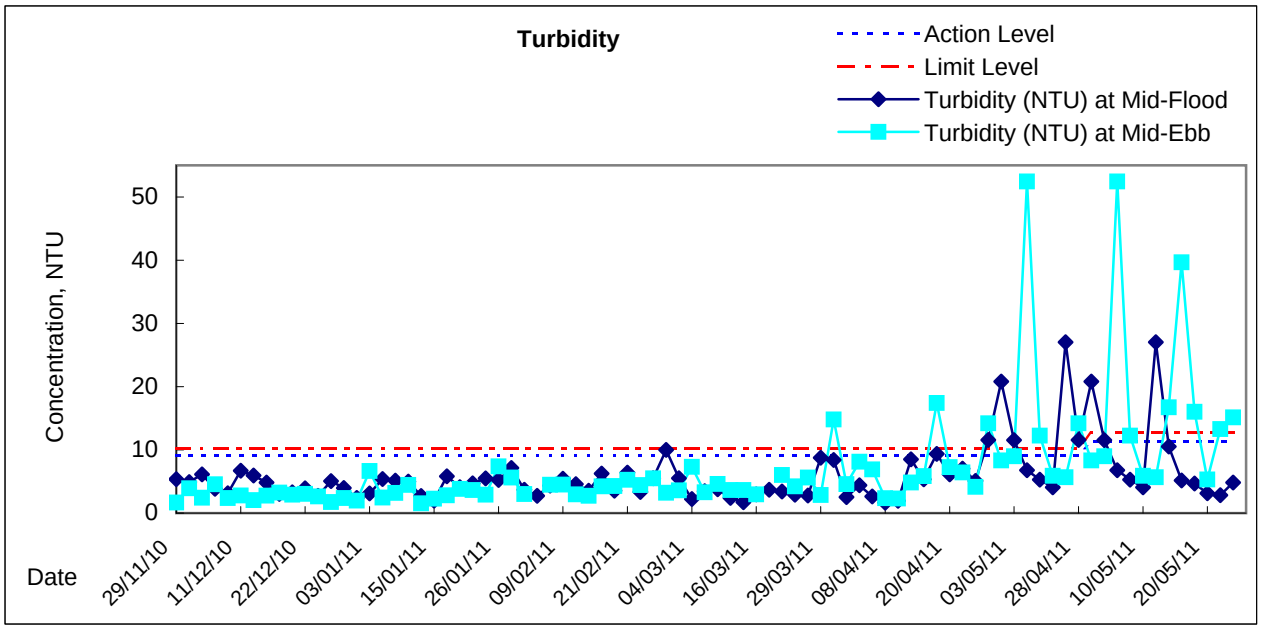


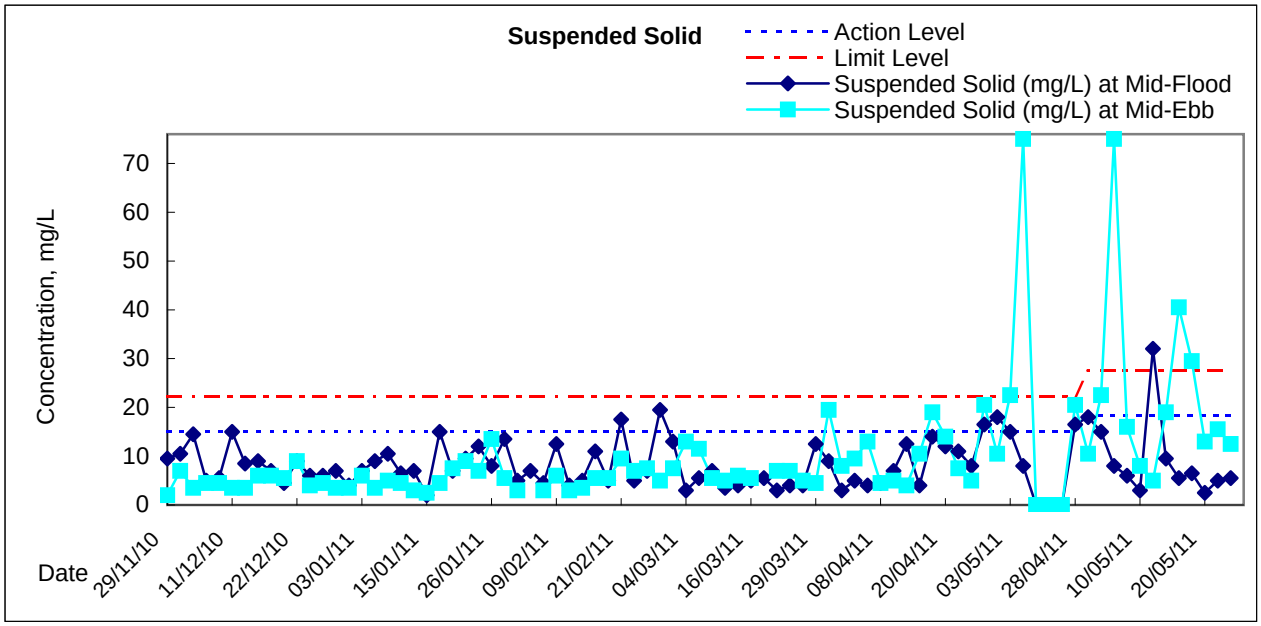


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

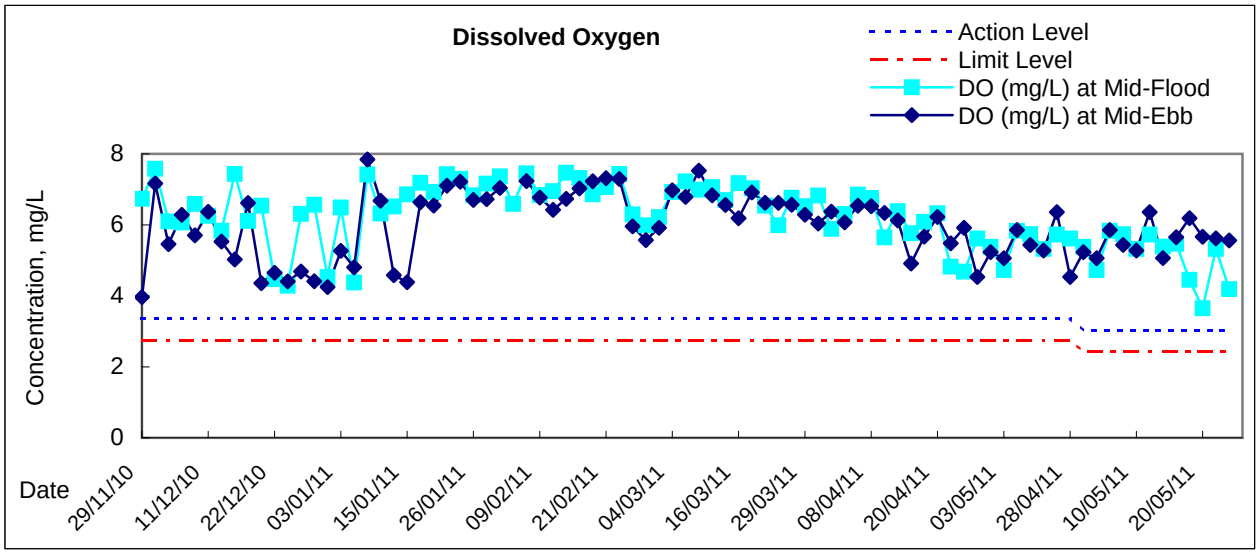


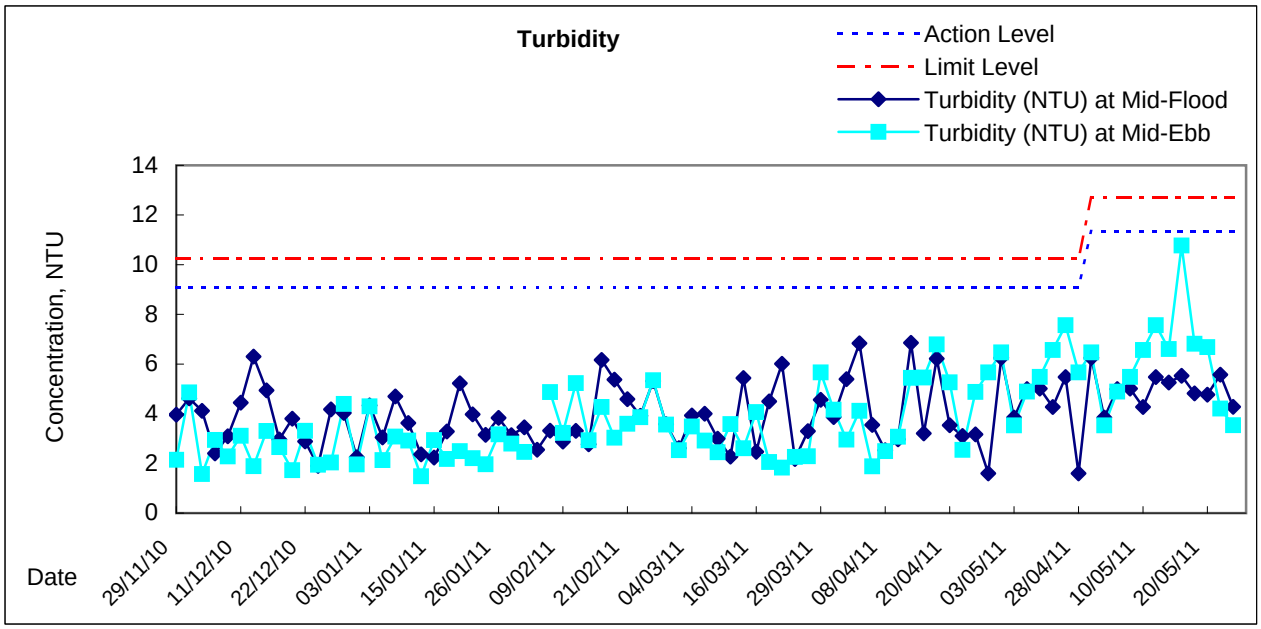


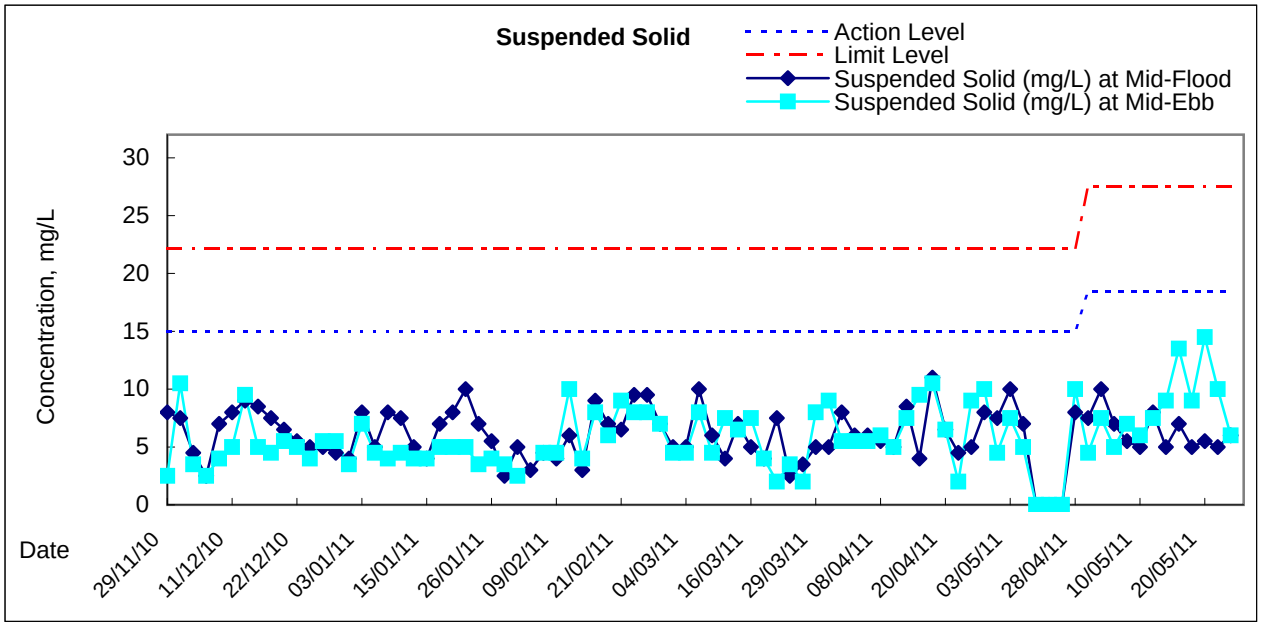


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

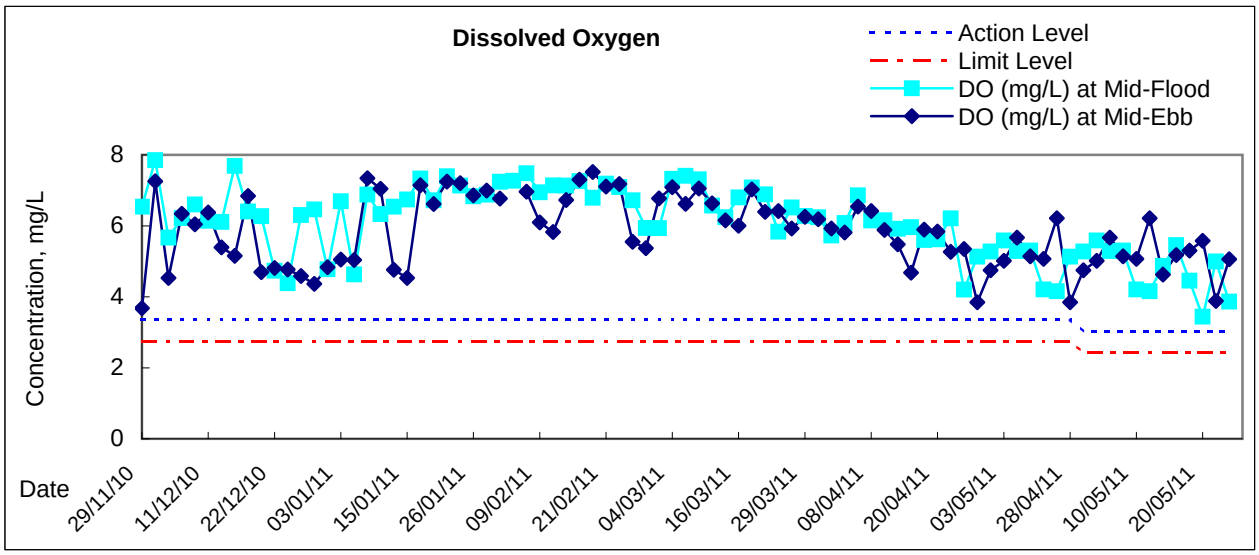


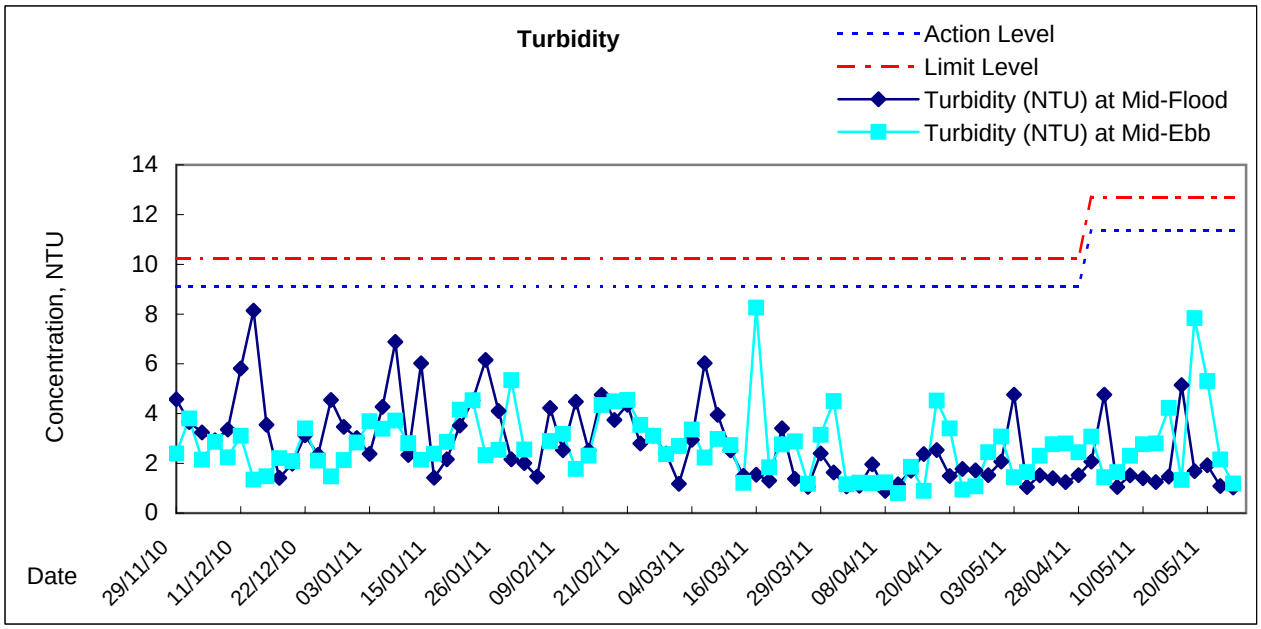


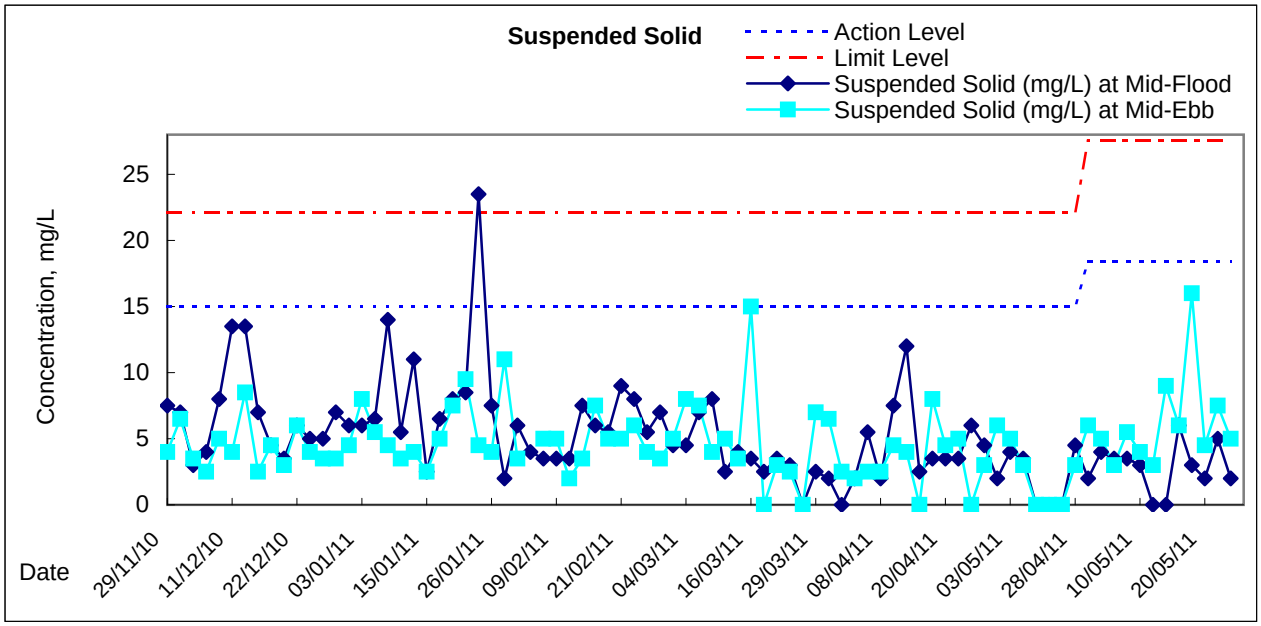


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

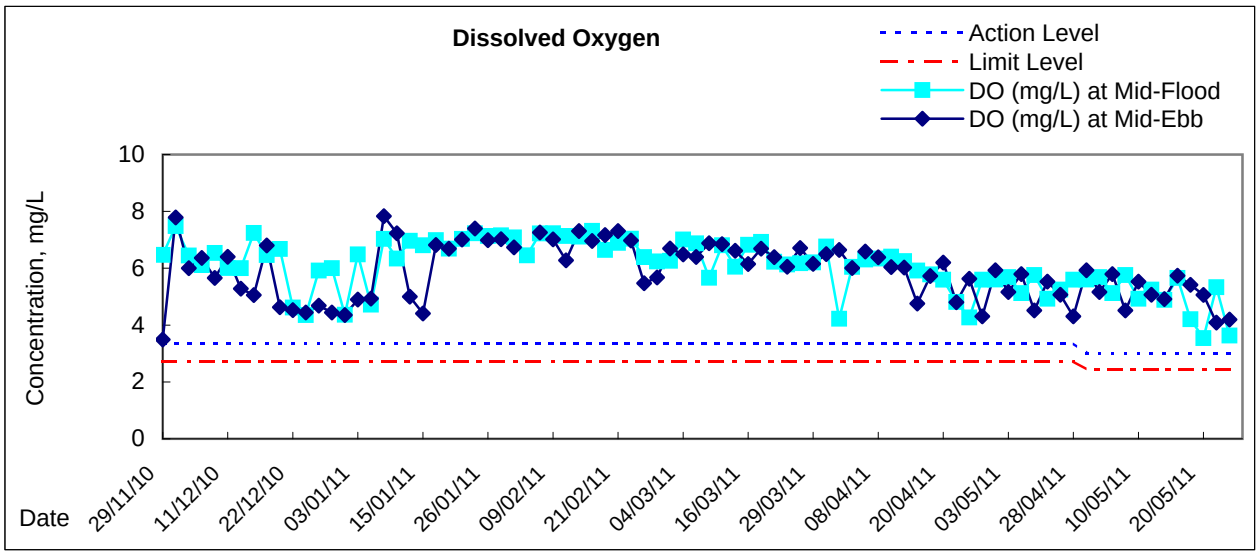


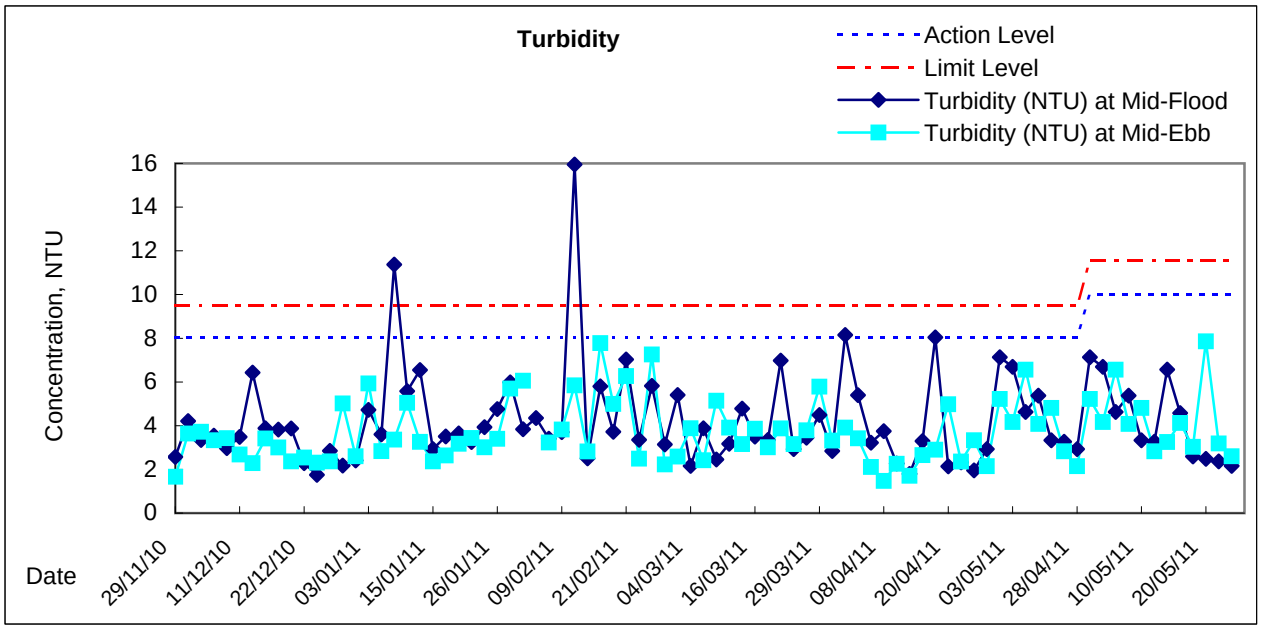


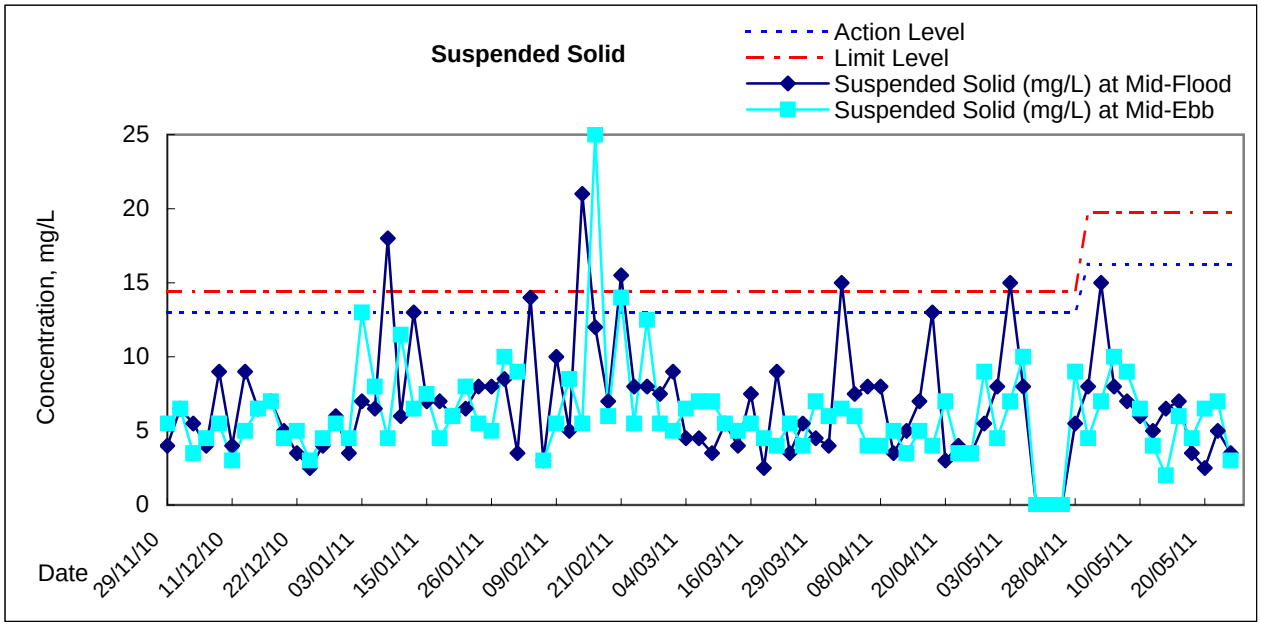


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

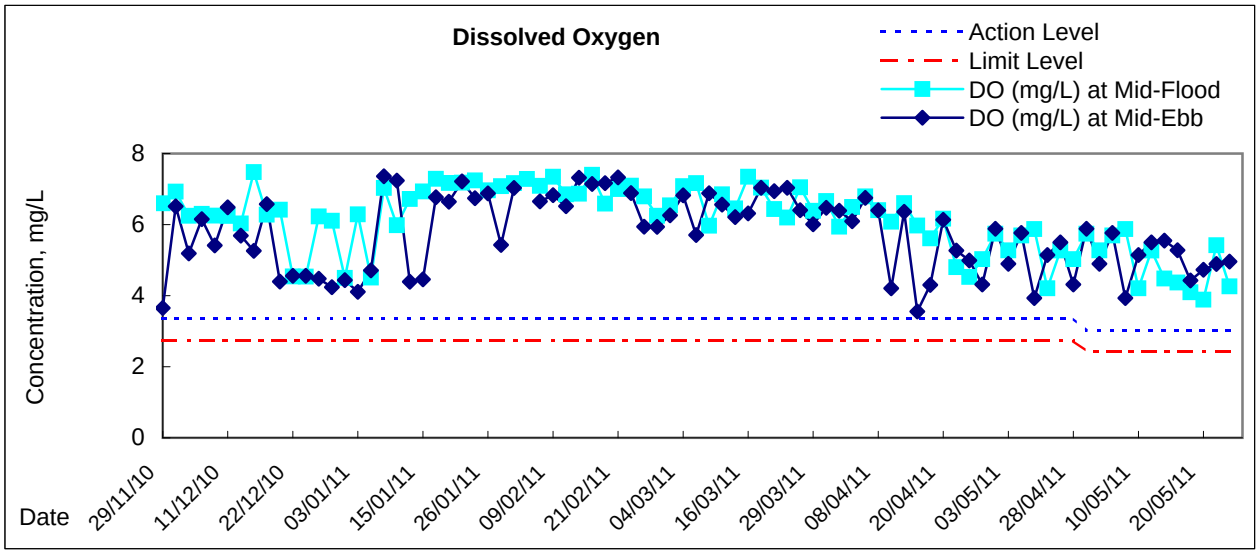


