



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 ENVIRONMENTAL PERMIT NOS. FEP-01/356/2009,
FEP-02/356/2009, FEP-03/356/2009 AND FEP-04/356/2009**

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- NOVEMBER 2010 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

PREPARED BY:

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Raymond Dai
Environmental Team Leader

DATE:

9 December 2010

Ref.: AACWBIECEM00_0_0735L.10

13 December 2010

AECOM Asia Company Limited
8/F, Tower 2
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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 (November 2010)
for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009 and
FEP-04/356/2009**

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for November 2010 dated 9 December 2010.

Please be informed that we have no adverse comments 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 – November 2010 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 and FEP-04/356/2009. This report presents the environmental monitoring findings and information recorded during the period 28th October 2010 to 27th November 2010. 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:
- Dredging works;
 - Reclamation works;
 - Construction & installation of Seawall Block;
 - Floating Out of Caisson Seawall;
 - Construction & installation of Seawall Block;
 - Construction of coping;
 - Installation of Caisson Seawall; and
 - Temporary Protection and Precautionary Measures to Existing Island Eastern Corridor Structure
- iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
- Dredging works had been completed about 46% for the open cut trench of cross harbour water mains;
 - Manufacturing of Taper-lok flange joint;
 - Trial pits for determination of connection location at both Wan Chai and Tsui Sha Tsui areas;
 - Routine maintenance and clearance works for silt screens;
 - Trial pits for determination of connection location at both Wan Chai and Tsim Sha Tsui areas;
 - Due to construction of SCL works, preparation works for temporary diversion of Convention Plaza discharge mains;
 - 6 pipe piles of P1 Wall had been installed;
 - Fabrication of conveyor belt system for filling works at HKCEC water channel reclamation; and
 - Order for 2 jack-up barges were made for delivery to site in end Nov 10 and mid Jan 11 respectively.
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
- Rock filling grade 400 in Area WCR1 commenced;
 - Dredging in Area WCR1 was nearly completed;

- Fabrication of precast cooling water pumping stations P7, P8, P9, caisson seawalls and seawall blocks was in progress in the casting yard in the Mainland;
 - Sheet pile installation for construction of footing for new public toilet and helipad terminal building commenced;
 - Demolition of covered walkway at Expo Drive East continued;
 - Bus trial run at the junction between Harbour Road and Fleming Road by KMB and City Bus for the TTMS for Trial Pit (TPI) was carried out;
 - Trench excavation for cooling water mains in southern footpath of Harbour Road near China Resources Building continued;
 - Pre-boring for ELS of Salt Water Intake Culvert Bay 9 to 11 commenced;
 - Sheet pile installation of Salt Water Intake Culvert Bay 20 to 25 at Wan Shing Street continued;
 - Trench excavation for cooling water main in the footpath of Harbour Centre and Great Eagle Centre, along Harbour Road and across Harbour Road continued;
 - For cooling water main construction in Ex-Pet Garden, trench excavation commenced;
 - Pre-bored H-piling for the Re-provisioned WSD Salt Water Pumping Station continued; and
 - Testing and trial of the public fill sorting facility at Tseung Kwan O Area 137 continued.
- v. Contract no. HY/2009/15 was commenced on 10 November 2010. The major work activities are included:
- Installation of 1st Phase Silt Curtain;
 - Maintenance dredging works at PMA, TCBR2 and TCBR3 for mooring and anchorage rearrangement;
 - Installation of Buoys; and
 - Demolition of Ex-fireboat Station

Noise Monitoring

- vi. Noise monitoring during day time and evening time were conducted at the stations M1a, M2b, M3a, M4b and M5b on a weekly basis in the reporting month. Due to the excavation and breaking works undertaken next to the monitoring station at M5b - City Garden by the other project during the noise monitoring, two limit level exceedances were recorded on 10 and 16 November 2010 at the day time period. Besides, three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 10 and 16 November 2010 during the evening time period. Investigation found that exceedances were not related to the Project.

Real-time Noise Monitoring

- vii. 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. Discontinuous limit level exceedances were recorded at these two stations during the restricted hour. Investigation found that exceedances were not related to the Project.

Air Quality Monitoring

- viii. Air quality monitoring has been conducted at stations CMA1b – Oil Street Community Liaison Centre and CMA2a – Causeway Bay Community Centre. No exceedance was recorded in the reporting month.

Water Quality Monitoring

- ix. Water quality monitoring at 19 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**. Investigations were found that the exceedances are not related to the Project works. The details of the exceedances can be referred to Section 5.3 and 6.3 of the report.

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	0	0	0	1
	WSD17	0	0	0	1	1	1	0	0	0	0	0	0
	C8	0	0	0	1	2	0	0	0	1	0	1	0
	C9	0	0	0	1	2	0	0	0	1	1	1	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	1	1	0
	WSD20	0	0	0	1	2	1	0	0	1	1	1	1
	WSD7	0	0	1	0	0	0	0	0	0	0	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C2	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	2	0	0	0	0	1	0	0
	C4e	0	0	0	0	0	1	0	0	0	0	0	1
	C4w	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	1
	WSD21	0	0	0	0	0	0	0	0	0	0	1	2
Hy/2009/15	C6	0	0	0	0	0	0	0	0	0	0	0	0
	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	1	4	9	3	0	0	3	4	5	7

Complaints, Notifications of Summons and Successful Prosecutions

- x. Two complaints were received 8 and 10 November 2010 regarding the visual concerns around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho and noise nuisance generated from PME at the marine work area adjacent to Harbour Height. No further complaint was received after investigation and follow-up action taken.

Site Inspections and Audit

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

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

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

- Dredging works;
- Reclamation works;
- Construction & installation of Seawall Block;
- Floating Out of Caisson Seawall;
- Drainage Construction works;
- Construction of coping; and
- Installation of Caisson Seawall.

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

- Installation of pipe piles of P1 Wall at West Bridge;
- Removal of the staging platform & staging piles of trial bored pile;
- Dredging works and removal of rock armour for existing sloping seawall at HKCEC water channel;
- Reclamation works starts in the HKCEC water channel;
- Dredging works for cross harbour water mains;
- Commencement of removal of Wan Chai seawall (pipeline connection points);
- Commencement of temporary jetty construction;
- Implementation of TTM scheme for trial pit at Convention Avenue (Area A2);
- Implementation of TTM scheme for pipe laying at Convention Avenue (Area A1-1) for cooling water main and Harbour Road (Area A5-1) for salt water main and optic fibre;
- Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water main at Expo Drive near HKCEC (Area B1-1, B1-2 & B4-1);

- Tree transplantation at Wan Chai and Tsim Sha Tsui (to be completed by early Dec 10);
- Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC (to be completed by late Feb 11). The liaison and coordination of interfaces are ongoing;
- Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5 (Schedule to be completed by late Mar 2011); and
- Technical workshop and coordination meetings with 6 stakeholders.

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

- Site clearance;
- Dredging in West temporary seawall construction in Area WCR1;
- Rock Filling and Reclamation in Area WCR1;
- Casting, delivery and installation of precast caisson seawalls, pumping stations and seawall blocks;
- Permanent seawall construction;
- Drainage diversion of existing 1800mm dia. pipe for WCR1 reclamation;
- Road improvement at Junction of Fleming Road and Gloucester Road;
- Road modification at Expo Drive East;
- Construction of new public toilet and helipad terminal building at Expo Drive East;
- Fabrication and delivery of HDPE pipe for submarine outfall;
- Installation of 'Z' section of submarine outfall underneath the seawall;
- Laying of cooling water mains;
- Pre-bored H-piling at proposed WSD Salt Water Pumping Station;
- Seawall construction near Expo Drive East;
- Tree transplanting;
- Establishing public fill sorting facility at TKO;
- Testing with trial run of public fill sorting facility at TKO;
- Trench excavation for construction of Salt Water Intake Culvert at Wan Shing Street;
- Piling at new Wan Chai Ferry Pier;
- Installation of building services for public toilet; and
- Construction of precast units of Box Culvert N1, Salt Water Intake Culvert, Drain FRP-N and Cooling Water Discharge Pipe in Area WCR1.

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

- Maintenance dredging works at TCBR4, TCBR2 and TCBR3 for mooring and anchorage rearrangement;
- Place rockfill on the seabed at TCBR2 and TCBR3;



- Installation of Buoys;
- Demolition of Ex-Fireboat Station; and
- Erect the CSHK's Site Office

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 and FEP-04/356/2009 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 and FEP-04/356/2009 during the period 28th October to 27th November 2010. 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, re-provisioning 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	Pending
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

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	Principle Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principle Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
China Harbour-CRBC Joint Venture	Contractor under Contract no. HY/2009/11	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085
		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	Site Agent	Paul Yu	9456 9819	2634 1626
		Operation Manager	Lau Yee Ching	9466 3918	
		Construction Manager	David Wong	9653 8635	

Party	Role	Post	Name	Contact No.	Contact Fax
		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	
		Environmental Officer (Compliance Manager)	Mr. Barry Leung	3658 3031	
		Environmental Engineer	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. K Y Leung	9026 8808	
		Construction Manager	Mr. C K Kwok	9779 2162	2566 2192
		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	
		Section Agent (West)	Mr. Tang Ka Tung	9473 4771	
		Environmental Manager	Ms. Anna Yu	9473 1945	
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:

- Dredging works;
- Reclamation works;

- Construction & installation of Seawall Block;
- Floating Out of Caisson Seawall;
- Construction & installation of Seawall Block;
- Construction of coping;
- Installation of Caisson Seawall; and
- Temporary Protection and Precautionary Measures to Existing Island Eastern Corridor Structure

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

- Dredging works had been completed about 46% for the open cut trench of cross harbour water mains;
- Manufacturing of Taper-lok flange joint;
- Trial pits for determination of connection location at both Wan Chai and Tsui Sha Tsui areas;
- Routine maintenance and clearance works for silt screens;
- Trial pits for determination of connection location at both Wan Chai and Tsim Sha Tsui areas;
- Due to construction of SCL works, preparation works for temporary diversion of Convention Plaza discharge mains;
- 6 pipe piles of P1 Wall had been installed;
- Fabrication of conveyor belt system for filling works at HKCEC water channel reclamation; and
- Order for 2 jack-up barges were made for delivery to site in end Nov 10 and mid Jan 11 respectively.

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

- Rock Filling grade 400 in Area WCR1 commenced;
- Dredging in Area WCR1 was nearly completed;
- Fabrication of precast cooling water pumping stations P7, P8, P9, caisson seawalls and seawall blocks was in progress in the casting yard in the Mainland;
- Sheet pile installation for construction of footing for new public toilet and helipad terminal building commenced;
- Demolition of covered walkway at Expo Drive East continued;
- Bus trial run at the junction between Harbour Road and Fleming Road by KMB and City Bus for the TTMS for Trial Pit (TPI) was carried out;
- Trench excavation for cooling water mains in southern footpath of Harbour Road near China Resources Building continued;
- Pre-boring for ELS of Salt Water Intake Culvert Bay 9 to 11 commenced;
- Sheet pile installation of Salt Water Intake Culvert Bay 20 to 25 at Wan Shing Street

continued;

- Trench excavation for cooling water main in the footpath of Harbour Centre and Great Eagle Centre, along Harbour Road and across Harbour Road continued;
- For cooling water main construction in Ex-Pet Garden, trench excavation commenced;
- Pre-bored H-piling for the Re-provisioned WSD Salt Water Pumping Station continued; and
- Testing and trial of the public fill sorting facility at Tseung Kwan O Area 137 continued.

2.4.6. Contract no. HY/2009/15 was commenced on 10 November 2010. The principal work activities in the reporting month are included:

- Installation of 1st Phase Silt Curtain;
- Maintenance dredging works at PMA, TCBR2 and TCBR3 for mooring and anchorage rearrangement; (Dredging operation at PMA for mooring and anchorage rearrangement is understood to be a non-designated project work as per EPD memo (Ref.(2) in EP2/H4/S3/15 Pt.11) replied dated 8 November 2010 on the proposal of the Private Mooring Area(PMA) dredging with proper implementation of dredging rate, silt curtains and silt screens deployment and the associated EM&A programme. Details shall be referred to **Appendix 2.1**)
- Installation of Buoys; and
- Demolition of Ex-Fireboat Station

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

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

- Dredging works,
- Reclamation works,
- Construction & installation of Seawall Block,
- Floating Out of Caisson Seawall,
- Drainage Construction works,
- Construction of coping and
- Installation of Caisson Seawall.

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

- Installation of pipe piles of P1 Wall at West Bridge;
- Removal of the staging platform & staging piles of trial bored pile;
- Dredging works and removal of rock armour for existing sloping seawall at HKCEC

water channel;

- Reclamation works starts in the HKCEC water channel;
- Dredging works for cross harbour water mains;
- Commencement of removal of Wan Chai seawall (pipeline connection points);
- Commencement of temporary jetty construction;
- Implementation of TTM scheme for trial pit at Convention Avenue (Area A2);
- Implementation of TTM scheme for pipe laying at Convention Avenue (Area A1-1) for cooling water main and Harbour Road (Area A5-1) for salt water main and optic fibre;
- Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water main at Expo Drive near HKCEC (Area B1-1, B1-2 & B4-1);
- Tree transplanted at Wan Chai and Tsim Sha Tsui (to be completed by early Dec 10);
- Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC (to be completed by late Feb 11). The liaison and coordination of interfaces are ongoing;
- Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5 (Schedule to be completed by late Mar 2011); and
- Technical workshop and coordination meetings with 6 stakeholders.

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

- Site clearance;
- Dredging in West temporary seawall construction in Area WCR1;
- Rock Filling and Reclamation in Area WCR1;
- Casting, delivery and installation of precast caisson seawalls, pumping stations and seawall blocks;
- Permanent seawall construction;
- Drainage diversion of existing 1800mm dia. pipe for WCR1 reclamation;
- Road improvement at Junction of Fleming Road and Gloucester Road;
- Road modification at Expo Drive East;
- Construction of new public toilet and helipad terminal building at Expo Drive East;
- Fabrication and delivery of HDPE pipe for submarine outfall;
- Installation of 'Z' section of submarine outfall underneath the seawall;
- Laying of cooling water mains;
- Pre-bored H-piling at proposed WSD Salt Water Pumping Station;
- Seawall construction near Expo Drive East;
- Tree transplanting;
- Establishing public fill sorting facility at TKO;
- Testing with trial run of public fill sorting facility at TKO;



- Trench excavation for construction of Salt Water Intake Culvert at Wan Shing Street;
- Piling at new Wan Chai Ferry Pier;
- Installation of building services for public toilet; and
- Construction of precast units of Box Culvert N1, Salt Water Intake Culvert, Drain FRP-N and Cooling Water Discharge Pipe in Area WCR1.

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

- Maintenance dredging works at TCBR4, TCBR2 and TCBR3 for mooring and anchorage rearrangement;
- Place rockfill on the seabed at TCBR2 and TCBR3;
- Installation of Buoys;
- Demolition of Ex-Fireboat Station; and
- Erect the CSHK's Site Office

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-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

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**.

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-RS0371-10	7 May 2010	10 May 2010 to 31 Oct 2010	Expired
	GW-RS0534-10	22 Jun 2010	29 Jun 2010 to 28 Dec 2010	Valid
	GW-RS0870-10	6 Oct 2010	1 Nov 2010 to 30 Apr 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/10-055	26 Aug 2010	10 Sep 2010 to 30 Dec 2010	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/11-073	7 Oct 2010	10 Oct 2010 to 9 Nov 2010	Expired
	EP/MD/11-087	25 Nov 2010	10 Nov to 9 Dec 2010	Valid

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	Silt Curtain Deployment Plan	25 Feb 2010
	Revised Silt Curtain Deployment Plan (Rev. 3)	4 Dec 2010
Condition 2.9	Silt Screen Deployment Plan	25 Feb 2010
	Revised Silt Screen Deployment Plan	10 May 2010
	Silt Screen Deployment Plan (Rev. 4)	1 Nov 2010
Condition 2.10	Coral Translocation Plan	20 Nov 2009
Condition 2.16	Noise Management Plan	1 Mar 2010

EP Condition	Submission	Date of Submission
	Revised Noise Management Plan	28 Sep 2010
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 non-piling equipment	GW-RS0763-10	1 Sep 2010	14 Sep 2010 to 14 Mar 2011	Valid
	GW-RS0771-10	1 Sep 2010	1 Sep 2010 to 28 Feb 2011	Valid
	GW-RS0772-10	3 Sep 2010	15 Sep 2010 to 14 Mar 2011	Valid
	GW-RS0819-10	15 Sep 2010	16 Sep 2010 to 15 Mar 2011	Valid
	GW-RS0900-10	20 Oct 2010	27 Oct 2010 to 26 Mar 2011	Valid
	GW-RS0965-10	8 Nov 2010	22 Nov 2010 to 21 May 2011	Valid
	GW-RS1034-10	26 Nov 2010	27 Nov 2010 to 26 May 2011	Valid
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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/10-060	30 Apr 2010	4 May to 3 Nov 2010	Expired
	EP/MD/11-083	23 Nov 2010	24 Nov 2010 to 23 May 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/11-071	22 Sep 2010	1 to 31 Oct 2010	Expired
	EP/MD/11-082	5 Nov 2010	8 Nov to 7 Dec 2010	Valid

Table 3.5 Summary of submission status under FEP-02/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan	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 2.17	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**.

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-RS0016-10	14 Apr 2010	1 Jun 2010 to 31 Nov 2010	Valid
	PP-RS0037-10	3 Nov 2010	1 Dec 2010 to 31 May 2011	Valid
	PP-RS0041-10	26 Nov 2010	1 Dec 2010 to 28 Feb 2011	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0653-10	30 July 2010	1 Aug 2010 to 31 Jan 2011	Valid
	GW-RS0777-10	13 Sept 2010	01 Oct 2010 to 31 Mar 2011	Valid
	GW-RS0817-10	17 Sept 2010	17 Sep 2010 to 16 Nov 2010	Expired
	GW-RS0891-10	14 Oct 2010	09 Nov 2010 to 12 Jan 2011	Valid
	GW-RS0910-10	22 Oct 2010	25 Oct 2010 to 24 Apr 2011	Valid
	GW-RS0934-10	22 Oct 2010	25 Oct 2010 to 24 Apr 2011	Valid
	GW-RS0958-10	3 Nov 2010	16 Nov 2010 to 16 Jan 2011	Valid
	GW-RS0961-10	5 Nov 2010	6 Nov 2010 to 5 May 2011	Valid
	GW-RS0993-10	10 Nov 2010	24 Nov 2010 to 31 Jan 2011	Valid
	GW-RS1011-10	15 Nov 2010	18 Nov 2010 to 17 May 2011	Valid
	GW-RS1023-10	25 Nov 2010	1 Dec 2010 to 30 Apr 2011	Valid
	GW-RS1033-10	22 Nov 2010	23 Nov 2010 to 21 May 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 Mar 2015	Valid
	WT00006757- 2010	28 May 2010	31 May 2015	Valid
	WT00007129- 2010	28 July 2010	31 Jul 2015	Valid
Billing Account under Waste Disposal Ordinance	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-135- C3593-01	10 Mar 2010	N/A	Valid
	WPN5213-839- C3593-02	22 Sep 2010	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/10-069	6 May 2010	6 May to 5 Nov 2010	Expired
	EP/MD/10-093	25 Nov 2010	29 Nov 2010 to 28 May 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/11-072	22 Sep 2010	6 Oct 2010 to 5 Nov 2010	Expired
	EP/MD/11-090	9 Nov 2010	10 Nov 2010 to 9 Dec 2010	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. A	20 April 2010
	Silt Curtain Deployment Plan Rev. B	25 May 2010
	Silt Curtain Deployment Plan Rev. C	14 Jun 2010
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 2.17	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
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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-RS0997-10	11 Nov 2010	15 Nov 2010 to 14 May 2011	Valid
Registration as a Chemical Waste Producer	WPN: 5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/11-080	06 Oct 2010	04 Nov 2010 to 03 May 2011	Withdrawal on 1 Dec 2010
	EP/MD/11-097	29 Nov 2010	1 Dec 2010 to 31 May 2011	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/11-081	06 Oct 2010	01 Nov 2010 to 30 Nov 2010	Valid
	EP/MD/11-094	24 Nov 2010	1 Dec 2010 to 31 Dec 2010	Valid

Table 3.9 Summary of submission status under EP-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	27 Oct 2010
	Amendment for Silt Curtain Deployment Plan	12 Nov 2010
Condition 2.9	Silt Screen Deployment Plan	27 Oct 2010
Condition 2.23	Noise Management Plan	27 Oct 2010
	Amendment for Noise Management Plan	12 Nov 2010

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

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}). $L_{eq(30\text{ minutes})}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq(5\text{ minutes})}$ 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 TM 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.
- 4.1.8. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.2 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	Future CWB site office at Wanchai Waterfront Promenade	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	Future AECOM site office at Work Area	Wan Chai

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. 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.
- 4.2.9. 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.
- 4.2.10. 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.

Water Quality Monitoring Stations

- 4.3.2. 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
RW1	Wan Chai (Reprovision)	836188.8	815911.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0

Station Ref.	Location	Easting	Northing
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

- 4.3.3. 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.
- 4.3.4. 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

- 4.3.5. 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

- 4.3.6. 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
- 4.3.7. 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).
- 4.3.8. 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

- 4.3.9. 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

- 4.3.10. 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

- 4.3.11. 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

- 4.3.12. 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

- 4.3.13. 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

- 4.3.14. 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

- 4.3.15. 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.
- 4.3.16. 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.
- 4.3.17. 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.
- 4.3.18. Current calibration certificates of equipments are presented in **Appendix 4.2**.

LABORATORY MEASUREMENT / ANALYSIS

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

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)

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. Due to the excavation and breaking works undertaken next to the monitoring station at M5b - City Garden by the other project during the noise monitoring, two limit level exceedances were recorded on 10 and 16 November 2010 at the day time period. 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 and Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East

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 and HK/2009/02

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. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 10 and 16 November 2010 during the evening time period. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The dredging work was complied with the conditions under valid Construction Noise Permit no. GW-RS0777-10 during the measurement.

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 nos. HY/2009/15

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

5.1.8. Noise monitoring results measured in this reporting period 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

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

5.2.1. 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/2009/15

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

- 5.2.2. No exceedance was recorded during the daytime period. In contrast, exceedances were recorded between 1900 and 2300 hours throughout the reporting month and between 2300 and 0700 on the next day. 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 activities of Contract no. HY/2009/11 were dredging works and 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 will be commenced from the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in **Table 5.6** below.

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

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza
CMA6a	Future AECOM site office at Work Area 1

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

- 5.3.4. Air monitoring will be commenced from the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in **Table 5.7** below.

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 will be commenced from the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in **Table 5.8** below.

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

Station	Description
CMA3a	CWB site office at Wanchai Waterfront Promenade

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

Station Ref.	Location	Easting	Northing
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

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. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)

- 5.4.4. 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 5.12** below.

Table 5.12 Water Monitoring Stations for Contract no. HY/2009/15

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

Station Ref.	Location	Easting	Northing
C7	Windsor House	837193.7	816150.0

5.4.5. 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 5.13 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	0	0	0	1
	WSD17	0	0	0	1	1	1	0	0	0	0	0	0
	C8	0	0	0	1	2	0	0	0	1	0	1	0
	C9	0	0	0	1	2	0	0	0	1	1	1	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	1	1	0
	WSD20	0	0	0	1	2	1	0	0	1	1	1	1
	WSD7	0	0	1	0	0	0	0	0	0	0	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C2	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	2	0	0	0	0	1	0	0
	C4e	0	0	0	0	0	1	0	0	0	0	0	1
	C4w	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	1
	WSD21	0	0	0	0	0	0	0	0	0	0	1	2
Hy/2009/15	C6	0	0	0	0	0	0	0	0	0	0	0	0
	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	1	4	9	3	0	0	3	4	5	7

5.5 Waste Monitoring Results

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

5.5.1. No inert and non-inert C&D waste was disposed of in the reporting month. Details of the waste flow table are summarized in **Table 5.14**.

Table 5.14 Details of Waste Disposal for Contract no. HY/2009/11

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	7,500 (Bulk Volume)	89,500 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	10,000 (Bulk Volume)	117,500 (Bulk Volume)	East of Sha Chau

- 5.5.2. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed in the reporting month. The maximum dredging rates in North Point Reclamation (NPR) Shoreline Zone is 2,000m³ per day in the reporting month, which is complied with the recommended maximum dredging rate, 6000m³ listed in Table 2 of FEP-01/356/2009.

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 5.15**.

Table 5.15 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	777.43	1,385.9	TKO134
Inert C&D materials recycled	0	0	N/A
Non-inert C&D materials disposed	14.92	105.42	SENT Landfill
Non-inert C&D materials recycled	7.2	10.24	N/A
Chemical waste disposed	0.22	0.66	N/A

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal)	635 (Bulk Volume)	52,497 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	1,848 (Bulk Volume)	6,662 (Bulk Volume)	East of Cha Chau

- 5.5.4. Due to the revised the density value of inert and non-inert C&D material, the contractor clarified the cumulative quantity of inert C&D material and non-inert C&D material shall be 608.47m³ and 90.5m³ respectively disposed in last reporting month.
- 5.5.5. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed in the reporting month. The maximum dredging rate in HKCEC1 and Cross Harbour Water Mains marine work zone marine work zones are 540m³ per day respectively, which are complied with the recommended maximum dredging rate, 1500m³ 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

- 5.5.6. 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/2009/02

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	1,440	3,847	TKO137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	5.8	40.5	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	407 (Bulk Volume)	82,257 (Bulk Volume)	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	0 (Bulk Volume)	76,970 (Bulk Volume)	East of Sha Chau

5.5.7. There were marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in Wan Chai Reclamation (WCR) marine work zone 407m³ per day, which is complied with the recommended maximum dredging rate, 6000m³ listed in Table 2 of FEP-03/356/2009.

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

5.5.8. No inert and non- inert C&D wastes 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. HY/2009/15

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	12,390 (Bulk Volume)	12,390 (Bulk Volume)	East of Sha Chau

5.5.9. In the reporting month, there was marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed from the maintenance dredging works at PMA, TCBR2 and TCBR3 for mooring and anchorage rearrangement. No more than one closed dredger and no concurrent dredging at the marine zones for PMA mooring and anchorage rearrangement, TCBR2 and TCBR3 was conducted in the reporting month.

5.5.10. Referring to the EPD’s comments in **Appendix 2.1**, the dredging rate for the maintenance dredging should be same as or less than that stipulated in EP-356/2009 within the Temporary Causeway Bay Reclamation (TCBR) marine work zone. Thus, the maximum dredging rate, 1,290 m³ per day in the reporting month is complied with the recommended maximum dredging rate, 6000m³ as stipulated in EP-356/2009 within the marine zones at TCBR.