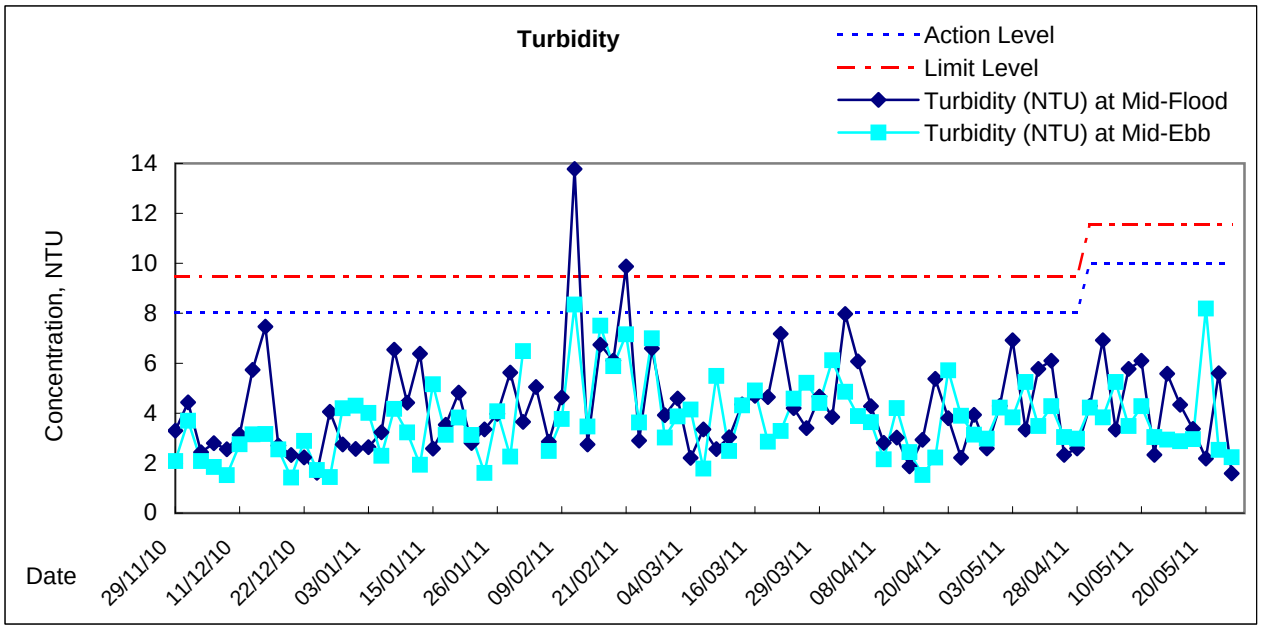


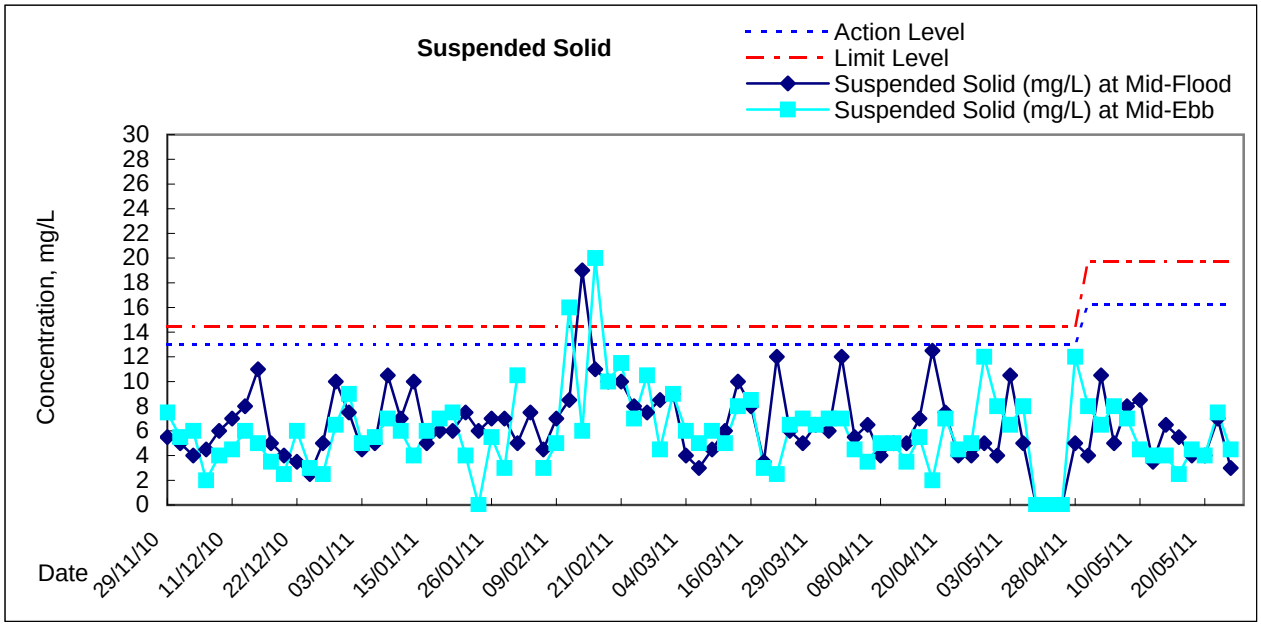


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

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

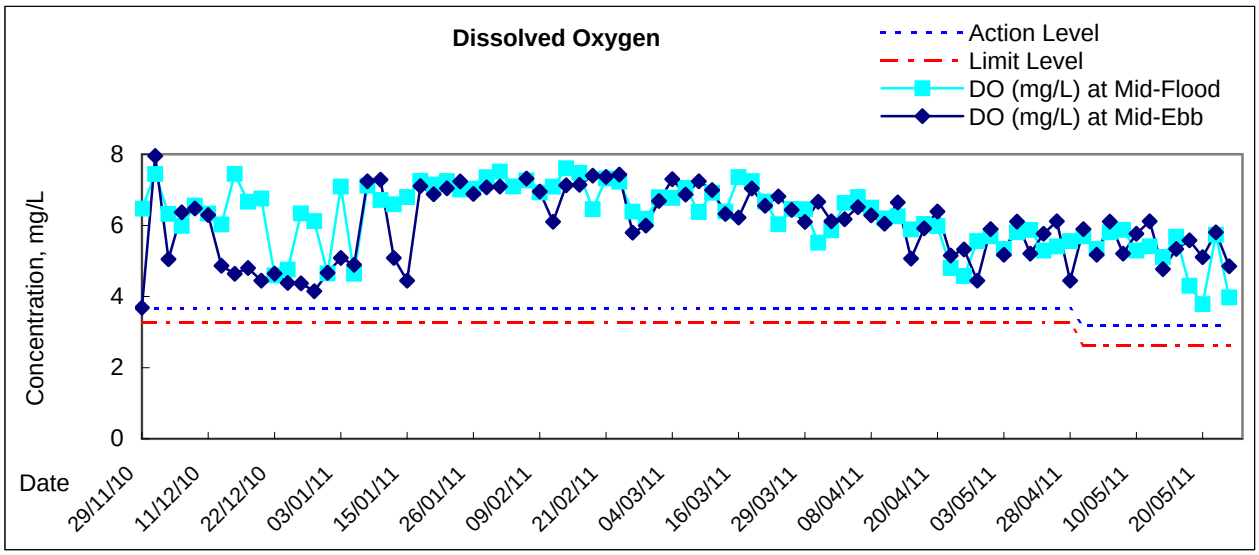


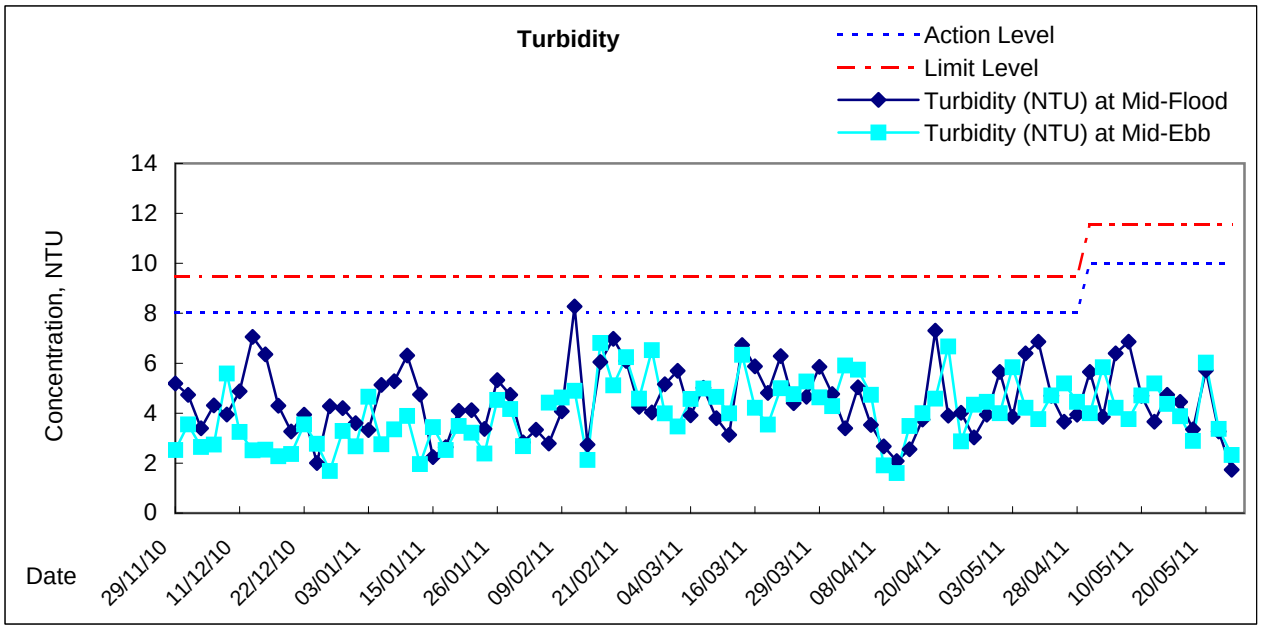


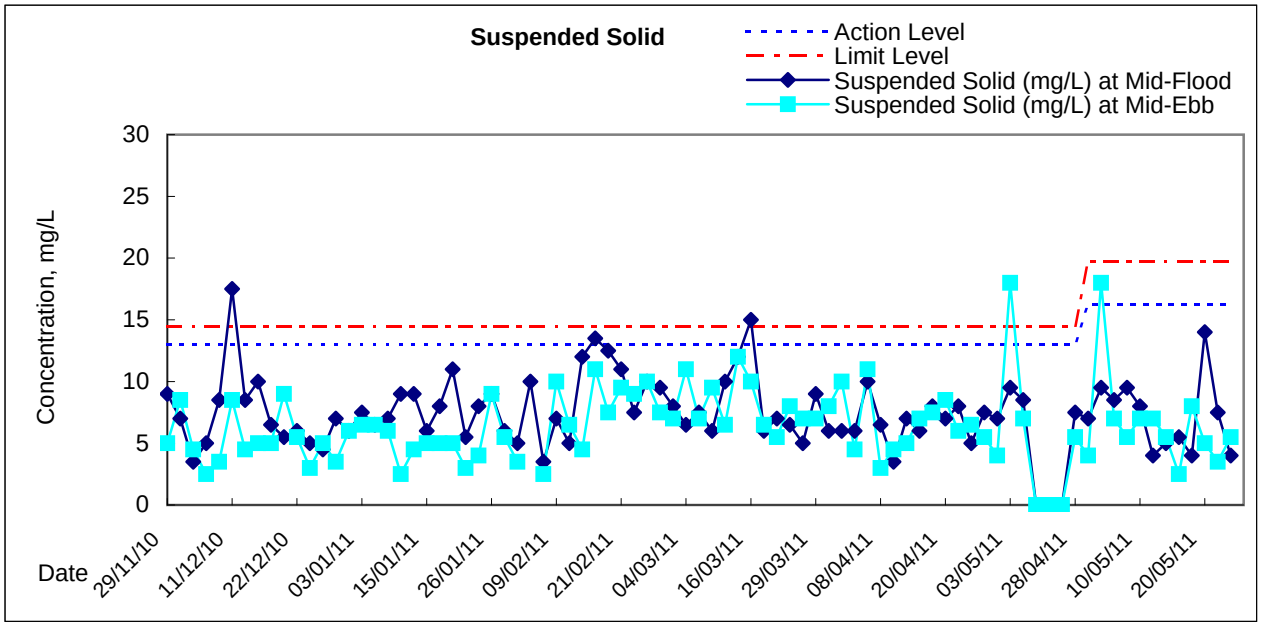


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

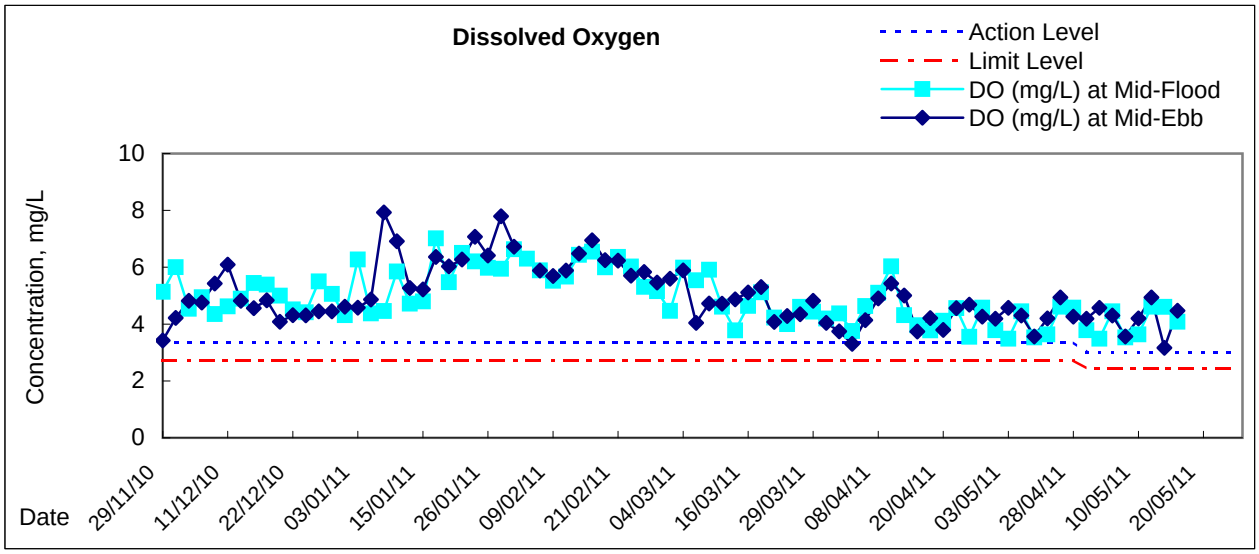


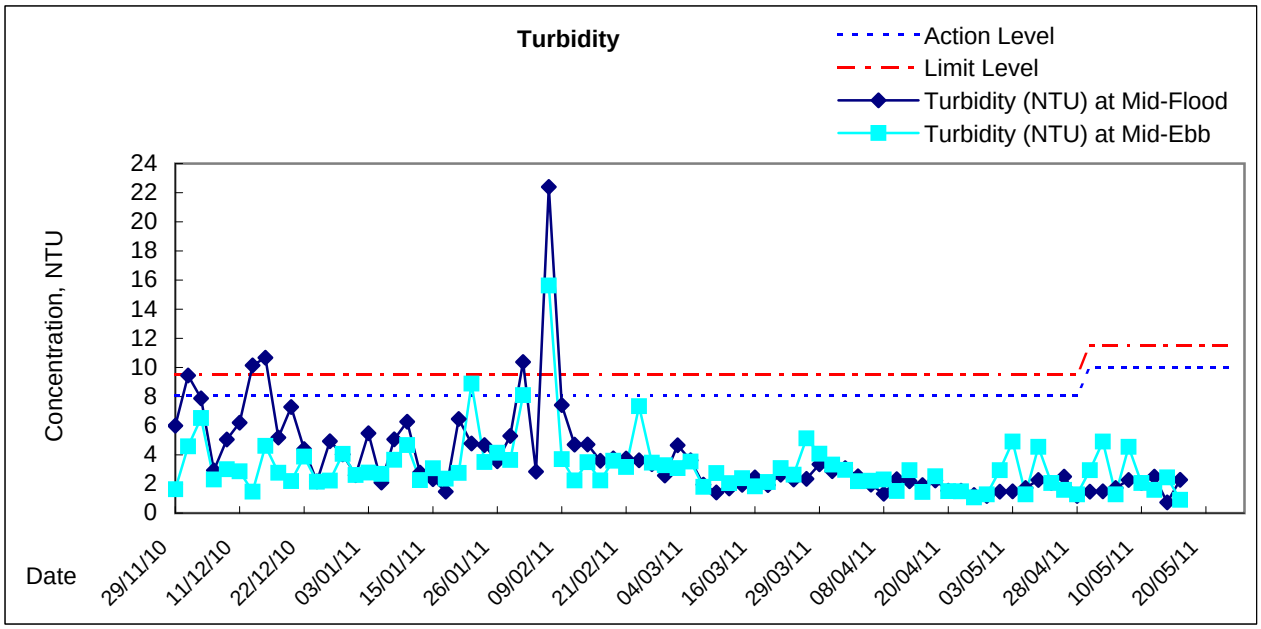


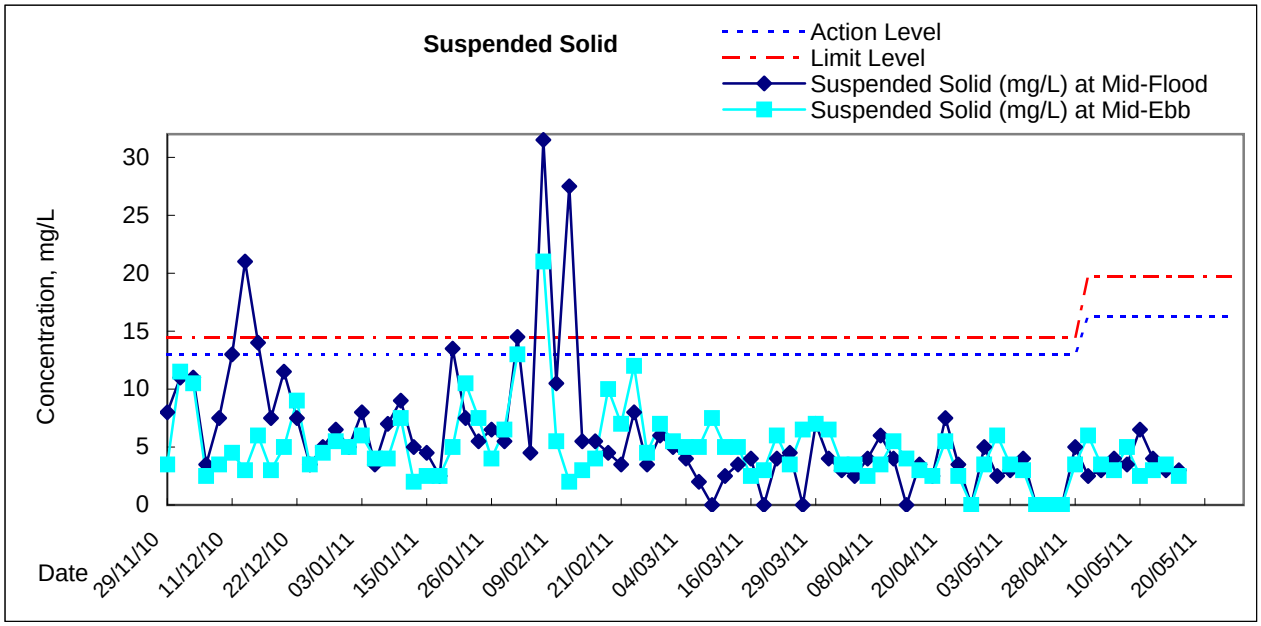


Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Graphic Presentation of Water Quality Result of C6 - Excelsior Hotel







Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.
The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