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. Due to the excavation and breaking works undertaken next to the monitoring station at M5b - City Garden by the other project during the noise monitoring, two limit level exceedances were recorded on 10 and 16 November 2010 at the day time period. It was considered as not project related exceedances.

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. Three limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 4, 10 and 16 November 2010 during the evening time period. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The dredging work was complied with the conditions under valid Construction Noise Permit no. GW-RS0777-10 during the measurement. It was considered as not project related exceedances.

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.

6.2 Real-time noise Monitoring

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

- 6.2.1. No exceedance was recorded during daytime period in the reporting month. Only dredging work was conducted during the period of 1900-2230 with valid CNP no. GW-RS0870-10. In contrast, exceedances were recorded during evening time and between 2300 and 0700 on the next day throughout the reporting month. Investigation found that the major noise impacts between 1900 and 2300 hours and between 2300 and 0700 on the next day were arising from the traffic noise at the Island Eastern Corridor. As such, the exceedances were concluded not project related.

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 WSD15, WSD17, C8 and C9.
- 6.4.2. 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. It was concluded as not project related exceedances.
- 6.4.3. Silt screen at C8 has been dismantled on 16 September 2010 and contractor will modify and install new silt screen in which subject to the approval of schedule and agreement between the cooling water intake's owners.
- 6.4.4. Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the marine works area, turbidity and SS exceedances recorded at WSD17, C8 and C9 during mid-flood were concerned as not related to Project.
- 6.4.5. Reviewed the trend of overall results at all monitoring stations nearer the marine work area, the SS exceedance recorded at WSD15 on 12 November 2010 at mid-ebb tide while low SS value was recorded without exceeded the action and limit level. Thus, this SS exceedance was considered not related to the Project works.

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

- 6.4.6. Referring to all exceedances recorded at WSD7, WSD19 and WSD20, there was no exceedance recorded at the monitoring stations nearer the marine work area for Contract HK/2009/01. Those exceedances were considered as not related to the Project works.
- 6.4.7. Occasional turbidity and SS exceedances were recorded at stations C3 and C4e. In view of silt screen and silt curtain were in proper condition undertaken at HKCEC marine works zone, it was concluded as not project related exceedances.

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

- 6.4.8. SS exceedances were recorded at WSD21 on 17 November and at C5w on 5, 15 and 17 November 2010. Investigation found that the condition of silt screen and silt curtain was in proper condition and daily dredging rate were complied with EP condition when the turbidity and SS exceedances recorded at WSD21. Besides, the additional measure of additional silt curtain is deployed to protect the monitoring stations WSD17, C5e and C5w. Thus, the

exceedances were considered due to natural variation or screen washing at the station and not related to the Project.

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

6.5 Review of the Reasons for and the Implications of Non-compliance

6.5.1. There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

6.5.2. No project-related non-compliance from monitoring was recorded in the reporting month.

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

6.6.1. There was no particular action taken since no project-related non-compliance was recorded from the site audits and environmental monitoring in the reporting period.

7. Cumulative Construction Impact due to the Concurrent Projects

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

7.0.2. From the Monthly EM&A report (October 2010) of Central Reclamation Phase III (CRIII) the key works in November 2010 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
- Pile cap and base slab construction at Culvert F
- Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, and Road D9
- Construction of GPO boundary wall
- Road P2 Underpass ramp structures
- Precasting for retaining wall (offsite)
- Installation of cooling mains discharge pipes in FRAE and FRAW
- Diaphragm wall and barrettes for CWB Works
- Bulk excavation to formation level at CWB works
- Construction of CWB structure
- Disposal of material off-site to Government fill banks

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 dredging and filling works at North Point Reclamation Shoreline Subzone (NPR2E) and (NPR1) respectively, the dredging and rock-filling at Wan Chai Reclamation Shoreline Subzone (WCR1) and dredging at HKCEC1 and cross-harbour water mains 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 Central Reclamation Phase III were located along the coastline of Central and Admiralty while dredging works at NPR2E, WCR1, HKCEC1 and cross-harbour water mains were in operation in this reporting month. Since no Project-related exceedance was recorded from the Project in the reporting month, it is evaluated that 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 and HY/2009/15. 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 2, 9, 17 and 23 November 2010. 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
101102_01	2-Nov-10	The framework of silt curtain should be maintained before dredging	Maintenance the framework of silt curtain	Completion as observed on 17-Nov-10
101102_02	2-Nov-10	Collect refuse at Sai Wan Ho and Quarry Bay before silt curtain removal	Collect refuse before silt screen removal	Completion as observed on 9-Nov-10
101117_01	17-Nov-10	Stockpile shall be covered by fabric fibre or tarpaulin	Cover stockpile by tarpaulin	Completion as observed on 30-Nov-10
101123_01	23-Nov-10	The housekeeping, include rubbish collection is needed to improve	Improve house keeping	Completion as observed on 30-Nov-10

8.0.3. Four site inspections for Contract no. HK/2009/01 were carried out during this reporting period. The results of these inspections and outcomes are summarized in Table 8.2.

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

Item	Date	Observations	Action taken by Contractor	Outcome
101103_01	3-Nov-10	Trees at Tsim Sha Tsui shall be fence-off and well protected	Provided fencing for tree protection	Completion as observed on 10-Nov-10
101103_02	3-Nov-10	Design of sedimentation tank shall be modified to enhance the effectiveness of desilting	Re-design the sedimentation tank	Completion as observed on 10-Nov-10
101103_03	3-Nov-10	Dust control shall be enhanced at TST	Provided water spraying on the dusty surface	Completion as observed on 10-Nov-10
101110_01	10-Nov-10	Minimize the stockpile storage of C&D waste near the trees at Tsim Sha Tsui	Relocation of the stockpile material away from the trees	Completion as observed on 24-Nov-10
101118_01	18-Nov-10	Noise emission label for hand-held breaker shall be displayed	Proper adhere noise emission label on the equipment	Completion as observed on 24-Nov-10
101124_01	24-Nov-10	Design of sedimentation tank at Tsim Sha Tsui should be further improved.	Improvement works had been conducted.	Completion as observed on 1-Dec-10

8.0.4. Five site inspections for Contract no. HK/2009/02 were carried out 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
101028_01	28-Oct-10	Housekeeping needs to be improved on Tsang Leung Kee 6 as dust spreading was observed	Proper maintain the house keeping at the site	Completion as observed on 4-Nov-10
101028_02	28-Oct-10	Stockpile was observed not covering well	Covered or spray water on the dusty stockpile	Completion as observed on 4-Nov-10
101028_03	28-Oct-10	Floating Rubbish was observed near the seawall.	Regular clearance of the floating rubbish	Completion as observed on 4-Nov-10
101028_04	28-Oct-10	The enclosure for the grouting plant was observed not functioning well and dust leakage was observed	Proper enclosed the grouting plant	Completion as observed on 4-Nov-10
101028_05	28-Oct-10	Water spreading was observed during the bore pile washing	Provided preventive measures to avoid water spreading to the road.	Completion as observed on 4-Nov-10
101104_01	4-Nov-10	Contaminated soil should be cleared and deposited as chemical waste with proper procedure	Proper clearance of contaminated soil	Completion as observed on 11-Nov-10
101104_02	4-Nov-10	It is recommended that the grab dredger should be opened below sea level during the rock filling works for seawall construction.	Immediate improvement practices was done	Completion as observed on 11-Nov-10
101111_01	11-Nov-10	Stockpile shall be covered better by fabric fibre or tarpaulin.	Covered or spray water on the dusty stockpile	Completion as observed on 18-Nov-10
101111_02	11-Nov-10	Drip tray for the generator shall be plugged tightly	Well plugged drip tray	Completion as observed on 18-Nov-10
101118_01	18-Nov-10	Opening of silt curtain shall be always closed	Closed silt curtain was observed during the site audit	Completion as observed on 25-Nov-10
101118_02	18-Nov-10	Silt curtain shall be well maintained and enhance the weight to avoid floating up	Improvement work of silt curtain had been done	Completion as observed on 25
101118_03	18-Nov-10	Chemical containers at WSD pumping station should be provided with drip tray	Drip tray had been provided underneath the chemical containers.	Completion as observed on 25
101125_01	25-Nov-10	Stockpile shall be stored away from drip tray to prevent contamination	Relocation of stockpile to avoid the soil contamination	Completion as observed on 2-Dec-10
101125_02	25-Nov-10	All plugs of drip tray shall be checked and maintenance frequently	Proper condition of the drip tray during the site audit	Completion as observed on 2-Dec-10

8.0.5. Four site inspections for Contract no. HY/2009/15 were carried out on 2, 9, 16 and 23 November 2010. 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
101109_03	9-Nov-10	Proper care all trees inside the construction site	Proper care has been taken to all trees inside the construction site	Completion as observed on 16-Nov-10
101116_01	16-Nov-10	Dust generated by trucks at the site office area when moving. The contractor is reminded to clear the dust	Clearance the dust at the site office	Completion as observed on 23-Nov-10
101116_02	16-Nov-10	Silt curtain shall be mounted between dredgers and barge	Mounted silt curtain between dredgers and barge	Completion as observed on 23-Nov-10
101123_01	23-Nov-10	The contractor is reminded to place a geotextile under the gully to prevent any tiny C&D material washed directly into drainage system	Place a geotextile under the gully	Completion as observed on 30-Nov-10

9. Complaints, Notification of Summons and Prosecution

- 9.0.1. Two environmental complaints were received on 8 and 10 November 2010 in the reporting month.
- 9.0.2. The visual complaints dated 8 November 2010 was regarding the floating refuse around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Water Monitoring Station ref. WSD15). 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. Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010.
- 9.0.3. The other noise complaint dated 10 November 2010 was received from the Harbour Height Management Office. Their resident complained on the noise nuisance generated from the power mechanical equipment during the period from 0700 to 2200. Investigation found that the PME used in restricted hours were checked and confirmed compliant with the valid CNP no. GW-RS0870-10. No exceedance was recorded during the impact noise monitoring at the nearest noise monitoring station at Victoria Centre on 4 and 10 November 2010, The complaint was considered not valid from the CNP and EP point of view.
- 9.0.4. The details of cumulative complaint log and updated summary of complaints are presented in **Appendix 9.1**.
- 9.0.5. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 9.1** and **Table 9.2** respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
November 2010	2
Project-to-Date	7

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	<ul style="list-style-type: none"> • Dredging works; • Reclamation works; • Construction & installation of Seawall Block; • Floating Out of Caisson Seawall; • Drainage Construction works; • Construction of coping; and • Installation of Caisson Seawall. 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Installation of pipe piles of P1 Wall at West Bridge; • Removal of the staging platform & staging piles of trial bored pile; • Dredging works and removal of rock armour for existing sloping seawall at HKCEC water channel; • Reclamation works starts in the HKCEC water channel; • Dredging works for cross harbour water mains; • Commencement of removal of Wan Chai seawall (pipeline connection points); • Commencement of temporary jetty construction; • Implementation of TTM scheme for trial pit at Convention Avenue (Area A2); • Implementation of TTM scheme for pipe laying at Convention Avenue (Area A1-1) for cooling water main and Harbour Road (Area A5-1) for salt water main and optic fibre; • Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water 	<ul style="list-style-type: none"> • To conform the installation and setting as in the silt screen deployment plan • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To cover the dusty material or stockpile by impervious sheet • To space out noisy equipment and position as far as possible from sensitive receiver. • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. • Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

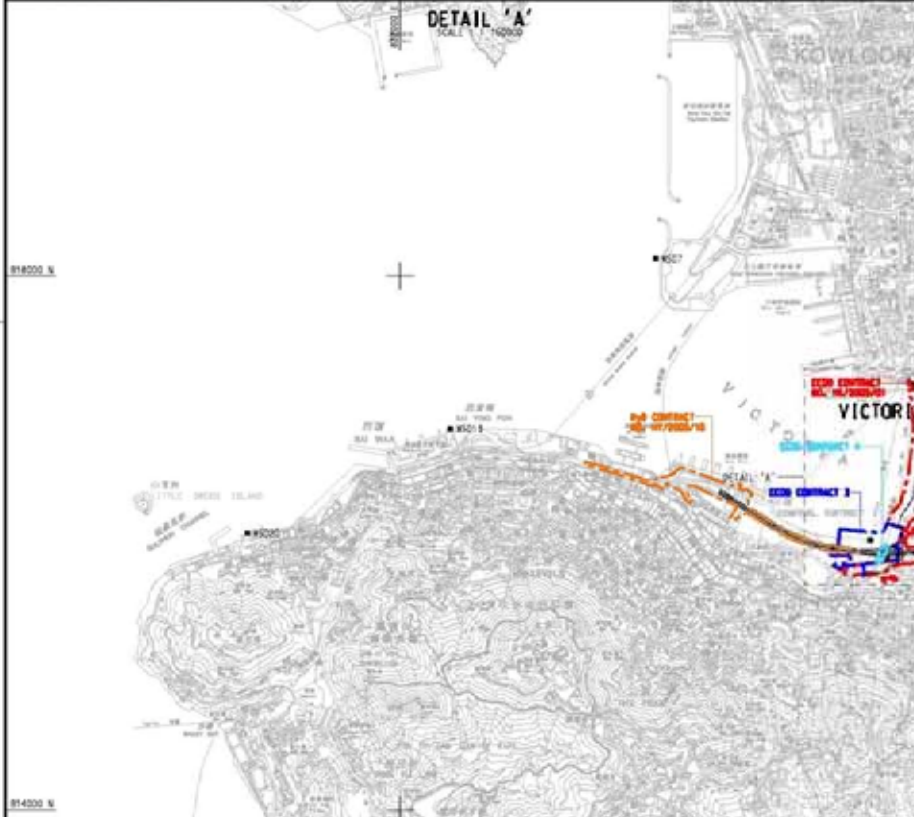
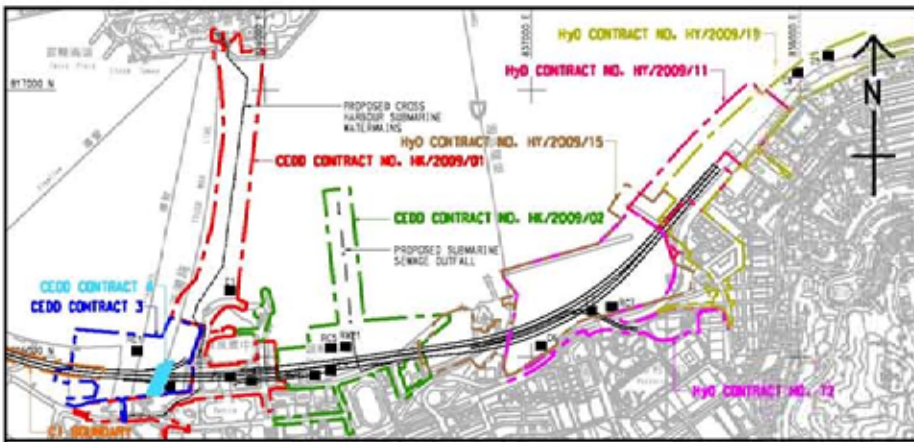
Contract No.	Key Construction Works	Recommended Mitigation Measures
	<p>main at Expo Drive near HKCEC (Area B1-1, B1-2 & B4-1);</p> <ul style="list-style-type: none"> • Tree transplantation at Wan Chai and Tsim Sha Tsui (to be completed by early Dec 10); • Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC (to be completed by late Feb 11). The liaison and coordination of interfaces are ongoing; • Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5 (Schedule to be completed by late Mar 2011); and • Technical workshop and coordination meetings with 6 stakeholders. 	
<p>HK/2009/02</p>	<ul style="list-style-type: none"> • Site clearance; • Dredging in West temporary seawall construction in Area WCR1; • Rock Filling and Reclamation in Area WCR1; • Casting, delivery and installation of precast caisson seawalls, pumping stations and seawall blocks; • Permanent seawall construction; • Drainage diversion of existing 1800mm dia. pipe for WCR1 reclamation; • Road improvement at Junction of Fleming Road and Gloucester Road; • Road modification at Expo Drive East; • Construction of new public toilet and helipad terminal building at Expo Drive East; • Fabrication and delivery of HDPE pipe for submarine outfall; • Installation of 'Z' section of submarine outfall underneath the seawall; • Laying of cooling water mains; • Pre-bored H-piling at proposed WSD Salt Water Pumping Station; • Seawall construction near Expo 	<ul style="list-style-type: none"> • 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

Contract No.	Key Construction Works	Recommended Mitigation Measures
	Drive East; <ul style="list-style-type: none"> • Tree transplanting; • Establishing public fill sorting facility at TKO; • Testing with trial run of public fill sorting facility at TKO; • Trench excavation for construction of Salt Water Intake Culvert at Wan Shing Street; • Piling at new Wan Chai Ferry Pier; • Installation of building services for public toilet; and • Construction of precast units of Box Culvert N1, Salt Water Intake Culvert, Drain FRP-N and Cooling Water Discharge Pipe in Area WCR1. 	
HY/2009/15	<ul style="list-style-type: none"> • Maintenance dredging works at TCBR4, TCBR2 and TCBR3 for mooring and anchorage rearrangement; • Place rockfill on the seabed at TCBR2 and TCBR3; • Installation of Buoys; • Demolition of Ex-Fireboat Station; and • Erect the CSHK's Site Office 	<ul style="list-style-type: none"> • 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



Figure 2.1

Project Layout



LEGEND:

- WATER QUALITY MONITORING STATIONS
- COOLING WATER INTAKES**
- D1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
 - D2 TELECOM HONG KONG ACADEMY FOR PERFORMING ARTS / SALT ON CENTRE
 - D3 HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE 1
 - D4 WAN CHAI TOWER AND GREAT EXHIBITION CENTRE
 - D5 SUN HANG KAI CENTRE
 - D6 PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
 - D7 WINDSOR HOUSE
 - D8 CITY GREEN
 - D9 PREVIENT CENTRE
 - D10 PROPOSED HERFA EXTENSION
 - D11 SUN HANG KAI CENTRE (REPROVISION)
 - D12 WINDSOR HOUSE (TEMPORARY REPROVISION)

MSD SALT WATER INTAKE

- W521 WAN CHAI
- W401 WAN CHAI (REPROVISION)
- W501 GEMUNION ISLAND
- W525 TAI WAN
- W5210 SHAI KONG L'ONG
- W5215 SAI WAN HO
- W5217 SCARRY BAY
- W5219 SHEUNG WAN
- W5220 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 REDUPLICATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE 1 (WCH1) AREA
DP4	- TEMPORARY EMERGENCY SHELTER (DP4 NOT TO BE IMPLEMENTED)
DP5	- WAN CHAI EAST SEWAGE OUTFALL
DP6	- DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 314/2008
 DP2 IS COVERED BY EP - 316/2008
 DP3, DP5 AND DP6 ARE COVERED BY EP - 356/2005

WORKS CONTRACT	DESIGNATED PROJECTS INVOLVED	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2012
CEDD CONTRACT 5	DP3	2015
HyO CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyO CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyO CONTRACT NO. HY/2009/18	DP1	OCTOBER 2010
HyO CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyO CONTRACT 12	DP1, DP3	MID 2013



WAN CHAI DEVELOPMENT PHASE II

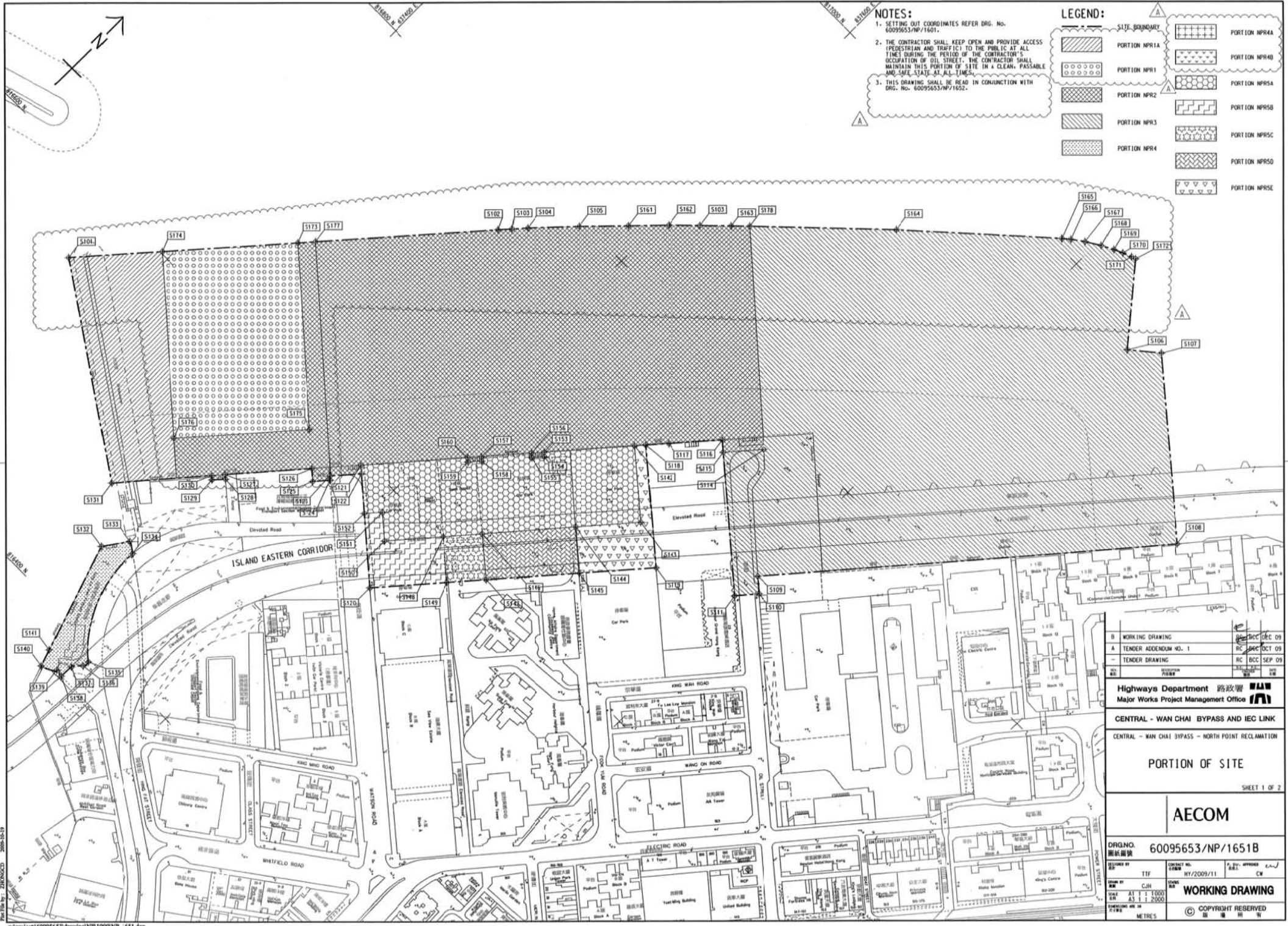
WAN CHAI DEVELOPMENT PHASE II, PWD CENTRAL - WAN CHAI BYPASS - CANAL, TUNNEL, PIPES REPAIRMENT AND TESTING WORKS (STAGE 1)

LOCATIONS OF WATER QUALITY MONITORING STATIONS



PROJECT NUMBER: **60041297/C5/SK001**

DESIGNED BY: AECOM	CHECKED BY: AECOM	DATE: 1/1/2008
SCALE: 1:10000	UNIT: METRES	COPYRIGHT RESERVED



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 DIL 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:

[Dotted pattern]	PORTION NPR1	[Cross-hatch pattern]	PORTION NPR4
[Diagonal lines /]	PORTION NPR2	[Diagonal lines \]	PORTION NPR5
[Diagonal lines /]	PORTION NPR3	[Diagonal lines \]	PORTION NPR6
[Diagonal lines /]	PORTION NPR4	[Diagonal lines \]	PORTION NPR7

B	WORKING DRAWING	DEC 09
A	TENDER ADDENDUM NO. 1	DEC 09
-	TENDER DRAWING	SEP 09

Highways Department 路政署
 Major Works Project Management Office

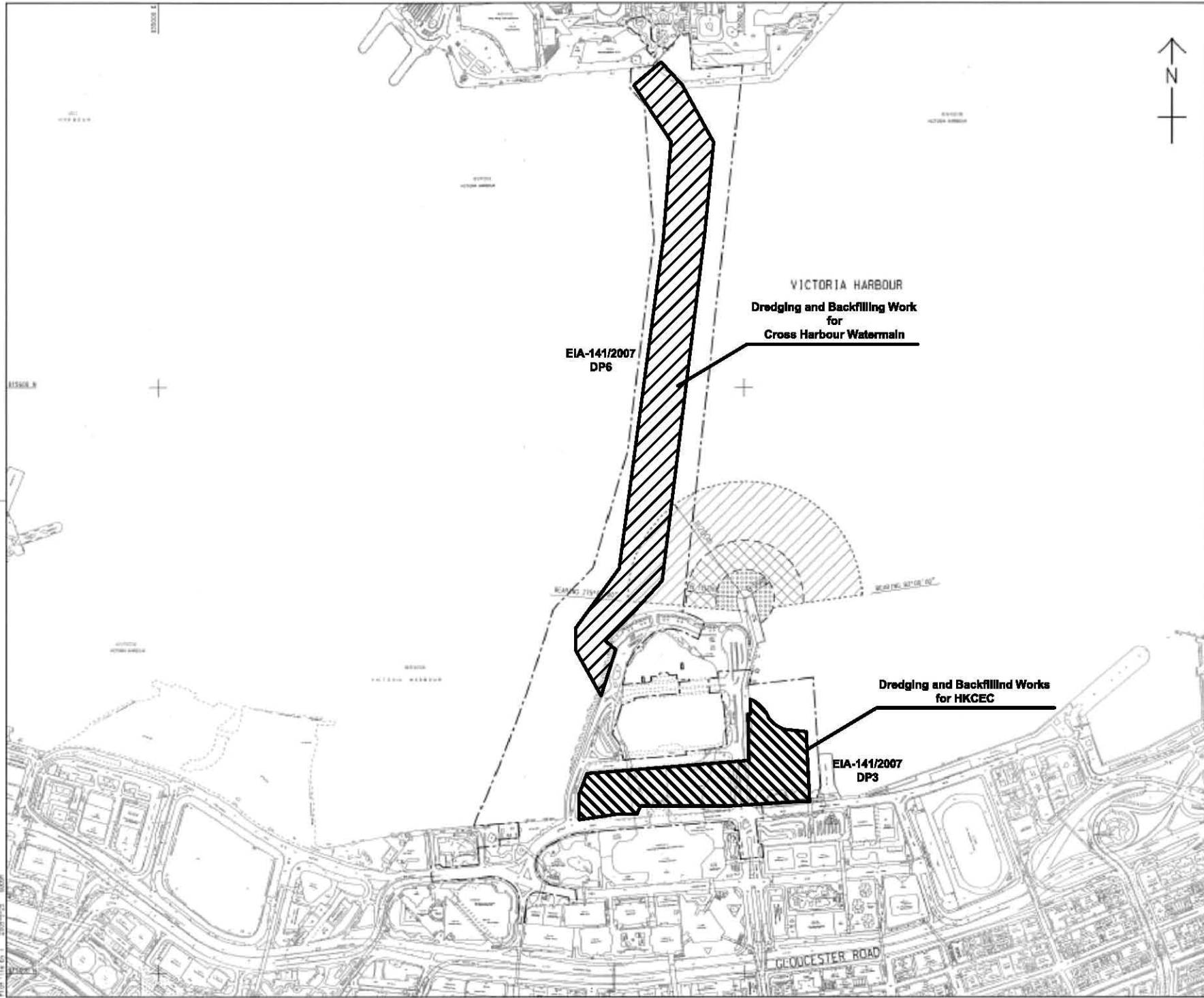
CENTRAL - WAN CHAI BYPASS AND IEC LINK
 CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE
 SHEET 1 OF 2

AECOM

DRGNO.	60095653/NP/1651B
DESIGNED BY	TTF
CHECKED BY	CJH
DATE	AT 17 1000
SCALE	AS SHOWN
UNIT	METRES

WORKING DRAWING
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LOCATION PLAN
SCALE 1 : 5000

- NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. THE RESTRICTION ZONE IS THIS DRAWING WILL COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HOLIDAY AT EPOCH DATE LAST.