Water 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
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/4/2011	17:21	Cloudy	Middle	1.5	24.30	24.30	24.3	7.63	7.63	7.6	31.38	31.38	31.4	63.4	67.8	65.6	4.44	4.72	4.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	17:58	Cloudy	Middle	1.5	24.00	24.00	24.0	7.63	7.63	7.6	31.75	31.75	31.8	51.2	54.3	52.8	3.59	3.80	3.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	19:06	Cloudy	Middle	1.5	25.20	25.20	25.2	7.58	7.58	7.6	31.07	31.07	31.1	50.2	50.3	50.3	3.47	3.47	3.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	18:30	Cloudy	Middle	1.5	23.50	23.50	23.5	7.64	7.64	7.6	31.35	31.35	31.4	63.3	61.0	62.2	4.45	4.29	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	19:58	Cloudy	Middle	1.5	25.40	25.40	25.4	7.59	7.59	7.6	30.84	30.84	30.8	50.9	51.1	51.0	3.50	3.52	3.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/5/2011	0:35	Cloudy	Middle	1.5	26.50	26.50	26.5	7.88	7.88	7.9	30.81	30.81	30.8	55.6	56.2	55.9	3.69	3.73	3.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	10:16	Fine	Middle	1.5	26.42	26.42	26.4	6.56	6.56	6.6	29.20	29.20	29.2	64.8	64.6	64.7	4.42	4.40	4.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	17:07	Cloudy	Middle	1.5	25.53	25.53	25.5	7.04	7.04	7.0	29.43	29.43	29.4	66.8	66.6	66.7	4.64	4.61	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	19:31	Rainy	Middle	1.5	24.60	24.60	24.6	7.67	7.67	7.7	30.92	30.92	30.9	58.3	59.3	58.8	4.07	4.14	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	19:24	Cloudy	Middle	1.5	25.03	25.03	25.0	7.03	7.03	7.0	30.00	30.00	30.0	49.8	46.1	48.0	3.47	3.61	3.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	21:40	Cloudy	Middle	1.5	26.23	26.06	26.1	7.19	7.19	7.2	30.24	30.25	30.2	67.6	66.8	67.2	4.63	4.57	4.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2011	23:09	Cloudy	Middle	1.5	25.22	25.22	25.2	7.15	7.15	7.2	28.14	28.14	28.1	48.5	50.2	49.4	3.40	3.52	3.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/5/2011	23:30	Cloudy	Middle	1.5	25.08	25.08	25.1	7.35	7.35	7.4	30.35	30.35	30.4	49.8	48.8	49.3	3.46	3.39	3.43
	-		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
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:34		Middle	1.5	24.00	24.00	24.0	7.70	7.70	7.7	31.54	31.54	31.5	71.6	71.2	71.4	5.03	5.00	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:10		Middle	1.5	23.90	23.90	23.9	7.60	7.60	7.6	31.68	31.68	31.7	64.8	62.1	63.5	4.65	4.36	4.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:22		Middle	1.5	25.20	25.20	25.2	7.64	7.64	7.6	31.40	31.40	31.4	67.6	67.6	67.6	4.64	4.64	4.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:45		Middle	1.5	23.80	23.80	23.8	7.70	7.70	7.7	32.09	32.09	32.1	67.2	70.7	69.0	4.82	4.95	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:10		Middle	1.5	25.40	25.40	25.4	7.73	7.73	7.7	31.69	31.69	31.7	73.3	73.5	73.4	5.01	5.03	5.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:44		Middle	1.5	26.90	26.90	26.9	7.78	7.78	7.8	31.13	31.13	31.1	88.7	89.8	89.3	5.85	5.91	5.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:30		Middle	1.5	26.74	26.74	26.7	6.50	6.50	6.5	29.31	29.31	29.3	77.5	76.9	77.2	5.25	5.22	5.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:21		Middle	1.5	25.39	25.39	25.4	7.18	7.18	7.2	29.95	29.95	30.0	57.6	61.3	59.5	3.98	4.24	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:41		Middle	1.0	24.60	24.60	24.6	7.70	7.70	7.7	30.72	30.72	30.7	56.5	55.1	55.8	3.95	3.85	3.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:33		Middle	1.5	25.26	25.26	25.3	7.13	7.13	7.1	30.46	30.46	30.5	63.2	59.0	61.1	4.37	4.08	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:52		Middle	1.5	26.08	26.08	26.1	7.19	7.19	7.2	30.13	30.13	30.1	62.4	64.2	63.3	4.26	4.38	4.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:13		Middle	1.5	25.04	25.04	25.0	7.06	7.06	7.1	27.60	27.60	27.6	64.0	65.0	64.5	4.52	4.59	4.56
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:40		Middle	1.5	25.08	25.08	25.1	7.21	7.21	7.2	30.53	30.53	30.5	49.2	49.8	49.5	3.40	3.46	3.43
	-		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
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:00		Middle	1.5	24.50	24.50	24.5	7.87	7.87	7.9	32.18	32.18	32.2	69.9	67.9	68.9	4.85	4.59	4.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:44		Middle	1.5	24.60	24.60	24.6	7.89	7.89	7.9	32.75	32.75	32.8	60.3	63.0	61.7	4.48	4.40	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:29		Middle	1.5	25.80	25.80	25.8	7.78	7.78	7.8	31.39	31.39	31.4	69.7	64.1	66.9	4.71	4.38	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:11		Middle	1.0	23.70	23.70	23.7	7.90	7.90	7.9	32.33	32.33	32.3	67.8	63.5	65.7	4.80	4.35	4.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:45		Middle	1.5	26.40	26.40	26.4	7.83	7.83	7.8	31.24	31.24	31.2	51.5	54.8	53.2	3.47	3.70	3.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:23		Middle	1.5	25.60	25.60	25.6	7.80	7.80	7.8	31.23	31.23	31.2	68.4	68.6	68.5	4.91	4.94	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:52		Middle	1.5	26.42	26.42	26.4	6.98	6.98	7.0	29.51	29.51	29.5	99.1	97.9	98.5	6.72	6.64	6.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:40		Middle	1.5	25.10	25.10	25.1	7.33	7.33	7.3	30.79	30.79	30.8	87.7	84.6	86.2	6.08	5.86	5.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:12		Middle	1.5	24.80	24.80	24.8	7.73	7.73	7.7	31.47	31.47	31.5	51.4	51.0	51.2	3.56	3.53	3.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:05		Middle	1.5	25.02	25.02	25.0	7.32	7.32	7.3	30.81	30.81	30.8	56.5	54.4	55.5	3.92	3.77	3.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:20		Middle	1.5	25.82	25.82	25.8	7.37	7.37	7.4	30.30	30.30	30.3	64.3	63.1	63.7	4.41	4.33	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:50		Middle	1.5	25.15	25.15	25.2	7.30	7.30	7.3	29.20	29.20	29.2	54.5	54.9	54.7	3.80	3.84	3.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:00		Middle	1.5	24.24	24.24	24.2	7.50	7.50	7.5	31.38	31.38	31.4	51.2	51.0	51.1	3.56	3.56	3.56
	-		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
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:05		Middle	1.5	24.50	24.50	24.5	7.87	7.87	7.9	32.19	32.19	32.2	71.3	67.9	69.6	4.95	4.71	4.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:50		Middle	1.5	24.50	24.50	24.5	7.89	7.89	7.9	32.76	32.76	32.8	63.2	61.2	62.2	4.43	4.49	4.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:33		Middle	1.5	25.80	25.80	25.8	7.78	7.78	7.8	31.38	31.38	31.4	60.2	66.5	63.4	4.03	4.51	4.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:15		Middle	1.0	23.90	23.90	23.9	7.83	7.83	7.8	32.32	32.32	32.3	64.3	62.4	63.4	4.51	4.37	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:50		Middle	1.5	26.90	26.90	26.9	7.83	7.83	7.8	31.22	31.22	31.2	53.7	52.6	53.2	3.61	3.55	3.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:28		Middle	1.5	25.80	25.80	25.8	7.83	7.83	7.8	31.24	31.24	31.2	70.6	71.9	71.3	4.92	4.93	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:57		Middle	1.5	26.10	26.10	26.1	7.01	7.01	7.0	29.88	29.88	29.9	97.9	96.0	97.0	6.69	6.55	6.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:35		Middle	1.5	25.16	25.16	25.2	7.39	7.39	7.4	30.94	30.94	30.9	91.5	90.6	91.1	6.32	6.26	6.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:08		Middle	1.5	24.90	24.80	24.9	7.99	7.99	8.0	31.37	31.37	31.4	56.9	56.7	56.8	3.95	3.93	3.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:11		Middle	1.5	24.99	24.99	25.0	7.32	7.32	7.3	30.84	30.84	30.8	55.9	55.4	55.7	3.82	3.85	3.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:25		Middle	1.5	25.83	25.83	25.8	7.37	7.37	7.4	30.29	30.29	30.3	65.6	65.3	65.5	4.50	4.48	4.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:56		Middle	1.5	25.13	25.13	25.1	7.30	7.30	7.3	29.21	29.21	29.2	51.4	52.7	52.1	3.59	3.68	3.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:07		Middle	1.5	24.25	24.25	24.3	7.54	7.54	7.5	31.38	31.38	31.4	52.1	51.5	51.8	3.61	3.56	3.59
	-		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
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:42		Middle	2	23.80	23.80	23.8	7.55	7.55	7.6	31.59	31.59	31.6	48.9	48.8	48.9	3.46	3.49	3.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy, Foggy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:50		Middle	2	23.60	23.60	23.6	7.64	7.64	7.6	31.56	31.56	31.6	59.0	59.5	59.3	4.16	4.20	4.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:34		Middle	2	24.41	24.41	24.4	6.75	6.75	6.8	31.04	31.04	31.0	65.0	65.3	65.2	4.54	4.56	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:35		Middle	1	24.50	24.50	24.5	7.64	7.64	7.6	31.27	31.27	31.3	62.1	64.0	63.1	4.33	4.43	4.38
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:30		Middle	2	26.60	26.60	26.6	7.63	7.63	7.6	31.55	31.55	31.6	49.9	50.9	50.4	3.65	3.66	3.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:35		Middle	2	26.60	26.50	26.6	7.66	7.66	7.7	31.17	31.17	31.2	61.2	63.8	62.5	4.12	4.30	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:00		Middle	2	27.30	27.40	27.4	7.67	7.67	7.7	29.95	29.95	30.0	66.1	69.1	67.6	4.41	6.61	5.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:40		Middle	2	25.40	25.40	25.4	7.59	7.59	7.6	28.65	28.65	28.7	45.8	46.3	46.1	3.20	3.23	3.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:10		Middle	2	26.07	26.07	26.1	6.74	6.71	6.7	30.29	30.29	30.3	67.7	64.9	66.3	4.56	4.38	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:45		Middle	2	25.00	25.00	25.0	7.71	7.71	7.7	30.95	30.95	31.0	54.3	55.5	54.9	3.76	3.85	3.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:46		Middle	2	26.40	26.40	26.4	7.78	7.78	7.8	30.68	30.68	30.7	60.0	62.4	61.2	4.04	4.21	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:50		Middle	2	25.40	25.40	25.4	7.73	7.73	7.7	28.64	28.64	28.6	52.7	53.5	53.1	3.68	3.74	3.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:10		Middle	2	25.06	25.06	25.1	7.28	7.28	7.3	30.52	30.52	30.5	55.7	54.8	55.3	3.86	3.79	3.83
	-		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
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:53		Middle	2	23.90	23.90	23.9	7.61	7.61	7.6	31.58	31.58	31.6	62.7	62.3	62.5	4.41	4.38	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy, Foggy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:00		Middle	2	23.70	23.70	23.7	7.63	7.63	7.6	31.94	31.94	31.9	56.3	54.9	55.6	4.05	3.87	3.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:55		Middle	2	24.52	24.52	24.5	6.73	6.73	6.7	30.79	30.79	30.8	78.2	78.5	78.4	5.42	5.45	5.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:53		Middle	1	24.40	24.40	24.4	7.68	7.68	7.7	31.57	31.57	31.6	56.2	57.7	57.0	3.92	4.02	3.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:40		Middle	1	26.30	26.30	26.3	7.70	7.70	7.7	31.64	31.64	31.6	57.9	58.3	58.1	3.91	3.93	3.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:45		Middle	2	26.10	26.10	26.1	7.71	7.71	7.7	31.27	31.27	31.3	59.1	57.2	58.2	4.00	3.86	3.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:17		Middle	2	27.40	27.40	27.4	7.80	7.80	7.8	29.95	29.93	29.9	62.2	66.3	64.3	4.16	4.44	4.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:50		Middle	2	25.50	25.50	25.5	7.09	7.09	7.1	27.27	27.27	27.3	58.1	59.2	58.7	4.05	4.10	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:27		Middle	2	26.29	26.29	26.3	6.73	6.73	6.7	30.66	30.66	30.7	66.0	66.5	66.3	4.48	4.45	4.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:58		Middle	2	24.90	24.90	24.9	7.74	7.74	7.7	31.14	31.14	31.1	55.4	56.9	56.2	3.84	3.94	3.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:53		Middle	2	26.80	26.80	26.8	7.77	7.77	7.8	30.87	30.87	30.9	60.8	61.3	61.1	4.08	4.12	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:00		Middle	2	25.40	25.40	25.4	7.68	7.68	7.7	27.98	27.98	28.0	51.2	52.2	51.7	3.59	3.66	3.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:24		Middle	2	25.24	25.24	25.2	7.17	7.17	7.2	30.48	30.48	30.5	50.2	50.3	50.3	3.48	3.48	3.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

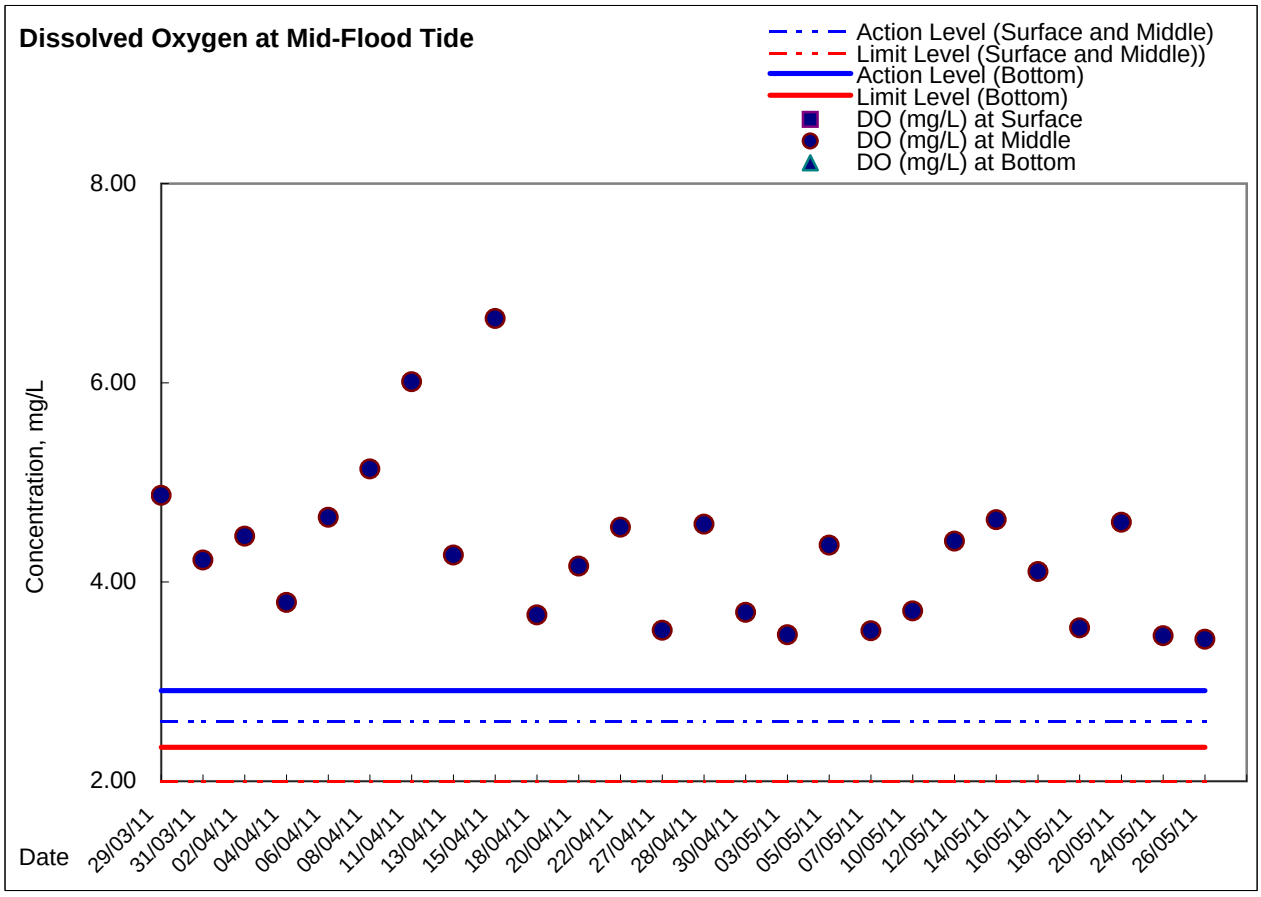
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area
Mid-Ebb Tide

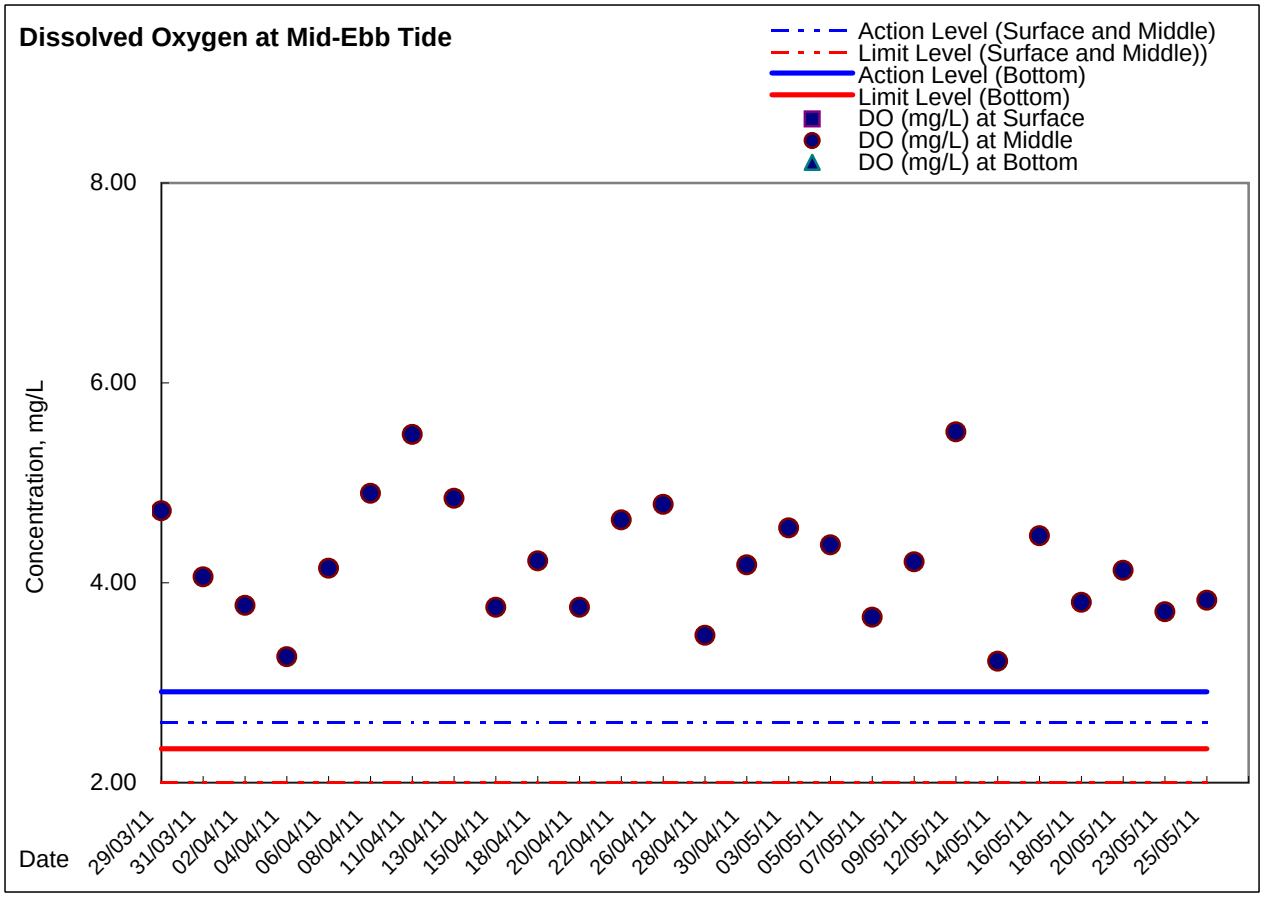
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:21		Middle	1.5	23.80	23.80	23.8	7.79	7.79	7.8	32.10	32.10	32.1	70.1	70.2	70.2	4.86	4.88	4.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy, Foggy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:35		Middle	1.5	23.10	23.10	23.1	7.79	7.79	7.8	32.78	32.78	32.8	61.7	59.7	60.7	4.48	4.35	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:09		Middle	1.5	24.21	24.21	24.2	7.03	7.03	7.0	31.15	31.15	31.2	85.8	86.2	86.0	6.00	6.03	6.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:20		Middle	1.0	23.70	23.70	23.7	7.80	7.80	7.8	32.21	32.21	32.2	51.7	50.2	51.0	3.63	3.54	3.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:08		Middle	1.5	24.50	24.50	24.5	7.81	7.81	7.8	32.00	32.00	32.0	55.5	54.1	54.8	3.86	3.76	3.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:19		Middle	1.5	24.90	24.90	24.9	7.75	7.75	7.8	31.68	31.68	31.7	63.9	64.3	64.1	4.41	4.44	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:42		Middle	1.0	25.30	25.30	25.3	7.92	7.92	7.9	31.63	31.63	31.6	80.3	76.0	78.2	5.32	5.19	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:18		Middle	1.5	24.90	24.90	24.9	7.85	7.85	7.9	31.04	31.04	31.0	59.7	57.2	58.5	4.27	4.07	4.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	1.5	25.52	25.52	25.5	7.00	7.00	7.0	31.41	31.41	31.4	69.0	65.4	67.2	4.73	4.48	4.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Fine	Surface	1.0	24.70	24.70	24.7	7.86	7.86	7.9	31.56	31.56	31.6	64.7	64.4	64.6	4.49	4.47	4.48
	10:35		Middle	2.0	24.60	24.60	24.6	7.87	7.87	7.9	32.98	32.98	33.0	59.3	59.0	59.2	4.11	4.10	4.11
	-		Bottom	3.0	24.60	24.60	24.6	7.86	7.86	7.9	32.05	32.05	32.1	55.6	55.8	55.7	3.86	3.87	3.87
20/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:25		Middle	1.5	25.60	25.60	25.6	7.90	7.90	7.9	31.12	31.12	31.1	71.0	70.3	70.7	4.87	4.83	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:30		Middle	1.5	25.60	25.60	25.6	7.84	7.84	7.8	29.91	29.91	29.9	59.0	59.3	59.2	4.07	4.09	4.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:43		Middle	1.5	24.96	24.96	25.0	7.32	7.32	7.3	31.58	31.58	31.6	49.3	50.5	49.9	3.41	3.49	3.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

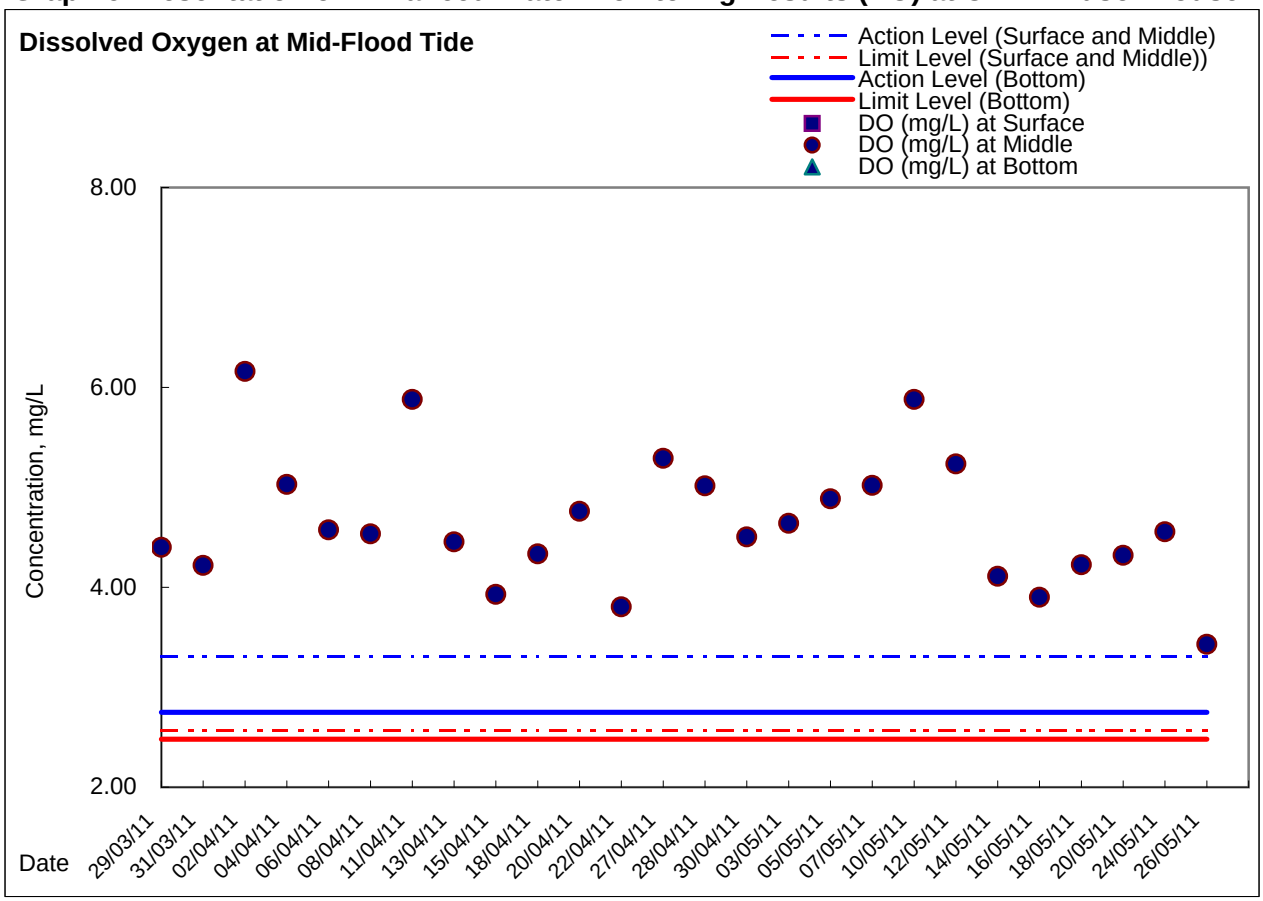
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/4/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:25		Middle	1.5	23.80	23.80	23.8	7.79	7.79	7.8	32.10	32.10	32.1	71.3	71.2	71.3	4.95	4.95	4.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2011	-	Cloudy, Foggy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:30		Middle	1.5	23.10	23.10	23.1	7.81	7.81	7.8	32.79	32.79	32.8	62.2	60.1	61.2	4.60	4.48	4.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:06		Middle	1.5	24.25	24.25	24.3	7.02	7.02	7.0	31.24	31.24	31.2	84.8	84.2	84.5	5.91	5.90	5.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:15		Middle	1.0	23.60	23.70	23.7	7.86	7.85	7.9	32.39	32.40	32.4	51.2	51.7	51.5	3.62	3.66	3.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:30		Middle	1.5	24.70	24.70	24.7	7.84	7.84	7.8	32.09	32.09	32.1	48.8	48.5	48.7	3.62	3.60	3.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:09		Middle	1.5	25.10	25.10	25.1	7.80	7.80	7.8	31.66	31.66	31.7	67.1	67.5	67.3	4.62	4.64	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:46		Middle	1.0	25.60	25.60	25.6	7.92	7.92	7.9	31.57	31.57	31.6	72.8	72.4	72.6	4.96	4.90	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2011	-	Rainy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:14		Middle	1.5	24.70	24.70	24.7	7.85	7.85	7.9	31.04	31.03	31.0	58.8	59.2	59.0	4.16	4.44	4.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:49		Middle	1.5	25.51	25.51	25.5	7.00	7.00	7.0	31.39	31.39	31.4	61.7	59.7	60.7	4.23	4.07	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:26		Middle	1.5	24.70	24.70	24.7	7.96	7.96	8.0	31.85	31.85	31.9	55.6	55.0	55.3	3.86	3.82	3.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/5/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:20		Middle	1.5	25.30	25.30	25.3	7.97	7.97	8.0	31.03	31.03	31.0	64.3	63.6	64.0	4.43	4.38	4.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:24		Middle	1.5	25.30	25.00	25.2	7.82	7.82	7.8	31.17	31.17	31.2	63.8	62.9	63.4	4.89	4.80	4.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:40		Middle	1.5	24.94	24.94	24.9	7.32	7.32	7.3	31.54	31.54	31.5	42.5	47.3	44.9	2.94	3.27	3.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

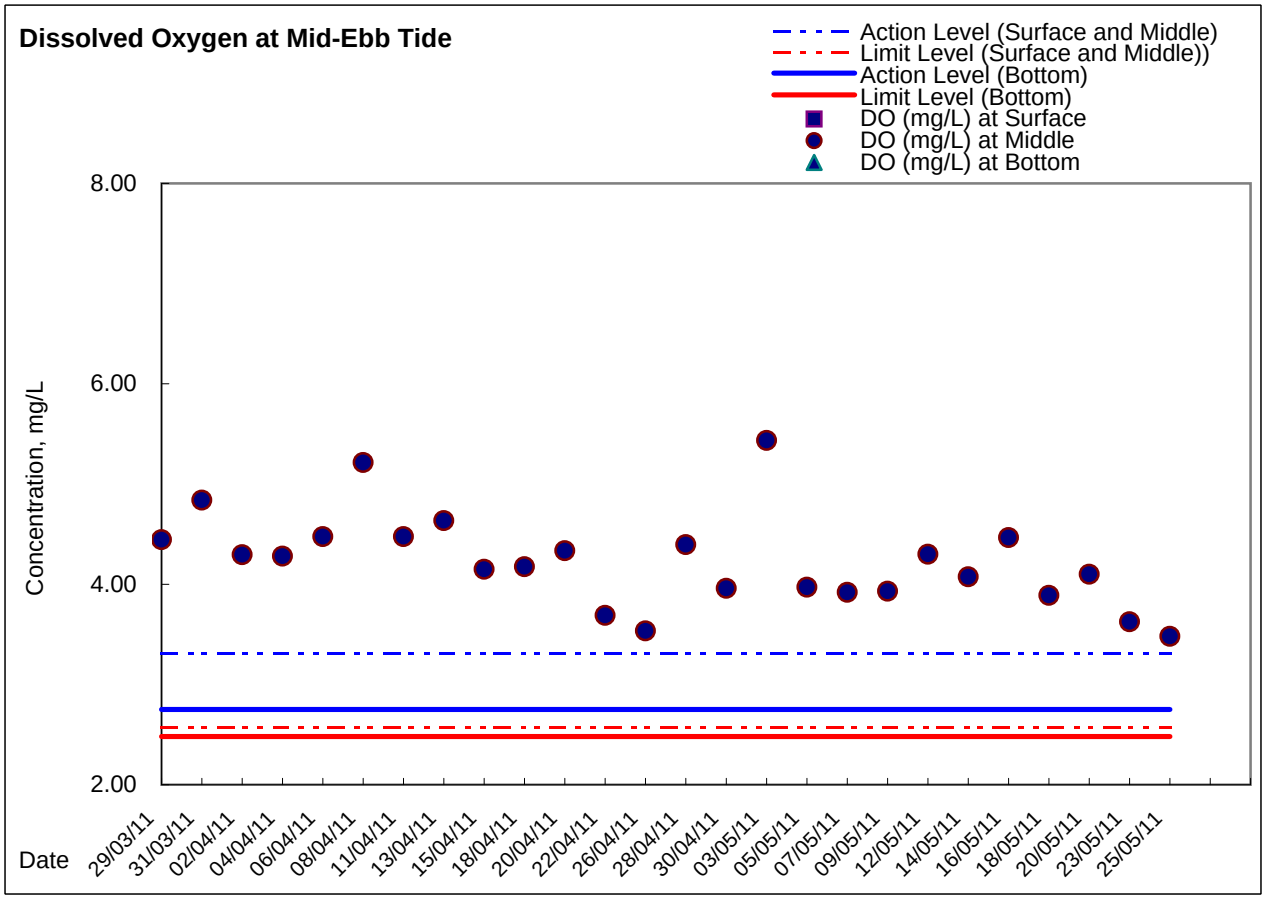
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