LEGEND:

	CONTRACT BOUNDARY
	WORKING RESTRICTION ZONE
	NAVIGATION AND WORKING RESTRICTION ZONE
	WORKING BARGE, NAVIGATION AND WORKING RESTRICTION ZONE

TENDER ADDENDUM NO. 4	DATE: 21/11/09
TENDER ADDENDUM NO. 1	DATE: 21/11/09
TENDER DRAWING	DATE: 21/11/09

CEDD 土木工程發展署
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II -
CONCRETE - P&I (PART 02) (SI)
KONG KONG CONVENTION AND EXHIBITION CENTRE
**RESTRICTED ZONE FOR
CONSTRUCTION VESSELS**
(Contract no: HK/2009/01)

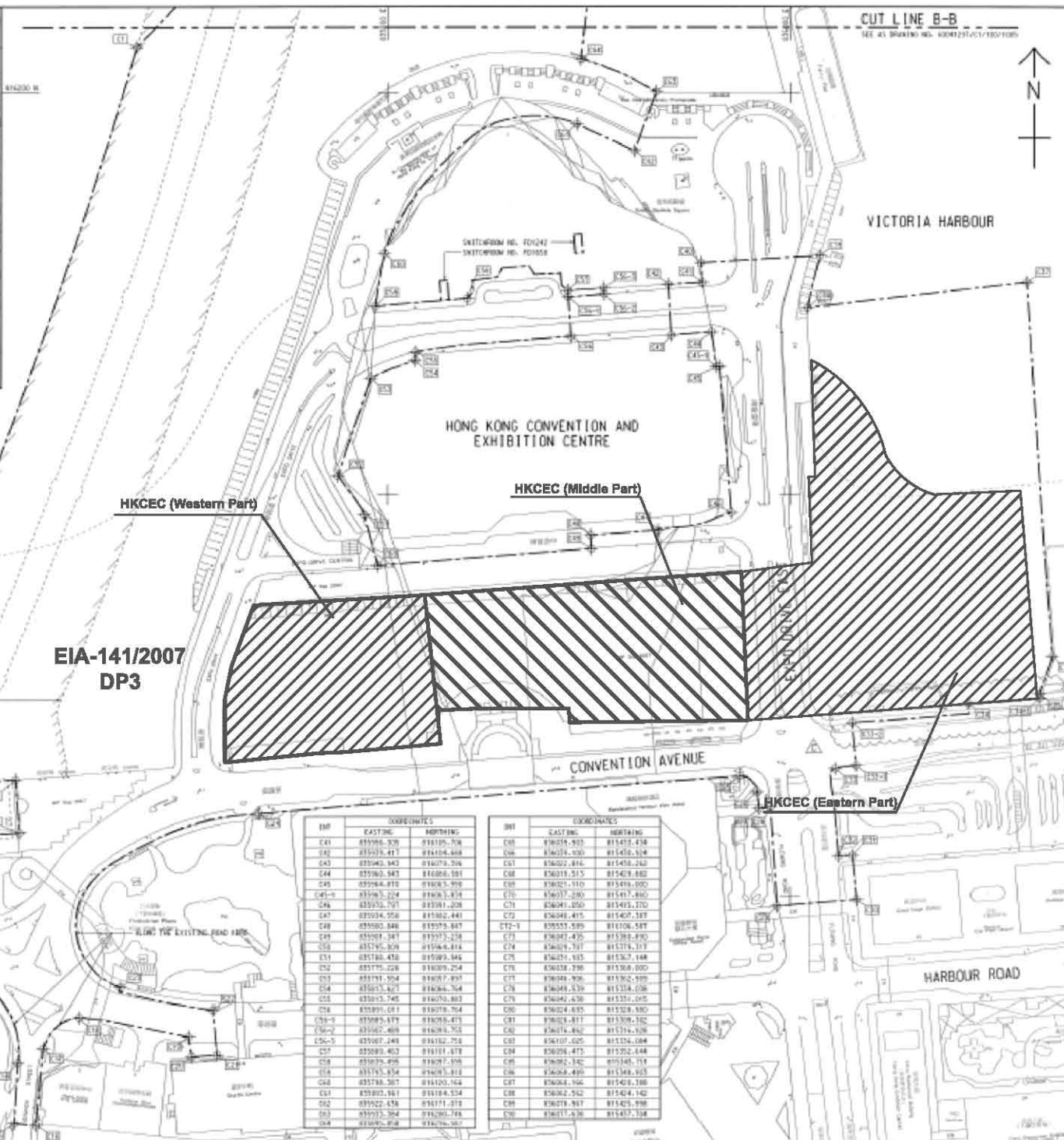
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DRGNO. 圖號	60041297/C1/100/1010B
DATE 日期	16/2009/01
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INSET 'A'
SCALE 1:1000

CENTRAL DISTRICT



EIA-141/2007
DP3

HKCEC (Western Part)

HKCEC (Middle Part)

HKCEC (Eastern Part)

INT	COORDINATES	
	EASTING	NORTHING
C41	835986.528	818125.708
C42	835973.417	818104.468
C43	835963.943	818079.706
C44	835963.543	818086.581
C45	835964.818	818083.528
C46	835963.524	818083.514
C46	835953.757	818081.208
C47	835954.956	818082.441
C48	835960.846	818075.887
C49	835961.347	818073.238
C50	835956.828	818066.814
C51	835948.478	818080.846
C52	835975.226	818089.224
C53	835971.504	818077.897
C54	835975.827	818084.764
C55	835973.745	818079.883
C56	835991.071	818078.764
C56-1	835995.679	818078.873
C56-2	835982.468	818078.765
C56-3	835987.248	818182.758
C57	835983.463	818181.878
C58	835978.498	818077.198
C59	835978.574	818081.818
C60	835978.587	818120.744
C61	835993.881	818184.524
C62	835923.434	818171.812
C63	835923.584	818280.744
C64	835923.818	818276.587

INT	COORDINATES	
	EASTING	NORTHING
C65	836028.933	818413.438
C66	836034.030	818413.614
C67	836022.816	818413.240
C68	836019.515	818413.882
C69	836023.110	818414.000
C70	836027.289	818413.880
C71	836041.050	818413.270
C72	836048.415	818407.187
C72-1	835555.589	818106.587
C73	836047.435	818385.890
C74	836049.797	818374.177
C75	836024.185	818383.148
C76	836038.298	818388.000
C77	836048.906	818382.880
C78	836048.439	818374.038
C79	836042.630	818351.015
C80	836024.635	818328.880
C81	836028.417	818308.182
C82	836024.882	818378.148
C83	836107.025	818326.084
C84	836098.473	818322.444
C85	836092.342	818348.714
C86	836084.499	818348.925
C87	836084.196	818348.388
C88	836082.512	818348.142
C89	836078.987	818345.898
C90	836077.630	818347.198

CUT LINE B-B
SEE AT DRAWING NO. A00025/C1/100/1006



KEY PLAN
SCALE 1:10000

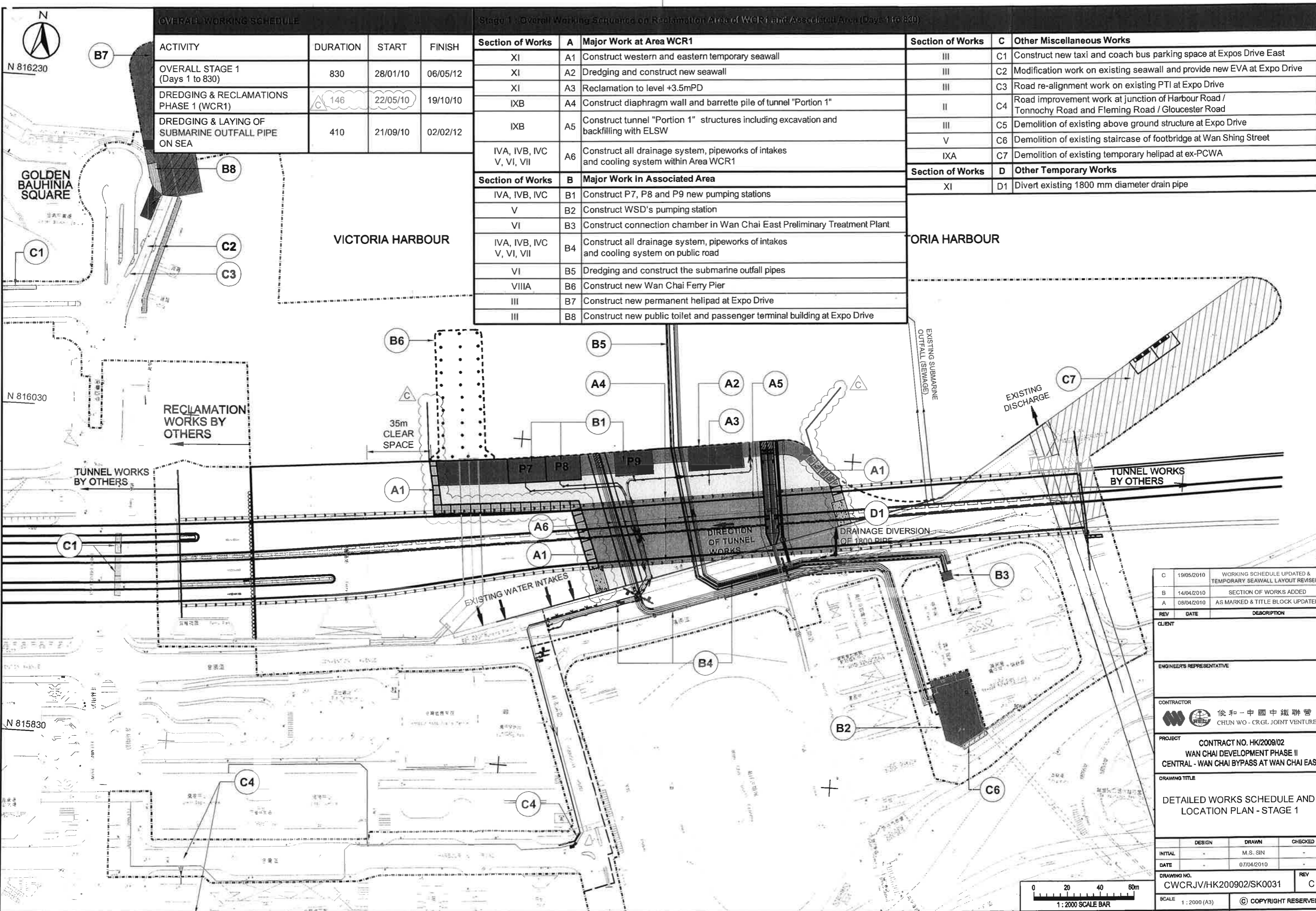
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. A00025/C1/100/1006.

INT	COORDINATES	
	EASTING	NORTHING
C1	836875.285	818222.551
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C3	836874.561	818284.825
C4	836871.020	818281.014
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C6	836881.584	818281.612
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C8	836886.191	818281.147
C9	836886.433	818282.241
C10	836881.082	818281.050
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C31	836883.216	818288.470
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C39	836886.850	818281.194
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C41	836886.810	818283.285
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C	TENDER ADDENDUM NO.4	SHEN JYL DEP C8
B	TENDER ADDENDUM NO.2	SHEN JYL DEP C8
A	TENDER ADDENDUM NO.1	SHEN JYL DEP C8
-	TENDER DRAWING	SHEN JYL DEP C8

土木工程發展局
 Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
 WAN CHAI DEVELOPMENT PHASE II -
 CENTRAL AND WEST DISTRICTS
 HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
 (Contract no. HK/2009/01)

AECOM
 DRGNO. 60041297/C1/100/1006C
 SHEET NO. 1 OF 1
 DATE: 18/2009/01
 DRAWN BY: JYL
 CHECKED BY: JYL
 SCALE: AS SHOWN
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OVERALL WORKING SCHEDULE

ACTIVITY	DURATION	START	FINISH
OVERALL STAGE 1 (Days 1 to 830)	830	28/01/10	06/05/12
DREDGING & RECLAMATIONS PHASE 1 (WCR1)	146	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	Section of Works	C	Other Miscellaneous Works
XI	A1	Construct western and eastern temporary seawall	III	C1	Construct new taxi and coach bus parking space at Expos Drive East
XI	A2	Dredging and construct new seawall	III	C2	Modification work on existing seawall and provide new EVA at Expo Drive
XI	A3	Reclamation to level +3.5mPD	III	C3	Road re-alignment work on existing PTI at Expo Drive
IXB	A4	Construct diaphragm wall and barrette pile of tunnel "Portion 1"	II	C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
IXB	A5	Construct tunnel "Portion 1" structures including excavation and backfilling with ELSW	III	C5	Demolition of existing above ground structure at Expo Drive
IVA, IVB, IVC, V, VI, VII	A6	Construct all drainage system, pipeworks of intakes and cooling system within Area WCR1	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	B	Major Work in Associated Area	Section of Works	D	Other Temporary Works
IVA, IVB, IVC	B1	Construct P7, P8 and P9 new pumping stations	XI	D1	Divert existing 1800 mm diameter drain pipe
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			

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

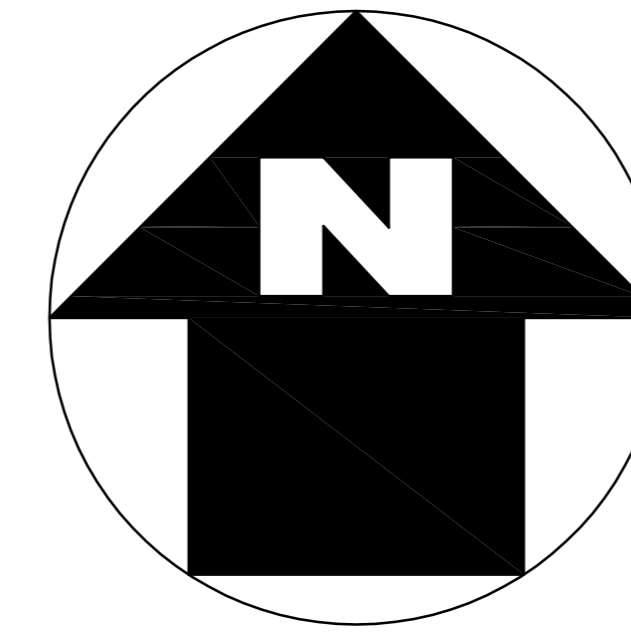
PROJECT: CONTRACT NO. HK/2009/02
WAN CHAI DEVELOPMENT PHASE II
CENTRAL - WAN CHAI BYPASS AT WAN CHAI EAST

DRAWING TITLE: DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

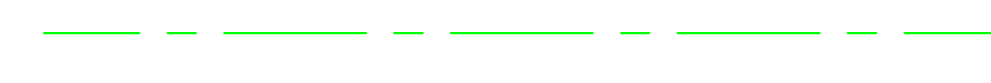
DESIGN	DRAWN	CHECKED
INITIAL: -	M.S. SIN	-
DATE: -	07/04/2010	-

DRAWING NO. CWCRJV/HK200902/SK0031
SCALE: 1:2000 (A3)
REV: C
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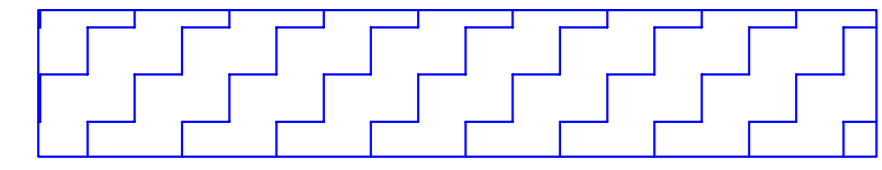
港口
HARBOUR



LEGEND:



WORKS AREA



DREDGING AREA FOR
MITIGATION OF ODOUR(DP3)



SITE BOUNDARY

TCBR1E

TCBR2
AND
TCBR3

TCBR4

TCBR1W

TPCWAW

TPCWAE

DP3

銅鑼灣避風塘
CAUSEWAY BAY TYPHOON SHELTER

吉列島
KELLETT ISLAND

貨物裝卸灣
Cargo Handling Basin

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

Highways Department
CONTRACT NO. HY/2009/15
CENTRAL-WAN CHAI BYPASS -TUNNEL
(CAUSEWAY BAY TYPHOON
SHELTER SECTION)

TITLE
LOCATION PLAN OF WORKS AREA

DRG. NO.
CWBT/EPD/001B

SCALE
1:1000 @ A0

STATUS
DIMENSIONS ARE IN
MILLIMETERS

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Victoria Park



Figure 2.2

Project Organization Chart



Project Organization Chart

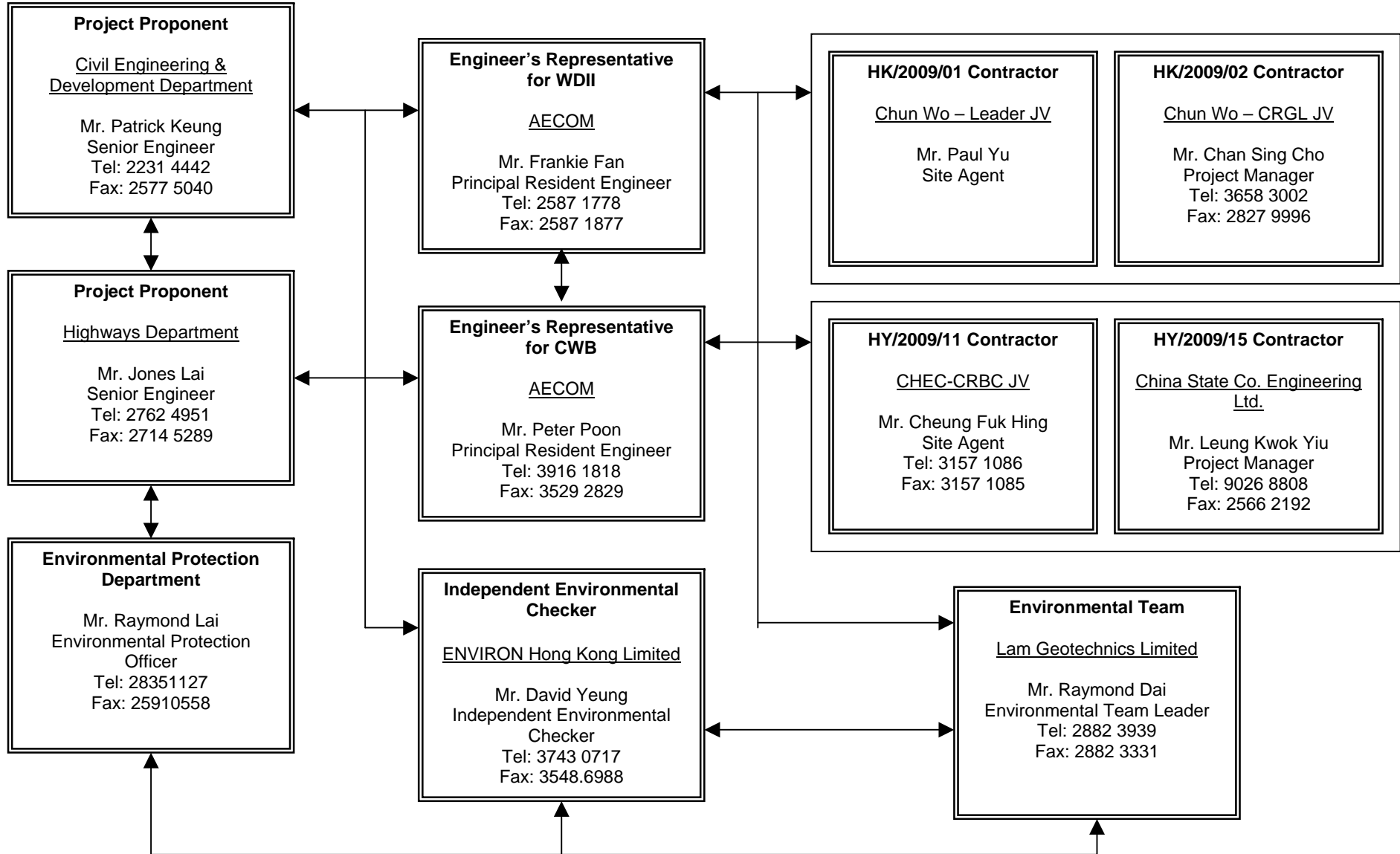
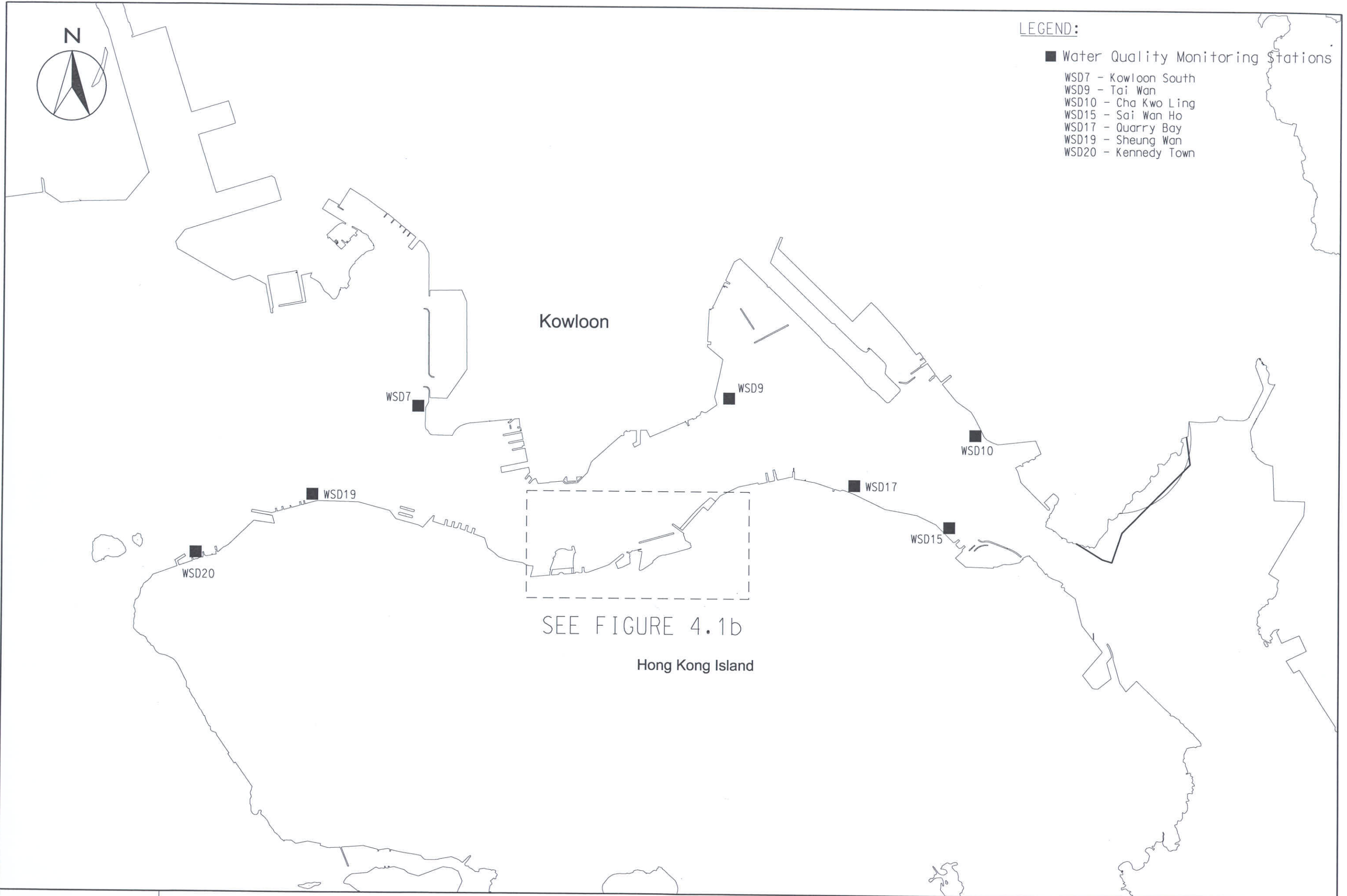




Figure 4.1

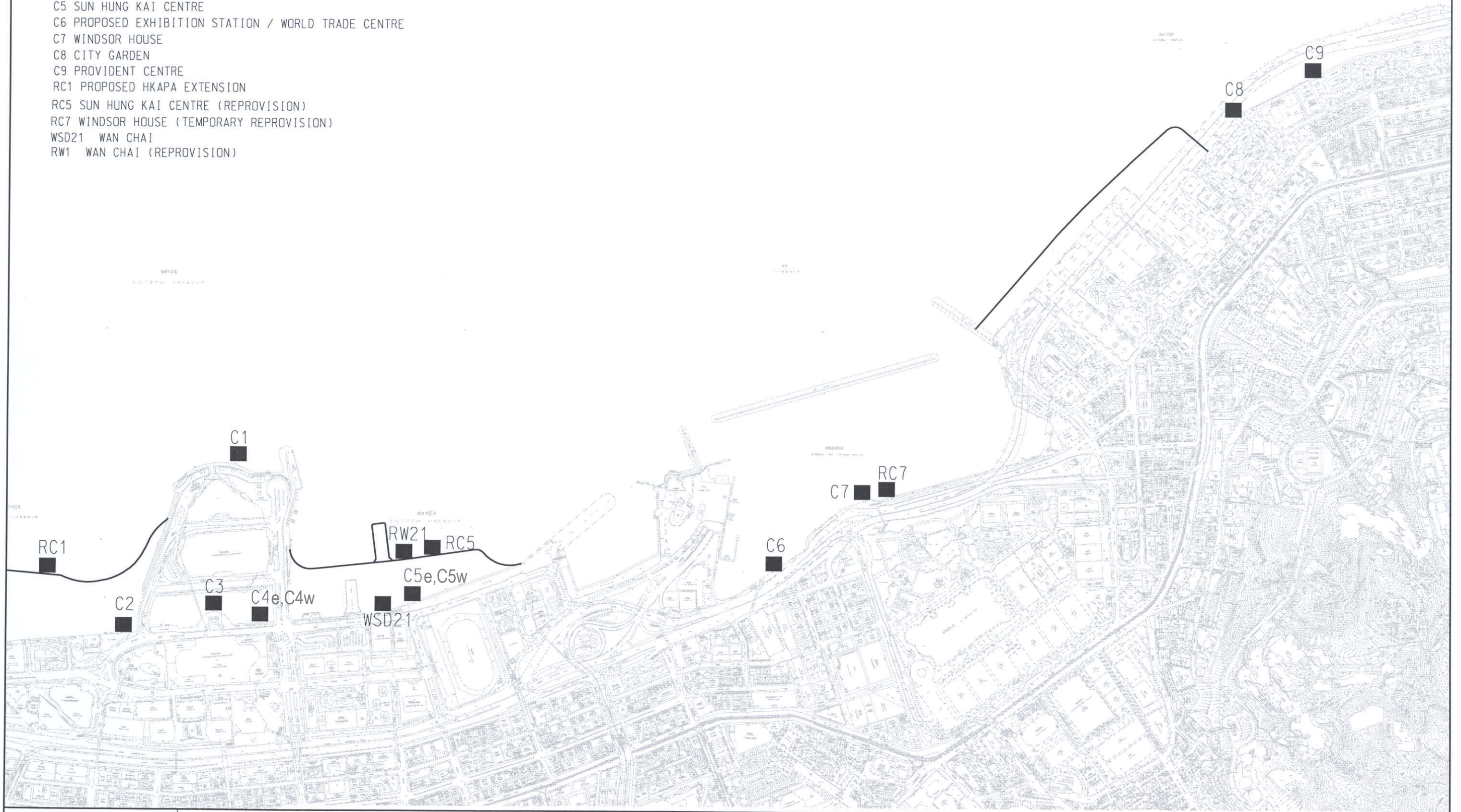
Locations of Monitoring Stations

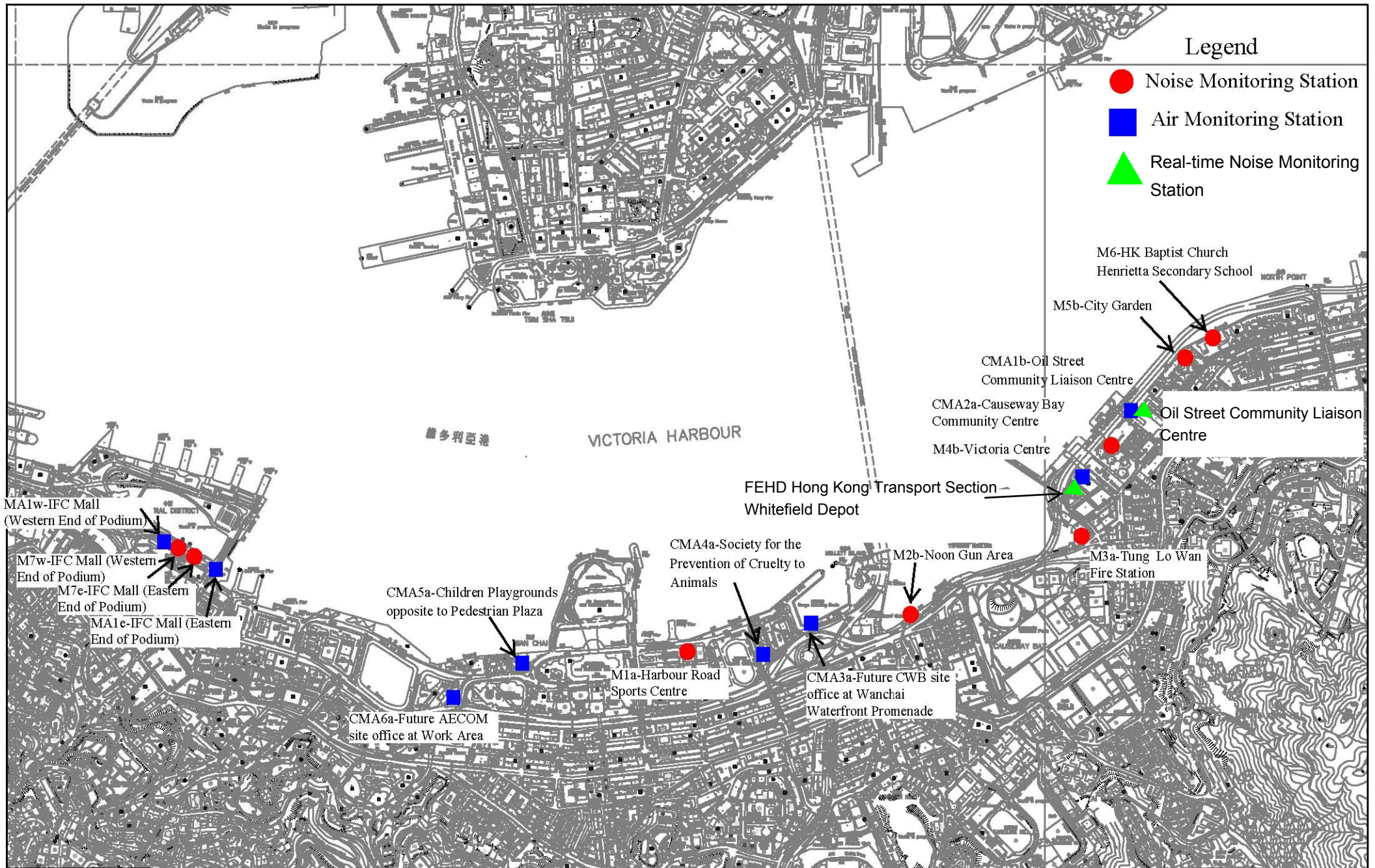


LEGEND:

WATER QUALITY MONITORING STATIONS

- C1 HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
- C2 TELECOM HOUSE/HK ACADEMY FOR PERFORMING/ 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)
- WSD21 WAN CHAI
- RW1 WAN CHAI (REPROVISION)







Appendix 2.1

Details of the Commencement of Dredging Works for Contract No. HY/2009/15

Urgent By Fax **MEMO**

From Director of Environmental Protection
 Ref. (2) in EP2/H4/S3/15 Pt.11
 Tel. No. 2835 1142
 Fax. No. 2591 0558
 Date 8 November 2010

To CE3/MW, MWPMO, HvD
 (Attn.: Mr. W Y NG)
 Your Ref. (9UJZ) in HMW(HY/2009/15)/M45/100
 dated 5.11.2010 Fax. No. 27145289
 Total Pages 2

**Contract No. HY/2009/15
 Central-Wan Chai Bypass (CWB)
 Tunnel (Causeway Bay Typhoon Shelter Section)**

Commencement of Dredging Works

I refer to your memo under reference providing a brief note and other information to us to try to demonstrate the proposed Private Mooring Area (PMA) dredging within the Causeway Bay Typhoon Shelter (CBTS) is not a designated project (DP) under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO), for our comment.

2. Based on the information submitted to us and our recent discussions and email changes, we understand the following:

- (i) The PMA dredging would involve dredging of about 33000m³ sediment; and the location of the proposed dredging would be more than 170m away from the nearest seawater intake point.
- (ii) The works are considered as "maintenance dredging works" of the CBTS for navigation safety purpose and not part of the originally proposed dredging works for the CWB project. Such kind of maintenance dredging works for navigation safety purpose have been conducted from time to time in HK waters, including the CBTS (e.g. in 1994, 1995, 2001, 2005 within the CBTS; and 195000m³ of sediment was dredged by CEDD's term contractor in 2001).
- (iii) The PMA dredging would not be concurrent with any other dredging activities within the CBTS.
- (iv) The dredging rate for the PMA dredging will be same as or less than that stipulated in EP-356/2009 within the CBTS. Silt curtains and silt screens would be deployed as stipulated in EP-356/2009 to reduce any water quality impact.
- (v) Other established requirements under the Dumping At Sea Ordinance and ETWB TCW No. 43/2002 shall be followed.


3. Based on the above understanding on your proposed dredging works and environmental mitigation measures and the potential environmental impacts, we consider that the proposed dredging is not a designated project by itself and is not a material change to "Reclamation works including associated dredging works" which was referred as "DP3" in the WDII&CWB EIA Report under EIAO.

4. To ensure proper control of the concerned works to avoid potential adverse environmental impact, the environmental monitoring and audit (EM&A) programme in particular water quality monitoring and audit programme should be conducted in accordance with the EM&A Manual during the PMA dredging within the CBTS. The proposal of the PMA dredging; the justifications from you,

ET Leader and IEC that the PMA dredging is not a DP; and EM&A results should be documented in the monthly EM&A report to be submitted under Environmental Permit No. EP-356/2009.

5. Should there be any major change to the subject PMA dredging, which may render it becoming a designated project or a material change to DP under the EIAO, you should keep us informed of any such changes.

6. Please also note that our advice above is given based on your submitted information, and does not cover any separate process or proposal.



(Steve T. S. LI)

Acting Senior Environmental Protection Officer
for Director of Environmental Protection

c.c.

PM/HK&I, CEDD	(Attn: Mr. Patrick SK KEUNG)	Fax: 25775040
D of Marine	(Attn: Mr. C Y Tsang)	Fax: 25811765
CE, Port Works, CEDD	(Attn: Mr. S K TONG)	Fax: 27142054
AECOM	(Attn: Mr. Conrad NG)	Fax: 36912649
PRE/CWB	(Attn: Mr. Peter POON)	Fax: 35292829
ET Leader/LAM	(Attn: Mr. Raymond DAI)	Fax: 28823331
IEC/Environ	(Attn: Mr. David YEUNG)	Fax: 35486988

c.c. internal: P(MA), S(RS)2, S(RS)4, E(MA)31, S(Tc)3

1. WATER QUALITY IMPACT

Introduction

1.1 This dredging activity aims to provide sufficient water depth for safe navigation of yacht relocated due to the CWB marine works in the CBTS. The dredging volume for this dredging works is about 32,510 m³. The nearest seawater intake is over 170 m away from the dredging boundary. This proposed dredging activity not a Designated Project in view of the followings:

- The dredging operation does not exceed the limit 500,000 m³,
- There is no existing and planned site of special scientific interest, site of cultural heritage, bathing beach, marine park or marine reserve, fish culture zone, wild animal protection area, coastal protection area, and conservation area within 500 m from the dredging boundary,
- There is no seawater intake point within 100 m from the dredging boundary.

1.2 As the proposed dredging work does not fit into any one of the criteria stipulated in the Schedule 2 of the EIAO, therefore the proposed dredging activity is not a Designated Project.

Water Sensitive Receivers

1.3 As the Causeway Bay Typhoon Shelter (CBTS) is a nearly enclosed marine embayment, the sediment plume and pollutant generated from the dredging work is expected to be mainly confined within the CBTS and would not contribute any significant cumulative impact with other concurrent activities in the open harbour as demonstrated from the model results available from the approved Environmental Impact Assessment Report for Wan Chai Development Phase II and Central-Wan Chai Bypass (WDII & CWB EIA) (Register No.: AEIAR-125/2008). This assessment would mainly focus on the water quality impact at the water sensitive receivers (WSRs) within the CBTS.

1.4 Two seawater intakes are located within the CBTS, which supply cooling water to the air conditioning systems of Excelsior Hotel, World Trade Centre, no. 27- 63 Paterson Street (namely Intake 8) as well as Windsor House (namely Intake 9) as shown in **Figure 1**. No reclamation would be carried out in the CBTS under the WDII project before and during this proposed dredging activity and thus no temporary relocation of cooling water intake would occur during this proposed dredging activity.

1.5 There are a number of seawater intakes identified along the coastlines of Wan Chai, Causeway Bay and North Point, include both WSD flushing water intakes and cooling water intakes. These seawater intakes are relative far from the dredging boundary (over 500 m) and are shielded by the CBTS breakwater. Thus, the potential impact due to dredging activities to these seawater intakes is not expected.

Identification of Potential Impact

1.6 Potential sources of water quality impact associated with the sediment removal at the CBTS would be solely contributed by the water quality impact due to dredging activity.

1.7 With adoption of the good site practices as outlined in **Sections 1.15**, no adverse water quality impact would be expected from the dredging operation.

Prediction and Evaluation of Impacts

1.8 The dredging activity aim to provide sufficient water depth for the safe navigation and anchorage of yachts for the Royal Hong Kong Yacht Club (RHKYC). The project would require dredging at location near the CBTS breakwater as well as water near the western outlet of the CBTS (east to the RHKYC). The suspended solid elevation due to the loss of

fine would be resulted from the dredging. As shown in **Figure 1**, the dredging area is divided into two parts. The eastern section locates at the immediate south of the CBTS breakwater while the western section locates at the eastern water of the RHKYC. Both sections are located at the north of the reclamation boundary for the CWB temporary reclamation in CBTS. The expected dredging volume is approximately 32,510 m³. The proposed maximum production rate for dredging would be 6,000 m³/day and confirmed no concurrent dredging activity from the other Project within the CBTS. The required dredging period would be short (32,510 m³ ÷ 6,000 m³/day = 5.4 day). The dredging boundary is both over 170 m from the WSRs, Intake 8 and Intake 9. Other cooling water intakes outside the CBTS would be further away from the dredging boundary shielded by the CBTS breakwater. The impact to these WSRs is not expected. Thus, this assessment would mainly focus on the water quality impact on the two cooling water intakes within the CBTS.

- 1.9 The water quality impact due to dredging works for the WDII & CWB Project at the CBTS has been quantitatively addressed in the WDII & CWB EIA Report. Scenario 2B addressed in the WDII & CWB EIA Report simulates a situation that is similar to the dredging work in this activity. With reference to the WDII & CWB EIA Report, Scenario 2B is the worst case scenario for the cooling water of Intake 8, where dredging for seawall foundation would be carried out at the southern seawall of TCBR1W, close to Intake 8. The sediment source assumed in the WDII & CWB assessment is about 50 m from Intake 8. As discussed above, the distance from the dredging boundary to the WSRs (Intake 8 & 9) would be over 170 m, which is much less critical than the assessment in the Scenario 2B of the WDII & CWB EIA. Since the separation distance from the dredging boundary to Intake 8 in the WDII & CWB EIA Report is much shorter than the distance from the proposed dredging boundary to Intake 8 & 9 (170m), using the assessment result from the WDII & CWB EIA Report should be sufficiently conservative. As the dredging activity would be carried out shortly before the temporary reclamation works in the CBTS for the CWB Project, the concurrent works assumed in Scenario 2B would be similar to that of the dredging work under this activity. The coastline configuration assumed under Scenario 2B, where no temporary reclamation was assumed within the CBTS, is similar to the expected coastline configuration under this activity as well. The dredging rate adopted under Scenario 2B was 6,000 m³/day, which is the same as this activity. As this dredging activity is similar to Scenario 2B of the WDII and CWB EIA in terms of both concurrent works and coastline configuration, while the distance from the dredging boundary to the WSRs is much longer than that of Scenario 2B, the water quality impact predicted in Scenario 2B would be worse than the actual situation under this dredging activity.
- 1.10 The water quality finding under the WDII & CWB EIA Report shows that, under the unmitigated Scenario 2B, significant suspended solid (SS) elevation was predicted at the two cooling water intake at the CBTS (as shown in **Table 5.23** of the WDII & CWB EIA). The maximum SS elevation at Intake 8 was predicted to be 70.2 and 159.1 mg/L respectively in dry and wet season. The predicted maximum SS elevation at Intake 9 was 9.0 and 111.3 mg/L respectively in dry and wet season. Mitigation measures, including the application of silt curtain around the close grab dredger and provision of silt screen at the seawater intakes, were proposed to mitigate the water quality impact due to the dredging operation. Under the mitigated Scenario 2B, silt curtain would be applied around the close grab dredger while the silt screens would be applied at both Intake 8 and Intake 9. The predicted water SS elevation in the CBTS is greatly reduced after the application of the mitigation measures (as shown in **Table 5.41** of the WDII & CWB EIA). The predicted maximum SS level at Intake 8 is 9.4 and 18 mg/L in dry and wet season respectively. The predicted maximum SS level at Intake 9 is 3.6 and 13.3 mg/L in dry and wet season respectively. The extent of sediment plume (mitigated and unmitigated) was confined in the CBTS as shown in the **Appendix 5.9c** and **5.9d** of the WDII & CWB EIA Report, thus SS impact on WSRs outside the CBTS is not expected. As discussed in **Section 1.9**, the water quality impact for this dredging activity would be less critical than

that predicted in Scenario 2B of the WDII & CWB EIA Report. In other words, the SS elevation due to this dredging activity should be lower than the predicted value in Scenario 2B. Considering the low level of SS elevation as well as the short period of dredging, no adverse SS impact is expected from the dredging operation under this dredging activity.

- 1.11 The proposed dredging operation may disturb the bottom sediment and result in release of sediment-bounded contaminants. The release of contaminants may include heavy metals and trace organics. Assessment concerning the release of contaminants was made in the WDII & CWB EIA Report. Three samples in the CBTS (V06-06W, V06-07W and V06-08W, as shown in **Table 5.27** of the WDII & CWB EIA) have been analysis in elutriate test for the leachability level of heavy metals and trace organics bounded in the sediment. The elutriate test showed that the results compliance well with the selected UK standard, except a small exceedance in silver level (2.8 µg/L, as compared with 2.2 µg/L of the UK standard) at the 3.0 to 4.0 m sediment section. This shows that the level of contamination of the marine sediment within the CBTS is generally low. The possibility for the release of contaminants under the dredging operation is expected to be low as well. Since there is no biological sensitive receiver within the CBTS and there are no areas of conservation value, ecological importance or mariculture activities in the vicinity, any localized plume of contaminants (which is confined within the CBTS) is not likely to cause any adverse ecological impact. The only affected WSRs are two cooling water intakes for the nearby building located within the CBTS, which are not sensitive to the elevated level of pollutants. Thus, it is considered that no adverse marine water quality impact for any possible release of contaminants.
- 1.12 The dredging operation in the CBTS may also result in potential depletion of oxygen due to the elevation in suspended solid. This issue has also been addressed in the Scenario 2B of the WDII and CWB EIA Report. Under the unmitigated Scenario 2B, the maximum oxygen depletion at Intake 8 and Intake 9 is 0.927 and 0.634 mg/L respectively. The predicted minimum DO would be above 4.0 mg/L for both intakes under the unmitigated scenario. As the water quality impact under this activity should be less critical than that of Scenario 2B, it is reasonably expected that there would not be any adverse oxygen depletion impact at both of the intakes.
- 1.13 Release of sediment bounded nutrients may cause water quality impact in the CBTS. A tracer modeling was carried out for the water quality assessment of Scenario 2B of the WDII & CWB EIA Report. The marine SI founded that the sediment in the CBTS contain high level of total inorganic nitrogen (TIN) as well as ammonia nitrogen (NH₃-N) (300 and 6.9 mg/L respectively for TIN and NH₃-N at SI station V06-06W). The nutrient loss rate in the modeling scenario was calculated from the highest level of nutrients of the marine sediment, thus is conservative. The modeling result, as shown in **Table 5.34** of the WDII & CWB EIA, predicted that the TIN level would be slightly higher than the WQO criterion for TIN (0.053 mg/L, as compared to 0.04 mg/L for the WQO in the Victoria Harbour) at Intake 8, which is close to the assumed source point. The level of unionized ammonia (UIA) at Intake 8 was predicted to be low (0.000028 mg/L as compared to 0.021 mg/L for the WQO in the Victoria Harbour). The level of nutrients was predicted to be lower at Intake 9. The predicted TIN and UIA level was 0.034 and 0.000018 mg/L respectively, which compliance with the WQO. As both cooling water intakes are not sensitive to the elevated level of nutrients, no adverse water quality impact was predicted at both intakes. It is expected that the water quality impact due to the potential release of nutrient under this proposed dredging works would be less significant than the situation simulated in the Scenario 2B of the WDII & CWB EIA. No water quality impact is expected from the proposed dredging operation.

Recommended Water Quality Mitigation Measures

- 1.14 The following mitigation measures are recommended during marine dredging to minimize the loss of fine sediment to suspension:

- The maximum dredging rate for construction of the barging point shall not exceed 6,000 m³ per day;
- Closed grab dredger should be used to minimize the loss of sediment during the raising of the loaded grabs through the water column;
- As an appropriate mitigation measure, a floating type silt curtain will be erected around the working area to minimize the potential SS impact from dredging;
- Silt screens should be applied at Intake 8 and Intake 9. Regular maintenance to the silt screens should also be provided;
- The descent speed of grabs should be controlled to minimize the seabed impact speed;
- Barges should be loaded carefully to avoid splashing of material;
- All barges used for the transport of dredged materials should be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;
- All barges should be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.

1.15 Good site practices as listed below should be applied to minimize water quality impacts due to the operation of the proposed barging points where appropriate:

- All vessels should 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 should be fitted with tight fitting seals to their bottom openings to prevent leakage of material
- Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation

Evaluation of Residual Impact

1.16 With the application of mitigation measures, including silt curtain around the grab and silt screen at both seawater intakes, the SS impact on the receivers could be reduced to an acceptable level. Since the WSRs nearby are not sensitive to the release of contaminants and nutrients, no water quality implication is expected from the release of contaminants and nutrients due to dredging under this Project. No adverse oxygen depletion impact is expected from the dredging operation. Thus no water quality impact on these WSRs is expected.

Environmental Monitoring and Audit

1.17 Since no adverse water quality impact is expected, no environmental monitoring would be required.

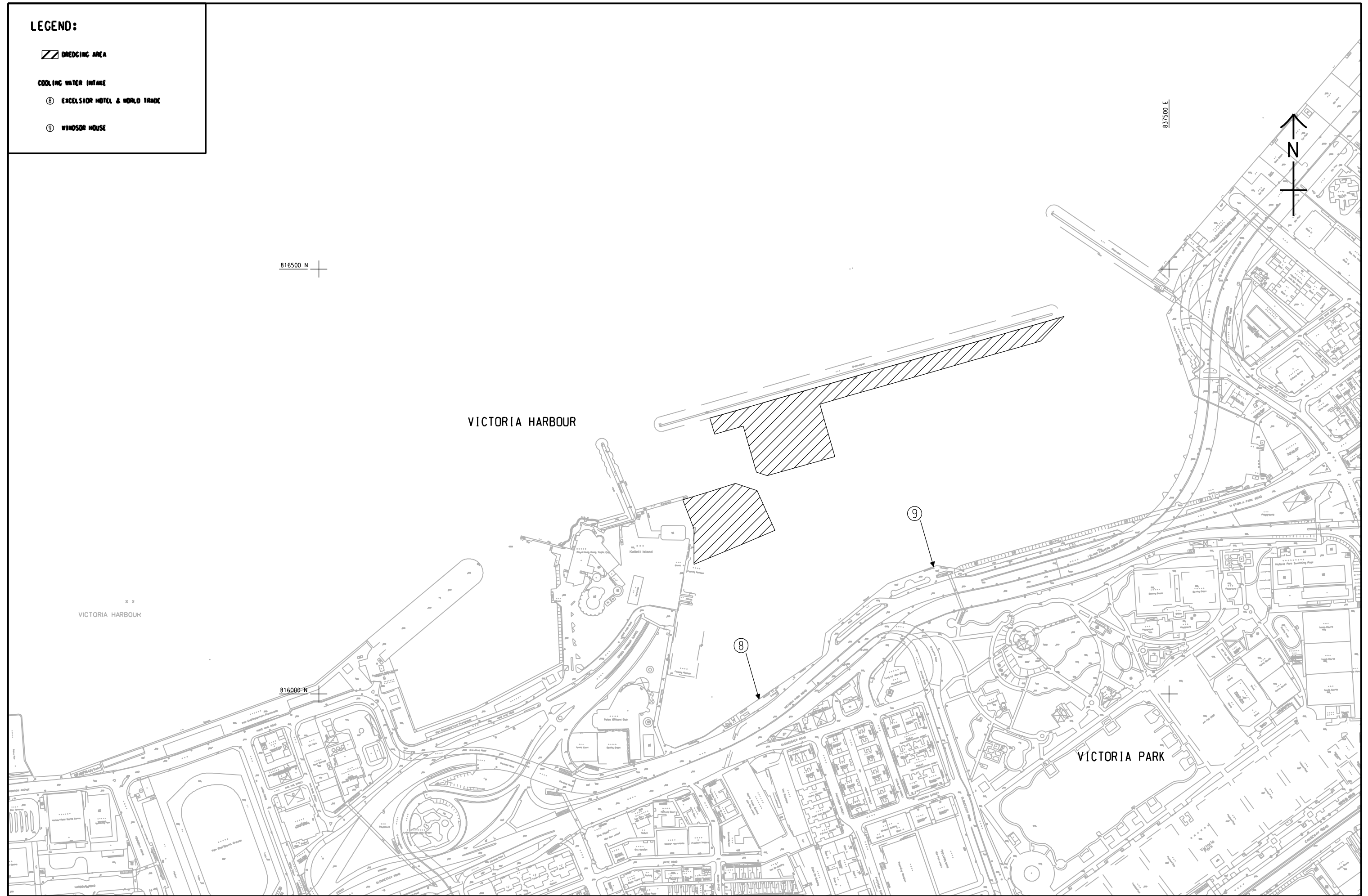
LEGEND:

 DREDGING AREA

 COOLING WATER INTAKE

 EXCELSIOR HOTEL & WORLD TRADE

 WINDSOR HOUSE



主旨: RE: HY/2009/15 - PMA dredging

從: raymonddai@lamenviro.com

日期: Fri, 5 Nov 2010 00:03:56 +0800 (HKT)

到: "Cheng, Bing Cheung Kelvin" <kelvin.cheng@aecom.com>

副本 (CC): "David Yeung" <dyeung@environcorp.com>, "Raymond Dai" <raymonddai@lamenviro.com>, "Ng, Chung Wai Conrad" <conrad.ng@aecom.com>, "Peter Poon" <peter.poon@cwbaecom.com>, e4cwb.mw@hyd.gov.hk, "Eric Wong" <eric.wong@cwbaecom.com>, "Wong, Chi Wah Steven" <steven.wong@aecom.com>

Dear Kelvin,

After reviewing the brief paper, I confirm the following:

1. The quantity and location of the proposed dredging works at PMA of CBTS according to the area described in Fig.1 is not a designated project under the EIAO as long as this proposed dredging works is a standalone dredging works within the CBTS.
2. With the existing breakwater of CBTS being maintained, the proposed dredging works at PMA of CBTS will be an embayed area activity and thus a comparison with Scenario 2B of the WDII & CWB EIA Report will be able to represent the worstcase scenario to assess the potential water quality impact.
3. Water quality impact due to a standalone dredging works at PMA of CBTS is predicted to be less worse than the prediction under worstcase scenario 2B of the WDII & CWB EIA Report so that the EIA prediction can also be applied to this proposed dredging work.
4. With the coral translocation done since Feb 2010, no ecological sensitive receiver can be concluded.
5. With the commencement of dredging works at PMA of CBTS, environmental monitoring and audit in accordance with the EM&A Manual need to be implemented.