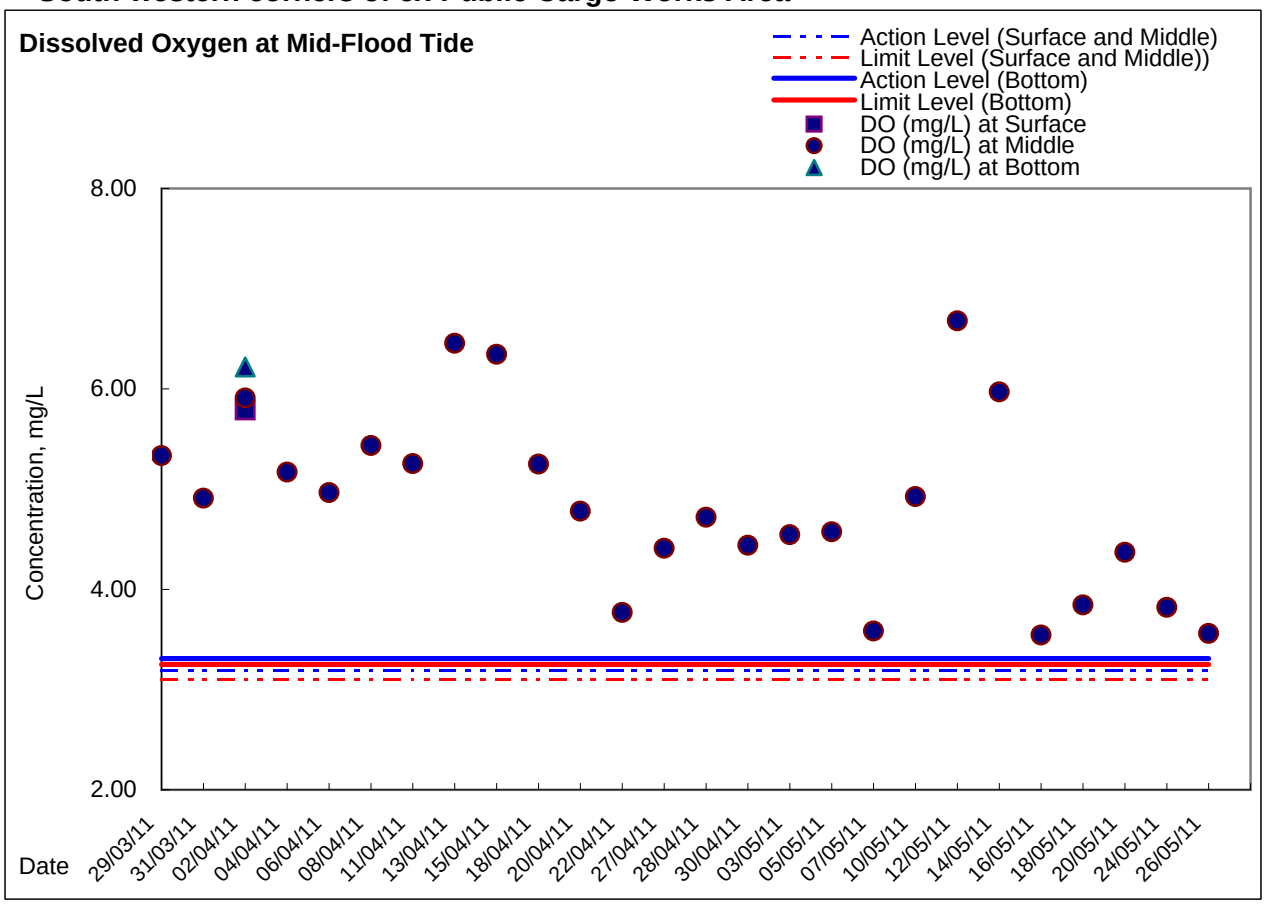


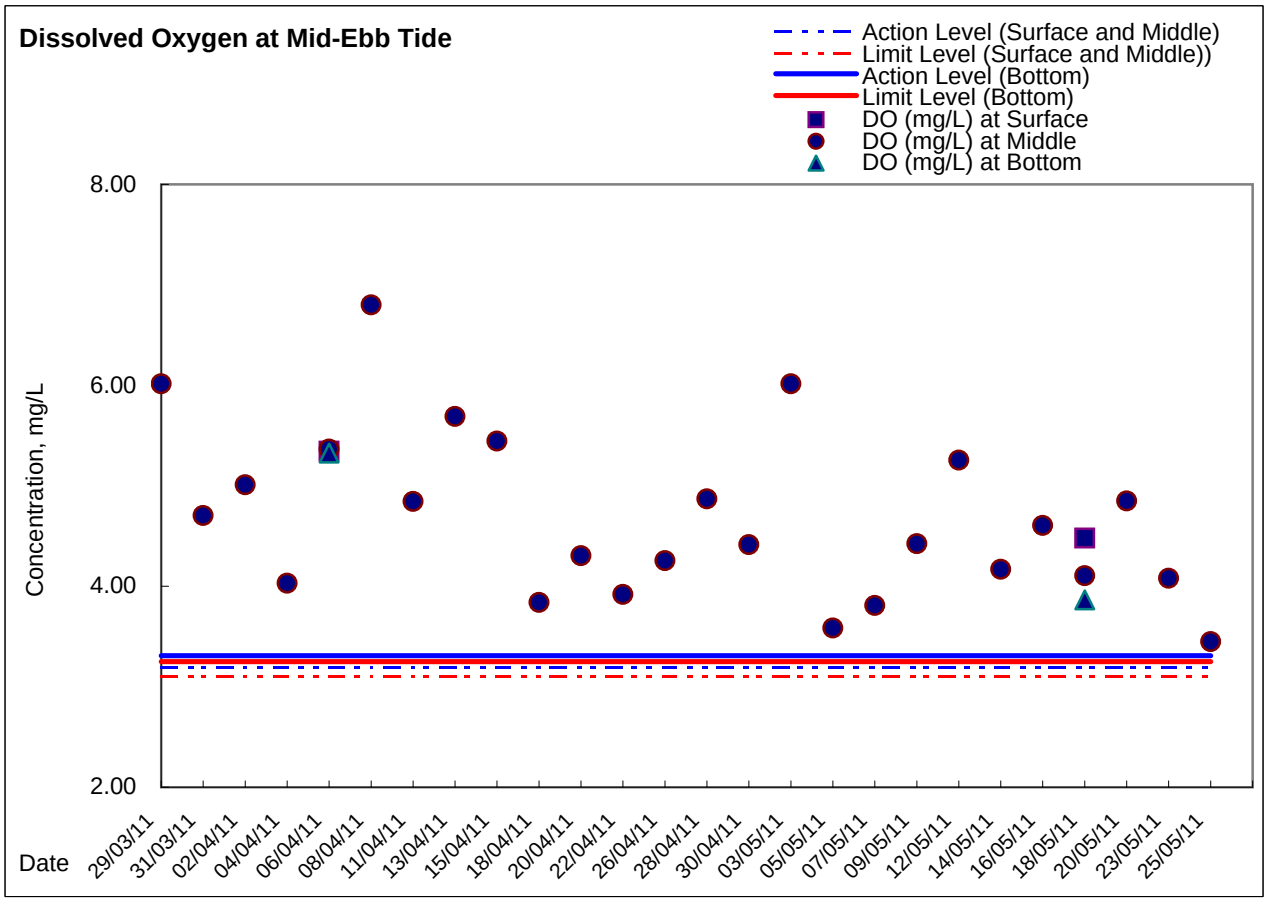
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



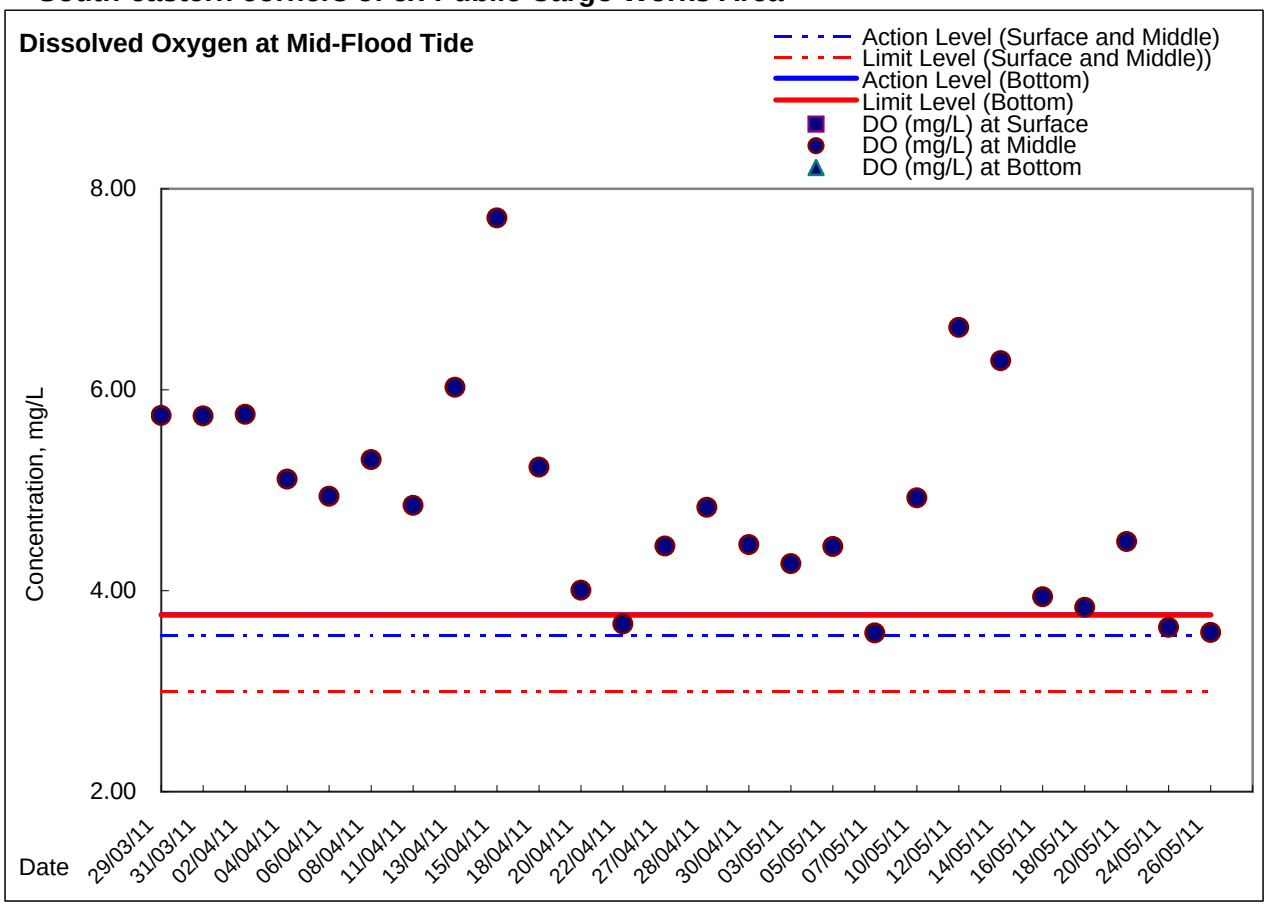


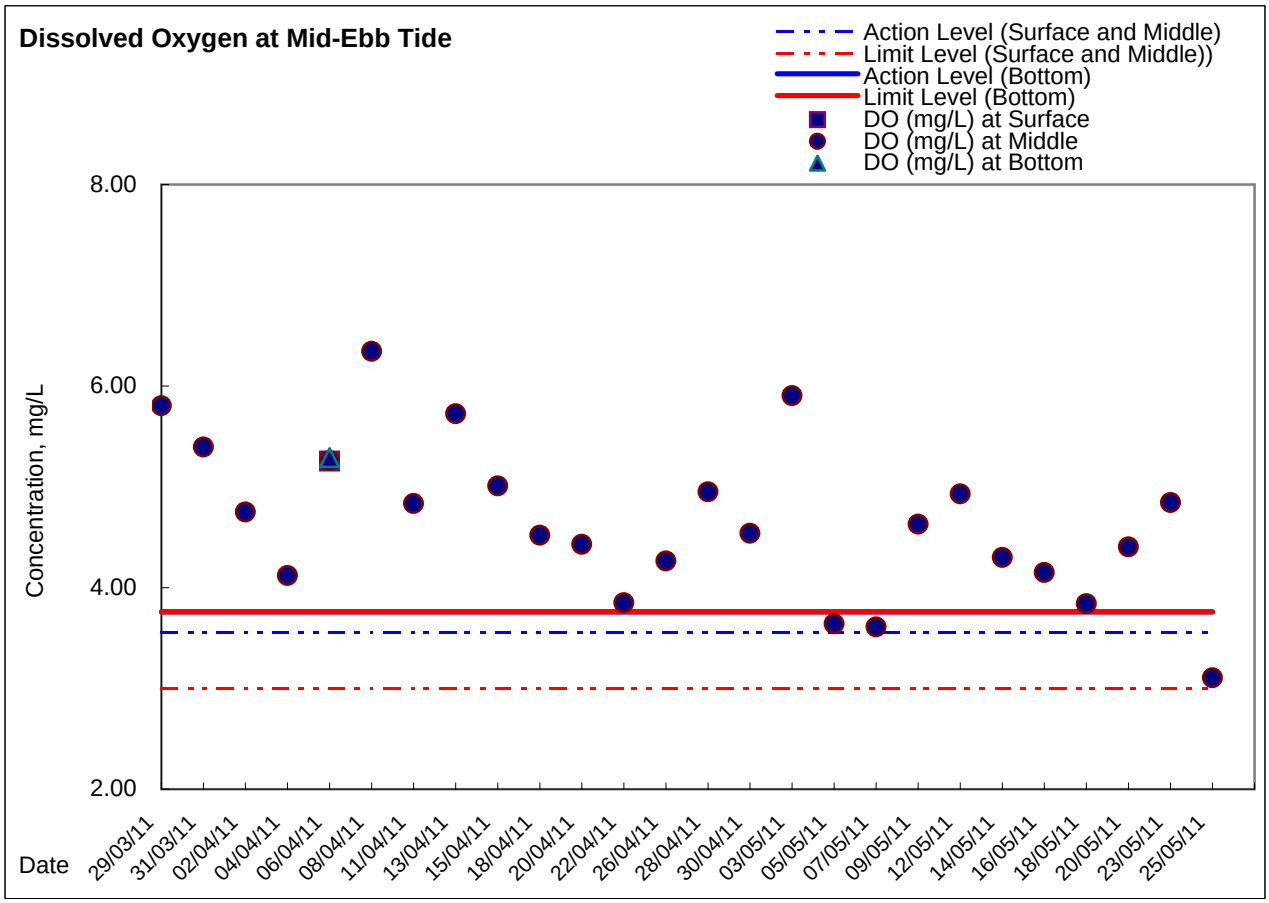
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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





Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

Normal Day 07:00-19:00

28/04/2011 07:00 65.3
28/04/2011 07:30 66.4
28/04/2011 08:00 66.8
28/04/2011 08:30 66.2
28/04/2011 09:00 66.0
28/04/2011 09:30 66.1
28/04/2011 10:00 66.7
28/04/2011 10:30 67.3
28/04/2011 11:00 67.4
28/04/2011 11:30 66.9
28/04/2011 12:00 66.1
28/04/2011 12:30 64.6
28/04/2011 13:00 66.9
28/04/2011 13:30 66.7
28/04/2011 14:00 66.4
28/04/2011 14:30 65.7
28/04/2011 15:00 67.7
28/04/2011 15:30 65.4
28/04/2011 16:00 66.8
28/04/2011 16:30 69.0
28/04/2011 17:00 67.6
28/04/2011 17:30 64.6
28/04/2011 18:00 63.9
28/04/2011 18:30 64.8
29/04/2011 07:00 64.4
29/04/2011 07:30 65.6
29/04/2011 08:00 64.6
29/04/2011 08:30 64.5
29/04/2011 09:00 64.4
29/04/2011 09:30 65.6
29/04/2011 10:00 66.0
29/04/2011 10:30 66.5
29/04/2011 11:00 65.4
29/04/2011 11:30 64.2
29/04/2011 12:00 64.1
29/04/2011 12:30 65.4
29/04/2011 13:00 67.1
29/04/2011 13:30 67.2
29/04/2011 14:00 66.7
29/04/2011 14:30 66.4
29/04/2011 15:00 66.6
29/04/2011 15:30 66.2
29/04/2011 16:00 64.7
29/04/2011 16:30 64.1
29/04/2011 17:00 64.1
29/04/2011 17:30 64.0
29/04/2011 18:00 64.2
29/04/2011 18:30 64.0
30/04/2011 07:00 62.6
30/04/2011 07:30 63.8
30/04/2011 08:00 65.8
30/04/2011 08:30 66.4
30/04/2011 09:00 66.6
30/04/2011 09:30 68.1
30/04/2011 10:00 65.8
30/04/2011 10:30 65.0
30/04/2011 11:00 65.8
30/04/2011 11:30 67.2
30/04/2011 12:00 68.9
30/04/2011 12:30 66.1
30/04/2011 13:00 64.8
30/04/2011 13:30 65.8
30/04/2011 14:00 70.3
30/04/2011 14:30 67.2
30/04/2011 15:00 66.7
30/04/2011 15:30 68.0
30/04/2011 16:00 66.3
30/04/2011 16:30 66.3
30/04/2011 17:00 65.8
30/04/2011 17:30 65.1
30/04/2011 18:00 69.1
30/04/2011 18:30 65.3
03/05/2011 07:00 64.9
03/05/2011 07:30 66.3
03/05/2011 08:00 64.4
03/05/2011 08:30 72.0
03/05/2011 09:00 68.8
03/05/2011 09:30 71.3
03/05/2011 10:00 67.1
03/05/2011 10:30 66.5
03/05/2011 11:00 67.9
03/05/2011 11:30 67.9
03/05/2011 12:00 65.0
03/05/2011 12:30 65.6
03/05/2011 13:00 70.2
03/05/2011 13:30 67.3
03/05/2011 14:00 66.2
03/05/2011 14:30 68.1
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Normal Day 19:00-23:00,
Sunday & Holiday 07:00-23:00

28/04/2011 19:00 64.5
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29/04/2011 21:25 63.0
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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07/05/2011 20:50 65.2	08/05/2011 14:00 64.0	09/05/2011 19:10 63.2	10/05/2011 12:20 64.2	10/05/2011 21:30 63.6	12/05/2011 22:40 64.5
07/05/2011 20:55 67.1	08/05/2011 14:05 63.7	09/05/2011 19:15 63.3	10/05/2011 12:25 64.6	10/05/2011 21:35 63.6	12/05/2011 22:45 63.7
07/05/2011 21:00 64.2	08/05/2011 14:10 64.1	09/05/2011 19:20 62.3	10/05/2011 12:30 63.9	10/05/2011 21:40 63.9	12/05/2011 22:50 63.7
07/05/2011 21:05 65.0	08/05/2011 14:15 64.7	09/05/2011 19:25 65.2	10/05/2011 12:35 63.5	10/05/2011 21:45 63.6	12/05/2011 22:55 63.9
07/05/2011 21:10 65.6	08/05/2011 14:20 64.3	09/05/2011 19:30 65.1	10/05/2011 12:40 63.3	10/05/2011 21:50 63.6	13/05/2011 19:00 64.1
07/05/2011 21:15 64.3	08/05/2011 14:25 64.3	09/05/2011 19:35 65.6	10/05/2011 12:45 64.5	10/05/2011 21:55 64.0	13/05/2011 19:05 64.5
07/05/2011 21:20 65.1	08/05/2011 14:30 64.9	09/05/2011 19:40 64.0	10/05/2011 12:50 64.5	10/05/2011 22:00 63.3	13/05/2011 19:10 63.4
07/05/2011 21:25 63.3	08/05/2011 14:35 64.3	09/05/2011 19:45 65.9	10/05/2011 12:55 64.3	10/05/2011 22:05 63.4	13/05/2011 19:15 64.6
07/05/2011 21:30 64.9	08/05/2011 14:40 64.9	09/05/2011 19:50 65.5	10/05/2011 13:00 64.8	10/05/2011 22:10 63.4	13/05/2011 19:20 64.7
07/05/2011 21:35 64.4	08/05/2011 14:45 64.5	09/05/2011 19:55 65.6	10/05/2011 13:05 64.7	10/05/2011 22:15 64.0	13/05/2011 19:25 63.1
07/05/2011 21:40 62.9	08/05/2011 14:50 64.4	09/05/2011 20:00 66.3	10/05/2011 13:10 65.0	10/05/2011 22:20 63.4	13/05/2011 19:30 63.3
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07/05/2011 21:50 64.3	08/05/2011 15:00 63.6	09/05/2011 20:10 64.5	10/05/2011 13:20 64.8	10/05/2011 22:30 63.3	13/05/2011 19:40 64.3
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07/05/2011 22:25 64.1	08/05/2011 15:35 63.9	09/05/2011 20:45 65.2	10/05/2011 13:55 65.1	11/05/2011 19:05 64.2	13/05/2011 20:15 64.7
07/05/2011 22:30 64.1	08/05/2011 15:40 64.0	09/05/2011 20:50 63.5	10/05/2011 14:00 65.2	11/05/2011 19:10 64.0	13/05/2011 20:20 63.9
07/05/2011 22:35 62.9	08/05/2011 15:45 64.4	09/05/2011 20:55 64.2	10/05/2011 14:05 65.1	11/05/2011 19:15 64.4	13/05/2011 20:25 64.0
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08/05/2011 07:05 63.4	08/05/2011 16:15 64.4	09/05/2011 21:25 65.9	10/05/2011 14:35 64.4	11/05/2011 19:45 63.8	13/05/2011 20:55 64.1
08/05/2011 07:10 64.9	08/05/2011 16:20 64.9	09/05/2011 21:30 62.7	10/05/2011 14:40 64.2	11/05/2011 19:50 63.6	13/05/2011 21:00 63.4
08/05/2011 07:15 62.0	08/05/2011 16:25 65.2	09/05/2011 21:35 64.2	10/05/2011 14:45 64.1	11/05/2011 19:55 63.7	13/05/2011 21:05 63.7
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08/05/2011 07:30 65.8	08/05/2011 16:40 65.5	09/05/2011 21:50 65.6	10/05/2011 15:00 64.4	11/05/2011 20:10 64.0	13/05/2011 21:20 64.9
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08/05/2011 07:40 63.8	08/05/2011 16:50 65.1	09/05/2011 22:00 63.0	10/05/2011 15:10 64.4	11/05/2011 20:20 63.2	13/05/2011 21:30 63.7
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08/05/2011 09:50 64.3	08/05/2011 19:00 64.6	10/05/2011 08:10 63.4	10/05/2011 17:20 64.4	11/05/2011 22:30 63.1	14/05/2011 19:40 65.6
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08/05/2011 10:20 64.3	08/05/2011 19:30 63.6	10/05/2011 08:40 64.2	10/05/2011 17:50 64.8	12/05/2011 19:00 63.8	14/05/2011 20:10 63.5
08/05/2011 10:25 66.2	08/05/2011 19:35 64.1	10/05/2011 08:45 64.3	10/05/2011 17:55 64.4	12/05/2011 19:05 63.9	14/05/2011 20:15 63.9
08/05/2011 10:30 65.3	08/05/2011 19:40 64.1	10/05/2011 08:50 63.7	10/05/2011 18:00 64.5	12/05/2011 19:10 64.4	14/05/2011 20:20 64.3
08/05/2011 10:35 65.1	08/05/2011 19:45 64.3	10/05/2011 08:55 63.7	10/05/2011 18:05 64.7	12/05/2011 19:15 64.0	14/05/2011 20:25 64.4
08/05/2011 10:40 65.1	08/05/2011 19:50 64.4	10/05/2011 09:00 64.6	10/05/2011 18:10 63.6	12/05/2011 19:20 63.7	14/05/2011 20:30 65.0
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08/05/2011 10:50 64.2	08/05/2011 20:00 64.5	10/05/2011 09:10 64.0	10/05/2011 18:20 63.5	12/05/2011 19:30 63.8	14/05/2011 20:40 64.5
08/05/2011 10:55 64.1	08/05/2011 20:05 63.6	10/05/2011 09:15 64.4	10/05/2011 18:25 63.9	12/05/2011 19:35 63.9	14/05/2011 20:45 63.2
08/05/2011 11:00 64.9	08/05/2011 20:10 64.1	10/05/2011 09:20 64.8	10/05/2011 18:30 62.8	12/05/2011 19:40 63.8	14/05/2011 20:50 64.9
08/05/2011 11:05 64.3	08/05/2011 20:15 64.2	10/05/2011 09:25 64.6	10/05/2011 18:35 64.2	12/05/2011 19:45 63.6	14/05/2011 20:55 66.0
08/05/2011 11:10 64.8	08/05/2011 20:20 63.7	10/05/2011 09:30 64.2	10/05/2011 18:40 64.2	12/05/2011 19:50 64.2	14/05/2011 21:00 65.0
08/05/2011 11:15 64.2	08/05/2011 20:25 64.3	10/05/2011 09:35 64.1	10/05/2011 18:45 65.6	12/05/2011 19:55 64.6	14/05/2011 21:05 65.0
08/05/2011 11:20 63.7	08/05/2011 20:30 64.1	10/05/2011 09:40 64.8	10/05/2011 18:50 63.9	12/05/2011 20:00 63.8	14/05/2011 21:10 64.5
08/05/2011 11:25 64.0	08/05/2011 20:35 63.8	10/05/2011 09:45 64.1	10/05/2011 18:55 63.9	12/05/2011 20:05 64.7	14/05/2011 21:15 64.2
08/05/2011 11:30 63.8	08/05/2011 20:40 64.3	10/05/2011 09:50 63.6	10/05/2011 19:00 63.9	12/05/2011 20:10 67.3	14/05/2011 21:20 62.6
08/05/2011 11:35 63.9	08/05/2011 20:45 63.2	10/05/2011 09:55 64.3	10/05/2011 19:05 64.4	12/05/2011 20:15 64.6	14/05/2011 21:25 63.4
08/05/2011 11:40 63.9	08/05/2011 20:50 64.3	10/05/2011 10:00 64.4	10/05/2011 19:10 64.8	12/05/2011 20:20 64.6	14/05/2011 21:30 65.3
08/05/2011 11:45 63.7	08/05/2011 20:55 63.7	10/05/2011 10:05 64.9	10/05/2011 19:15 63.6	12/05/2011 20:25 64.1	14/05/2011 21:35 62.6
08/05/2011 11:50 65.4	08/05/2011 21:00 64.0	10/05/2011 10:10 64.7	10/05/2011 19:20 64.4	12/05/2011 20:30 64.7	14/05/2011 21:40 64.4
08/05/2011 11:55 64.8	08/05/2011 21:05 62.3	10/05/2011 10:15 64.9	10/05/2011 19:25 64.0	12/05/2011 20:35 64.4	14/05/2011 21:45 65.5
08/05/2011 12:00 65.3	08/05/2011 21:10 63.1	10/05/2011 10:20 64.9	10/05/2011 19:30 64.4	12/05/2011 20:40 64.7	14/05/2011 21:50 64.5
08/05/2011 12:05 65.5	08/05/2011 21:15 62.9	10/05/2011 10:25 64.6	10/05/2011 19:35 65.3	12/05/2011 20:45 64.0	14/05/2011 21:55 64.3
08/05/2011 12:10 64.8	08/05/2011 21:20 62.9	10/05/2011 10:30 65.0	10/05/2011 19:40 64.8	12/05/2011 20:50 64.3	14/05/2011 22:00 64.1
08/05/2011 12:15 64.4	08/05/2011 21:25 63.3	10/05/2011 10:35 66.2	10/05/2011 19:45 64.0	12/05/2011 20:55 64.2	14/05/2011 22:05 63.8
08/05/2011 12:20 63.8	08/05/2011 21:30 63.1	10/05/2011 10:40 66.2	10/05/2011 19:50 64.1	12/05/2011 21:00 64.3	14/05/2011 22:10 63.8
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08/05/2011 12:30 63.4	08/05/2011 21:40 64.1	10/05/2011 10:50 65.7	10/05/2011 20:00 66.0	12/05/2011 21:10 63.9	14/05/2011 22:20 63.4
08/05/2011 12:35 63.3	08/05/2011 21:45 64.2	10/05/2011 10:55 65.1	10/05/2011 20:05 64.0	12/05/2011 21:15 64.0	14/05/2011 22:25 64.5
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08/05/2011 12:45 63.7	08/05/2011 21:55 64.2	10/05/2011 11:05 64.6	10/05/2011 20:15 63.4	12/05/2011 21:25 64.3	14/05/2011 22:35 62.6
08/05/2011 12:50 65.1	08/05/2011 22:00 64.4	10/05/2011 11:10 64.4	10/05/2011 20:20 64.0	12/05/2011 21:30 63.6	14/05/2011 22:40 64.2
08/05/2011 12:55 64.9	08/05/2011 22:05 63.9	10/05/2011 11:15 64.5	10/05/2011 20:25 63.9	12/05/2011 21:35 65.2	14/05/2011 22:45 63.6
08/05/2011 13:00 64.7	08/05/2011 22:10 64.1	10/05/2011 11:20 65.5	10/05/2011 20:30 63.7	12/05/2011 21:40 64.4	14/05/2011 22:50 63.9
08/05/2011 13:05 65.7	08/05/2011 22:15 64.5	10/05/2011 11:25 65.4	10/05/2011 20:35 64.3	12/05/2011 21:45 64.3	14/05/2011 22:55 63.8
08/05/2011 13:10 65.0	08/05/2011 22:20 63.8	10/05/2011 11:30 63.9	10/05/2011 20:40 64.0	12/05/2011 21:50 64.0	15/05/2011 07:00 62.7
08/05/2011 13:15 65.0	08/05/2011 22:25 63.8	10/05/2011 11:35 65.3	10/05/2011 20:45 63.8	12/05/2011 21:55 63.6	15/05/2011 07:05 62.2
08/05/2011 13:20 65.3	08/05/2011 22:30 64.3	10/05/2011 11:40 65.4	10/05/2011 20:50 63.2	12/05/2011 22:00 64.2	15/05/2011 07:10 64.2
08/05/2011 13:25 63.9	08/05/2011 22:35 64.0	10/05/2011 11:45 63.4	10/05/2011 20:55 63.5	12/05/2011 22:05 63.7	15/05/2011 07:15 62.2
08/05/2011 13:30 63.9	08/05/2011 22:40 64.2	10/05/2011 11:50 64.3	10/05/2011 21:00 63.3	12/05/2011 22:10 63.5	15/05/2011 07:20 64.0
08/05/2011 13:35 64.6	08/05/2011 22:45 64.5	10/05/2011 11:55 63.5	10/05/2011 21:05 63.1	12/05/2011 22:15 63.9	15/05/2011 07:25 62.5
08/05/2011 13:40 64.6	08/05/2011 22:50 63.5	10/05/2011 12:00 63.1	10/05/2011 21:10 63.3	12/05/2011 22:20 64.0	15/05/2011 07:30 62.1
08/05/2011 13:45 64.2	08/05/2011 22:55 63.6	10/05/2011 12:05 63.9	10/05/2011 21:15 64.3	12/05/2011 22:25 64.2	15/05/2011 07:35 63.0