Regards,

Raymond Dai

Lam Geotechnics Limited

Lam Environmental Services Limited

Dear David Yeung/ Raymond Dai,

Please find attached a brief paper of our qualitative assessment on the water quality impact for dredging works at the PMA of CBTS for your consideration. Grateful if you could confirm the dredging works at PMA is not a designated project under EIAO and the water quality impact due to this dredging will not be worse than any one scenarios in the approved EIA Report today. Many thanks.

Regards,

Kelvin Cheng, CEng, MICE, MHKIE

ASSOCIATE

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From: Cheng, Bing Cheung Kelvin

Sent: Wednesday, November 03, 2010 3:08 PM

To: David Yeung; Raymond Dai

Cc: Ng, Chung Wai Conrad; 'Peter Poon'; 'e4cwb.mw@hyd.gov.hk'; Eric Wong; Wong, Chi Wah Steven

Subject: FW: HY/2009/15 - PMA dredging

Importance: High

Dear David / Raymond,

I refer to the email from Kelvin Ng below regarding the dredging at PMA issues.

For avoidance of doubt, would you please give us (don't email to EPD directly) a clear statement stating that the proposed dredging works at PMA of CBTS is not defined as a "Designated Project" under the EIAO and the water quality impact due to this dredging would not be worse than any scenarios assumed in the approved EIA Report today.

Many thanks.

Regards,
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From: e4cwb.mw@hyd.gov.hk [<mailto:e4cwb.mw@hyd.gov.hk>]
Sent: Wednesday, November 03, 2010 2:55 PM
To: Cheng, Bing Cheung Kelvin
Cc: Ng, Chung Wai Conrad; peter.poon@cwbaecom.com; se4cwb.mw@hyd.gov.hk; se3cwb.mw@hyd.gov.hk; e5cwb.mw@hyd.gov.hk; e3cwb.mw@hyd.gov.hk; e6cwb.mw@hyd.gov.hk; eric.wong@cwbaecom.com; ce3.mw@hyd.gov.hk
Subject: HY/2009/15 - PMA dredging
Importance: High

Dear Kelvin,

After further discussed with Raymond LAI of EPD and he asked for the following information to facilitate their consideration:

(1) A clear message from the ET and IEC that the PMA dredging works is not a Designated Project and the PMA dredging works will not cause material change to the WDII&CWB EIA findings.

Please work with the ET and IEC to get their blessing as early as possible. To avoid misunderstanding, please have a look of their response before it is issued to EPD.

Regards,

Kelvin WY Ng
E4/CWB, HyD
Tel: 2762 3570

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主旨: RE: HY/2009/15 - PMA dredging

從: "David Yeung" <dyeung@environcorp.com>

日期: Thu, 4 Nov 2010 09:59:03 -0400

到: "Cheng, Bing Cheung Kelvin" <kelvin.cheng@aecom.com>, "Raymond Dai" <raymondai@lamenviro.com>

副本 (CC): "Ng, Chung Wai Conrad" <Conrad.Ng@aecom.com>, "Peter Poon"

<Peter.Poon@cwbaecom.com>, <e4cwb.mw@hyd.gov.hk>, "Eric Wong" <Eric.Wong@cwbaecom.com>,

"Wong, Chi Wah Steven" <Steven.Wong@aecom.com>

Kelvin,

We consider that the technical information in the brief paper is technically in order. Therefore based on the information in the brief paper only, we confirm that the dredging works at PMA is not a designated project under Schedule 2 of the EIAO. The water quality impact due to the dredging works at PMA is not expected to be worse than the worst-case scenario in the approved EIA Report.

David Yeung | Managing Director & Principal

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T: 852.3743.0788 | F: 852.3548.6988 | M: 852.9019.3740 | dyeung@environcorp.com

From: Cheng, Bing Cheung Kelvin [mailto:kelvin.cheng@aecom.com]

Sent: Thursday, November 04, 2010 17:29

To: David Yeung; Raymond Dai

Cc: Ng, Chung Wai Conrad; Peter Poon; e4cwb.mw@hyd.gov.hk; Eric Wong; Wong, Chi Wah Steven

Subject: RE: HY/2009/15 - PMA dredging

Dear David Yeung/ Raymond Dai,

Please find attached a brief paper of our qualitative assessment on the water quality impact for dredging works at the PMA of CBTS for your consideration. Grateful if you could confirm the dredging works at PMA is not a designated project under EIAO and the water quality impact due to this dredging will not be worse than any one scenarios in the approved EIA Report today. Many thanks.

Regards,

Kelvin Cheng, CEng, MICE, MHKIE

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From: Cheng, Bing Cheung Kelvin

Sent: Wednesday, November 03, 2010 3:08 PM

To: David Yeung; Raymond Dai

Cc: Ng, Chung Wai Conrad; 'Peter Poon'; 'e4cwb.mw@hyd.gov.hk'; Eric Wong; Wong, Chi Wah Steven

Subject: FW: HY/2009/15 - PMA dredging

Importance: High

Dear David / Raymond,

I refer to the email from Kelvin Ng below regarding the dredging at PMA issues.

For avoidance of doubt, would you please give us (don't email to EPD directly) **a clear statement stating that the proposed dredging works at PMA of CBTS is not defined as a "Designated Project" under the EIAO and the water quality impact due to this dredging would not be worse than any scenarios assumed in the approved EIA Report today.**

Many thanks.

Regards,

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Sent: Wednesday, November 03, 2010 2:55 PM

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Subject: HY/2009/15 - PMA dredging

Importance: High

Dear Kelvin,

After further discussed with Raymond LAI of EPD and he asked for the following information to facilitate their consideration:

(1) A clear message from the ET and IEC that the PMA dredging works is not a Designated Project and the PMA dredging works will not cause material change to the WDII&CWB EIA findings.

Please work with the ET and IEC to get their blessing as early as possible. To avoid misunderstanding, please have a look of their response before it is issued to EPD.

Regards,

Kelvin WY Ng
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Tel: 2762 3570

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authorized agent of the addressee, you may not review, copy, distribute or disclose to anyone the message or any information contained within. If you have received this message in error, please contact the sender by electronic reply to email@environcorp.com and immediately delete all copies of the message.



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								
<i>For the Whole Project</i>								
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. <ul style="list-style-type: none"> 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		√			

Appendix 3.1

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								
<i>For the Whole Project</i>								

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

Appendix 3.1

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 DPI – 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

Appendix 3.1

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								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.9.4	<p>Good Site Practice:</p> <ul style="list-style-type: none"> 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)								

Appendix 3.1

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	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> 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 <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> 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	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> 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	<p>Use of quiet powered mechanical equipment for the following task:</p> <ul style="list-style-type: none"> Filling behind seawall Seawall construction 	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

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: <ul style="list-style-type: none"> Submarine pipelines (marine section) Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Submarine pipelines (marine section) 	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

Appendix 3.1

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)								

Appendix 3.1

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								
<i>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)</i>								
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Appendix 3.1

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 CR111 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. <table border="1" style="margin: 10px auto; width: 80%;"> <thead> <tr> <th rowspan="2">Reclamation Area</th> <th colspan="2">Maximum Dredging Rate</th> <th rowspan="2">Maximum Dredging Rate (m³ per week)</th> </tr> <tr> <th>m³ per day</th> <th>m³ per hour (for 16 hrs per day)</th> </tr> </thead> <tbody> <tr> <td colspan="4">Dredging along seawall or breakwater</td> </tr> <tr> <td>North Point Shoreline Zone (NPR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>Causeway Bay</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Shoreline Zone</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>PCWA Zone</td> <td>5,000</td> <td>313</td> <td>35,000</td> </tr> </tbody> </table>	Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m ³ per week)	m ³ per day	m ³ per hour (for 16 hrs per day)	Dredging along seawall or breakwater				North Point Shoreline Zone (NPR)	6,000	375	42,000	Causeway Bay	1,500	94	10,500	Shoreline Zone	6,000	375	42,000	PCWA Zone	5,000	313	35,000	Work site / During the construction period	Contractor		√		EIAO-TM, WPCO
Reclamation Area	Maximum Dredging Rate		Maximum Dredging Rate (m ³ per week)																														
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EIA Ref	Environmental Protection Measures / Mitigation Measures				Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines																						
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	<table border="1"> <tr> <td>Wan Chai Shoreline Zone (WCR)</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Shoreline Zone (HKCEC)</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>HKCEC Stage 1 & 3</td> <td>6,000</td> <td>375</td> <td>42,000</td> </tr> <tr> <td>HKCEC Stage 2</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Cross Harbour Water Mains</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> <tr> <td>Wan Chai East Submarine Sewage Pipeline</td> <td>1,500</td> <td>94</td> <td>10,500</td> </tr> </table> <p>Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1.</p>	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000	HKCEC Shoreline Zone (HKCEC)	1,500	94	10,500	HKCEC Stage 1 & 3	6,000	375	42,000	HKCEC Stage 2	1,500	94	10,500	Cross Harbour Water Mains	1,500	94	10,500	Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500								
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Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500																														
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	<p>Silt screens shall be applied to seawater intakes at interim construction stages as stated below:</p> <table border="1"> <thead> <tr> <th>Interim Construction Stage</th> <th>Location of Applications</th> </tr> </thead> <tbody> <tr> <td>Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,</td> <td>WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South</td> </tr> <tr> <td></td> <td>Cooling water intakes for Hong Kong Convention and Exhibition Centre Extension, Hong Kong</td> </tr> </tbody> </table>	Interim Construction Stage	Location of Applications	Scenario 2A in early 2009 with concurrent dredging activities at HKCEC, WCR, TPCWA,	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	Work site / During the construction period	Contractor		√				EIAO-TM, WPCO																		
Interim Construction Stage	Location of Applications																																
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Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines					
					Des	C	O	Dec						
	<table border="1"> <tr> <td>TBW, NP and Water Mains Zone</td> <td>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>	TBW, NP and Water Mains Zone	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	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
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S5.8	<p>Other mitigation measures include:</p> <ul style="list-style-type: none"> 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)						

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> 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	<p>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.</p>	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	<p>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.</p>	Causeway Bay typhoon shelter/Implementation of harbour-front enhancement.	CEDD ³		√			WPCO

Appendix 3.1

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	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Work site / During the construction 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	
	<p>required.</p> <ul style="list-style-type: none"> 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. 							
	<ul style="list-style-type: none"> 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	<p><i>Sewage from Construction Work Force</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<p><i>Floating Debris and Refuse</i></p> <p>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.</p>	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	<p><i>Storm Water Discharges</i></p> <p>Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.</p>	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
Operation Phase								
DPI – CWB (within the Project Boundary)								
S5.8	<p>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:</p> <ul style="list-style-type: none"> 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

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>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.</p> <ul style="list-style-type: none"> 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

Appendix 3.1

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								
<i>For DP3 – Reclamation Works</i>								
S6.7.2	<p>Marine Sediments</p> <p>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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 34/2002
S6.7.3	<p>Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm³. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.</p>							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	<p>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</p>							
S6.7.6	<p>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:</p> <ul style="list-style-type: none"> • 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. 							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> 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	<p>Floating Refuse</p> <p>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.</p>	Work site / During the construction period	Contractor		√			
For the Whole Project								

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.7	<p>Good Site Practices</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> 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)

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.8	<p><i>Waste Reduction Measures</i></p> <p>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:</p> <ul style="list-style-type: none"> 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	√	√			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	<p><i>General Refuse</i></p> <p>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.</p> <p>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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	<p><i>Chemical Wastes</i></p> <p>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.</p>	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	<p><i>Construction and Demolition Material</i></p> <p>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 WDI 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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

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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	<i>Bentonite Slurry</i> 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: <ul style="list-style-type: none"> 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

Appendix 3.1

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								
<i>For the Whole Project</i>								
S.12.6	<ul style="list-style-type: none"> 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	√				<i>"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops"</i> 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: <ul style="list-style-type: none"> 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

Appendix 3.1

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.							
	<ul style="list-style-type: none"> 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. <p>The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:</p>							Water Pollution Control Ordinance

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Air Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> 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. 							
	<p><u>Noise Mitigation Measures</u></p> <ul style="list-style-type: none"> 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). 							

Appendix 3.1

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p><u>Water Quality Mitigation Measures</u></p> <ul style="list-style-type: none"> 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. <p><u>Waste Mitigation Measures</u></p> <ul style="list-style-type: none"> 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

Appendix 3.1

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								
<i>For the Whole Project - Schedule 3 DP</i>								
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.
<i>For DP3 - Reclamation Works</i>								
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.

Appendix 3.1

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	<p>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:</p> <ul style="list-style-type: none"> • 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.
	<ul style="list-style-type: none"> • Adoption of multiple-phase construction schedule 							

Appendix 3.1

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	<p>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:</p> <ul style="list-style-type: none"> • 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

Appendix 3.1

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

Appendix 3.1

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

Appendix 3.1

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

Appendix 3.1

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

Appendix 3.1

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 $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1a ^{Note 2}	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3 ^{Note 2}	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5 ^{Note 2}	332.0	500	181.0	260
CMA6 ^{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 will be proposed for IEC verification and EPD approval.

Action and Limit Level for Water Monitoring

Parameter	Action Level	Limit Level
WSD Salt Water Intakes		
SS in mg/L	13.00	14.43
Turbidity in NTU	8.04	9.49
DO in mg/L	3.66	3.28
Cooling Water Intakes		
SS in mg/L	15.00	22.13
Turbidity in NTU	9.10	10.25
DO in mg/L	3.36	2.73



Appendix 4.2

Copies of Calibration Certificates



Calibration Certificate

Certificate No. **96127**

Page 1 of 4 Pages

Customer : Lam Environmental Services Ltd

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

Order No. : Q92434

Date of receipt : 24-Nov-09

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224

Serial No. : 30148

Test Conditions

Date of Test : 26-Nov-09

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

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:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C081456	18-Mar-10	SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	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

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

Date: 27-Nov-09

Calibration Certificate

Certificate No. **96127**

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L _A	Fast	94.03	94.3
		Slow		94.3
	L _C	Fast		94.3
30 – 120	L _A	Fast	94.03	94.5
		Slow		94.5
	L _C	Fast		94.5
30 – 120	L _A	Fast	113.97	114.2
		Slow		114.2
	L _C	Fast		114.2

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	114.6	+0.1	± 0.7 dB
130	104.0	104.7	+0.2	
120	94.0	94.5 (Ref.)	--	
110	84.0	84.5	0.0	
100	74.0	74.2	-0.3	
90	64.0	64.0	-0.5	
80	54.0	54.0	-0.5	

Uncertainty : ± 0.1 dB

Calibration Certificate

Certificate No. **96127**

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.4	-0.1	± 0.4
	94.0	94.5 (Ref.)	--	
	95.0	95.5	0.0	± 0.2
	104.0	104.5	0.0	± 0.3
	105.0	105.5	0.0	± 1.0

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.8	- 26.2 dB, ± 1.5 dB
125 Hz	-15.7	- 16.1 dB, ± 1 dB
250 Hz	-8.3	- 8.6 dB, ± 1 dB
500 Hz	-3.0	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.2	+ 1.2 dB, ± 1 dB
4 kHz	+0.8	+ 1.0 dB, ± 1 dB
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.9	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 96127

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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	40.1	
1/10 ³	40.0	40.2	± 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 : 1 010 hPa.

----- END -----



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 : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

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:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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

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

Date: 23-Nov-10



Calibration Certificate

Certificate No. 06680

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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

Certificate No. **06680**

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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

Certificate No. 06680

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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 -----

Calibration Certificate

Certificate No. **96128**

Page 1 of 2 Pages

Customer : Lam Environmental Services Ltd

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

Order No. : Q92434

Date of receipt : 24-Nov-09

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : --

Serial No. : 050213

Test Conditions

Date of Test : 26-Nov-09

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 after adjustment.

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

Main Test equipment used:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	93091	18-Jun-10	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	SCL-HKSAR
S206	Sound Level Meter	93966	5-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: 27-Nov-09

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

Calibration Certificate

Certificate No. **96128**

Page 2 of 2 Pages

Results :

1. Level

UUT Nominal Value (dB)	Measured Value (dB)		IEC 942 Class 1 Spec.
	Before adjust.	After adjust.	
94	*93.52	94.11	± 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	1.016 kHz	± 2 %

Uncertainty : ± 3.6 x 10⁻⁶

3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 2.9 %

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 : 1010 hPa.

4. *Out of Specification.

----- END -----



Calibration Certificate

Certificate No. **06681**

Page 1 of 2 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 : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : --

Serial No. : 050213

Test Conditions

Date of Test : 19-Nov-10

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

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:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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



Calibration Certificate

Certificate No. 06681

Page 2 of 2 Pages

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 : ± 3.6 x 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 -----



Calibration Certificate

Certificate No. **03250A**

Page 1 of 3 Pages

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:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
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

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

Date: 8-Oct-10



Calibration Certificate

Certificate No. **03250A**

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UUT Setting		Frequency Weighting	Dynamic Characteristic	Applied Value (dB)	UUT Reading (dB)
Level Range	Filter				
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

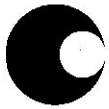
Uncertainty : ± 0.01 dB

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

Certificate No. 03250A

Page 3 of 3 Pages

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 -----



Calibration Certificate

Certificate No. 03445

Page 1 of 2 Pages

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:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
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

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 8846

Date: 25-Jun-10



Calibration Certificate

Certificate No. 03445

Page 2 of 2 Pages

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 -----



CERTIFICATE OF ANALYSIS

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

Batch: HK1019486
AMENDMENT NO: 1
LABORATORY: HONG KONG
DATE RECEIVED: 24/08/2010
DATE OF ISSUE: 12/10/2010
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

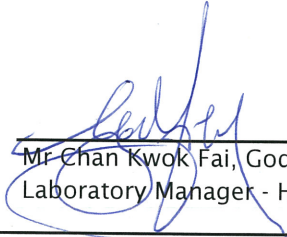
This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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1-3 Wing Yip Street
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HONG KONG

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


Mr. Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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Bogor

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Lima

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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

ALS Technichem (HK) Pty Ltd

Part of the **ALS Laboratory Group**

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., H.K.

Phone: 852-2610 1044 Fax: 852-2610 2021 www.alsenviro.com

A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



Batch: HK1019486
Amendment No: 1
Date of Issue: 12/10/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Multimeter

Item : Multimeter
ALS Lab ID: HK1019486 -001
Date of Calibration: 25 August, 2010

Model No.: HACH SEASION 156
Equipment No.: EN07
Serial No.: 1010228

Testing Results :

pH

Expected Reading	Recording Reading
4.00	4.12
7.00	7.13
10.0	9.97
Allowing Deviation	± 0.2 unit

Testing Method:

APHA (20th edition), 4500-H⁺B

Conductivity

Expected Reading	Recording Reading
146.9 uS/cm	142.4 uS/cm
6667 uS/cm	6640 uS/cm
12890 uS/cm	13100 uS/cm
58670 uS/cm	60400 uS/cm
Allowing Deviation	± 10%

Testing Method:

APHA (20th edition), 2510B

Temperature

Expected Reading	Recording Reading
15.5 °C	16.1 °C
26.5 °C	25.8 °C
37.0 °C	36.3 °C
Allowing Deviation	±2.0°C

Testing Method:

In-House Method

Salinity

Expected Reading	Recording Reading
0 g/L	0 g/L
10.0 g/L	10.6 g/L
20.0 g/L	20.8 g/L
30.0 g/L	31.8 g/L
Allowing Deviation	± 10%

Testing Method:

APHA (20th edition), 2520 A and B

DO

Expected Reading	Recording Reading
4.71 mg/L	4.74 mg/L
5.82 mg/L	5.81 mg/L
6.81 mg/L	6.93 mg/L
Allowing Deviation	± 0.2 mg/L

Testing Method:

APHA (20th edition), 4500-OC & G



ALS Technichem (HK) Pty Ltd

CERTIFICATE OF ANALYSIS

CONTACT: MS CHERRY MAK
CLIENT: LAM GEOTECHNICS LIMITED
ADDRESS: 11/F., CENTRE POINT,
181-185 GLOUCESTER ROAD,
WAN CHAI, HONG KONG.

WORK ORDER: HK1027230
LABORATORY: HONG KONG
DATE RECEIVED: 17/11/2010
DATE OF ISSUE: 18/11/2010
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

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Email: hongkong@alsenviro.com

Mr. Fung Lim Chee, Richard
General Manager

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*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*

Page 1 of 2

ADDRESS 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong PHONE +852 2610 1044 FAX +852 2610 2021
ALS TECHNICHEM (HK) PTY LTD Part of the ALS Laboratory Group A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



Work Order: HK1027230
Date of Issue: 18/11/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Multimeter

Item : Multimeter Model No.: Multi 3430 Set G
ALS Lab ID: HK1027230 -001 Equipment No.: --
Date of Calibration: 18 November, 2010 Serial No.: 10410294

Testing Results :

pH

Expected Reading	Recording Reading
4.00	4.12
7.00	7.09
10.0	9.98
Allowing Deviation	± 0.2 unit

Testing Method:

APHA (20th edition), 4500-H⁺B

Temperature

Expected Reading	Recording Reading
13.5 °C	13.9 °C
22.0 °C	21.8 °C
33.0 °C	32.8 °C
Allowing Deviation	±2.0 ⁰ C

Testing Method:

In-House Method

Salinity

Expected Reading	Recording Reading
0 g/L	0 g/L
10.0 g/L	10.3 g/L
20.0 g/L	20.6 g/L
30.0 g/L	31.0 g/L
Allowing Deviation	± 10%

Testing Method:

APHA (20th edition), 2520 A and B

Dissolved Oxygen

Expected Reading	Recording Reading
5.56 mg/L	5.52 mg/L
6.69 mg/L	6.66 mg/L
8.39 mg/L	8.37 mg/L
Allowing Deviation	± 0.2 mg/L

Testing Method:

APHA (20th edition), 4500-OC & G



CERTIFICATE OF ANALYSIS

CONTACT: MS CHERRY MAK
CLIENT: LAM GEOTECHNICS LIMITED
ADDRESS: 11/F., CENTRE POINT,
181-185 GLOUCESTER ROAD,
WAN CHAI, HONG KONG.

PROJECT:

Batch: HK1022442
AMENDMENT NO: 1
LABORATORY: HONG KONG
DATE RECEIVED: 27/09/2010
DATE OF ISSUE: 12/10/2010
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

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Email: hongkong@alsenviro.com


Mr. Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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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

ALS Technichem (HK) Pty Ltd

Part of the **ALS Laboratory Group**

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., H.K.

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A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



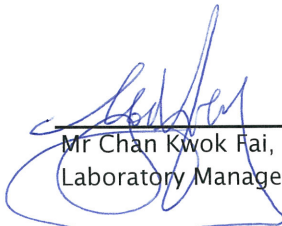
Batch: HK1022442
Amendment No: 1
Date of Issue: 12/10/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Multimeter

Item : Multimeter Model No.: YSI Sonde 600XL
ALS Lab ID: HK1022442-001 Equipment No.: EL424
Date of Calibration: 28 September, 2010 Serial No.: 05C1607

Testing Results :

pH	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 4500-H ⁺ B
	4.00	3.98	
	7.00	7.10	
	10.0	9.93	
	Allowing Deviation	± 0.2 unit	
Conductivity	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 2510B
	146.9 uS/cm	144.0 uS/cm	
	6667 uS/cm	6302 uS/cm	
	12890 uS/cm	12303 uS/cm	
	58670 uS/cm	55501 uS/cm	
Allowing Deviation	± 10%		
Temperature	Expected Reading	Recording Reading	Testing Method: In-House Method
	15.0 °C	14.8 °C	
	23.0 °C	22.7 °C	
	35.0 °C	34.5 °C	
	Allowing Deviation	±2.0°C	
Salinity	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 2520 A and B
	0 g/L	0 g/L	
	10.0 g/L	9.84 g/L	
	20.0 g/L	20.1 g/L	
	30.0 g/L	30.9 g/L	
Allowing Deviation	± 10%		
DO	Expected Reading	Recording Reading	Testing Method: APHA (20th edition), 4500-OC & G
	5.63 mg/L	5.55 mg/L	
	6.63 mg/L	6.60 mg/L	
	7.81 mg/L	7.92 mg/L	
	Allowing Deviation	± 0.2 mg/L	


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong



CERTIFICATE OF ANALYSIS

CONTACT: MS CHERRY MAK
CLIENT: LAM GEOTECHNICS LIMITED
ADDRESS: 11/F., CENTRE POINT,
181-185 GLOUCESTER ROAD,
WAN CHAI, HONG KONG.