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

15/05/2011 07:40 63.1	15/05/2011 16:50 64.9	16/05/2011 22:00 60.1	19/05/2011 19:10 65.1	21/05/2011 20:20 63.5	22/05/2011 13:30 64.3
15/05/2011 07:45 62.8	15/05/2011 16:55 64.7	16/05/2011 22:05 59.4	19/05/2011 19:15 65.2	21/05/2011 20:25 63.7	22/05/2011 13:35 64.7
15/05/2011 07:50 62.7	15/05/2011 17:00 65.2	16/05/2011 22:10 58.9	19/05/2011 19:20 65.6	21/05/2011 20:30 64.3	22/05/2011 13:40 66.2
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15/05/2011 09:30 65.3	15/05/2011 18:40 64.5	17/05/2011 19:50 64.1	19/05/2011 21:00 64.4	21/05/2011 22:10 64.0	22/05/2011 15:20 64.4
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15/05/2011 13:20 65.6	15/05/2011 22:30 64.1	18/05/2011 19:40 64.6	20/05/2011 20:50 64.8	22/05/2011 10:00 64.1	22/05/2011 19:10 63.4
15/05/2011 13:25 66.1	15/05/2011 22:35 65.1	18/05/2011 19:45 65.1	20/05/2011 20:55 64.7	22/05/2011 10:05 63.8	22/05/2011 19:15 63.2
15/05/2011 13:30 63.6	15/05/2011 22:40 63.0	18/05/2011 19:50 65.1	20/05/2011 21:00 64.5	22/05/2011 10:10 66.8	22/05/2011 19:20 65.7
15/05/2011 13:35 64.0	15/05/2011 22:45 63.4	18/05/2011 19:55 66.3	20/05/2011 21:05 65.7	22/05/2011 10:15 67.7	22/05/2011 19:25 63.1
15/05/2011 13:40 63.1	15/05/2011 22:50 64.1	18/05/2011 20:00 65.3	20/05/2011 21:10 64.3	22/05/2011 10:20 67.0	22/05/2011 19:30 62.9
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15/05/2011 13:50 62.8	16/05/2011 19:00 62.9	18/05/2011 20:10 65.7	20/05/2011 21:20 64.7	22/05/2011 10:30 67.0	22/05/2011 19:40 63.6
15/05/2011 13:55 62.5	16/05/2011 19:05 63.6	18/05/2011 20:15 64.2	20/05/2011 21:25 63.9	22/05/2011 10:35 68.7	22/05/2011 19:45 63.0
15/05/2011 14:00 63.1	16/05/2011 19:10 63.5	18/05/2011 20:20 63.8	20/05/2011 21:30 66.2	22/05/2011 10:40 66.1	22/05/2011 19:50 62.7
15/05/2011 14:05 62.7	16/05/2011 19:15 63.6	18/05/2011 20:25 66.5	20/05/2011 21:35 64.2	22/05/2011 10:45 67.4	22/05/2011 19:55 63.6
15/05/2011 14:10 62.8	16/05/2011 19:20 63.3	18/05/2011 20:30 64.5	20/05/2011 21:40 63.9	22/05/2011 10:50 67.0	22/05/2011 20:00 62.8
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15/05/2011 14:25 64.0	16/05/2011 19:35 62.9	18/05/2011 20:45 64.8	20/05/2011 21:55 63.8	22/05/2011 11:05 66.5	22/05/2011 20:15 63.3
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15/05/2011 14:55 64.1	16/05/2011 20:05 62.8	18/05/2011 21:15 63.9	20/05/2011 22:25 64.8	22/05/2011 11:35 63.8	22/05/2011 20:45 62.8
15/05/2011 15:00 64.7	16/05/2011 20:10 63.0	18/05/2011 21:20 64.4	20/05/2011 22:30 64.2	22/05/2011 11:40 64.3	22/05/2011 20:50 62.8
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15/05/2011 15:10 64.5	16/05/2011 20:20 61.9	18/05/2011 21:30 63.7	20/05/2011 22:40 64.8	22/05/2011 11:50 63.9	22/05/2011 21:00 62.7
15/05/2011 15:15 65.0	16/05/2011 20:25 62.9	18/05/2011 21:35 63.7	20/05/2011 22:45 64.1	22/05/2011 11:55 64.2	22/05/2011 21:05 62.5
15/05/2011 15:20 64.3	16/05/2011 20:30 62.5	18/05/2011 21:40 64.0	20/05/2011 22:50 64.3	22/05/2011 12:00 63.5	22/05/2011 21:10 62.3
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15/05/2011 15:30 64.3	16/05/2011 20:40 61.3	18/05/2011 21:50 65.3	21/05/2011 19:00 64.6	22/05/2011 12:10 64.0	22/05/2011 21:20 62.0
15/05/2011 15:35 64.1	16/05/2011 20:45 61.1	18/05/2011 21:55 64.9	21/05/2011 19:05 63.9	22/05/2011 12:15 65.6	22/05/2011 21:25 62.4
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15/05/2011 15:45 64.5	16/05/2011 20:55 60.7	18/05/2011 22:05 63.2	21/05/2011 19:15 64.6	22/05/2011 12:25 66.0	22/05/2011 21:35 62.7
15/05/2011 15:50 64.8	16/05/2011 21:00 60.4	18/05/2011 22:10 63.8	21/05/2011 19:20 63.9	22/05/2011 12:30 64.5	22/05/2011 21:40 62.5
15/05/2011 15:55 64.1	16/05/2011 21:05 60.6	18/05/2011 22:15 64.3	21/05/2011 19:25 64.3	22/05/2011 12:35 64.4	22/05/2011 21:45 62.4
15/05/2011 16:00 64.2	16/05/2011 21:10 60.3	18/05/2011 22:20 65.2	21/05/2011 19:30 64.3	22/05/2011 12:40 64.0	22/05/2011 21:50 62.2
15/05/2011 16:05 64.1	16/05/2011 21:15 60.7	18/05/2011 22:25 63.7	21/05/2011 19:35 62.4	22/05/2011 12:45 64.0	22/05/2011 21:55 62.3
15/05/2011 16:10 64.7	16/05/2011 21:20 60.2	18/05/2011 22:30 63.5	21/05/2011 19:40 62.9	22/05/2011 12:50 64.1	22/05/2011 22:00 63.2
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15/05/2011 16:30 64.5	16/05/2011 21:40 59.1	18/05/2011 22:50 66.1	21/05/2011 20:00 63.2	22/05/2011 13:10 64.1	22/05/2011 22:20 62.5
15/05/2011 16:35 65.2	16/05/2011 21:45 59.7	18/05/2011 22:55 64.7	21/05/2011 20:05 62.1	22/05/2011 13:15 64.3	22/05/2011 22:25 59.2
15/05/2011 16:40 64.9	16/05/2011 21:50 59.8	19/05/2011 19:00 63.2	21/05/2011 20:10 63.7	22/05/2011 13:20 67.8	22/05/2011 22:30 68.0
15/05/2011 16:45 64.9	16/05/2011 21:55 59.8	19/05/2011 19:05 65.7	21/05/2011 20:15 63.6	22/05/2011 13:25 64.3	22/05/2011 22:35 65.9

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

22/05/2011 22:40 65.5	25/05/2011 19:50 65.6	27/05/2011 21:00 64.4	28/04/2011 23:00 58.8	30/04/2011 00:10 56.6	01/05/2011 01:20 54.4
22/05/2011 22:45 65.3	25/05/2011 19:55 66.8	27/05/2011 21:05 63.7	28/04/2011 23:05 58.2	30/04/2011 00:15 50.0	01/05/2011 01:25 61.9
22/05/2011 22:50 66.1	25/05/2011 20:00 66.5	27/05/2011 21:10 64.2	28/04/2011 23:10 58.5	30/04/2011 00:20 61.7	01/05/2011 01:30 61.6
22/05/2011 22:55 66.4	25/05/2011 20:05 65.3	27/05/2011 21:15 63.8	28/04/2011 23:15 58.7	30/04/2011 00:25 55.5	01/05/2011 01:35 61.2
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23/05/2011 19:10 66.0	25/05/2011 20:20 65.1	27/05/2011 21:30 63.9	28/04/2011 23:30 57.5	30/04/2011 00:40 51.2	01/05/2011 01:50 60.5
23/05/2011 19:15 66.3	25/05/2011 20:25 65.4	27/05/2011 21:35 63.1	28/04/2011 23:35 57.8	30/04/2011 00:45 51.3	01/05/2011 01:55 60.6
23/05/2011 19:20 64.4	25/05/2011 20:30 65.3	27/05/2011 21:40 63.9	28/04/2011 23:40 56.7	30/04/2011 00:50 61.6	01/05/2011 02:00 61.2
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23/05/2011 20:35 65.6	25/05/2011 21:45 65.1	27/05/2011 22:55 63.4	29/04/2011 00:55 61.1	30/04/2011 02:05 59.1	01/05/2011 03:15 59.7
23/05/2011 20:40 66.2	25/05/2011 21:50 64.2		29/04/2011 01:00 45.6	30/04/2011 02:10 60.1	01/05/2011 03:20 59.8
23/05/2011 20:45 65.4	25/05/2011 21:55 64.8	Night-time 23:00-07:00	29/04/2011 01:05 61.5	30/04/2011 02:15 58.9	01/05/2011 03:25 59.5
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23/05/2011 21:10 65.3	25/05/2011 22:20 64.4	28/04/2011 00:20 54.7	29/04/2011 01:30 60.6	30/04/2011 02:40 59.7	01/05/2011 03:50 60.2
23/05/2011 21:15 65.2	25/05/2011 22:25 64.6	28/04/2011 00:25 54.9	29/04/2011 01:35 60.1	30/04/2011 02:45 59.3	01/05/2011 03:55 58.7
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23/05/2011 21:30 65.7	25/05/2011 22:40 64.6	28/04/2011 00:40 54.5	29/04/2011 01:50 60.0	30/04/2011 03:00 58.7	01/05/2011 04:10 58.6
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23/05/2011 21:40 65.3	25/05/2011 22:50 64.1	28/04/2011 00:50 61.6	29/04/2011 02:00 60.5	30/04/2011 03:10 57.5	01/05/2011 04:20 59.0
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23/05/2011 22:15 65.2	26/05/2011 19:25 66.2	28/04/2011 01:25 61.0	29/04/2011 02:35 59.0	30/04/2011 03:45 58.6	01/05/2011 04:55 59.4
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23/05/2011 22:45 64.8	26/05/2011 19:55 64.8	28/04/2011 01:55 60.0	29/04/2011 03:05 58.5	30/04/2011 04:15 58.4	01/05/2011 05:25 58.7
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24/05/2011 20:10 65.6	26/05/2011 21:20 64.9	28/04/2011 03:20 58.8	29/04/2011 04:30 58.6	30/04/2011 05:40 58.8	01/05/2011 06:50 46.4
24/05/2011 20:15 65.3	26/05/2011 21:25 64.7	28/04/2011 03:25 57.7	29/04/2011 04:35 58.0	30/04/2011 05:45 59.5	01/05/2011 06:55 47.9
24/05/2011 20:20 65.9	26/05/2011 21:30 64.1	28/04/2011 03:30 58.5	29/04/2011 04:40 59.8	30/04/2011 05:50 58.4	01/05/2011 23:00 59.7
24/05/2011 20:25 66.6	26/05/2011 21:35 64.8	28/04/2011 03:35 59.2	29/04/2011 04:45 58.6	30/04/2011 05:55 59.0	01/05/2011 23:05 60.4
24/05/2011 20:30 65.4	26/05/2011 21:40 64.2	28/04/2011 03:40 59.0	29/04/2011 04:50 59.1	30/04/2011 06:00 57.8	01/05/2011 23:10 59.2
24/05/2011 20:35 65.3	26/05/2011 21:45 64.4	28/04/2011 03:45 59.7	29/04/2011 04:55 58.9	30/04/2011 06:05 59.0	01/05/2011 23:15 59.7
24/05/2011 20:40 64.8	26/05/2011 21:50 64.2	28/04/2011 03:50 58.4	29/04/2011 05:00 58.6	30/04/2011 06:10 60.1	01/05/2011 23:20 58.5
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24/05/2011 20:50 65.4	26/05/2011 22:00 64.0	28/04/2011 04:00 58.7	29/04/2011 05:10 59.2	30/04/2011 06:20 60.1	01/05/2011 23:30 58.7
24/05/2011 20:55 65.1	26/05/2011 22:05 64.2	28/04/2011 04:05 59.2	29/04/2011 05:15 59.6	30/04/2011 06:25 61.3	01/05/2011 23:35 57.8
24/05/2011 21:00 65.8	26/05/2011 22:10 64.2	28/04/2011 04:10 59.2	29/04/2011 05:20 58.9	30/04/2011 06:30 61.9	01/05/2011 23:40 58.5
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24/05/2011 21:10 65.4	26/05/2011 22:20 64.2	28/04/2011 04:20 58.6	29/04/2011 05:30 60.0	30/04/2011 06:40 60.6	01/05/2011 23:50 58.7
24/05/2011 21:15 65.2	26/05/2011 22:25 63.9	28/04/2011 04:25 58.7	29/04/2011 05:35 59.4	30/04/2011 06:45 60.6	01/05/2011 23:55 58.1
24/05/2011 21:20 65.4	26/05/2011 22:30 64.0	28/04/2011 04:30 59.9	29/04/2011 05:40 60.9	30/04/2011 06:50 61.0	02/05/2011 00:00 57.9
24/05/2011 21:25 65.4	26/05/2011 22:35 64.1	28/04/2011 04:35 58.0	29/04/2011 05:45 60.5	30/04/2011 06:55 61.5	02/05/2011 00:05 63.9
24/05/2011 21:30 65.1	26/05/2011 22:40 63.1	28/04/2011 04:40 58.5	29/04/2011 05:50 60.2	30/04/2011 23:00 59.3	02/05/2011 00:10 56.7
24/05/2011 21:35 64.6	26/05/2011 22:45 63.6	28/04/2011 04:45 58.6	29/04/2011 05:55 60.1	30/04/2011 23:05 60.3	02/05/2011 00:15 56.9
24/05/2011 21:40 64.7	26/05/2011 22:50 63.3	28/04/2011 04:50 59.9	29/04/2011 06:00 60.8	30/04/2011 23:10 58.7	02/05/2011 00:20 56.7
24/05/2011 21:45 65.2	26/05/2011 22:55 63.3	28/04/2011 04:55 59.6	29/04/2011 06:05 43.3	30/04/2011 23:15 58.9	02/05/2011 00:25 55.8
24/05/2011 21:50 64.4	27/05/2011 19:00 64.3	28/04/2011 05:00 59.5	29/04/2011 06:10 61.4	30/04/2011 23:20 58.3	02/05/2011 00:30 57.4
24/05/2011 21:55 65.8	27/05/2011 19:05 63.6	28/04/2011 05:05 59.4	29/04/2011 06:15 60.9	30/04/2011 23:25 59.4	02/05/2011 00:35 57.9
24/05/2011 22:00 64.9	27/05/2011 19:10 63.5	28/04/2011 05:10 60.0	29/04/2011 06:20 48.4	30/04/2011 23:30 58.1	02/05/2011 00:40 57.2
24/05/2011 22:05 64.6	27/05/2011 19:15 63.7	28/04/2011 05:15 59.4	29/04/2011 06:25 61.6	30/04/2011 23:35 59.0	02/05/2011 00:45 57.1
24/05/2011 22:10 65.0	27/05/2011 19:20 63.3	28/04/2011 05:20 60.4	29/04/2011 06:30 56.1	30/04/2011 23:40 58.1	02/05/2011 00:50 61.9
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24/05/2011 22:25 64.7	27/05/2011 19:35 64.7	28/04/2011 05:35 60.6	29/04/2011 06:45 59.0	30/04/2011 23:55 55.6	02/05/2011 01:05 61.8
24/05/2011 22:30 64.7	27/05/2011 19:40 64.7	28/04/2011 05:40 60.7	29/04/2011 06:50 59.4	01/05/2011 00:00 59.8	02/05/2011 01:10 60.4
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24/05/2011 22:45 64.9	27/05/2011 19:55 64.9	28/04/2011 05:55 61.6	29/04/2011 23:05 56.4	01/05/2011 00:15 56.3	02/05/2011 01:25 60.9
24/05/2011 22:50 64.3	27/05/2011 20:00 65.2	28/04/2011 06:00 60.9	29/04/2011 23:10 55.6	01/05/2011 00:20 56.1	02/05/2011 01:30 60.3
24/05/2011 22:55 64.2	27/05/2011 20:05 64.3	28/04/2011 06:05 56.3	29/04/2011 23:15 56.8	01/05/2011 00:25 56.7	02/05/2011 01:35 59.8
25/05/2011 19:00 63.9	27/05/2011 20:10 64.6	28/04/2011 06:10 53.5	29/04/2011 23:20 53.8	01/05/2011 00:30 54.6	02/05/2011 01:40 60.4
25/05/2011 19:05 65.0	27/05/2011 20:15 64.6	28/04/2011 06:15 43.3	29/04/2011 23:25 58.7	01/05/2011 00:35 56.7	02/05/2011 01:45 60.6
25/05/2011 19:10 64.6	27/05/2011 20:20 64.2	28/04/2011 06:20 61.5	29/04/2011 23:30 58.2	01/05/2011 00:40 55.1	02/05/2011 01:50 60.7
25/05/2011 19:15 64.0	27/05/2011 20:25 65.0	28/04/2011 06:25 51.7	29/04/2011 23:35 57.2	01/05/2011 00:45 53.9	02/05/2011 01:55 60.5
25/05/2011 19:20 65.8	27/05/2011 20:30 64.4	28/04/2011 06:30 56.1	29/04/2011 23:40 57.6	01/05/2011 00:50 53.0	02/05/2011 02:00 60.1
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25/05/2011 19:30 65.7	27/05/2011 20:40 64.0	28/04/2011 06:40 60.8	29/04/2011 23:50 54.9	01/05/2011 01:00 52.8	02/05/2011 02:10 60.1
25/05/2011 19:35 65.8	27/05/2011 20:45 64.2	28/04/2011 06:45 59.4	29/04/2011 23:55 54.4	01/05/2011 01:05 54.6	02/05/2011 02:15 59.5
25/05/2011 19:40 65.7	27/05/2011 20:50 64.2	28/04/2011 06:50 61.3	30/04/2011 00:00 55.0	01/05/2011 01:10 61.8	02/05/2011 02:20 58.7
25/05/2011 19:45 65.3	27/05/2011 20:55 64.0	28/04/2011 06:55 61.9	30/04/2011 00:05 56.0	01/05/2011 01:15 56.2	02/05/2011 02:25 59.4

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

02/05/2011 02:30 59.9	03/05/2011 03:40 58.2	04/05/2011 04:50 59.9	05/05/2011 06:00 60.2	06/05/2011 23:10 58.7	08/05/2011 00:20 56.6
02/05/2011 02:35 59.5	03/05/2011 03:45 57.6	04/05/2011 04:55 58.4	05/05/2011 06:05 60.6	06/05/2011 23:15 57.3	08/05/2011 00:25 58.0
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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09/05/2011 01:55 59.7
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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22/05/2011 02:55 59.7
22/05/2011 03:00 66.0
22/05/2011 03:05 64.9
22/05/2011 03:10 63.8
22/05/2011 03:15 64.6
22/05/2011 03:20 64.9
22/05/2011 03:25 66.3

Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

22/05/2011 23:30 64.0	24/05/2011 00:40 55.6	25/05/2011 01:50 61.7	26/05/2011 03:00 58.8	27/05/2011 04:10 59.4
22/05/2011 23:35 62.5	24/05/2011 00:45 58.9	25/05/2011 01:55 60.5	26/05/2011 03:05 58.5	27/05/2011 04:15 59.0
22/05/2011 23:40 65.2	24/05/2011 00:50 57.7	25/05/2011 02:00 61.7	26/05/2011 03:10 60.2	27/05/2011 04:20 60.0
22/05/2011 23:45 64.7	24/05/2011 00:55 57.9	25/05/2011 02:05 61.4	26/05/2011 03:15 58.4	27/05/2011 04:25 60.4
22/05/2011 23:50 62.1	24/05/2011 01:00 56.7	25/05/2011 02:10 61.3	26/05/2011 03:20 58.3	27/05/2011 04:30 59.3
22/05/2011 23:55 59.7	24/05/2011 01:05 56.5	25/05/2011 02:15 60.3	26/05/2011 03:25 60.4	27/05/2011 04:35 59.2
23/05/2011 00:00 61.3	24/05/2011 01:10 53.2	25/05/2011 02:20 60.8	26/05/2011 03:30 59.1	27/05/2011 04:40 59.2
23/05/2011 00:05 61.8	24/05/2011 01:15 50.6	25/05/2011 02:25 60.6	26/05/2011 03:35 61.3	27/05/2011 04:45 59.1
23/05/2011 00:10 61.1	24/05/2011 01:20 55.7	25/05/2011 02:30 60.4	26/05/2011 03:40 59.9	27/05/2011 04:50 58.4
23/05/2011 00:15 58.2	24/05/2011 01:25 58.9	25/05/2011 02:35 60.5	26/05/2011 03:45 58.6	27/05/2011 04:55 59.4
23/05/2011 00:20 61.3	24/05/2011 01:30 46.4	25/05/2011 02:40 60.1	26/05/2011 03:50 58.6	27/05/2011 05:00 59.4
23/05/2011 00:25 62.2	24/05/2011 01:35 52.7	25/05/2011 02:45 59.6	26/05/2011 03:55 58.2	27/05/2011 05:05 59.7
23/05/2011 00:30 60.3	24/05/2011 01:40 61.9	25/05/2011 02:50 60.6	26/05/2011 04:00 58.5	27/05/2011 05:10 59.1
23/05/2011 00:35 59.7	24/05/2011 01:45 54.1	25/05/2011 02:55 59.3	26/05/2011 04:05 58.2	27/05/2011 05:15 60.1
23/05/2011 00:40 60.2	24/05/2011 01:50 61.3	25/05/2011 03:00 59.2	26/05/2011 04:10 58.7	27/05/2011 05:20 59.9
23/05/2011 00:45 61.2	24/05/2011 01:55 51.3	25/05/2011 03:05 58.1	26/05/2011 04:15 59.4	27/05/2011 05:25 61.1
23/05/2011 00:50 59.7	24/05/2011 02:00 61.3	25/05/2011 03:10 59.0	26/05/2011 04:20 58.7	27/05/2011 05:30 59.4
23/05/2011 00:55 58.6	24/05/2011 02:05 61.7	25/05/2011 03:15 58.5	26/05/2011 04:25 58.8	27/05/2011 05:35 60.4
23/05/2011 01:00 57.2	24/05/2011 02:10 61.0	25/05/2011 03:20 58.7	26/05/2011 04:30 59.3	27/05/2011 05:40 60.9
23/05/2011 01:05 58.6	24/05/2011 02:15 60.4	25/05/2011 03:25 57.9	26/05/2011 04:35 58.7	27/05/2011 05:45 61.6
23/05/2011 01:10 57.0	24/05/2011 02:20 61.3	25/05/2011 03:30 60.0	26/05/2011 04:40 58.6	27/05/2011 05:50 61.0
23/05/2011 01:15 56.7	24/05/2011 02:25 60.0	25/05/2011 03:35 59.0	26/05/2011 04:45 59.4	27/05/2011 05:55 61.1
23/05/2011 01:20 49.1	24/05/2011 02:30 59.8	25/05/2011 03:40 59.8	26/05/2011 04:50 57.2	27/05/2011 06:00 51.4
23/05/2011 01:25 52.3	24/05/2011 02:35 59.6	25/05/2011 03:45 59.8	26/05/2011 04:55 59.0	27/05/2011 06:05 53.2
23/05/2011 01:30 61.9	24/05/2011 02:40 60.4	25/05/2011 03:50 58.2	26/05/2011 05:00 57.6	27/05/2011 06:10 61.3
23/05/2011 01:35 55.8	24/05/2011 02:45 59.8	25/05/2011 03:55 58.0	26/05/2011 05:05 59.7	27/05/2011 06:15 51.9
23/05/2011 01:40 55.3	24/05/2011 02:50 59.4	25/05/2011 04:00 58.1	26/05/2011 05:10 59.0	27/05/2011 06:20 57.7
23/05/2011 01:45 56.4	24/05/2011 02:55 59.5	25/05/2011 04:05 57.9	26/05/2011 05:15 59.2	27/05/2011 06:25 58.5
23/05/2011 01:50 56.8	24/05/2011 03:00 59.3	25/05/2011 04:10 58.7	26/05/2011 05:20 59.9	27/05/2011 06:30 58.0
23/05/2011 01:55 61.6	24/05/2011 03:05 60.8	25/05/2011 04:15 59.0	26/05/2011 05:25 59.5	27/05/2011 06:35 58.6
23/05/2011 02:00 61.6	24/05/2011 03:10 60.2	25/05/2011 04:20 58.0	26/05/2011 05:30 61.2	27/05/2011 06:40 61.5
23/05/2011 02:05 61.4	24/05/2011 03:15 59.3	25/05/2011 04:25 58.2	26/05/2011 05:35 60.4	27/05/2011 06:45 61.5
23/05/2011 02:10 61.1	24/05/2011 03:20 60.2	25/05/2011 04:30 56.9	26/05/2011 05:40 61.6	27/05/2011 06:50 61.5
23/05/2011 02:15 60.0	24/05/2011 03:25 59.3	25/05/2011 04:35 59.7	26/05/2011 05:45 49.8	27/05/2011 06:55 61.8
23/05/2011 02:20 59.8	24/05/2011 03:30 59.7	25/05/2011 04:40 59.4	26/05/2011 05:50 61.4	27/05/2011 23:00 58.7
23/05/2011 02:25 60.3	24/05/2011 03:35 59.2	25/05/2011 04:45 59.0	26/05/2011 05:55 55.7	27/05/2011 23:05 59.5
23/05/2011 02:30 59.7	24/05/2011 03:40 59.3	25/05/2011 04:50 58.5	26/05/2011 06:00 54.1	27/05/2011 23:10 57.4
23/05/2011 02:35 60.3	24/05/2011 03:45 59.1	25/05/2011 04:55 60.0	26/05/2011 06:05 51.4	27/05/2011 23:15 58.3
23/05/2011 02:40 60.0	24/05/2011 03:50 58.9	25/05/2011 05:00 58.3	26/05/2011 06:10 61.9	27/05/2011 23:20 57.1
23/05/2011 02:45 59.3	24/05/2011 03:55 59.6	25/05/2011 05:05 59.0	26/05/2011 06:15 58.0	27/05/2011 23:25 57.9
23/05/2011 02:50 58.6	24/05/2011 04:00 58.3	25/05/2011 05:10 58.5	26/05/2011 06:20 54.7	27/05/2011 23:30 57.8
23/05/2011 02:55 58.6	24/05/2011 04:05 60.3	25/05/2011 05:15 59.9	26/05/2011 06:25 57.1	27/05/2011 23:35 60.0
23/05/2011 03:00 58.3	24/05/2011 04:10 59.9	25/05/2011 05:20 58.7	26/05/2011 06:30 58.7	27/05/2011 23:40 57.7
23/05/2011 03:05 58.0	24/05/2011 04:15 59.5	25/05/2011 05:25 59.0	26/05/2011 06:35 60.4	27/05/2011 23:45 58.7
23/05/2011 03:10 57.5	24/05/2011 04:20 58.7	25/05/2011 05:30 59.2	26/05/2011 06:40 61.9	27/05/2011 23:50 58.3
23/05/2011 03:15 58.7	24/05/2011 04:25 59.0	25/05/2011 05:35 59.5	26/05/2011 06:45 63.2	27/05/2011 23:55 56.3
23/05/2011 03:20 58.2	24/05/2011 04:30 58.3	25/05/2011 05:40 60.9	26/05/2011 06:50 61.5	
23/05/2011 03:25 58.2	24/05/2011 04:35 60.0	25/05/2011 05:45 59.9	26/05/2011 06:55 63.2	*Exceedance recorded during
23/05/2011 03:30 57.8	24/05/2011 04:40 59.0	25/05/2011 05:50 60.7	26/05/2011 23:00 59.5	monitoring
23/05/2011 03:35 57.2	24/05/2011 04:45 60.1	25/05/2011 05:55 50.2	26/05/2011 23:05 58.5	
23/05/2011 03:40 57.0	24/05/2011 04:50 59.0	25/05/2011 06:00 60.9	26/05/2011 23:10 60.5	
23/05/2011 03:45 57.9	24/05/2011 04:55 59.3	25/05/2011 06:05 60.9	26/05/2011 23:15 57.4	
23/05/2011 03:50 57.6	24/05/2011 05:00 59.1	25/05/2011 06:10 61.7	26/05/2011 23:20 58.8	
23/05/2011 03:55 57.8	24/05/2011 05:05 58.6	25/05/2011 06:15 54.3	26/05/2011 23:25 58.0	
23/05/2011 04:00 57.5	24/05/2011 05:10 59.7	25/05/2011 06:20 61.9	26/05/2011 23:30 59.1	
23/05/2011 04:05 56.6	24/05/2011 05:15 60.5	25/05/2011 06:25 61.5	26/05/2011 23:35 57.4	
23/05/2011 04:10 57.2	24/05/2011 05:20 59.5	25/05/2011 06:30 50.3	26/05/2011 23:40 57.2	
23/05/2011 04:15 56.4	24/05/2011 05:25 61.0	25/05/2011 06:35 57.8	26/05/2011 23:45 56.6	
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23/05/2011 04:30 57.2	24/05/2011 05:40 61.3	25/05/2011 06:50 59.2	27/05/2011 00:00 57.3	
23/05/2011 04:35 56.9	24/05/2011 05:45 60.1	25/05/2011 06:55 59.9	27/05/2011 00:05 58.5	
23/05/2011 04:40 58.0	24/05/2011 05:50 60.3	25/05/2011 23:00 58.8	27/05/2011 00:10 52.9	
23/05/2011 04:45 58.3	24/05/2011 05:55 61.5	25/05/2011 23:05 60.1	27/05/2011 00:15 52.4	
23/05/2011 04:50 57.7	24/05/2011 06:00 60.4	25/05/2011 23:10 59.5	27/05/2011 00:20 58.1	
23/05/2011 04:55 57.5	24/05/2011 06:05 60.8	25/05/2011 23:15 59.7	27/05/2011 00:25 53.6	
23/05/2011 05:00 58.7	24/05/2011 06:10 61.6	25/05/2011 23:20 58.7	27/05/2011 00:30 54.4	
23/05/2011 05:05 58.1	24/05/2011 06:15 61.4	25/05/2011 23:25 59.7	27/05/2011 00:35 43.3	
23/05/2011 05:10 58.0	24/05/2011 06:20 61.5	25/05/2011 23:30 58.4	27/05/2011 00:40 61.6	
23/05/2011 05:15 58.4	24/05/2011 06:25 55.7	25/05/2011 23:35 61.2	27/05/2011 00:45 61.9	
23/05/2011 05:20 57.7	24/05/2011 06:30 57.5	25/05/2011 23:40 57.7	27/05/2011 00:50 61.7	
23/05/2011 05:25 57.1	24/05/2011 06:35 57.5	25/05/2011 23:45 59.0	27/05/2011 00:55 45.1	
23/05/2011 05:30 59.4	24/05/2011 06:40 60.4	25/05/2011 23:50 59.7	27/05/2011 01:00 61.0	
23/05/2011 05:35 58.7	24/05/2011 06:45 62.7	25/05/2011 23:55 59.6	27/05/2011 01:05 61.6	
23/05/2011 05:40 58.9	24/05/2011 06:50 62.8	26/05/2011 00:00 60.7	27/05/2011 01:10 61.2	
23/05/2011 05:45 57.8	24/05/2011 06:55 61.7	26/05/2011 00:05 58.4	27/05/2011 01:15 41.6	
23/05/2011 05:50 59.1	24/05/2011 23:00 59.9	26/05/2011 00:10 56.4	27/05/2011 01:20 60.9	
23/05/2011 05:55 58.1	24/05/2011 23:05 60.8	26/05/2011 00:15 55.8	27/05/2011 01:25 61.0	
23/05/2011 06:00 64.8	24/05/2011 23:10 60.4	26/05/2011 00:20 57.4	27/05/2011 01:30 61.3	
23/05/2011 06:05 61.8	24/05/2011 23:15 60.9	26/05/2011 00:25 58.6	27/05/2011 01:35 61.0	
23/05/2011 06:10 58.6	24/05/2011 23:20 60.9	26/05/2011 00:30 50.5	27/05/2011 01:40 60.6	
23/05/2011 06:15 60.5	24/05/2011 23:25 60.7	26/05/2011 00:35 55.0	27/05/2011 01:45 60.9	
23/05/2011 06:20 60.4	24/05/2011 23:30 60.9	26/05/2011 00:40 58.5	27/05/2011 01:50 60.4	
23/05/2011 06:25 60.1	24/05/2011 23:35 60.6	26/05/2011 00:45 61.9	27/05/2011 01:55 59.9	
23/05/2011 06:30 58.1	24/05/2011 23:40 61.4	26/05/2011 00:50 61.8	27/05/2011 02:00 61.3	
23/05/2011 06:35 56.7	24/05/2011 23:45 61.8	26/05/2011 00:55 61.8	27/05/2011 02:05 60.2	
23/05/2011 06:40 61.5	24/05/2011 23:50 59.5	26/05/2011 01:00 61.0	27/05/2011 02:10 60.1	
23/05/2011 06:45 60.5	24/05/2011 23:55 61.8	26/05/2011 01:05 61.2	27/05/2011 02:15 59.7	
23/05/2011 06:50 61.6	25/05/2011 00:00 60.1	26/05/2011 01:10 61.2	27/05/2011 02:20 59.2	
23/05/2011 06:55 50.9	25/05/2011 00:05 60.7	26/05/2011 01:15 61.3	27/05/2011 02:25 60.0	
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23/05/2011 23:05 60.5	25/05/2011 00:15 59.7	26/05/2011 01:25 60.4	27/05/2011 02:35 59.5	
23/05/2011 23:10 62.1	25/05/2011 00:20 59.4	26/05/2011 01:30 60.6	27/05/2011 02:40 58.9	
23/05/2011 23:15 61.6	25/05/2011 00:25 57.0	26/05/2011 01:35 61.4	27/05/2011 02:45 59.8	
23/05/2011 23:20 61.5	25/05/2011 00:30 58.4	26/05/2011 01:40 49.5	27/05/2011 02:50 59.1	
23/05/2011 23:25 61.2	25/05/2011 00:35 61.0	26/05/2011 01:45 60.7	27/05/2011 02:55 58.8	
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23/05/2011 23:35 62.5	25/05/2011 00:45 57.2	26/05/2011 01:55 59.7	27/05/2011 03:05 58.8	
23/05/2011 23:40 59.1	25/05/2011 00:50 57.9	26/05/2011 02:00 59.5	27/05/2011 03:10 59.1	
23/05/2011 23:45 59.8	25/05/2011 00:55 59.0	26/05/2011 02:05 60.4	27/05/2011 03:15 58.3	
23/05/2011 23:50 59.9	25/05/2011 01:00 58.5	26/05/2011 02:10 60.1	27/05/2011 03:20 58.3	
23/05/2011 23:55 60.3	25/05/2011 01:05 58.0	26/05/2011 02:15 59.8	27/05/2011 03:25 59.3	
24/05/2011 00:00 57.2	25/05/2011 01:10 57.4	26/05/2011 02:20 58.8	27/05/2011 03:30 58.8	
24/05/2011 00:05 60.7	25/05/2011 01:15 55.4	26/05/2011 02:25 61.3	27/05/2011 03:35 60.6	
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24/05/2011 00:15 59.9	25/05/2011 01:25 53.7	26/05/2011 02:35 60.2	27/05/2011 03:45 59.5	
24/05/2011 00:20 58.9	25/05/2011 01:30 47.1	26/05/2011 02:40 59.8	27/05/2011 03:50 58.4	
24/05/2011 00:25 58.9	25/05/2011 01:35 61.4	26/05/2011 02:45 59.8	27/05/2011 03:55 58.8	
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24/05/2011 00:35 58.6	25/05/2011 01:45 61.2	26/05/2011 02:55 60.6	27/05/2011 04:05 58.9	

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

Normal Day 07:00-19:00

28/04/2011 07:01 62.9
28/04/2011 07:31 63.9
28/04/2011 08:01 68.1
28/04/2011 08:31 68.3
28/04/2011 09:01 66.2
28/04/2011 09:31 65.1
28/04/2011 10:01 67.0
28/04/2011 10:31 67.0
28/04/2011 11:01 66.6
28/04/2011 11:31 65.2
28/04/2011 12:01 64.0
28/04/2011 12:31 64.3
28/04/2011 13:01 66.3
28/04/2011 13:31 67.3
28/04/2011 14:01 64.8
28/04/2011 14:31 65.6
28/04/2011 15:01 66.9
28/04/2011 15:31 67.5
28/04/2011 16:01 67.1
28/04/2011 16:31 66.2
28/04/2011 17:01 65.5
28/04/2011 17:31 65.4
28/04/2011 18:01 65.0
28/04/2011 18:31 64.9
29/04/2011 07:01 63.0
29/04/2011 07:31 64.1
29/04/2011 08:01 66.1
29/04/2011 08:31 64.3
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29/04/2011 09:31 65.4
29/04/2011 10:01 66.0
29/04/2011 10:31 65.1
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29/04/2011 11:31 64.6
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29/04/2011 12:31 64.9
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29/04/2011 15:01 65.1
29/04/2011 15:31 65.3
29/04/2011 16:01 66.4
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29/04/2011 17:01 67.3
29/04/2011 17:31 67.3
29/04/2011 18:01 66.4
29/04/2011 18:31 65.2
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03/05/2011 09:01 65.5
03/05/2011 09:31 66.1
03/05/2011 10:01 67.1
03/05/2011 10:31 67.8
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03/05/2011 11:31 64.8
03/05/2011 12:01 63.5
03/05/2011 12:31 63.3
03/05/2011 13:01 64.7
03/05/2011 13:31 66.6
03/05/2011 14:01 70.4
03/05/2011 14:31 67.5
03/05/2011 15:01 65.6
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03/05/2011 16:01 65.7
03/05/2011 16:31 66.1
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Normal Day 19:00-23:00, Sunday & Holiday 07:00-23:00

28/04/2011 19:01 64.2
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

29/04/2011 21:41 62.1	01/05/2011 10:51 63.6	01/05/2011 20:01 61.4	02/05/2011 13:11 64.3	02/05/2011 22:21 62.6	05/05/2011 19:31 63.5
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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16/05/2011 00:26 59.9

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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17/05/2011 01:16 60.5	18/05/2011 02:26 56.2	19/05/2011 03:36 60.1	20/05/2011 05:46 58.1	21/05/2011 06:56 52.7	23/05/2011 00:06 55.4
17/05/2011 01:21 59.0	18/05/2011 02:31 57.0	19/05/2011 03:41 59.1	20/05/2011 05:51 58.4	21/05/2011 23:01 60.6	23/05/2011 00:11 56.1
17/05/2011 01:26 59.7	18/05/2011 02:36 54.6	19/05/2011 03:46 59.7	20/05/2011 05:56 60.4	21/05/2011 23:06 59.7	23/05/2011 00:16 61.8
17/05/2011 01:31 60.1	18/05/2011 02:41 54.3	19/05/2011 03:51 59.8	20/05/2011 06:01 57.8	21/05/2011 23:11 58.6	23/05/2011 00:21 53.6
17/05/2011 01:36 58.9	18/05/2011 02:46 55.0	19/05/2011 03:56 58.3	20/05/2011 06:06 59.9	21/05/2011 23:16 57.6	23/05/2011 00:26 61.2

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

23/05/2011 00:31 55.6	24/05/2011 01:41 57.7	25/05/2011 02:51 58.5	26/05/2011 04:01 57.4	27/05/2011 05:11 56.9
23/05/2011 00:36 46.0	24/05/2011 01:46 58.2	25/05/2011 02:56 57.8	26/05/2011 04:06 57.4	27/05/2011 05:16 57.4
23/05/2011 00:41 45.1	24/05/2011 01:51 57.1	25/05/2011 03:01 58.1	26/05/2011 04:11 57.3	27/05/2011 05:21 57.3
23/05/2011 00:46 51.2	24/05/2011 01:56 57.4	25/05/2011 03:06 58.8	26/05/2011 04:16 58.1	27/05/2011 05:26 58.4
23/05/2011 00:51 60.8	24/05/2011 02:01 57.1	25/05/2011 03:11 58.0	26/05/2011 04:21 57.2	27/05/2011 05:31 60.1
23/05/2011 00:56 61.3	24/05/2011 02:06 57.5	25/05/2011 03:16 57.6	26/05/2011 04:26 56.9	27/05/2011 05:36 59.7
23/05/2011 01:01 60.8	24/05/2011 02:11 57.3	25/05/2011 03:21 57.4	26/05/2011 04:31 57.6	27/05/2011 05:41 60.0
23/05/2011 01:06 61.0	24/05/2011 02:16 57.0	25/05/2011 03:26 58.6	26/05/2011 04:36 56.7	27/05/2011 05:46 59.3
23/05/2011 01:11 60.0	24/05/2011 02:21 57.0	25/05/2011 03:31 59.2	26/05/2011 04:41 57.0	27/05/2011 05:51 57.6
23/05/2011 01:16 59.7	24/05/2011 02:26 56.9	25/05/2011 03:36 59.3	26/05/2011 04:46 56.9	27/05/2011 05:56 57.7
23/05/2011 01:21 60.0	24/05/2011 02:31 57.5	25/05/2011 03:41 58.9	26/05/2011 04:51 55.8	27/05/2011 06:01 57.8
23/05/2011 01:26 59.7	24/05/2011 02:36 57.1	25/05/2011 03:46 58.6	26/05/2011 04:56 57.5	27/05/2011 06:06 59.8
23/05/2011 01:31 60.0	24/05/2011 02:41 56.3	25/05/2011 03:51 58.2	26/05/2011 05:01 55.8	27/05/2011 06:11 59.9
23/05/2011 01:36 60.5	24/05/2011 02:46 57.5	25/05/2011 03:56 59.1	26/05/2011 05:06 57.4	27/05/2011 06:16 58.9
23/05/2011 01:41 59.9	24/05/2011 02:51 56.6	25/05/2011 04:01 58.9	26/05/2011 05:11 57.6	27/05/2011 06:21 60.2
23/05/2011 01:46 59.7	24/05/2011 02:56 57.5	25/05/2011 04:06 59.5	26/05/2011 05:16 57.7	27/05/2011 06:26 61.9
23/05/2011 01:51 59.4	24/05/2011 03:01 56.1	25/05/2011 04:11 59.1	26/05/2011 05:21 59.0	27/05/2011 06:31 61.4
23/05/2011 01:56 59.3	24/05/2011 03:06 55.9	25/05/2011 04:16 59.5	26/05/2011 05:26 57.6	27/05/2011 06:36 61.4
23/05/2011 02:01 59.0	24/05/2011 03:11 55.8	25/05/2011 04:21 59.0	26/05/2011 05:31 61.7	27/05/2011 06:41 60.8
23/05/2011 02:06 58.8	24/05/2011 03:16 55.9	25/05/2011 04:26 59.3	26/05/2011 05:36 60.1	27/05/2011 06:46 55.2
23/05/2011 02:11 59.9	24/05/2011 03:21 56.9	25/05/2011 04:31 58.3	26/05/2011 05:41 58.8	27/05/2011 06:51 61.8
23/05/2011 02:16 58.9	24/05/2011 03:26 57.1	25/05/2011 04:36 59.3	26/05/2011 05:46 61.0	27/05/2011 06:56 61.9
23/05/2011 02:21 58.7	24/05/2011 03:31 58.2	25/05/2011 04:41 58.7	26/05/2011 05:51 59.8	27/05/2011 23:01 60.7
23/05/2011 02:26 58.8	24/05/2011 03:36 58.6	25/05/2011 04:46 59.0	26/05/2011 05:56 61.1	27/05/2011 23:06 61.6
23/05/2011 02:31 58.4	24/05/2011 03:41 58.3	25/05/2011 04:51 59.0	26/05/2011 06:01 61.3	27/05/2011 23:11 61.6
23/05/2011 02:36 57.8	24/05/2011 03:46 56.9	25/05/2011 04:56 59.0	26/05/2011 06:06 61.6	27/05/2011 23:16 61.0
23/05/2011 02:41 58.8	24/05/2011 03:51 57.4	25/05/2011 05:01 59.2	26/05/2011 06:11 60.1	27/05/2011 23:21 61.5
23/05/2011 02:46 58.4	24/05/2011 03:56 57.0	25/05/2011 05:06 59.0	26/05/2011 06:16 61.1	27/05/2011 23:26 61.1
23/05/2011 02:51 59.0	24/05/2011 04:01 58.1	25/05/2011 05:11 59.0	26/05/2011 06:21 60.6	27/05/2011 23:31 61.2
23/05/2011 02:56 58.8	24/05/2011 04:06 57.3	25/05/2011 05:16 59.0	26/05/2011 06:26 61.0	27/05/2011 23:36 60.8
23/05/2011 03:01 57.8	24/05/2011 04:11 58.7	25/05/2011 05:21 59.0	26/05/2011 06:31 61.6	27/05/2011 23:41 61.8
23/05/2011 03:06 59.0	24/05/2011 04:16 57.4	25/05/2011 05:26 59.2	26/05/2011 06:36 61.4	27/05/2011 23:46 60.7
23/05/2011 03:11 58.2	24/05/2011 04:21 57.2	25/05/2011 05:31 59.0	26/05/2011 06:41 60.1	27/05/2011 23:51 61.2
23/05/2011 03:16 60.0	24/05/2011 04:26 57.2	25/05/2011 05:36 59.2	26/05/2011 06:46 57.8	27/05/2011 23:56 61.2
23/05/2011 03:21 58.8	24/05/2011 04:31 56.8	25/05/2011 05:41 61.0	26/05/2011 06:51 50.2	
23/05/2011 03:26 60.1	24/05/2011 04:36 57.9	25/05/2011 05:46 60.3	26/05/2011 06:56 57.7	* Exceedance recorded during
23/05/2011 03:31 58.0	24/05/2011 04:41 58.9	25/05/2011 05:51 61.0	26/05/2011 23:01 60.7	monitoring
23/05/2011 03:36 58.5	24/05/2011 04:46 57.8	25/05/2011 05:56 61.6	26/05/2011 23:06 61.2	
23/05/2011 03:41 58.9	24/05/2011 04:51 59.8	25/05/2011 06:01 51.5	26/05/2011 23:11 61.1	
23/05/2011 03:46 58.7	24/05/2011 04:56 58.2	25/05/2011 06:06 61.5	26/05/2011 23:16 61.7	
23/05/2011 03:51 58.6	24/05/2011 05:01 57.5	25/05/2011 06:11 57.8	26/05/2011 23:21 60.7	
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23/05/2011 04:01 58.2	24/05/2011 05:11 58.0	25/05/2011 06:21 61.6	26/05/2011 23:31 61.6	
23/05/2011 04:06 58.1	24/05/2011 05:16 59.1	25/05/2011 06:26 60.8	26/05/2011 23:36 61.6	
23/05/2011 04:11 59.1	24/05/2011 05:21 58.8	25/05/2011 06:31 58.2	26/05/2011 23:41 60.9	
23/05/2011 04:16 58.9	24/05/2011 05:26 58.2	25/05/2011 06:36 57.7	26/05/2011 23:46 61.3	
23/05/2011 04:21 58.1	24/05/2011 05:31 58.9	25/05/2011 06:41 58.5	26/05/2011 23:51 60.9	
23/05/2011 04:26 59.7	24/05/2011 05:36 59.7	25/05/2011 06:46 60.7	26/05/2011 23:56 60.8	
23/05/2011 04:31 59.2	24/05/2011 05:41 59.3	25/05/2011 06:51 62.0	27/05/2011 00:01 60.7	
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23/05/2011 05:01 60.0	24/05/2011 06:11 60.8	25/05/2011 23:21 61.6	27/05/2011 00:31 60.4	
23/05/2011 05:06 60.6	24/05/2011 06:16 63.5	25/05/2011 23:26 61.3	27/05/2011 00:36 60.2	
23/05/2011 05:11 61.2	24/05/2011 06:21 63.1	25/05/2011 23:31 61.1	27/05/2011 00:41 59.6	
23/05/2011 05:16 61.5	24/05/2011 06:26 62.5	25/05/2011 23:36 61.6	27/05/2011 00:46 59.7	
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23/05/2011 05:41 61.8	24/05/2011 06:51 61.0	26/05/2011 00:01 61.7	27/05/2011 01:11 60.1	
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23/05/2011 05:56 58.4	24/05/2011 23:06 53.3	26/05/2011 00:16 61.1	27/05/2011 01:26 58.3	
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23/05/2011 06:06 59.4	24/05/2011 23:16 56.3	26/05/2011 00:26 61.0	27/05/2011 01:36 60.3	
23/05/2011 06:11 60.5	24/05/2011 23:21 61.9	26/05/2011 00:31 60.0	27/05/2011 01:41 58.5	
23/05/2011 06:16 61.5	24/05/2011 23:26 47.1	26/05/2011 00:36 60.5	27/05/2011 01:46 58.5	
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23/05/2011 06:26 61.0	24/05/2011 23:36 61.7	26/05/2011 00:46 60.1	27/05/2011 01:56 57.9	
23/05/2011 06:31 61.5	24/05/2011 23:41 61.9	26/05/2011 00:51 59.1	27/05/2011 02:01 57.5	
23/05/2011 06:36 61.1	24/05/2011 23:46 61.3	26/05/2011 00:56 59.7	27/05/2011 02:06 57.9	
23/05/2011 06:41 63.3	24/05/2011 23:51 46.4	26/05/2011 01:01 58.7	27/05/2011 02:11 57.8	
23/05/2011 06:46 64.7	24/05/2011 23:56 51.8	26/05/2011 01:06 59.3	27/05/2011 02:16 58.4	
23/05/2011 06:51 62.8	25/05/2011 00:01 61.3	26/05/2011 01:11 58.9	27/05/2011 02:21 56.6	
23/05/2011 06:56 62.8	25/05/2011 00:06 60.7	26/05/2011 01:16 58.5	27/05/2011 02:26 56.7	
23/05/2011 23:01 54.3	25/05/2011 00:11 53.4	26/05/2011 01:21 58.4	27/05/2011 02:31 57.1	
23/05/2011 23:06 61.7	25/05/2011 00:16 61.2	26/05/2011 01:26 57.8	27/05/2011 02:36 57.0	
23/05/2011 23:11 42.5	25/05/2011 00:21 61.1	26/05/2011 01:31 58.2	27/05/2011 02:41 56.2	
23/05/2011 23:16 48.4	25/05/2011 00:26 60.6	26/05/2011 01:36 59.4	27/05/2011 02:46 56.2	
23/05/2011 23:21 61.8	25/05/2011 00:31 60.9	26/05/2011 01:41 60.5	27/05/2011 02:51 57.0	
23/05/2011 23:26 61.4	25/05/2011 00:36 60.6	26/05/2011 01:46 58.1	27/05/2011 02:56 56.5	
23/05/2011 23:31 61.9	25/05/2011 00:41 60.1	26/05/2011 01:51 59.3	27/05/2011 03:01 56.4	
23/05/2011 23:36 61.5	25/05/2011 00:46 60.2	26/05/2011 01:56 57.3	27/05/2011 03:06 56.3	
23/05/2011 23:41 61.8	25/05/2011 00:51 59.7	26/05/2011 02:01 57.7	27/05/2011 03:11 56.3	
23/05/2011 23:46 61.9	25/05/2011 00:56 61.8	26/05/2011 02:06 58.1	27/05/2011 03:16 56.8	
23/05/2011 23:51 51.5	25/05/2011 01:01 59.3	26/05/2011 02:11 57.8	27/05/2011 03:21 55.9	
23/05/2011 23:56 61.6	25/05/2011 01:06 59.3	26/05/2011 02:16 57.4	27/05/2011 03:26 58.2	
24/05/2011 00:01 61.2	25/05/2011 01:11 59.3	26/05/2011 02:21 56.5	27/05/2011 03:31 58.6	
24/05/2011 00:06 60.8	25/05/2011 01:16 58.3	26/05/2011 02:26 58.9	27/05/2011 03:36 58.4	
24/05/2011 00:11 61.8	25/05/2011 01:21 59.7	26/05/2011 02:31 56.8	27/05/2011 03:41 59.0	
24/05/2011 00:16 60.9	25/05/2011 01:26 59.8	26/05/2011 02:36 57.4	27/05/2011 03:46 57.7	
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24/05/2011 00:26 60.2	25/05/2011 01:36 58.6	26/05/2011 02:46 57.1	27/05/2011 03:56 57.6	
24/05/2011 00:31 60.2	25/05/2011 01:41 59.1	26/05/2011 02:51 57.4	27/05/2011 04:01 57.6	
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24/05/2011 00:41 59.3	25/05/2011 01:51 59.0	26/05/2011 03:01 56.1	27/05/2011 04:11 57.8	
24/05/2011 00:46 60.2	25/05/2011 01:56 58.2	26/05/2011 03:06 56.3	27/05/2011 04:16 57.3	
24/05/2011 00:51 60.0	25/05/2011 02:01 58.1	26/05/2011 03:11 57.0	27/05/2011 04:21 57.1	
24/05/2011 00:56 59.2	25/05/2011 02:06 58.2	26/05/2011 03:16 55.6	27/05/2011 04:26 57.1	
24/05/2011 01:01 59.9	25/05/2011 02:11 57.6	26/05/2011 03:21 55.8	27/05/2011 04:31 57.1	
24/05/2011 01:06 59.3	25/05/2011 02:16 58.6	26/05/2011 03:26 56.4	27/05/2011 04:36 57.1	
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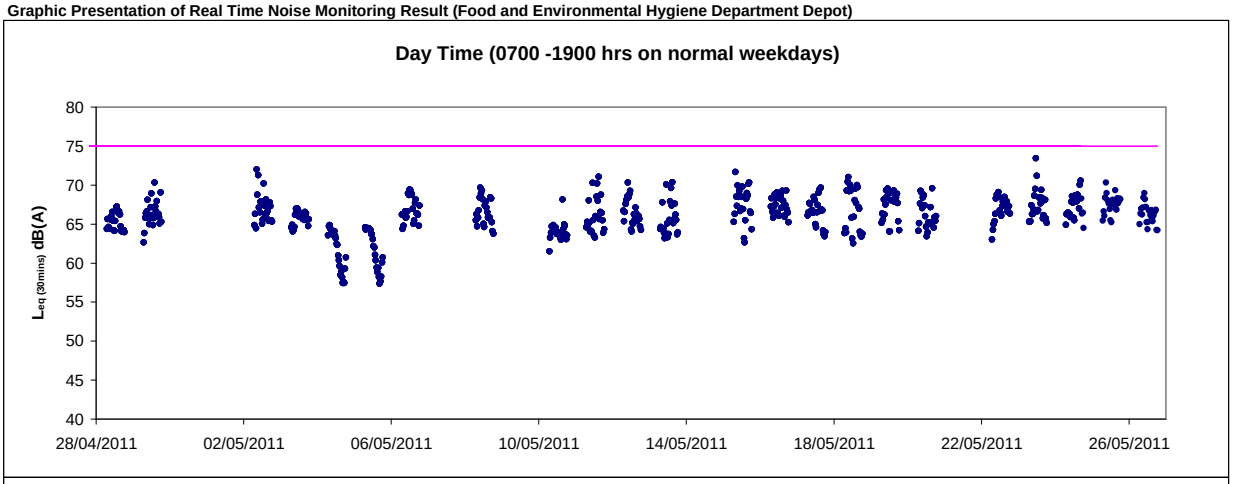
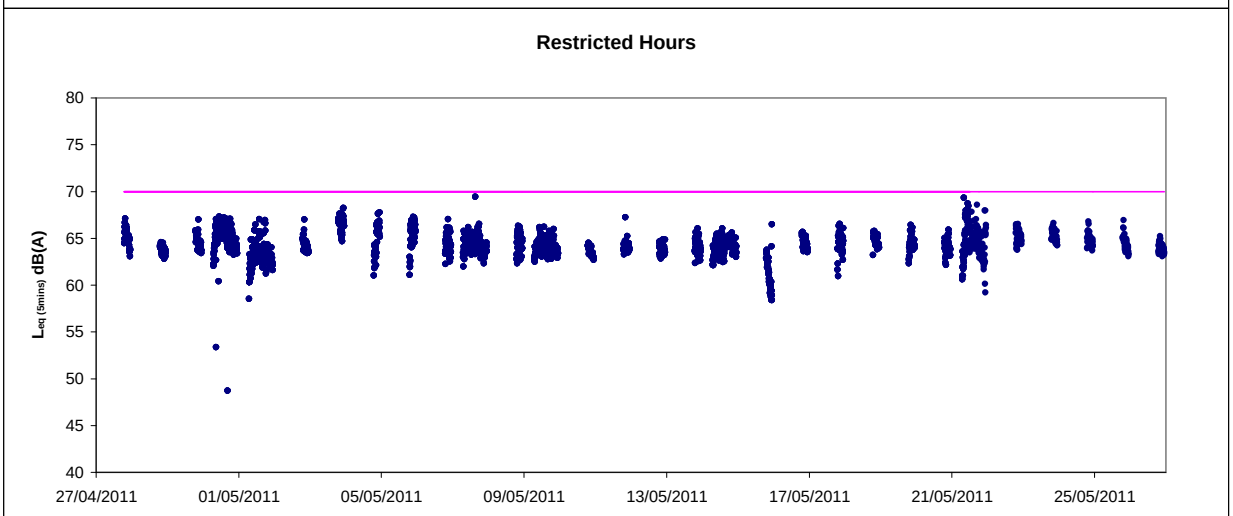
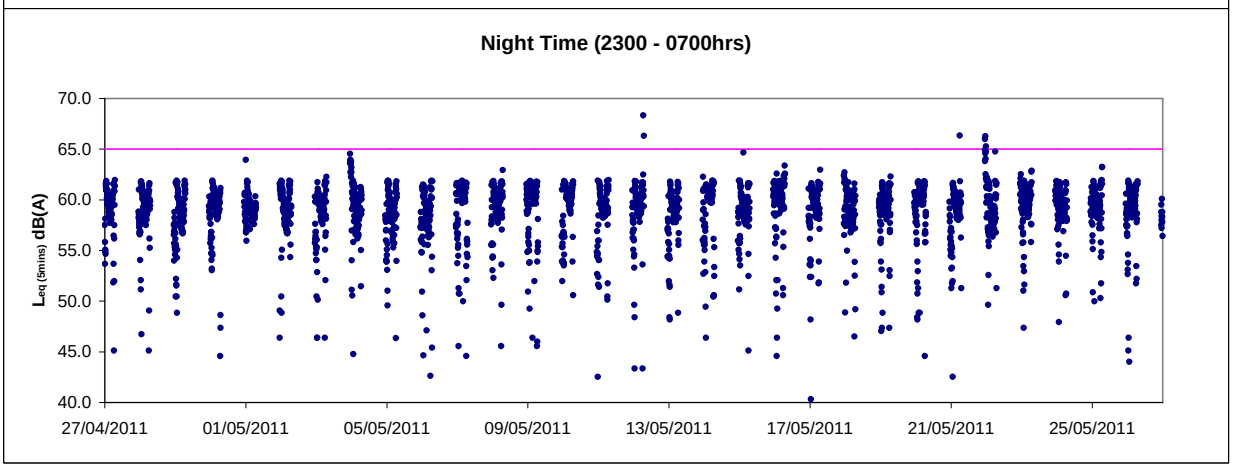
24/05/2011 01:21 59.6	25/05/2011 02:31 57.8	26/05/2011 03:41 57.4	27/05/2011 04:51 56.3	
24/05/2011 01:26 59.0	25/05/2011 02:36 57.7	26/05/2011 03:46 57.5	27/05/2011 04:56 56.0	
24/05/2011 01:31 58.6	25/05/2011 02:41 57.7	26/05/2011 03:51 57.2	27/05/2011 05:01 56.9	
24/05/2011 01:36 58.2	25/05/2011 02:46 57.6	26/05/2011 03:56 56.6	27/05/2011 05:06 57.4	

Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)

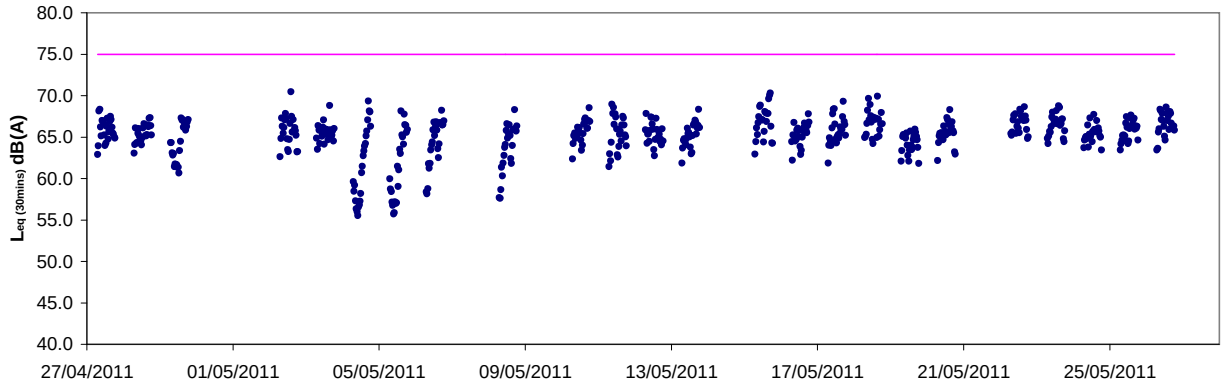




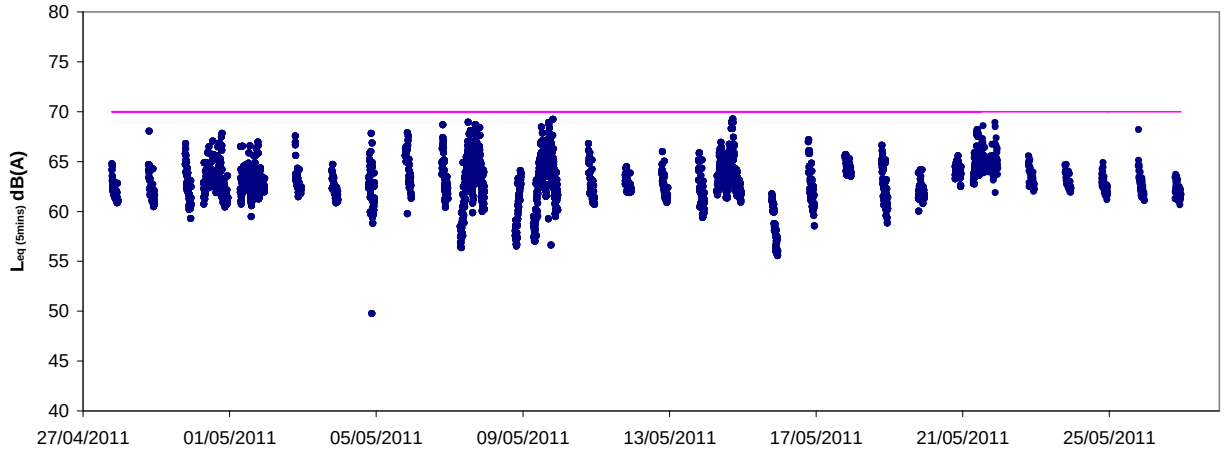


Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)

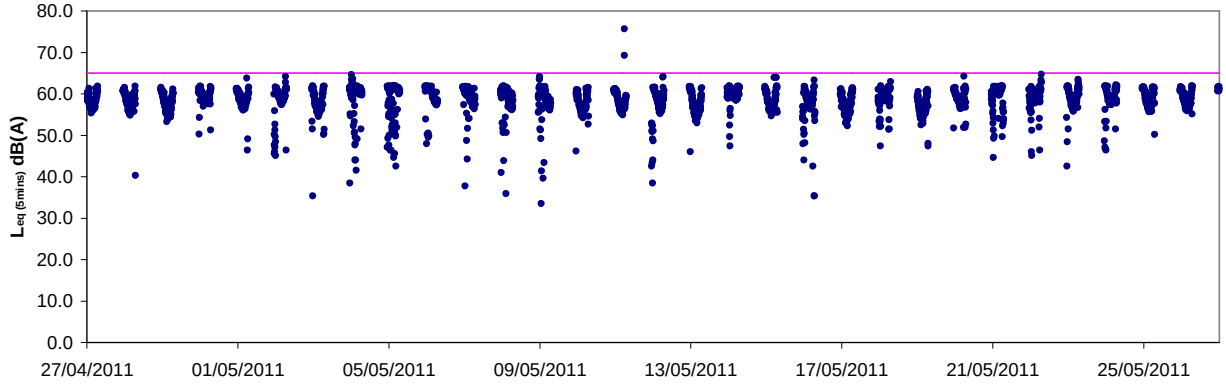
Day Time (0700 -1900 hrs on normal weekdays)



Restricted hours on normal weekdays and 0700 – 2300hrs on public holidays



Restricted hours on Night time (2300 – 0700 hrs)



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)

Appendix 6.2

Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W221	3-May-11	Mid-ebb	WSD21	DO (mg/L)	5.18	3.17	2.63	Possible reason:	Water quality influence from WSD screen washing
				Turbidity	5.84	10.01	11.54	Action taken / to be taken:	WSD washing screen was observed during the water monitoring. The major marine activity was the land-filling at WCR1 on 3 May 2011. Compared with the water quality nearer the WCR1, water quality at C5e and C5w was well below the Action Level.
				Suspended Solid	**18.00**	16.26	19.74	Remarks / Other Obs:	Silt screen & silt curtain were in proper condition during monitoring. In the view of no exceedance recorded at the monitoring Stations near the marine works area , it is considered not related to the Project.
X_W222	5-May-11	Mid-flood	WSD17	DO (mg/L)	5.29	3.17	2.63	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	**11.93**	10.01	11.54	Action taken / to be taken:	Silt screen & silt curtain were in proper condition during monitoring.
				Suspended Solid	**26.50**	16.26	19.74	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide, the SS exceedance is definitely non-works related under the Project.
X_W223	5-May-11	Mid-ebb	WSD19	DO (mg/L)	5.44	3.17	2.63	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	**10.51**	10.01	11.54	Action taken / to be taken:	According to the information reported by Contractor HK/2009/01, filling operation in HKCEC1 area and rock armour removal in Wan Chai side for Cross Harbour Water mains were carried out.
				Suspended Solid	**16.50**	16.26	19.74	Remarks / Other Obs:	In view that WSD19 was located in upstream of the Project during ebb tide, the turbidity and SS exceedances were definitely non-works related under the Project.
X_W224	12-May-11	Mid-ebb	WSD15	DO (mg/L)	5.55	3.17	2.63	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	**10.75**	10.01	11.54	Action taken / to be taken:	Comparing with the monitoring stations closer to the site, no exceedance was recorded at the stations near the marine work site of Contract HY200911.
				Suspended Solid	5.50	16.26	19.74	Remarks / Other Obs:	Silt screen & silt curtain were in proper condition during monitoring. In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HY/2009/11, it is considered not related to the Project.
X_W225	16-May-11	Mid-flood	WSD17	DO (mg/L)	5.54	3.17	2.63	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	**11.53**	10.01	11.54	Action taken / to be taken:	Silt screen & silt curtain were in proper condition during monitoring. Checked with Contractor's works on 16 May 2011, no marine works were undertaken after 1800hr.
				Suspended Solid	15.00	16.26	19.74	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide, the SS exceedance is definitely non-works related under the Project.
X_W226	18-May-11	Mid-flood	WSD17	DO (mg/L)	4.26	3.17	2.63	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	6.58	10.01	11.54	Action taken / to be taken:	Silt screen & silt curtain were in proper condition during monitoring. Checked with Contractor's works on 18 May 2011, no marine works were undertaken after 1800hr.
				Suspended Solid	**17.00**	16.26	19.74	Remarks / Other Obs:	In view that WSD17 was located in upstream of the Project during flood tide, the SS exceedance is definitely non-works related under the Project.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C239	28-Apr-11	Mid-ebb	C8	DO (mg/L)	4.83	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
	21:01			Turbidity (NTU)	6.71	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities; Sediment dredging was completed on 21 Apr 2011. No any marine works were undertaken after 18:00 on that day.
				SS (mg/L)	**17.50**	15.00	22.13	Remarks / Other Obs:	SS value was within the tolerance of baseline range at C8. No consecutive exceedance was recorded in the next monitoring. In view that the no marine works were undertaken after 18:00, the exceedances were considered not related to the Project works.
X_10C240	28-Apr-11	Mid-flood	C9	DO (mg/L)	5.67	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	4.38	9.1	10.25	Action taken / to be taken:	Silt screen & silt curtain were in proper condition during monitoring.
				SS (mg/L)	**19.00**	15.00	22.13	Remarks / Other Obs:	SS value was within the tolerance of baseline range at C9. In view that C9 was located in upstream of the Project during flood tide, the SS exceedance is definitely non-works related under the Project.
X_10C244	3-May-11	Mid-ebb	C9	DO (mg/L)	6.43	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	**11.53**	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities; Sediment dredging was completed on 21 Apr 2011. Only installation of concrete blocks under water for the open channel where in front of the Hong Kong Electric and concreting works on top of installed caisson seawall were undertaken.
				SS (mg/L)	10.50	18.42	27.54	Remarks / Other Obs:	No consecutive exceedance was recorded in the next monitoring. The silt screen and silt curtain were in proper condition during the monitoring. In view that no major marine work was undertaken, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C245	5-May-11	Mid-flood	C8	DO (mg/L)	4.15	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
	19:10			Turbidity (NTU)	**12.98**	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities; Sediment dredging was completed on 21 Apr 2011. No any marine works were undertaken after 18:00 on that day.
				SS (mg/L)	**19.00**	18.42	27.54	Remarks / Other Obs:	SS value was within the tolerance of baseline range at C8. No consecutive exceedance was recorded in the next monitoring. In view that the no marine works were undertaken after 18:00, the exceedances were considered not related to the Project works.

Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C246	5-May-11	Mid-ebb	C1	DO (mg/L)	6.15	3.02	2.44	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	**11.45**	11.35	12.71	Action taken / to be taken:	Silt screen was in proper condition and no potential water impact was observed near Station C1 during monitoring. Checked with the Contractor's marine work, there was no dredging works at cross harbour water main on 5 May 2011.
				SS (mg/L)	17.00	18.42	27.54	Remarks / Other Obs:	In view that no potential water impact near station C1, the turbidity exceedance was considered not related to the contractor's works.
X_10C250	10-May-11	Mid-flood	C9	DO (mg/L)	5.35	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
	21:02			Turbidity (NTU)	4.62	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities; Sediment dredging was completed on 21 Apr 2011. No any marine works were undertaken after 18:00 on that day.
				SS (mg/L)	**19.00**	18.42	27.54	Remarks / Other Obs:	SS value was within the tolerance of baseline range at C9. No consecutive exceedance was recorded in the next monitoring. In view that the no marine works were undertaken after 18:00, the exceedances were considered not related to the Project works.
X_10C255	18-May-11	Mid-flood	C9	DO (mg/L)	4.14	3.02	2.44	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	**13.45**	11.35	12.71	Action taken / to be taken:	Checked with the contractor marine work activities; No sediment dredging was undertaken on 18 May 2011.
				SS (mg/L)	**20.00**	18.42	27.54	Remarks / Other Obs:	In view of no consecutive exceedance was recorded in the next monitoring, the exceedances were considered not related to the Project works.
X_10C261	25-May-11	Mid-ebb	Ex-WPCWA SE	DO (mg/L)	**3.11**	3.55	3.00	Possible reason:	Floating grease and debris from the outfall
								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 25 May 2011.
								Remarks / Other Obs:	In view that there was no marine works at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C237	28-Apr-11	15:15	Mid-flood	C3	DO (mg/L)	4.67	3.36	2.73
					Turbidity (NTU)	**11.58**	9.1	10.25
					SS (mg/L)	**16.50**	15.00	22.13
X_10C238	28-Apr-11	21:25	Mid-ebb	C3	DO (mg/L)	4.56	3.36	2.73
					Turbidity (NTU)	**14.20**	9.1	10.25
					SS (mg/L)	**20.50**	15.00	22.13
X_10C241	30-Apr-11	15:16	Mid-flood	C3	DO (mg/L)	5.85	3.02	2.44
					Turbidity (NTU)	**20.80**	11.35	12.71
					SS (mg/L)	18.00	18.42	27.54

Follow-up action	
Possible reason:	Trapping of material inside the silt screen and not adequately removed by Contractor in time.
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 28 Apr 2011 Mid-flood: 6.59NTU 28 Apr 2011 Mid-ebb: 7.56NTU 30 Apr 2011 Mid-flood: 8.75NTU Investigation found that the turbidity levels outside the silt screen on 28 and 30 Apr 2011 were well below the Action Level while turbidity exceedances were recorded inside the silt screen. Checked with RE and Contractor that the filling by mud barge, conveyor belt and end-tipped were undertaken on 28 and 30 Apr 2011. Based on the investigation, it represented that the silt curtain for the filling operation was in proper function on 28 and 30 Apr 2011. ET and RE recommended Contractor to check any outfall pipe under the promenade deck and they had checked and replied there is no any outfall under it. ET keep in view the trend of water monitoring data and mitigation measures any further deterioration of water quality in water channel and the effectiveness of the remedial measures.
Remarks / Other Obs:	The turbidity and SS exceedances were related to the lack of attention to remove the trapping of material inside the silt screen.