PROJECT NO.:

Batch: HK1019685
AMENDMENT NO: 1
LABORATORY: HONG KONG
DATE RECEIVED: 26/08/2010
DATE OF ISSUE: 12/10/2010
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

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Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

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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



Batch: HK1019685
Amendment No: 1
Date of Issue: 12/10/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Turbidimeter

Item : TURBIDIMETER Model No.: 2100P
ALS Lab ID: HK1019685-001 Equipment No.: 1010688-1
Date of Calibration: 27 August, 2010 Serial No.: 930300002705

Testing Results :

Turbidity

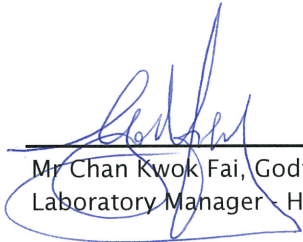
Expected Reading	Recording Reading
0.00 NTU	0.21 NTU
4.00 NTU	3.84 NTU
40.0 NTU	39.4 NTU
80.0 NTU	76.5 NTU
400 NTU	386 NTU
Allowing Deviation	± 10%

Testing Method:

APHA (19th edition), 2130B

ALS Technichem (HK) Pty Ltd

ALS Environmental


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong



CERTIFICATE OF ANALYSIS

CONTACT: MS CHERRY MAK
CLIENT: LAM GEOTECHNICS LIMITED
ADDRESS: 11/F., CENTRE POINT,
181-185 GLOUCESTER ROAD,
WAN CHAI, HONG KONG.

WORK ORDER: HK1026497
LABORATORY: HONG KONG
DATE RECEIVED: 10/11/2010
DATE OF ISSUE: 11/11/2010
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

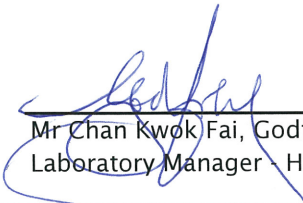
This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd
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1-3 Wing Yip Street
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HONG KONG

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


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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Lima

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



Batch: HK1026497
Date of Issue: 11/11/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Turbidimeter

Item : TURBIDIMETER
ALS Lab ID: HK1026497-001
Date of Calibration: 10 November, 2010
Model No.: 2100P
Equipment No.: EN06
Serial No.: 1000032935

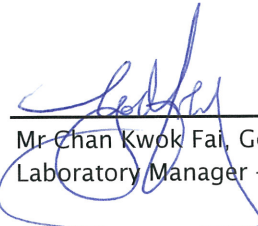
Testing Results :

Turbidity

Expected Reading	Recording Reading
0.00 NTU	0.20 NTU
4.00 NTU	3.82 NTU
40.0 NTU	38.2 NTU
80.0 NTU	78.5 NTU
400 NTU	373 NTU
Allowing Deviation	± 10%

Testing Method:

APHA (19th edition), 2130B


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong



CERTIFICATE OF ANALYSIS

CONTACT:	MS CHERRY MAK	Batch:	HK1019485
CLIENT:	LAM GEOTECHNICS LIMITED	LABORATORY:	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	DATE RECEIVED:	24/08/2010
PROJECT NO.:	HK/2009/05 WAN CHAI DEVELOPMENT PHASE II AND CENTRAL - WAN CHAI BYPASS	DATE OF ISSUE:	30/08/2010
		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

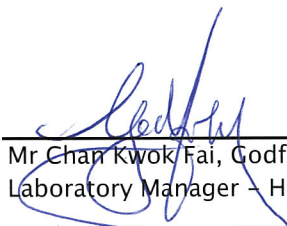
This is the Final Report and supersedes any preliminary report with this batch number. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

Other ALS Environmental Laboratories

AUSTRALIA		AMERICAS
Brisbane	Hong Kong	Vancouver
Melbourne	Singapore	Santiago
Sydney	Kuala Lumpur	Amtofagasta
Newcastle	Bogor	Lima

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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



Batch: HK1019485
Date of Issue: 30/08/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference: HK/2009/05 WAN CHAI DEVELOPMENT PHASE II AND CENTRAL - WAN CHAI BYPASS

Calibration of Turbidimeter

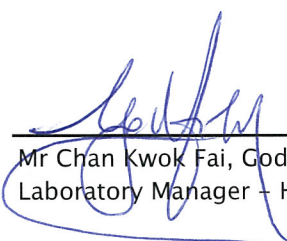
Item : TURBIDIMETER
ALS Lab ID: HK1019485 -001
Date of Calibration: 24 August, 2010
Model No.: 2100P
Equipment No.: 1010687-1, EL148
Serial No.: 931000003861

Testing Results :

Turbidity	Expected Reading	Recording Reading
	0.00 NTU	0.21NTU
	4.00 NTU	4.25 NTU
	40.0 NTU	43.1 NTU
	80.0 NTU	84.9 NTU
	400 NTU	404 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
CLIENT: LAM GEOTECHNICS LIMITED
ADDRESS: 11/F., CENTRE POINT,
181-185 GLOUCESTER ROAD,
WAN CHAI, HONG KONG.

WORK ORDER: HK1027605
LABORATORY: HONG KONG
DATE RECEIVED: 20/11/2010
DATE OF ISSUE: 24/11/2010
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

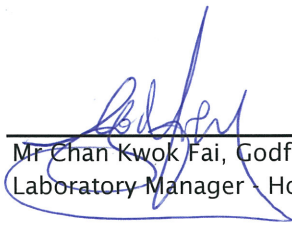
This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: HONG KONG

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Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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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

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ALS TECHNICHEM (HK) PTY LTD Part of the ALS Laboratory Group A Campbell Brothers Limited Company

CERTIFICATE OF ANALYSIS



Work Order: HK1027605
Date of Issue: 24/11/2010
Client: LAM GEOTECHNICS LIMITED
Client Reference:

Calibration of Turbidimeter

Item : TURBIDIMETER
ALS Lab ID: HK1027605-001
Date of Calibration: 22 November, 2010
Model No.: HACH 2100P
Equipment No.: EL148
Serial No.: 931000003861

Testing Results :

Turbidity

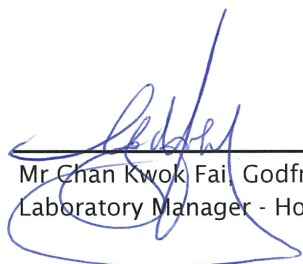
Expected Reading	Recording Reading
0.00 NTU	0.27 NTU
4.00 NTU	4.24 NTU
40.0 NTU	38.7 NTU
80.0 NTU	76.1 NTU
400 NTU	392 NTU
Allowing Deviation	± 10%

Testing Method:

APHA (19th edition), 2130B

ALS Technichem (HK) Pty Ltd

ALS Environmental


Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong



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 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	ORFICE
					DIFF Hg (mm)	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

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

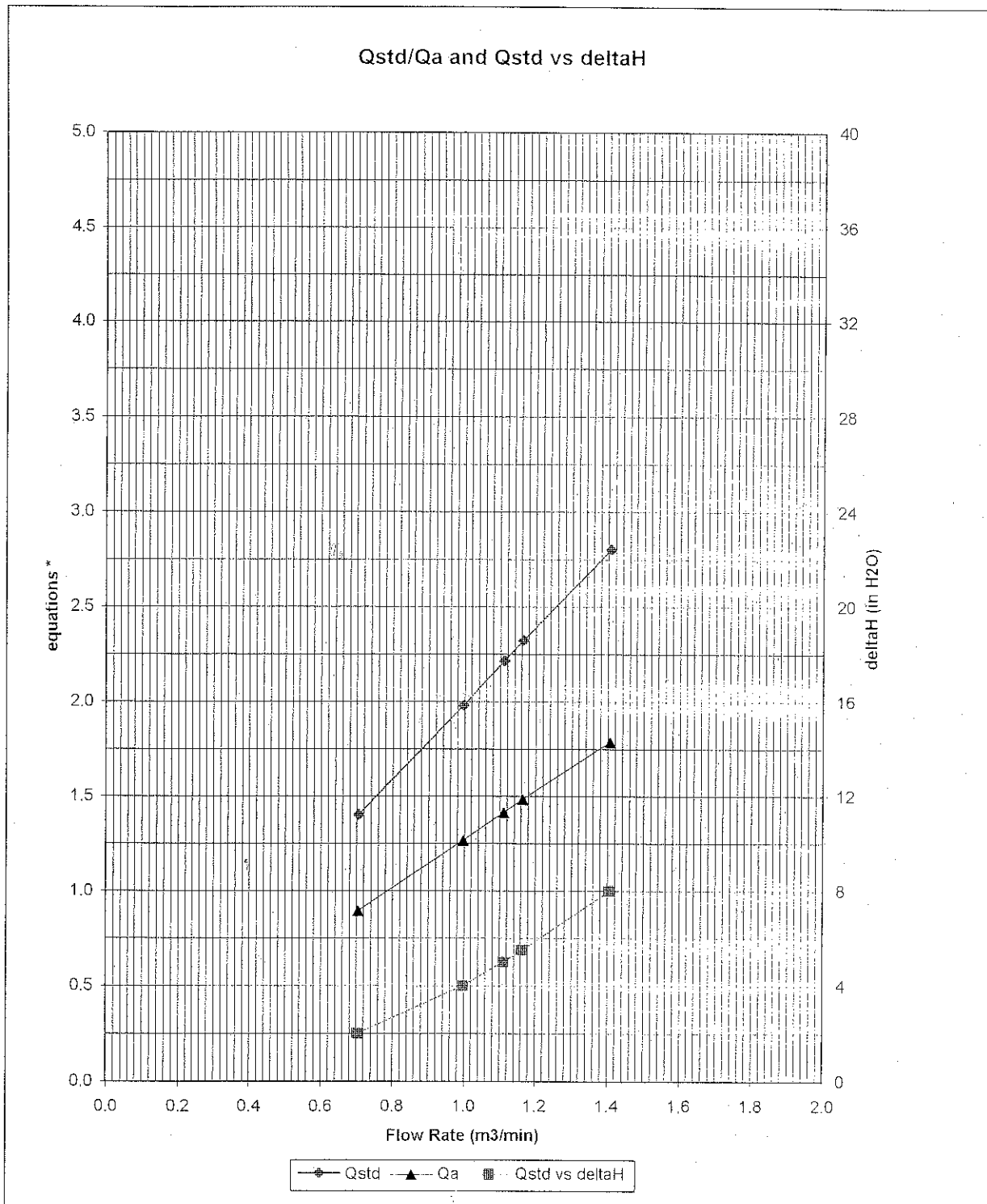
$$Qstd = 1/m \{ [\text{SQRT}(H2O(Pa/760)(298/Ta))] - b \}$$

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



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 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:
$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:
$$\sqrt{(\Delta H (T_a / P_a))}$$

#0005

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

Location : CMA1b
 Equipment no. : EL452

Calibration Date : 09-Oct-10
 Calibration Due Date : 09-Dec-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	303	Kelvin	Pressure, P_a
			1009 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086 (Serial no. 9833620)	Slope, m_c	1.99628	Intercept, b_c	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			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	6.4	6.4	12.8	1.8086	60	59.3765
2	5.1	5.1	10.2	1.6182	52	51.4596
3	4.0	4.0	8.0	1.4371	46	45.5220
4	2.4	2.4	4.8	1.1211	36	35.6259
5	1.5	1.5	3.0	0.8936	24	23.7506

By Linear Regression of Y on X

Slope, m = 37.3775 Intercept, b = -8.2748
 Correlation Coefficient* = 0.9958
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Derek Lo
 Date : 9-Oct-10

Checked by : Cherry Mak
 Date : 9-Oct-10

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

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 02-Sep-10
 Calibration Due Date : 02-Nov-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	305	Kelvin	Pressure, P_a
			1001 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086 (Serial no. 9833620)	Slope, m_c	1.99628	Intercept, b_c	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			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	6.1	6.1	12.2	1.7540	55	54.0342
2	5.0	5.0	10.0	1.5913	47	46.1747
3	4.0	4.0	8.0	1.4270	39	38.3152
4	2.4	2.4	4.8	1.1132	25	24.5610
5	1.5	1.5	3.0	0.8874	14	13.7542

By Linear Regression of Y on X

Slope, m = 46.1153 Intercept, b = -27.0989
 Correlation Coefficient* = 0.9998
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Derek Lo
 Date : 2-Sep-10

Checked by : Cherry Mak
 Date : 2-Sep-10

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

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 29-Oct-10
 Calibration Due Date : 29-Dec-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	305	Kelvin	Pressure, P _a
			1008 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086 (Serial no. 9833620)	Slope, m _c	1.99628	Intercept, b _c	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.55	6.55	13.1	1.8225	52	51.2652
2	5.2	5.2	10.4	1.6276	45	44.3641
3	3.95	3.95	7.9	1.4231	40	39.4348
4	2.5	2.5	5	1.1393	30	29.5761
5	1.5	1.5	3.0	0.8904	21	20.7033

By Linear Regression of Y on X

Slope, m = 32.3499 Intercept, b = -7.5929
 Correlation Coefficient* = 0.9984
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Derek Lo
 Date : 29-Oct-10

Checked by : Cherry Mak
 Date : 29-Oct-10

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

Location : CMA4a
 Equipment no. : EL390

Calibration Date : 20-Sep-10
 Calibration Due Date : 20-Nov-10

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	303	Kelvin	Pressure, P _a
			1005 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	1.99628	Intercept, b _c	-0.06990
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7631	55	54.3205
2	4.9	4.9	9.8	1.5838	48	47.4070
3	3.8	3.8	7.6	1.3989	41	40.4934
4	2.5	2.5	5.0	1.1413	33	32.5923
5	1.5	1.5	3.0	0.8919	24	23.7035

By Linear Regression of Y on X

Slope, m = 34.7073 Intercept, b = -7.3531
 Correlation Coefficient* = 0.9992
 Calibration Accepted = Yes/No**

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

** Delete as appropriate.

Remarks : _____

Calibrated by : Derek Lo
 Date : 20-Sep-10

Checked by : Cherry Mak
 Date : 20-Sep-10



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)

Environmental Monitoring Schedule
November 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				28-Oct	29-Oct	30-Oct
				Impact WQM Mid-ebb: 2:27	Impact WQM Mid-flood: 20:20	Impact WQM Mid-ebb: 4:24
31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov
	24hr TSP Impact WQM Mid-ebb: 7:39 Mid-flood: 14:47	1hr TSP x 3	Impact WQM Mid-ebb: 9:43 Mid-flood: 16:02	Noise (Day time) Noise (Restricted hr) 1900-2000	Impact WQM Mid-ebb: 11:26 Mid-flood: 17:11	24hr TSP
7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov
Impact WQM Mid-flood: 7:19 Mid-ebb: 13:00	1hr TSP x 3	Impact WQM Mid-flood: 9:04	Noise (Day time) Noise (Restricted hr) 1900-2000 Impact WQM Mid-ebb: 2:32	Noise (Restricted hr)1900-2000	24hr TSP Impact WQM Mid-ebb: 4:06 Mid-flood: 16:25	1hr TSP x 3
14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov
	Impact WQM Mid-ebb: 6:52 Mid-flood: 14:42	Noise (Day time) Noise (Restricted hr) 1900-2000	Impact WQM Mid-ebb: 8:55 Mid-flood: 15:38	24hr TSP	1hr TSP x 3 Impact WQM Mid-flood: 16:19 Mid-ebb: 23:10	
21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov
Impact WQM Mid-flood: 17:06	Impact WQM Mid-ebb: 0:04	Noise (Day time) Noise (Restricted hr) 1900-2000 Impact WQM Mid-flood: 17:43	24hr TSP Impact WQM Mid-ebb: 0:58	1hr TSP x 3	Impact WQM Mid-flood: 10:19	Impact WQM Mid-ebb: 3:09

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
December 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec	4-Dec
	Impact WQM Mid-ebb: 5:39 Mid-flood: 13:04	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2000	1hr TSP x 3 Impact WQM Mid-ebb: 8:16 Mid-flood: 14:37		Impact WQM Mid-flood: 15:57 Mid-ebb: 22:46	
5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec
Impact WQM Mid-flood:17:12	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2000 Impact WQM Mid-ebb: 0:10	1hr TSP x 3	Impact WQM Mid-flood: 8:58	Impact WQM Mid-ebb: 2:13		24hr TSP Impact WQM Mid-ebb: 3:19 Mid-flood: 11:06
12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec
	1hr TSP x 3 Impact WQM Mid-ebb: 4:20 Mid-flood: 12:35	Noise (Day time) Noise (Restricted hr) 1900-2000		Impact WQM Mid-flood: 14:17 Mid-ebb: 21:47	24hr TSP	1hr TSP x 3 Impact WQM Mid-flood: 15:15 Mid-ebb: 22:42
19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec
	Impact WQM Mid-flood: 16:27 Mid-ebb: 23:49	Noise (Day time) Noise (Restricted hr) 1900-2000	Impact WQM Mid-flood: 17:54	24hr TSP Impact WQM Mid-ebb: 1:13	1hr TSP x 3	Impact WQM Mid-ebb: 2:45 Mid-flood: 9:52
26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan
		Impact WQM Mid-flood: 12:09 Mid-ebb: 18:19	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2000	1hr TSP x 3 Impact WQM Mid-flood: 13:43 Mid-ebb: 20:58		Impact WQM Mid-flood: 15:20 Mid-ebb: 22:45

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
January 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Dec	27-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan
		Impact WQM Mid-flood: 12:09 Mid-ebb: 18:19	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2000	1hr TSP x 3 Impact WQM Mid-flood: 13:43 Mid-ebb: 20:58		Impact WQM Mid-flood: 15:20 Mid-ebb: 22:45
2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan
	Impact WQM Mid-flood: 16:53	24hr TSP Noise (Day time) Noise (Restricted hr) 1900-2000 Impact WQM Mid-ebb: 00:06	1hr TSP x 3 Impact WQM Mid-flood: 18:17	Impact WQM Mid-ebb: 01:20		Impact WQM Mid-ebb: 2:22 Mid-flood: 9:37
9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
	24hr TSP Impact WQM Mid-flood: 10:38	1hr TSP x 3 Impact WQM Mid-ebb: 03:35	Noise (Day time) Noise (Restricted hr) 1900-2000	Impact WQM Mid-flood: 12:09 Mid-ebb: 19:38		24hr TSP Impact WQM Mid-flood: 13:11 Mid-ebb: 21:43
16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan
	1hr TSP x 3 Impact WQM Mid-flood: 15:11 Mid-ebb: 22:57	Noise (Day time) Noise (Restricted hr) 1900-2000	Impact WQM Mid-flood: 17:08	Impact WQM Mid-ebb: 00:22	24hr TSP	1hr TSP x 3 Impact WQM Mid-flood: 8:33 Mid-ebb: 14:09
23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan
		Noise (Day time) Noise (Restricted hr) 1900-2000		24hr TSP	1hr TSP x 3	

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, 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 on 12 May 2010, To be reported in Monthly report when filling work was commenced)
 - Contract HK/2009/02: (Commenced on 30 Mar 2010, To be reported in Monthly report when filling work was commenced)
 - 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 (To be commenced when the power supply is available)

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)
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 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)								
04/11/10	10:13	Cloudy	72.8	75.3	68.5	69.2	70	75
10/11/10	10:30	Fine	73.0	75.7	67.6	69.2	71	75
16/11/10	13:14	Fine	73.1	76.3	67.2	69.2	71	75
23/11/10	10:19	Fine	72.6	75.8	67.3	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)								
10/11/10	13:00	Sunny	71.4	73.0	69.5	-	71	75
16/11/10	14:06	Fine	68.5	70.0	65.8	-	69	76
23/11/10	11:05	Fine	69.3	70.3	66.4	-	69	77

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)								
10/11/10	13:00	Sunny	66.2	68.0	64.1	-	66	75
16/11/10	14:57	Fine	66.6	68.5	64.2	-	67	75
23/11/10	13:00	Sunny	66.7	68.6	64.3	-	67	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30min)								
04/11/10	13:30	Cloudy	73.2	75.2	69.3	-	73	75
10/11/10	13:45	Fine	71.3	72.6	68.9	-	71	75
16/11/10	14:07	Fine	69.6	71.1	67.8	-	70	75
23/11/10	13:46	Fine	70.3	71.8	67.9	-	70	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)								
04/11/10	15:19	Cloudy	66.6	68.4	63.6	-	67	75
10/11/10	16:00	Fine	77.9	81.6	67.9	-	78	75
16/11/10	15:55	Fine	80.2	85.1	64.5	-	80	75
23/11/10	15:15	Fine	71.7	72.6	66.7	-	72	75



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)									
04/11/10	21:16	Cloudy	66.4	68.0	64.7	66.8	-	67	70
	21:21		67.4	69.3	65.0				
	21:26		66.7	68.2	64.7				
10/11/10	20:28	Fine	67.7	69.2	65.4	67.4	-	67	70
	20:33		67.3	68.9	65.3				
	20:38		67.1	68.9	64.9				
16/11/10	20:17	Fine	67.2	68.9	64.9	66.9	-	67	70
	20:22		66.4	67.6	64.5				
	20:27		67.1	69.2	64.2				
23/11/10	19:37	Fine	67.8	69.0	66.2	67.9	-	68	70
	19:42		68.0	69.6	65.6				
	19:47		67.9	69.5	66.0				

Location: M5b - City Garden

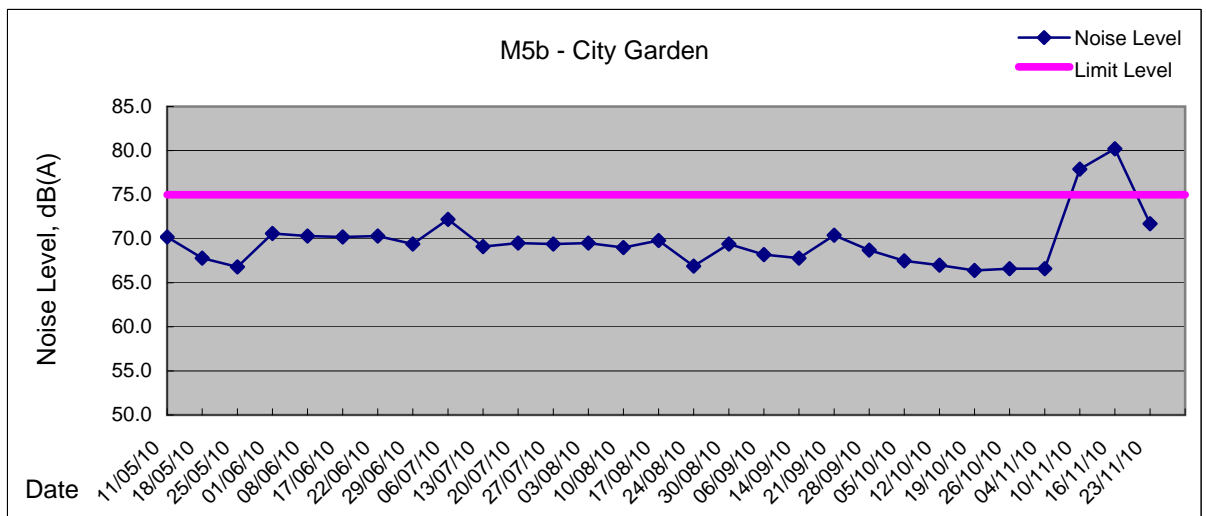
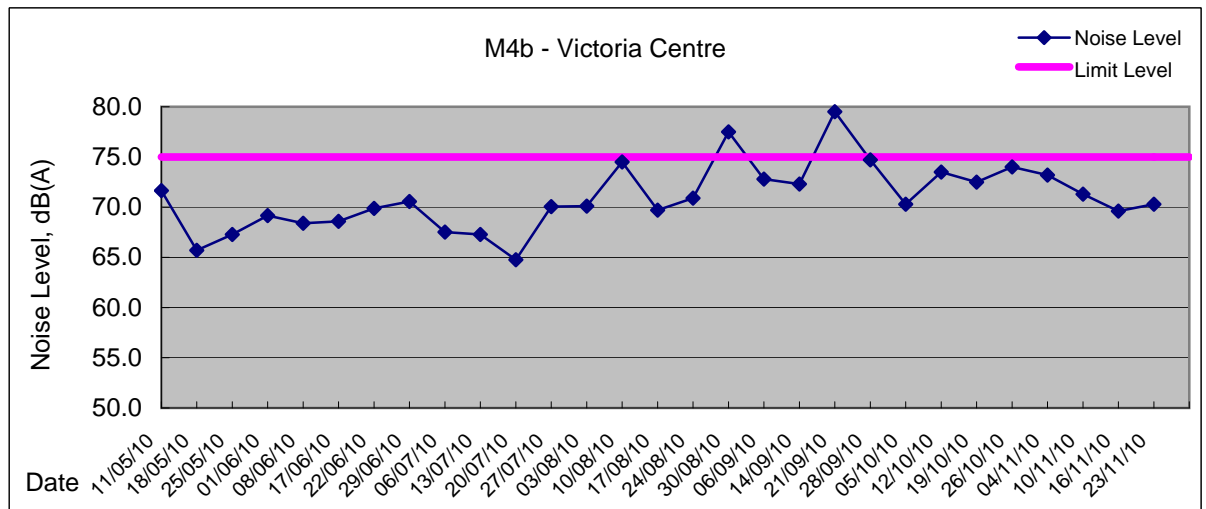
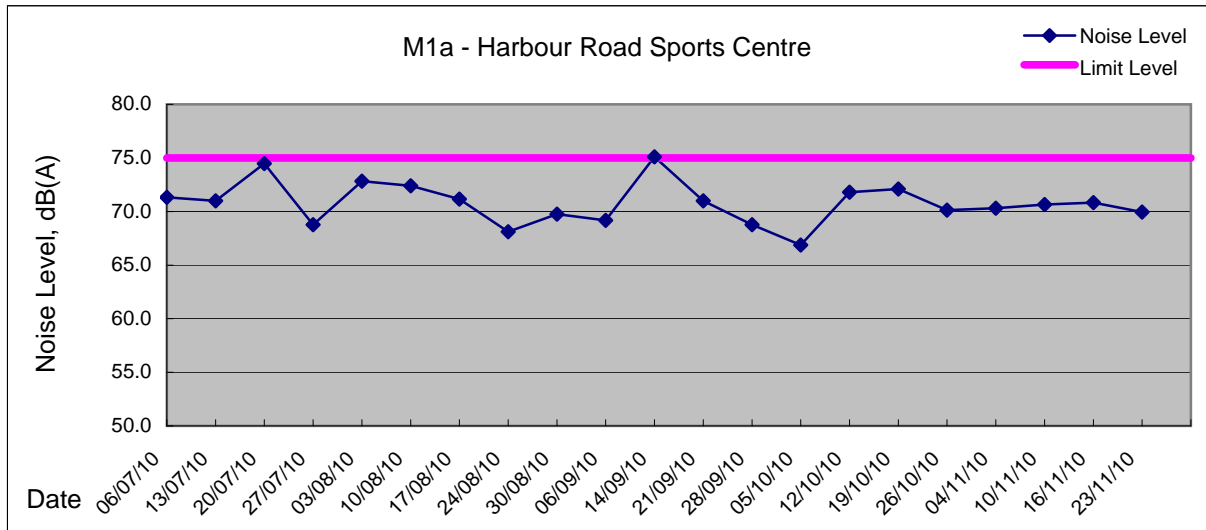
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
04/11/10	22:04	Cloudy	70.4	71.4	68.9	70.3	-	70	70
	22:09		70.2	71.5	66.9				
	22:14		70.2	71.5	67.1				
10/11/10	20:58	Fine	69.4	70.5	67.7	69.0	-	69	70
	21:03		68.8	69.8	67.1				
	21:08		68.8	69.5	67.3				
16/11/10	20:50	Fine	63.5	65.1	60.9	63.5	-	63	70
	20:55		63.1	64.9	60.8				
	21:00		63.8	65.3	61.0				
23/11/10	19:00	Fine	65.1	66.7	62.9	65.6	-	66	70
	19:05		65.2	66.5	63.3				
	19:10		66.6	68.2	64.3				