Remarks: AL-LL for the wet season are applied after the approval of Updated EM&A Manual on 29 April 2011.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C242	3-May-11	17:45	Mid-flood	C3	DO (mg/L)	5.30	3.02	2.44
					Turbidity (NTU)	**11.55**	11.35	12.71
					SS (mg/L)	15.00	18.42	27.54
X_10C243	3-May-11	12:10	Mid-ebb	C3	DO (mg/L)	5.73	3.02	2.44
					Turbidity (NTU)	8.99	11.35	12.71
					SS (mg/L)	**22.50**	18.42	27.54

Follow-up action	
Possible reason:	Trapping of material inside the silt screen and not adequately removed by Contractor in time.
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 3 May 2011 Mid-flood: 5.91NTU Investigation found that the turbidity levels outside the silt screen on 3 May 2011 at mid-flood was well below the Action Level while turbidity exceedances were recorded inside the silt screen. Checked with RE and Contractor that the filling by conveyor belt and end-tipped were undertaken on 3 May 2011. Based on the investigation, it represented that the silt curtain for the filling operation was in proper function on 3 May 2011. ET and RE recommended Contractor to check any outfall pipe under the promenade deck and they had checked and replied there is no any outfall under it. ET keep in view the trend of water monitoring data and mitigation measures any further deterioration of water quality in water channel and the effectiveness of the remedial measures.
Remarks / Other Obs:	The turbidity and SS exceedances were related to the lack of attention to remove the trapping of material inside the silt screen.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C247	5-May-11	11:30	Mid-ebb	C3	DO (mg/L)	5.82	3.02	2.44
					Turbidity (NTU)	**52.45**	11.35	12.71
					SS (mg/L)	**75.00**	18.42	27.54
X_10C248	7-May-11	11:43	Mid-ebb	C3	DO (mg/L)	5.22	3.02	2.44
					Turbidity (NTU)	**12.25**	11.35	12.71
					SS (mg/L)	16.00	18.42	27.54

Follow-up action	
Possible reason:	Silt screen defect and deployed silt curtain not properly maintained as identified during regular site inspections
Action taken / to be taken:	Immediate repeated measurement s had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 05 May 2011 Mid-ebb: 18.25NTU 07 May 2011 Mid-ebb: 17.38NTU Investigation indicated that the turbidity levels outside the silt screen were also higher than the Limit Level. Site inspection on 4 May 2011 revealed that muddy dispersion from the silt curtain for the filling by conveyor belt and not fully enclosed silt curtain surrounding filling area of HKCEC1 were observed. ET and RE reminded Contractor to closely check and well maintain the mitigation measures for filling operation, especially the silt curtain deployment at site and silt screen maintenance. In response to the recorded exceedances, Contractor checked the silt screen by diver inspection on 5 May 2011. A gap was found at the bottom of the frame type silt screen. Besides, blockage of silt screen was found in one of the frame type silt screens at C3, increasing the tendency of suction via the gap at the bottom of the silt screen frame. The maintenance works including grouting of the gap and replacement of the existing geotextile enclosing the silt screen were then conducted on 6 and 7 May 2011. Furthermore, the existing geo-textile at the doom in the water channel had been replaced and an additional silt curtain at Expo Drive East has been installed on 7 May 2011. ET continue to keep in view of the trend of water monitoring data, any continuous improvement of water quality in water channel and the effectiveness of the remedial measures.
Remarks / Other Obs:	The turbidity and SS exceedances were concluded in relation to silt screen defect and lack of response to the deficiencies in silt screen and silt curtain deployment

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C251	12-May-11	11:48	Mid-flood	C3	DO (mg/L)	5.79	3.02	2.44
					Turbidity (NTU)	**27.03**	11.35	12.71
					SS (mg/L)	**32.00**	18.42	27.54
X_10C252	14-May-11	11:18	Mid-ebb	C3	DO (mg/L)	5.91	3.02	2.44
					Turbidity (NTU)	**16.73**	11.35	12.71
					SS (mg/L)	**19.00**	18.42	27.54

Follow-up action	
Possible reason:	Trapping of material inside the silt screen and not adequately removed by Contractor in time.
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 12 May 2011 Mid-flood: 8.63NTU 14 May 2011 Mid-ebb: 10.55NTU Investigation found that the turbidity levels outside the silt screen on 12 and 14 May 2011 were well below the Action Level while turbidity exceedances were recorded inside the silt screen. Checked with RE and Contractor that the filling by mud barge, conveyor belt and truck were undertaken on 12 and 14 May 2011. Based on the investigation, it represented that the silt curtains for the filling operation were in proper function on 12 and 14 May 2011. The deployed silt curtains in the water channel were also observed in proper condition during the weekly site inspection on 11 May 2011. ET keep in view the trend of water monitoring data and mitigation measures any further deterioration of water quality in water channel and the effectiveness of the remedial measures.
Remarks / Other Obs:	The turbidity and SS exceedances were related to the lack of attention to remove the trapping of material inside the silt screen.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C253	16-May-11	11:25	Mid-ebb	C3	DO (mg/L)	5.79	3.02	2.44
					Turbidity (NTU)	**39.65**	11.35	12.71
					SS (mg/L)	**40.50**	18.42	27.54
X_10C254	18-May-11	10:40	Mid-ebb	C3	DO (mg/L)	5.59	3.02	2.44
					Turbidity (NTU)	**16.03**	11.35	12.71
					SS (mg/L)	**29.50**	18.42	27.54
X_10C256	19-May-11	10:27	Ebb	C3	DO (mg/L)	5.31	3.02	2.44
					Turbidity (NTU)	**11.93**	11.35	12.71
					SS (mg/L)	13.50	18.42	27.54

Follow-up action	
Possible reason:	Deployed silt curtain was not properly managed and controlled as identified during site inspections and monitoring
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 16 May 2011 Mid-ebb: 67.85NTU 18 May 2011 Mid-ebb: 37.93NTU Investigation indicated that the turbidity levels outside the silt screen were also higher than the Limit Level. It revealed that the silt curtain were not proper managed and controlled to minimize the migration the filling material in water course. During the site inspection on 16 May 2011, improper silt curtain between southbound and northbound water channel was found at water channel causing the dispersion of muddy boom along the water channel. Contractor was immediately reminded to well maintain and keep the silt curtain always closed. Besides, Contractor was also reminded to comply with the relevant condition(s) under FEP-02/356/2009, the associated condition(s) under EP-356/2009 and relevant condition(s) of the applicable EIA report by ET and IEC on 16 and 17 May 2011. In response to the recorded limit level exceedances identified caused by the improper control and management of silt curtain on 16 May 2011, the frequency of water quality monitoring has been increased to daily from 17 May 2011 so that to keep in view of any further deterioration of water quality in water channel and the effectiveness of the remedial measures. With further Limit Level exceedances recorded on 18 May 2011, the filling operation was suspended from the 19 May 2011 morning until the performance of all mitigation measures was improved. After that, no further limit level exceedance was recorded from 20 May 2011 to 21 May 2011. RE and ET checked and confirmed the deployed silt curtain and silt screen at site in proper condition with sufficient depth before resuming the filling operation on 23 May 2011.
Remarks / Other Obs:	The turbidity and SS exceedances were confirmed in relation to the improper management and control of silt curtain for filling operation. The trend of water quality monitoring data would be kept in view for any further deterioration of water quality in water channel and the effectiveness of the remedial measures. Filling operation was suspended from the 19 May 2011 morning until 23 May 2011 morning.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C258	23-May-11	16:33	Mid-ebb	C3	DO (mg/L)	5.69	3.02	2.44
					Turbidity (NTU)	**13.30**	11.35	12.71
					SS (mg/L)	15.50	18.42	27.54
X_10C259	25-May-11	17:15	Mid-ebb	C3	DO (mg/L)	5.59	3.02	2.44
					Turbidity (NTU)	**15.13**	11.35	12.71
					SS (mg/L)	12.50	18.42	27.54

Follow-up action	
Possible reason:	Accumulation of wastewater and debris from the uncharged discharge pipe inside the silt screen
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 23 May 2011 Mid-ebb: 5.13NTU 25 May 2011 Mid-ebb: 5.17NTU Investigation found that the turbidity levels outside the silt screen on 23 and 25 May 2011 were well below the Action Level while turbidity exceedances were recorded inside the silt screen. During the water quality monitoring on 23 May 2011, lot of floating debris was accumulated inside silt screen which was unlikely caused from the filling material. Contractor was advised to increase the frequency of the checking and removal of floating refuse to avoid the accumulation of debris inside the silt screen. Furthermore, tracing of any gap and double checking of any outfall at the frame type silt screen were recommended. A discharge pipe for HKCEC was discovered located in between the C3 intake inlets and inside the silt screen by Contractor on 24 May 2011. A site investigation with ARE and SIOW from AACL, ET, IEC, Contractor and stakeholder was conducted on 27 May 2011 morning to confirm the existence of discharge pipe under the dome. Cooling water and wastewater from the sump pit are irregularly discharged under the dome. Diversion deign of the discharge pipe is under discussion between Contractor and Stakeholder to minimize the impact from the discharge pipe. To avoid the influence on water quality monitoring from the wastewater discharge, the in-situ water quality monitoring will be conducted outside the silt screen for the checking of relation from the Project when the water quality inside the silt screen exceed the Action or Limit Level.
Remarks / Other Obs:	The turbidity exceedances were confirmed related to accumulation of wastewater and debris from the uncharged discharge pipe inside the silt screen, therefore it was concluded non-project related exceedances. As such, the monitoring frequency has returned to three times per week at mid-ebb and mid-flood since 27 May 2011.

Ref no.	Date	Time	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level
X_10C260	27-May-11	9:54	Ebb	C3	DO (mg/L)	5.24	3.02	2.44
					Turbidity (NTU)	**13.40**	11.35	12.71
					SS (mg/L)	**19.50**	18.42	27.54

Follow-up action	
Possible reason:	Accumulation of wastewater and debris from the discharge pipe inside the silt screen
Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Notification of exceedances were immediate informed to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Additional turbidity measurement was immediately taken outside the silt screen when the Action Level or Limit Level exceedance was recorded inside the silt screen. The turbidity levels outside the silt screen were as below: 27 May 2011: 3.78NTU Investigation found that the turbidity levels outside the silt screen on 27 May 2011 was well below the Action Level while turbidity exceedances were recorded inside the silt screen. A discharge pipe for HKCEC was discovered located in between the C3 intake inlets and inside the silt screen by Contractor on 24 May 2011. Cooling water and wastewater from the sump pit are irregularly discharged under the dome. Diversion deign of the discharge pipe is under discussion between Contractor and Stakeholder to minimize the impact from the discharge pipe. To avoid the influence on water quality monitoring from the wastewater discharge, the in-situ water quality monitoring will be conducted outside the silt screen for the checking of relation from the Project when the water quality inside the silt screen exceed the Action or Limit Level.
Remarks / Other Obs:	The turbidity exceedances were confirmed related to accumulation of wastewater and debris from the uncharged discharge pipe inside the silt screen, therefore it was concluded non-project related exceedances. As such, the monitoring frequency has returned to three times per week at mid-ebb and mid-flood since 27 May 2011.

Appendix 9.1

Complaint Log

Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	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, Polic 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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.	
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. Peter 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	City Garden, North	Two barges were generating	1) ET confirmed the following information with resident site	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		resident of 27/F, Block 10, City Garden by ICC (ICC case: 1-266039336)	Point	noise at 22:00 on 6 December 2010 in which the noise from 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.	staff on the complaint: • It was referred to the filling operation at North Point 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 precast 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	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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..	
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

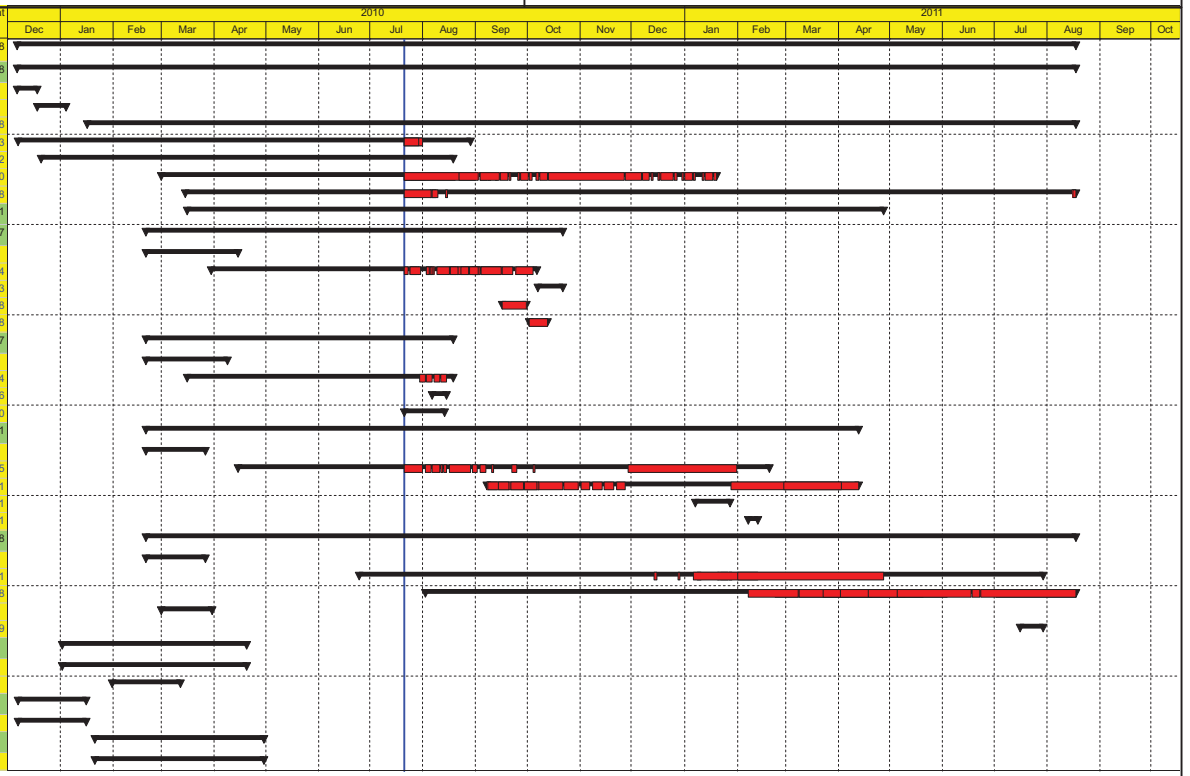
Appendix 10.1

Construction Programme of Individual Contracts

Contract no. HY/2009/11

Detailed Works Programme ver.2 updated 21Jul2010 | Executive Summary | 27-Jul-10 13:59

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
	Detailed Works Programme ver.2 updated 21Ju	619	393	07-Dec-09 A	17-Aug-11	-8
	PRELIMINARIES	619	393	07-Dec-09 A	17-Aug-11	-8
	PROJECT COMMENCEMENT	34	0	07-Dec-09 A	18-Dec-09 A	
	POSSESSION OF SITE	17	0	18-Dec-09 A	04-Jan-10 A	
	COMPLETION SECTION OF WORKS	578	368	16-Jan-10 A	17-Aug-11	-8
	GENERAL SUBMISSION	265	39	07-Dec-09 A	28-Aug-10	3
	TEMPORARY AND CONTRACTOR DESIGN	230	29	21-Dec-09 A	18-Aug-10	72
	PRE-CAST CAISSON SEAWALL	316	183	01-Mar-10 A	19-Jan-11	0
	PRE-CAST SEAWALL BLOCK	535	393	15-Mar-10 A	17-Aug-11	-8
	Overall Construction	408	281	16-Mar-10 A	27-Apr-11	61
	SECTION 1 OF WORKS (290 DAYS)	214	93	20-Feb-10 A	21-Oct-10	127
	GEOTECHNICAL INSTRUMENTATION AND MONITORING \	14	0	20-Feb-10 A	15-Apr-10 A	
	SEAWALLS AND RECLAMATION WORKS	169	78	30-Mar-10 A	06-Oct-10	44
	DRAINAGE WORKS	12	12	07-Oct-10	21-Oct-10	103
	LANDING STEPS	12	12	16-Sep-10	30-Sep-10	-8
	FENDERS AND RUBBER STEPS	9	9	02-Oct-10	12-Oct-10	-8
	SECTION 1A OF WORKS (230 DAYS)	156	29	20-Feb-10 A	18-Aug-10	177
	GEOTECHNICAL INSTRUMENTATION AND MONITORING \	12	0	20-Feb-10 A	09-Apr-10 A	
	SEAWALLS AND RECLAMATION WORKS	156	20	16-Mar-10 A	18-Aug-10	4
	DRAINAGE WORKS	8	8	06-Aug-10	14-Aug-10	146
	COPINGS	21	21	21-Jul-10	13-Aug-10	10
	SECTION 2 OF WORKS (470 DAYS)	387	266	20-Feb-10 A	12-Apr-11	-11
	GEOTECHNICAL INSTRUMENTATION AND MONITORING \	22	0	20-Feb-10 A	27-Mar-10 A	
	SEAWALLS AND RECLAMATION WORKS	249	175	15-Apr-10 A	19-Feb-11	35
	DRAINAGE WORKS	218	218	07-Sep-10	12-Apr-11	-11
	LANDING STEPS	18	18	07-Jan-11	27-Jan-11	41
	FENDERS AND RUBBER STEPS	6	6	07-Feb-11	12-Feb-11	41
	SECTION 3 OF WORKS (600 DAYS)	514	393	20-Feb-10 A	17-Aug-11	-8
	GEOTECHNICAL INSTRUMENTATION AND MONITORING \	42	0	20-Feb-10 A	27-Mar-10 A	
	SEAWALLS AND RECLAMATION WORKS	374	374	25-Jun-10 A	29-Jul-11	11
	DRAINAGE WORKS	381	381	02-Aug-10	17-Aug-11	-8
	COMMUNITY LIAISON CENTRE	90	0	01-Mar-10 A	31-Mar-10 A	
	PERMANENT RELOCATION OF NAVIGATION LIGHT	12	12	16-Jul-11	29-Jul-11	9
	SECTION 4 OF WORKS (110 DAYS)	90	0	02-Jan-10 A	20-Apr-10 A	
	WORKS IN PORTION NPR4	74	0	02-Jan-10 A	20-Apr-10 A	
	WORKS IN PORTION NPR4A AND NPR4B	34	0	31-Jan-10 A	12-Mar-10 A	
	SECTION 5 OF WORKS (30 DAYS)	23	0	07-Dec-09 A	16-Jan-10 A	
	WORKS IN PORTION NPR5A	23	0	07-Dec-09 A	16-Jan-10 A	
	SECTION 6 OF WORKS (120 DAYS)	112	0	21-Jan-10 A	30-Apr-10 A	
	WORKS IN PORTIONS NPR5B,NPR5C,NPR5D AND NPR5E	112	0	21-Jan-10 A	30-Apr-10 A	



Actual Work | Critical Remaining Work | Summary

Remaining Work | Milestone

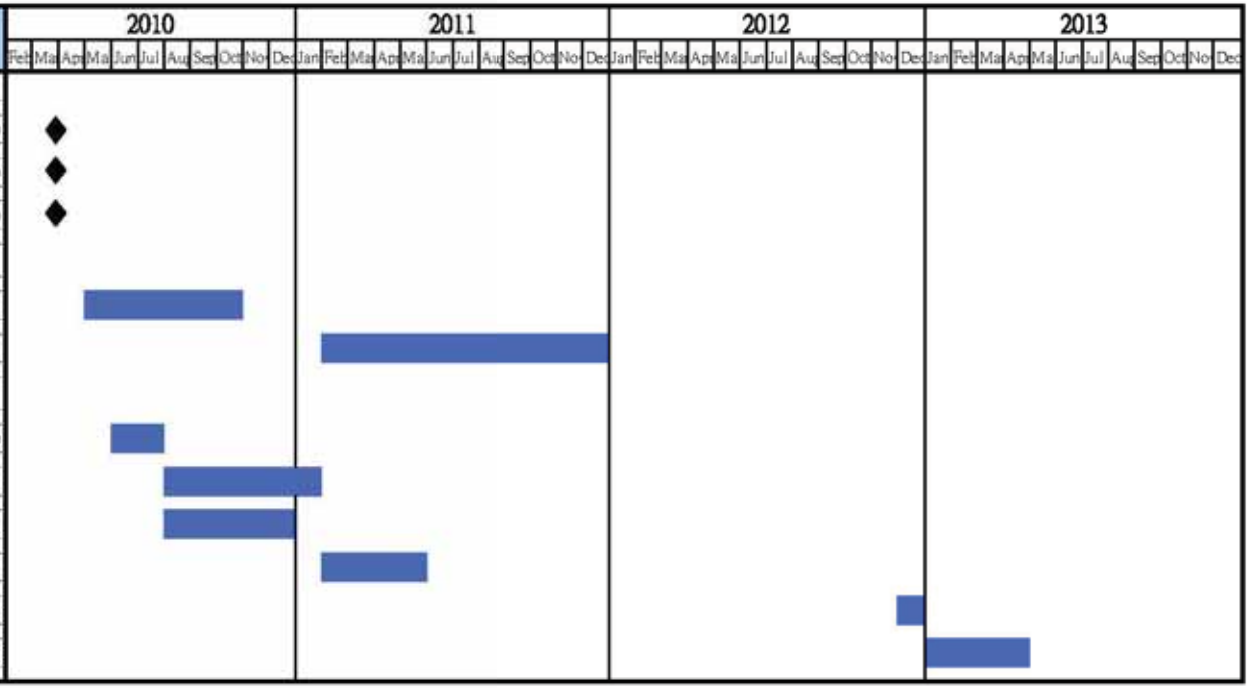
TASK filter: All Activities

Contract No. HK/2009/01

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

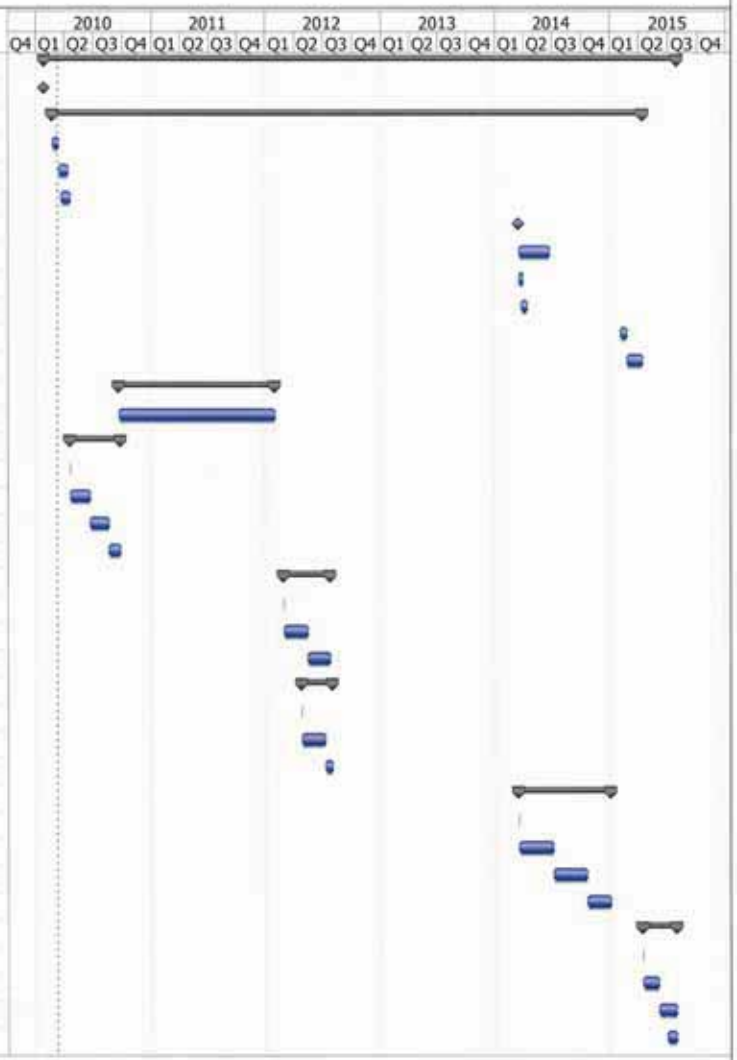
Working Programme for Marine Works (Dredging and Backfilling)

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)

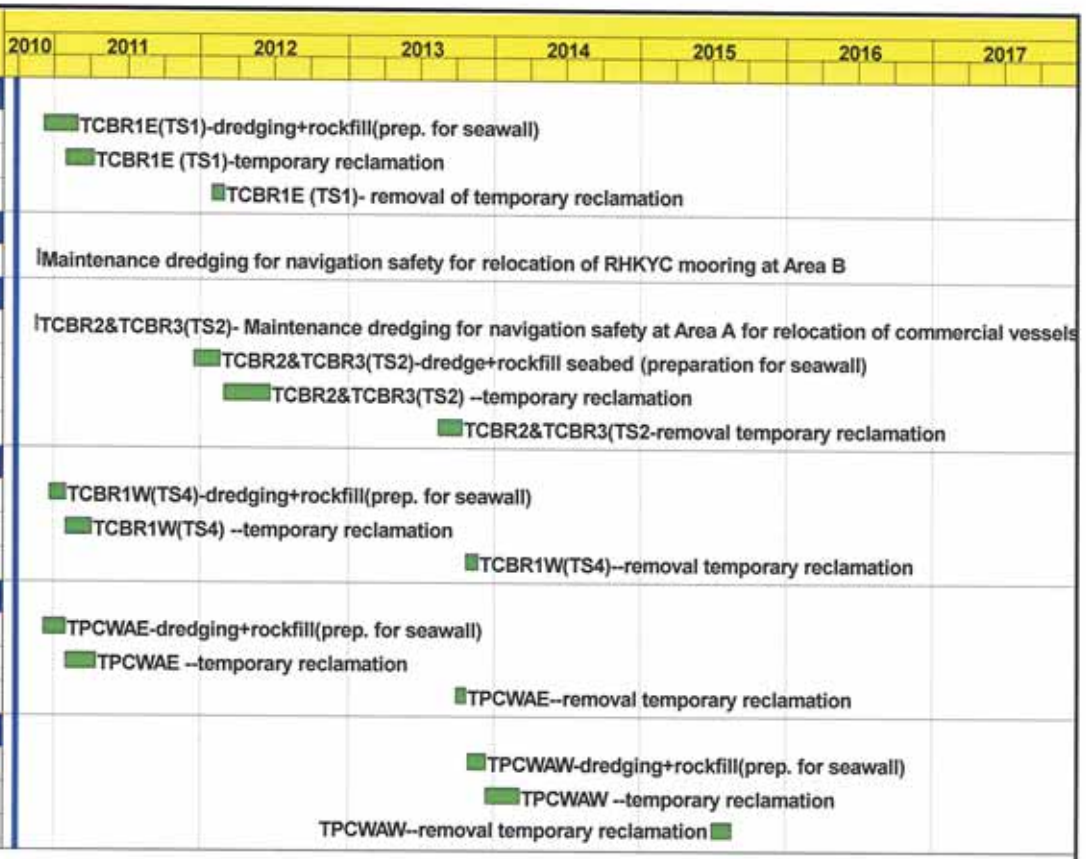
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's 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 | Summary | Rolled Up Progress | Project Summary
Progress | Rolled Up Task | Split | Group By Summary
Milestone | Rolled Up Milestone | External Tasks | 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.

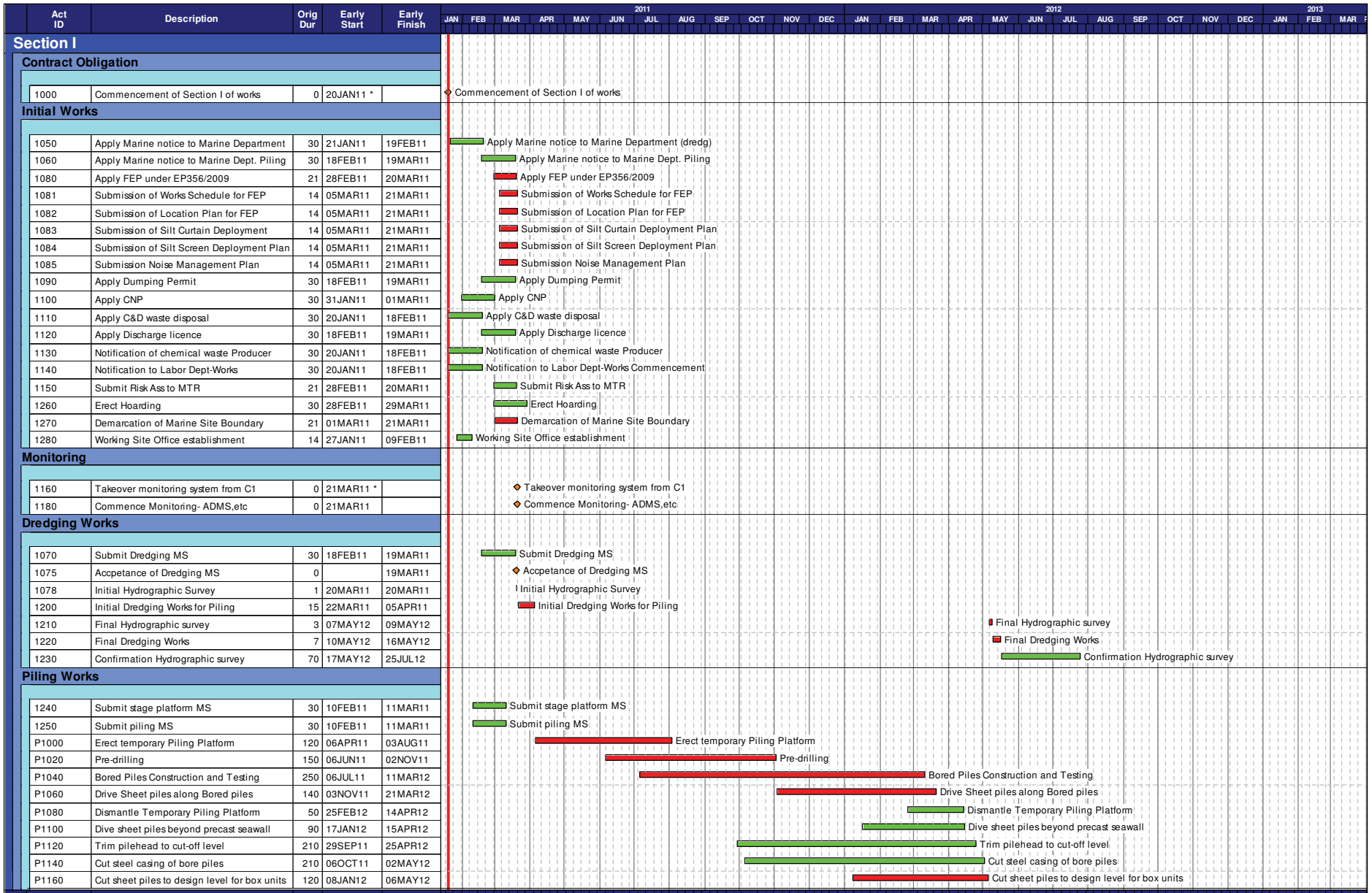
EP02

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