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)									
04/11/10	20:04	Cloudy	72.7	75.1	68.8	73.4	60.1	73	70
	20:09		74.1	76.8	69.3				
	20:14		73.4	75.8	68.6				
10/11/10	19:10	Fine	73.6	76.3	69.6	73.2	60.1	73	70
	19:15		72.8	75.5	68.5				
	19:20		73.1	75.4	69.4				
11/11/10	21:44	Fine	69.2	72.5	62.4	69.3	60.1	69	70
	21:49		69.4	72.3	63.6				
	21:54		69.3	71.9	64.0				
16/11/10	19:04	Fine	71.6	74.8	67.5	71.7	60.1	72	70
	19:09		72.0	73.8	68.3				
	19:14		71.6	73.8	68.5				
23/11/10	21:10	Fine	68.7	71.6	63.6	69.6	60.1	70	70
	21:15		70.2	73.6	64.3				
	21:20		69.9	72.9	63.3				

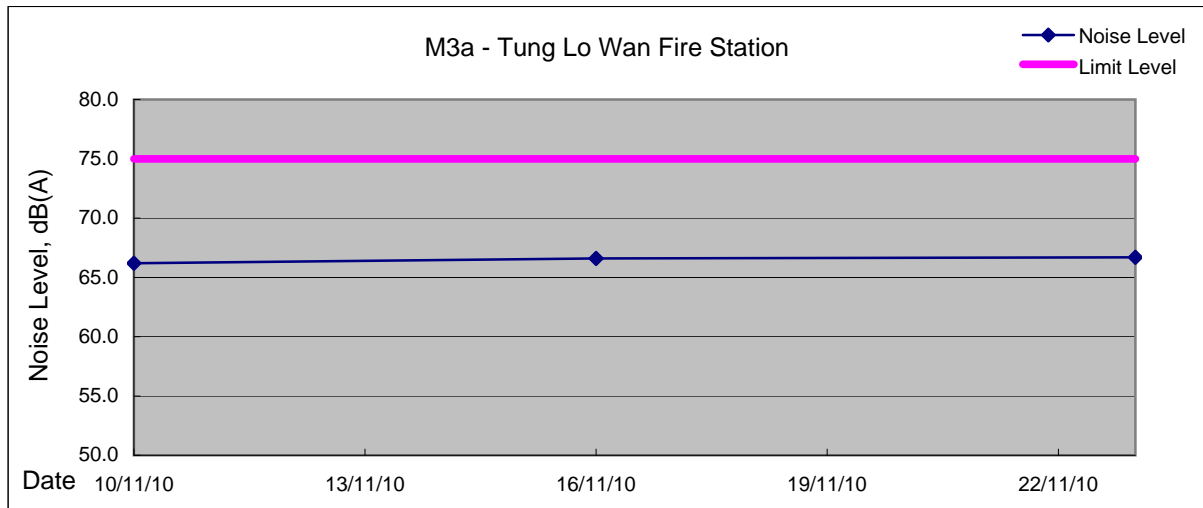
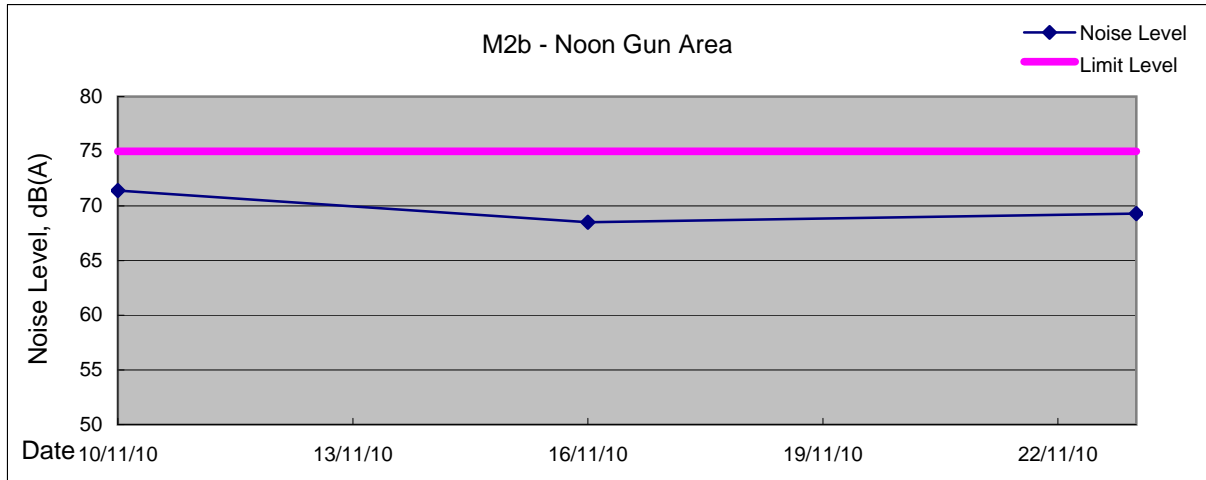


Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





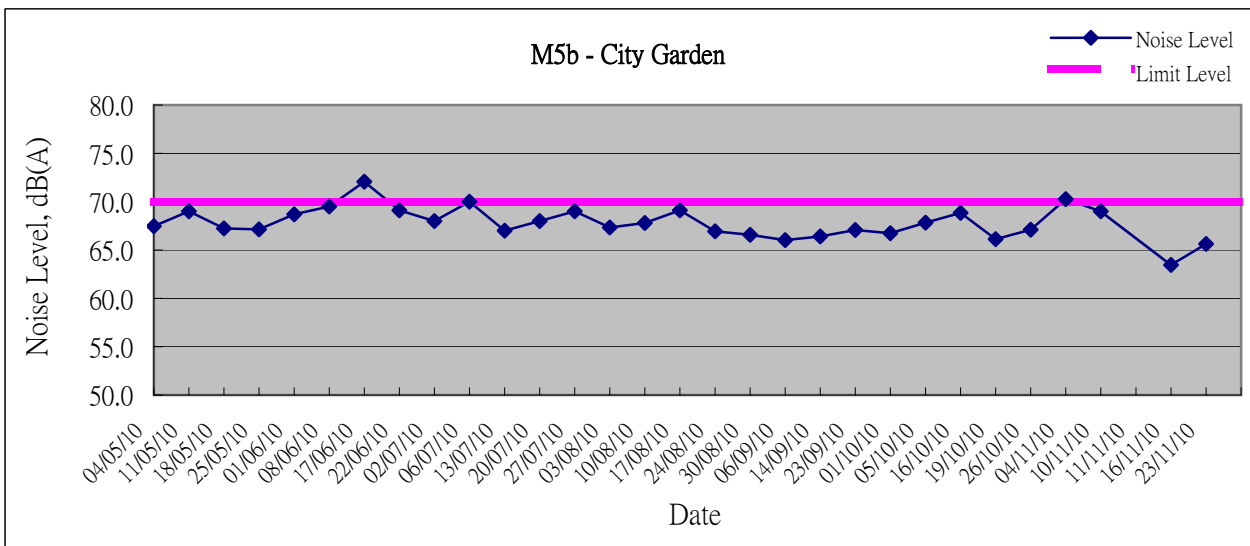
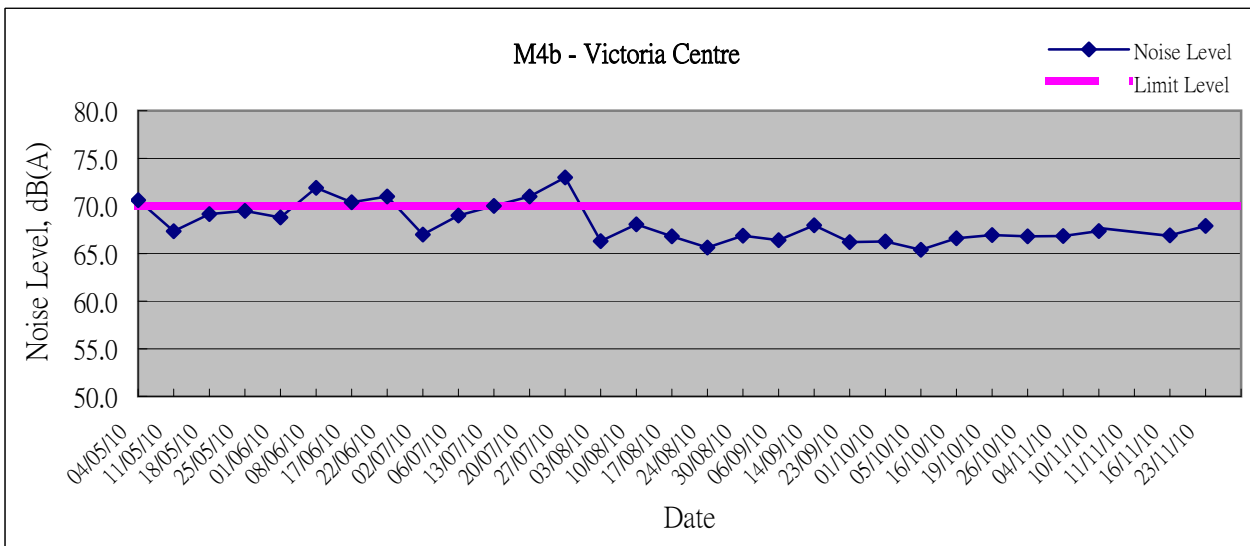
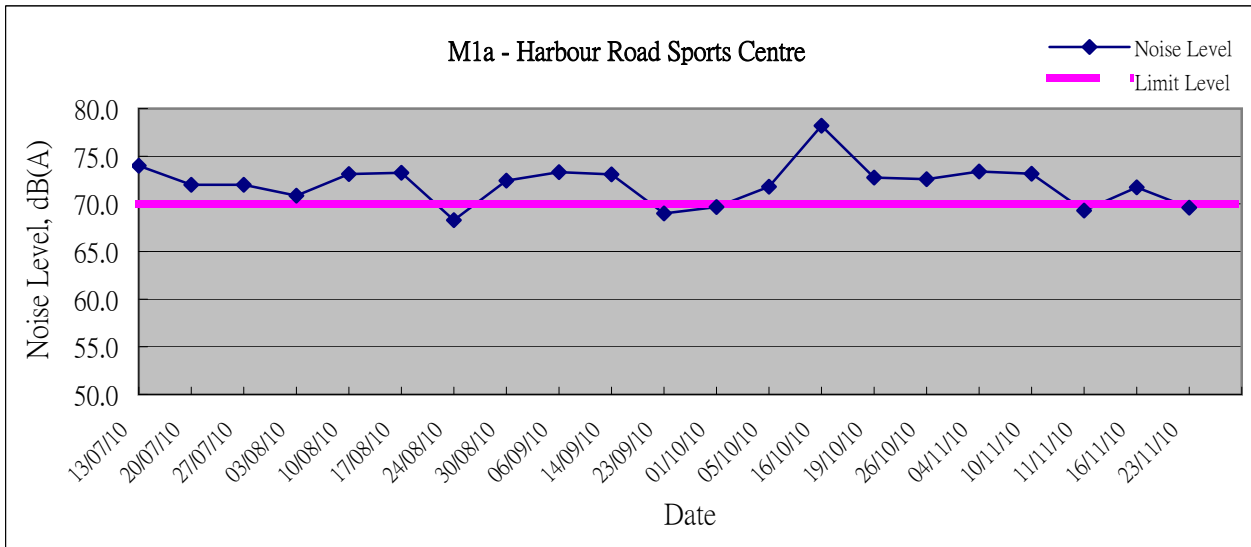
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

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





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 ($\mu\text{g}/\text{m}^3$) - 176.7
Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-10	8:00	Fine	201359	2.7743	3.0060	8746.25	8770.24	23.99	1.11	1.11	1.11	1591	146
6-Nov-10	8:00	Cloudy	201629	2.7898	2.9008	8773.24	8797.23	23.99	1.11	1.11	1.11	1591	70
12-Nov-10	8:00	Sunny	201641	2.8043	3.0127	8800.23	8824.23	24.00	1.17	1.08	1.12	1615	129
18-Nov-10	8:00	Sunny	201661	2.7856	2.9830	8827.24	8851.24	24.00	1.13	1.13	1.13	1620	122
24-Nov-10	8:00	Fine	201689	2.7978	3.0664	8854.25	8878.25	24.00	1.31	1.31	1.31	1882	143

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 320.1
Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Nov-10	8:16	Fine	201174	2.7939	2.8053	8770.24	8771.24	1.00	1.11	1.11	1.11	66	172
2-Nov-10	9:44	Fine	201620	2.7865	2.8055	8771.24	8772.24	1.00	1.11	1.11	1.11	66	286
2-Nov-10	13:00	Fine	201621	2.7858	2.8005	8772.24	8773.24	1.00	1.11	1.11	1.11	66	222
8-Nov-10	9:15	Sunny	201634	2.8088	2.8179	8797.23	8798.23	1.00	1.13	1.10	1.11	67	136
8-Nov-10	10:25	Sunny	201646	2.7956	2.8047	8798.23	8799.23	1.00	1.12	1.10	1.11	67	137
8-Nov-10	13:00	Sunny	201652	2.8040	2.8118	8799.23	8800.23	1.00	1.15	1.04	1.10	66	119
13-Nov-10	9:50	Fine	201648	2.8068	2.8139	8824.23	8825.23	1.00	1.21	1.10	1.16	69	102
13-Nov-10	10:58	Fine	201644	2.8030	2.8116	8825.23	8826.23	1.00	1.03	1.03	1.03	62	139
13-Nov-10	13:00	Fine	201635	2.8057	2.8137	8826.23	8827.23	1.00	1.12	1.08	1.10	66	121
19-Nov-10	8:10	Sunny	201687	2.7901	2.7986	8851.24	8852.24	1.00	1.15	1.10	1.13	68	126
19-Nov-10	9:40	Sunny	201688	2.7867	2.7976	8852.24	8853.24	1.00	1.15	1.10	1.13	68	161
19-Nov-10	10:47	Sunny	201726	2.8100	2.8195	8853.24	8854.24	1.00	1.18	1.10	1.14	68	139
25-Nov-10	8:05	Fine	201694	2.7928	2.8137	8878.25	8879.25	1.00	1.18	1.18	1.18	71	295
25-Nov-10	9:20	Fine	201693	2.7926	2.8082	8879.25	8880.25	1.00	1.18	1.18	1.18	71	220
25-Nov-10	13:00	Fine	201714	2.7986	2.8084	8880.25	8881.25	1.00	1.15	1.15	1.15	69	141



Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 169.5
Limit Level ($\mu\text{g}/\text{m}^3$) - 260

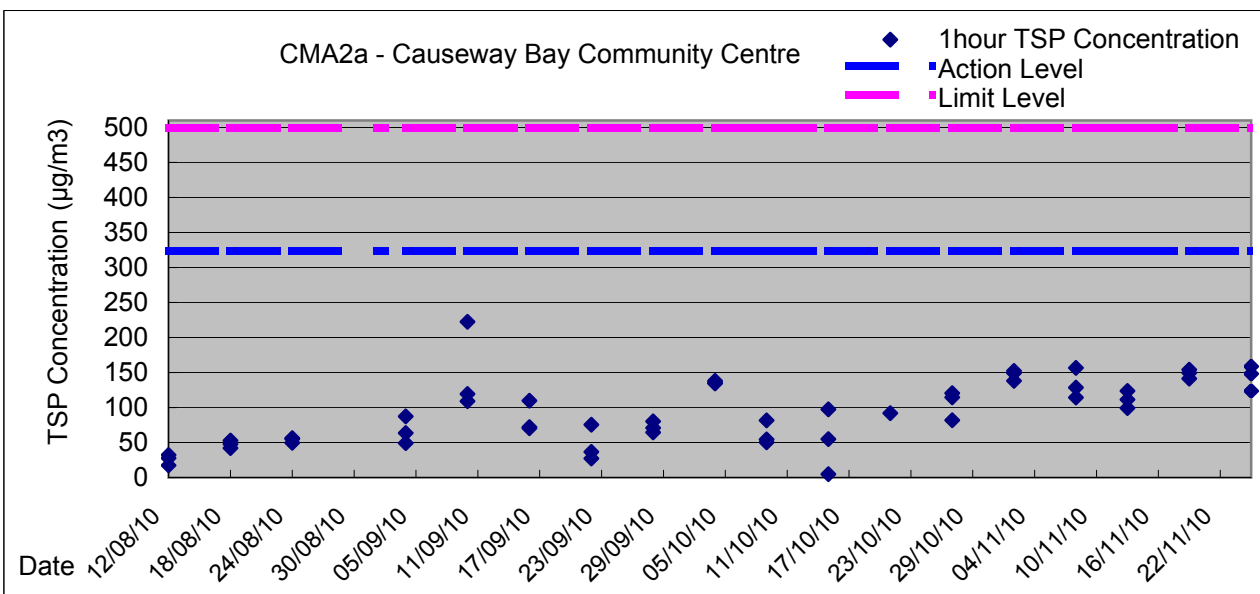
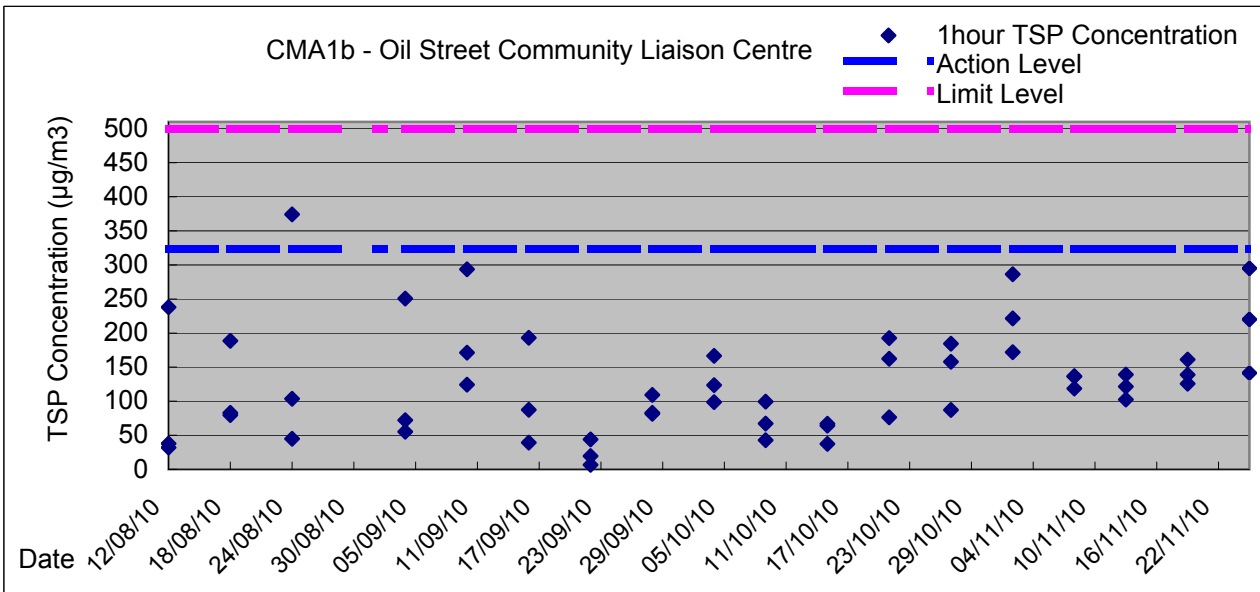
Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Nov-10	8:00	Fine	201360	2.7981	3.0456	12829.99	12854.07	24.08	1.47	1.47	1.47	2119	117
6-Nov-10	8:00	Cloudy	201670	2.7967	2.9359	12857.08	12881.07	23.99	1.47	1.43	1.45	2087	67
12-Nov-10	8:00	Sunny	201642	2.7997	2.9993	12884.07	12908.07	24.00	1.44	1.44	1.44	2080	96
18-Nov-10	8:00	Sunny	201660	2.7890	3.0068	12911.08	12935.08	24.00	1.45	1.45	1.45	2086	104
24-Nov-10	8:00	Fine	201692	2.7941	3.0112	12938.08	12962.08	24.00	1.47	1.47	1.47	2117	103

Report on 1-hour TSP monitoring

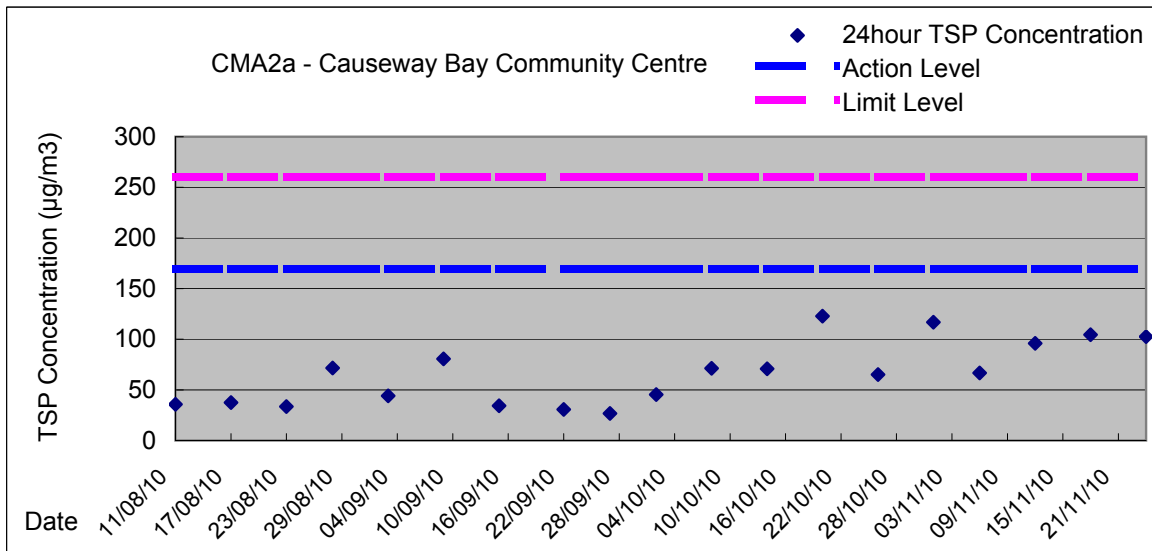
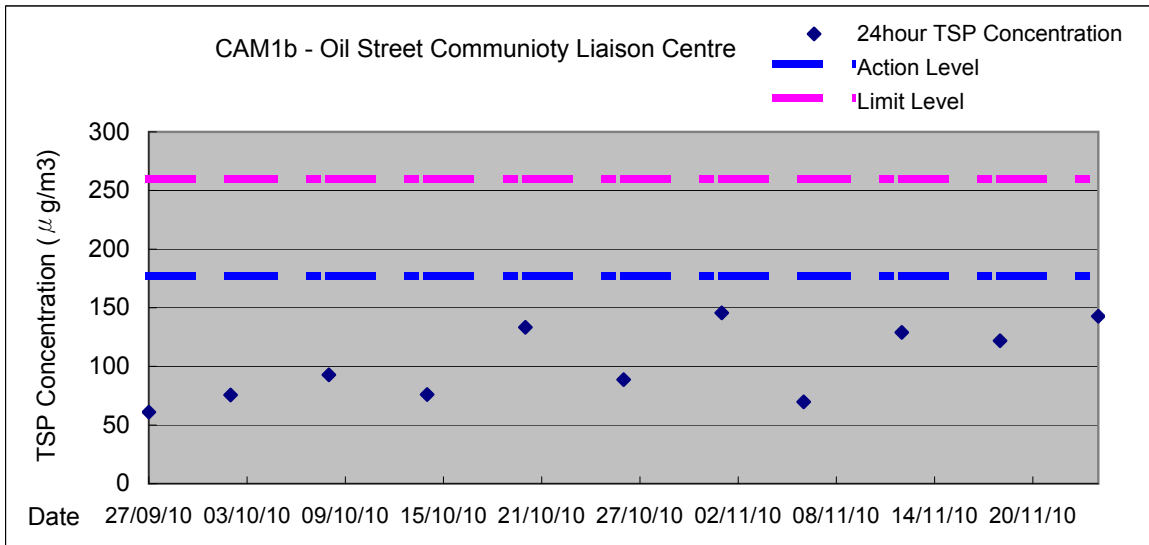
Action Level ($\mu\text{g}/\text{m}^3$) - 323.4
Limit Level ($\mu\text{g}/\text{m}^3$) - 500

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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
2-Nov-10	8:31	Fine	201175	2.7959	2.8083	12854.07	12855.07	1.00	1.50	1.50	1.50	90	138
2-Nov-10	9:34	Fine	201619	2.7861	2.7995	12855.07	12856.07	1.00	1.50	1.50	1.50	90	149
2-Nov-10	13:00	Fine	201628	2.7997	2.8135	12856.07	12857.08	1.01	1.50	1.50	1.50	91	152
8-Nov-10	9:30	Sunny	201649	2.8012	2.8110	12881.07	12882.07	1.00	1.43	1.43	1.43	86	114
8-Nov-10	10:39	Sunny	201645	2.7878	2.8012	12882.07	12883.07	1.00	1.43	1.43	1.43	86	157
8-Nov-10	13:00	Sunny	201653	2.8018	2.8130	12883.07	12884.07	1.00	1.45	1.45	1.45	87	129
13-Nov-10	9:38	Sunny	201647	2.7981	2.8067	12908.07	12909.07	1.00	1.44	1.44	1.44	87	99
13-Nov-10	10:42	Sunny	201643	2.8002	2.8097	12909.07	12910.07	1.00	1.42	1.42	1.42	85	111
13-Nov-10	13:05	Sunny	201636	2.7980	2.8087	12910.07	12911.07	1.00	1.44	1.44	1.44	87	124
19-Nov-10	8:25	Sunny	201690	2.7951	2.8072	12935.08	12936.08	1.00	1.43	1.43	1.43	86	141
19-Nov-10	9:30	Sunny	201691	2.7978	2.8106	12936.08	12937.08	1.00	1.43	1.43	1.43	86	149
19-Nov-10	10:35	Sunny	201727	2.8013	2.8147	12937.08	12938.08	1.00	1.45	1.45	1.45	87	154
25-Nov-10	8:15	Fine	201739	2.8225	2.8352	12962.08	12963.08	1.00	1.43	1.43	1.43	86	148
25-Nov-10	9:25	Fine	201740	2.8123	2.8263	12963.08	12964.08	1.00	1.47	1.47	1.47	88	159
25-Nov-10	13:00	Fine	201713	2.8018	2.8127	12964.08	12965.08	1.00	1.47	1.47	1.47	88	124

Graphic Presentation of 1 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	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity			Suspended Solids				
					°C			-			ppt		%		mg/L		NTU			mg/L				
			m		Value	Average		Value	Average		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
29/10/2010	19:21	Fine	Middle	2.5	19.50	19.50	19.50	8.33	8.33	8.33	30.98	30.98	30.99	72.8	73.8	73.3	5.57	5.64	5.63	5.38	5.44	5.23	11	10.50
	19:28		Middle	2.5	19.49	19.49		8.33	8.33		31.00	31.00		72.4	74.2		5.64	5.67		5.03	5.06		10	
1/11/2010	16:25	Sunny	Middle	2.0	23.90	23.90	23.85	8.31	8.31	8.31	31.98	31.98	31.99	83.3	81.5	82.9	5.84	5.72	5.82	3.98	3.76	3.86	11	8.50
	16:28		Middle	2.0	23.80	23.80		8.30	8.30		31.99	31.99		83.9	83.0		5.89	5.84		3.89	3.80		6	
3/11/2010	15:10	Sunny	Middle	2.5	23.20	23.20	23.25	8.27	8.27	8.28	32.08	32.08	32.10	79.6	78.5	79.9	5.64	5.57	5.67	5.64	5.31	5.32	6	5.50
	15:14		Middle	2.5	23.30	23.30		8.28	8.28		32.12	32.12		81.0	80.5		5.74	5.71		5.21	5.12		5	
5/11/2010	16:34	Cloudy	Middle	2.5	20.24	20.24	20.23	8.49	8.49	8.49	31.52	31.52	31.51	58.6	52.6	53.6	4.40	3.96	4.03	4.21	4.26	4.06	7	6.50
	16:41		Middle	2.5	20.22	20.22		8.49	8.49		31.49	31.49		52.6	50.7		3.96	3.81		3.83	3.93		6	
7/11/2010	7:06	Sunny	Middle	3.0	23.80	23.74	23.75	8.38	8.38	8.38	31.99	31.99	31.99	65.4	68.2	65.5	4.61	4.81	4.62	3.36	2.90	3.00	7	6.00
	7:11		Middle	3.0	23.72	23.72		8.38	8.38		31.99	31.99		63.9	64.6		4.51	4.53		2.77	2.96		5	
9/11/2010	8:45	Sunny	Middle	2.5	23.50	23.50	23.55	8.07	8.07	8.10	31.97	31.97	31.99	78.6	77.6	78.4	5.55	5.48	5.54	4.51	4.54	4.40	9	8.50
	8:48		Middle	2.5	23.60	23.60		8.12	8.12		32.01	32.01		79.5	77.9		5.62	5.50		4.22	4.34		8	
12/11/2010	18:50	Sunny	Middle	2.5	22.33	22.33	22.43	8.25	8.25	8.20	31.97	31.97	31.96	85.9	84.8	83.5	6.19	6.09	6.01	2.41	2.21	2.36	4	5.00
	18:53		Middle	2.5	22.53	22.53		8.15	8.15		31.95	31.95		82.0	81.1		5.91	5.84		2.37	2.45		6	
15/11/2010	15:05	Sunny	Middle	2.5	23.66	23.66	23.69	7.77	7.77	7.77	31.89	31.90	31.90	85.5	84.8	84.9	6.02	5.97	5.98	2.77	2.84	2.68	9	8.50
	15:08		Middle	2.5	23.71	23.71		7.76	7.76		31.90	31.92		85.1	84.2		5.99	5.93		2.52	2.58		8	
17/11/2010	14:28	Fine	Middle	2.5	23.03	23.03	23.05	8.21	8.21	8.19	31.83	31.83	31.84	94.6	92.2	93.5	6.75	6.57	6.67	2.60	2.88	2.65	5	5.50
	14:31		Middle	2.5	23.07	23.07		8.17	8.17		31.84	31.84		93.4	93.7		6.66	6.68		2.63	2.49		6	
19/11/2010	16:41	Sunny	Middle	2.0	25.31	25.31	25.32	8.04	8.04	8.04	31.07	31.07	31.07	85.9	85.5	86.0	5.92	5.89	5.89	3.02	2.83	2.91	3	3.00
	16:47		Middle	2.0	25.33	25.33		8.04	8.04		31.07	31.07		85.8	86.8		5.91	5.83		3.00	2.78		3	
21/11/2010	16:50	Fine	Middle	3.0	24.13	24.13	24.16	7.93	7.93	7.92	31.93	31.93	31.92	68.4	69.1	68.7	4.79	4.84	4.81	3.30	3.08	3.38	5	4.50
	16:57		Middle	3.0	24.19	24.19		7.91	7.91		31.90	31.90		68.6	68.7		4.80	4.80		3.47	3.68		4	
23/11/2010	17:35	Fine	Middle	2.5	23.04	23.07	23.06	8.00	8.00	8.00	30.71	30.71	30.71	55.0	54.6	54.9	3.94	3.92	3.93	2.53	2.27	2.45	5	5.00
	17:42		Middle	2.5	23.07	23.07		8.00	8.00		30.71	30.71		53.9	56.2		3.86	3.98		2.54	2.46		5	
26/11/2010	9:03	Fine	Middle	2.5	21.70	21.80	21.83	8.30	8.30	8.30	32.15	32.15	32.15	92.4	91.9	92.3	6.72	6.68	6.71	4.60	3.80	4.00	6	7.00
	9:06		Middle	2.5	21.90	21.90		8.29	8.29		32.15	32.15		92.8	92.0		6.74	6.68		3.75	3.85		8	



**Water Monitoring Result at WSD10 - Cha Kwo Ling
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity			Suspended Solids				
					°C			-			ppt		%		mg/L		NTU			mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	18:52	Fine	Middle	2.5	20.15	20.15	20.14	8.40	8.40	8.40	31.51	31.51	31.53	74.8	71.5	73.8	5.63	5.38	5.53	4.78	5.01	4.82	9	9.50
	18:59		Middle	2.5	20.12	20.12		8.40	8.40		31.54	31.54		74.8	73.9		5.63	5.49		4.58	4.91		10	
1/11/2010	17:02	Sunny	Middle	2.5	23.70	23.70	23.70	8.33	8.33	8.33	32.24	32.24	32.24	86.9	86.1	86.8	6.11	6.06	6.11	4.13	4.12	4.17	7	6.50
	17:03		Middle	2.5	23.70	23.70		8.33	8.33		32.24	32.24		87.4	86.8		6.15	6.11		4.23	4.18		6	
3/11/2010	16:10	Sunny	Middle	2.5	23.90	23.90	23.95	8.31	8.31	8.32	32.29	32.29	32.29	86.8	85.5	85.8	6.08	5.99	6.01	4.13	4.18	4.17	6	6.00
	16:14		Middle	2.5	24.00	24.00		8.32	8.32		32.29	32.29		86.4	84.6		6.05	5.92		4.27	4.08		6	
5/11/2010	16:03	Cloudy	Middle	3.0	19.87	19.87	19.85	8.55	8.55	8.55	31.77	31.77	31.79	55.5	51.8	53.7	4.19	3.91	4.06	5.11	5.13	5.27	9	10.00
	16:12		Middle	3.0	19.83	19.83		8.55	8.55		31.81	31.81		56.4	51.0		4.27	3.86		5.14	5.70		11	
7/11/2010	6:08	Sunny	Middle	3.0	24.03	24.03	24.03	8.36	8.36	8.36	31.66	31.66	31.67	61.7	65.9	62.1	4.34	4.62	4.36	3.05	3.26	3.10	5	6.00
	6:15		Middle	3.0	24.03	24.02		8.36	8.36		31.67	31.67		61.2	59.6		4.29	4.18		3.04	3.03		7	
9/11/2010	9:20	Sunny	Middle	2.5	23.50	23.50	23.50	8.14	8.14	8.15	32.09	32.09	32.11	78.8	77.6	78.5	5.57	5.48	5.55	5.82	5.53	5.21	10	9.00
	9:23		Middle	2.5	23.50	23.50		8.16	8.16		32.13	32.13		79.4	78.2		5.61	5.52		4.63	4.85		8	
12/11/2010	19:20	Sunny	Middle	2.5	22.48	22.48	22.47	8.15	8.15	8.15	31.91	31.91	31.92	73.5	73.0	72.8	5.30	5.26	5.25	4.99	5.09	5.41	8	8.00
	19:24		Middle	2.5	22.46	22.46		8.14	8.14		31.93	31.93		72.7	72.0		5.24	5.18		5.80	5.77		8	
15/11/2010	15:27	Sunny	Middle	3.0	23.67	23.67	23.71	7.79	7.79	7.79	31.94	31.94	31.95	84.7	84.0	84.0	6.03	5.98	5.98	1.94	2.52	2.34	5	6.00
	15:30		Middle	3.0	23.74	23.74		7.78	7.78		31.95	31.95		84.1	83.2		5.98	5.92		2.24	2.66		7	
17/11/2010	14:55	Fine	Middle	2.5	22.57	22.57	22.58	8.13	8.13	8.13	31.95	31.95	31.95	94.5	91.9	93.2	6.79	6.61	6.70	4.05	3.78	3.72	12	11.00
	14:58		Middle	2.5	22.58	22.58		8.12	8.12		31.94	31.94		94.1	92.2		6.76	6.63		3.57	3.48		10	
19/11/2010	15:00	Sunny	Middle	2.5	24.81	24.81	24.87	7.79	7.79	7.79	31.33	31.33	31.34	96.5	97.4	96.6	6.68	6.74	6.68	2.96	3.03	2.88	3	2.50
	15:07		Middle	2.5	24.88	24.98		7.79	7.79		31.35	31.35		95.8	96.7		6.70	6.59		2.73	2.81		2	
21/11/2010	16:00	Fine	Middle	3.0	24.92	24.92	24.93	8.08	8.08	8.08	32.08	32.08	32.08	72.6	72.2	71.4	5.00	4.98	4.92	2.87	2.74	2.62	3	3.50
	16:05		Middle	3.0	24.93	24.93		8.08	8.08		32.08	32.07		71.9	68.9		4.96	4.75		2.78	2.10		4	
23/11/2010	16:40	Fine	Middle	2.5	23.27	23.48	23.43	8.01	8.01	8.01	31.24	31.24	31.24	54.2	54.0	53.6	3.92	3.80	3.79	3.20	3.49	3.23	6	5.50
	16:46		Middle	2.5	23.48	23.48		8.01	8.01		31.24	31.24		53.0	53.0		3.72	3.73		3.06	3.16		5	
26/11/2010	9:31	Fine	Middle	2.5	21.90	21.90	21.80	8.27	8.27	8.28	31.95	31.95	32.01	92.0	89.9	90.9	6.71	6.56	6.63	2.87	2.90	2.85	6	5.00
	9:34		Middle	2.5	21.70	21.70		8.29	8.29		32.06	32.06		91.3	90.4		6.66	6.59		2.83	2.78		4	



**Water Monitoring Result at WSD15 - Sai Wan Ho
Mid-Flood Tide**

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity			Suspended Solids			
					°C			-			ppt			%		mg/L		NTU			mg/L			
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
29/10/2010	21:20	Fine	Middle	3.5	20.36	20.36	20.34	8.45	8.45	8.46	31.61	31.61	31.62	77.3	74.2	75.5	5.80	5.57	5.66	4.13	4.44	4.49	7	6.50
	21:28		Middle	3.5	20.32	20.32		8.46	8.46		31.63	31.63		74.7	75.7		5.60	5.68		4.76	4.63		6	
1/11/2010	17:30	Sunny	Middle	2.5	23.10	23.10	23.10	8.34	8.34	8.34	32.28	32.28	32.32	84.1	83.1	84.0	5.97	5.90	5.98	6.99	6.62	6.82	7	7.50
	17:33		Middle	2.5	23.10	23.10		8.34	8.34		32.35	32.35		85.0	83.8		6.04	5.99		6.77	6.89		8	
3/11/2010	16:46	Sunny	Middle	2.5	23.10	23.10	23.10	8.34	8.34	8.34	32.50	32.50	32.50	86.8	85.7	86.4	6.16	6.09	6.14	6.62	6.82	6.58	6	7.00
	16:49		Middle	2.5	23.10	23.10		8.33	8.33		32.50	32.50		87.0	86.1		6.18	6.11		6.32	6.55		8	
5/11/2010	18:08	Cloudy	Middle	4.0	21.69	21.69	21.69	8.47	8.47	8.47	31.01	31.01	31.01	50.8	48.5	50.2	3.74	3.85	3.76	6.45	6.63	6.99	9	8.50
	18:16		Middle	4.0	21.69	21.69		8.47	8.47		31.01	31.01		50.3	51.2		3.70	3.75		7.39	7.47		8	
7/11/2010	8:16	Sunny	Middle	3.5	23.39	23.43	23.48	8.34	8.34	8.35	31.68	31.69	31.69	54.2	60.1	59.6	3.84	4.25	4.15	4.52	4.95	4.69	8	7.00
	8:33		Middle	3.5	23.54	23.55		8.35	8.35		31.69	31.69		63.2	60.9		4.17	4.32		4.71	4.57		6	
9/11/2010	10:12	Sunny	Middle	2.5	22.80	22.80	22.80	8.29	8.29	8.27	32.36	32.36	32.40	80.7	79.6	79.5	5.75	5.67	5.65	5.53	5.52	5.31	8	7.50
	10:16		Middle	2.5	22.80	22.80		8.24	8.24		32.44	32.44		79.8	77.7		5.66	5.52		5.22	4.97		7	
12/11/2010	17:10	Sunny	Middle	2.5	22.53	22.53	22.52	8.07	8.07	8.07	31.97	31.97	31.99	62.9	61.3	61.4	4.53	4.41	4.42	5.89	5.69	5.70	7	7.00
	17:13		Middle	2.5	22.50	22.50		8.07	8.07		32.00	32.00		60.6	60.8		4.36	4.38		5.47	5.74		7	
15/11/2010	13:10	Sunny	Middle	2.0	23.79	23.79	23.86	7.96	7.96	7.96	32.06	32.06	32.13	84.1	83.2	84.0	5.90	5.84	5.89	2.30	2.25	2.26	4	4.00
	13:14		Middle	2.0	23.92	23.92		7.95	7.95		32.19	32.19		84.8	84.0		5.95	5.87		2.29	2.21		4	
17/11/2010	15:22	Fine	Middle	2.5	22.03	22.03	22.05	8.09	8.09	8.08	32.14	32.14	32.14	89.0	89.5	89.9	6.45	6.47	6.51	4.12	3.96	3.96	11	10.50
	15:25		Middle	2.5	22.06	22.06		8.06	8.06		32.13	32.13		90.0	91.0		6.52	6.60		4.00	3.76		10	
19/11/2010	18:18	Sunny	Middle	3.0	23.16	23.12	23.18	8.07	8.07	8.07	32.09	32.09	32.06	73.2	76.2	74.8	5.21	5.38	5.30	4.63	4.18	4.42	3	4.00
	18:25		Middle	3.0	23.22	23.22		8.07	8.07		32.03	32.03		75.0	74.6		5.32	5.30		4.55	4.30		5	
21/11/2010	18:30	Fine	Middle	3.0	23.34	23.34	23.34	8.34	8.34	8.34	32.15	32.15	32.15	71.4	71.2	70.9	5.06	5.04	5.02	3.32	3.17	3.27	6	6.50
	18:37		Middle	3.0	23.34	23.34		8.34	8.34		32.15	32.15		70.6	70.3		5.00	4.98		3.26	3.32		7	
23/11/2010	19:03	Fine	Middle	3.0	21.92	21.92	21.93	8.22	8.22	8.22	31.90	31.90	31.91	54.7	53.4	54.1	3.98	3.89	3.94	3.87	3.94	3.62	10	9.50
	19:10		Middle	3.0	21.94	21.92		8.22	8.22		31.91	31.91		54.2	53.9		3.98	3.92		3.48	3.18		9	
26/11/2010	9:57	Fine	Middle	3.0	21.30	21.30	21.30	8.35	8.35	8.36	32.20	32.20	32.24	96.1	95.3	96.1	7.06	7.00	7.06	4.73	5.08	4.83	10	9.00
	10:00		Middle	3.0	21.30	21.30		8.37	8.37		32.27	32.27		97.2	95.7		7.14	7.03		4.68	4.81		8	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity			Suspended Solids			
					°C			-			ppt			%		mg/L		NTU			mg/L			
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
29/10/2010	21:01	Fine	Middle	3.5	20.55	20.55	20.55	8.47	8.46	8.46	31.57	31.57	31.59	74.2	73.1	73.2	5.55	5.47	5.48	4.70	4.73	4.73	4	5.00
	21:07		Middle	3.5	20.55	20.55		8.46	8.46		31.61	31.61		72.5	73.1		5.43	5.47		4.81	4.68		6	
1/11/2010	17:50	Sunny	Middle	2.5	22.80	22.80	22.85	8.33	8.33	8.33	32.34	32.34	32.35	84.2	83.3	83.9	6.03	5.97	6.01	7.00	6.76	6.90	9	11.50
	17:53		Middle	2.5	22.90	22.90		8.33	8.33		32.35	32.35		84.3	83.7		6.05	6.00		6.94	6.88		14	
3/11/2010	17:11	Sunny	Middle	2.5	23.10	23.10	23.05	8.33	8.33	8.33	32.34	32.34	32.40	87.3	86.1	86.8	6.21	6.12	6.17	9.55	9.24	9.68	13	13.00
	17:14		Middle	2.5	23.00	23.00		8.33	8.33		32.45	32.45		87.1	86.5		6.20	6.14		10.50	9.43		13	
5/11/2010	17:39	Cloudy	Middle	3.5	22.47	22.48	22.50	8.47	8.47	8.47	31.30	31.30	31.32	68.5	71.8	71.1	4.94	5.18	5.13	6.60	6.72	6.21	11	10.50
	17:47		Middle	3.5	22.52	22.52		8.47	8.47		31.33	31.33		72.8	71.4		5.25	5.15		5.74	5.79		10	
7/11/2010	7:49	Sunny	Middle	3.5	23.44	23.65	23.65	8.31	8.31	8.32	31.46	31.46	31.46	58.0	63.8	57.9	4.09	4.50	4.09	4.93	4.85	4.92	8	7.50
	7:58		Middle	3.5	23.75	23.75		8.33	8.33		31.46	31.46		54.2	55.5		3.83	3.92		4.91	4.99		7	
9/11/2010	10:35	Sunny	Middle	2.5	22.80	22.80	22.85	8.23	8.23	8.23	32.31	32.31	32.35	79.2	78.4	78.6	5.64	5.59	5.60	6.28	5.83	5.83	7	7.50
	10:38		Middle	2.5	22.90	22.90		8.23	8.23		32.39	32.38		79.5	77.2		5.67	5.50		5.76	5.46		8	
12/11/2010	16:50	Sunny	Middle	2.5	22.73	22.73	22.74	8.06	8.06	8.06	31.97	31.97	31.98	57.9	56.9	56.3	4.16	4.08	4.04	3.61	3.70	3.56	9	8.50
	16:53		Middle	2.5	22.74	22.74		8.06	8.06		31.99	31.99		56.1	54.3		4.02	3.89		3.39	3.53		8	
15/11/2010	13:28	Sunny	Middle	2.5	23.62	23.62	23.65	7.74	7.74	7.75	31.88	31.88	31.88	85.5	84.3	84.5	6.01	5.90	5.93	4.12	3.86	3.81	9	8.00
	13:31		Middle	2.5	23.68	23.68		7.75	7.75		31.88	31.88		84.5	83.8		5.92	5.87		3.57	3.69		7	
17/11/2010	15:52	Fine	Middle	2.5	22.02	22.02	22.02	8.17	8.17	8.17	31.83	31.83	31.83	88.0	86.6	87.6	6.40	6.30	6.37	4.70	4.51	4.58	16	14.00
	15:56		Middle	2.5	22.01	22.01		8.17	8.17		31.83	31.83		88.8	87.1		6.45	6.33		4.60	4.52		12	
19/11/2010	18:03	Sunny	Middle	3.0	24.10	24.10	24.10	8.22	8.22	8.22	32.04	32.04	32.04	73.5	75.4	74.7	5.09	5.27	5.21	3.77	4.41	3.88	4	3.50
	18:10		Middle	3.0	24.10	24.10		8.22	8.22		32.04	32.04		73.4	76.6		5.13	5.36		3.60	3.73		3	
21/11/2010	18:13	Fine	Middle	3.5	23.04	23.04	23.00	8.37	8.38	8.38	32.35	32.35	32.35	83.9	83.9	83.7	5.97	5.96	5.96	4.37	4.05	4.19	6	5.00
	18:20		Middle	3.5	23.00	22.90		8.38	8.37		32.35	32.35		83.8	83.2		5.97	5.93		4.24	4.11		4	
23/11/2010	18:52	Fine	Middle	3.0	22.10	22.10	22.10	8.30	8.30	8.30	31.76	31.76	31.76	53.7	55.2	54.3	3.90	4.01	3.94	3.68	3.51	3.68	8	7.00
	19:00		Middle	3.0	22.10	22.08		8.30	8.30		31.76	31.76		54.6	53.6		3.97	3.89		3.45	4.07		6	
26/11/2010	10:20	Fine	Middle	3.0	21.70	21.70	21.75	8.33	8.33	8.34	32.22	32.22	32.25	94.4	92.9	93.5	6.87	6.76	6.81	6.74	6.22	6.22	15	17.50
	10:23		Middle	3.0	21.80	21.80		8.35	8.35		32.28	32.28		93.7	93.0		6.82	6.77		6.15	5.77		20	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/10/2010	20:45	Fine	Middle	2.0	20.84	20.84	20.82	8.52	8.53	8.53	31.47	31.47	31.48	58.6	54.6	55.8	4.08	4.06	4.08	7.07	6.93	7.25	12	12.00
	20:52		Middle	2.0	20.79	20.79		8.53	8.53		31.48	31.48		56.9	53.0		4.23	3.94		7.33	7.67		12	
1/11/2010	14:24	Sunny	Middle	1.5	23.30	23.30	23.40	8.19	8.19	8.19	31.81	31.81	31.82	69.0	68.4	69.1	4.89	4.84	4.89	12.40	10.60	<u>10.93</u>	18	<u>17.00</u>
	14:27		Middle	1.5	23.50	23.50		8.19	8.19		31.82	31.82		70.0	69.0		4.94	4.88		10.30	10.40		16	
3/11/2010	17:50	Sunny	Middle	2.0	23.30	23.30	23.35	8.19	8.19	8.19	31.80	31.80	31.84	75.0	74.4	74.5	5.23	5.19	5.19	5.31	5.22	5.29	9	10.00
	17:53		Middle	2.0	23.40	23.40		8.19	8.20		31.88	31.88		74.7	74.0		5.20	5.13		5.28	5.34		11	
5/11/2010	17:13	Cloudy	Middle	2.5	20.00	20.00	19.99	8.47	8.47	8.47	31.76	31.76	31.77	57.6	52.7	53.5	4.36	3.99	4.05	8.82	8.67	8.64	18	<u>17.50</u>
	17:20		Middle	2.5	20.00	19.94		8.46	8.46		31.78	31.76		51.3	52.4		3.88	3.97		8.31	8.74		17	
7/11/2010	7:38	Sunny	Middle	2.5	22.99	23.06	23.05	8.26	8.26	8.27	31.59	31.59	31.59	51.6	55.1	53.2	3.68	3.93	3.80	4.52	4.70	4.74	10	9.00
	7:43		Middle	2.5	23.08	23.08		8.28	8.28		31.58	31.58		53.0	53.0		3.78	3.79		5.07	4.68		8	
9/11/2010	13:20	Sunny	Middle	1.5	23.00	23.00	23.10	8.17	8.17	8.17	32.14	32.14	32.15	74.2	73.4	74.1	5.27	5.21	5.26	7.52	7.38	7.47	12	13.00
	13:24		Middle	1.5	23.20	23.20		8.17	8.17		32.15	32.15		74.9	73.7		5.32	5.23		7.67	7.30		14	
12/11/2010	16:24	Sunny	Middle	2.0	22.62	22.62	22.63	7.76	7.76	7.76	31.66	31.66	31.68	66.3	64.4	66.3	4.78	4.64	4.78	6.09	6.02	6.07	9	8.50
	16:27		Middle	2.0	22.63	22.63		7.76	7.76		31.69	31.69		67.5	66.9		4.86	4.82		6.10	6.06		8	
15/11/2010	16:47	Sunny	Middle	2.0	22.99	22.99	23.01	7.89	7.89	7.89	31.92	31.92	31.92	84.4	83.7	84.3	6.00	5.96	6.00	5.84	5.42	5.64	8	8.00
	16:50		Middle	2.0	23.03	23.03		7.88	7.88		31.92	31.92		85.0	84.1		6.05	5.98		5.61	5.68		8	
17/11/2010	17:04	Fine	Middle	1.5	22.39	22.39	22.41	7.64	7.64	7.67	31.51	31.51	31.54	86.5	86.0	86.2	6.25	6.22	6.23	4.34	4.02	4.15	11	12.00
	17:07		Middle	1.5	22.43	22.44		7.69	7.69		31.56	31.56		84.9	87.5		6.13	6.33		4.01	4.24		13	
19/11/2010	17:42	Sunny	Middle	2.0	24.13	24.13	24.14	7.65	7.65	7.65	31.87	31.87	31.87	71.2	73.6	71.0	4.98	5.14	4.97	7.29	7.32	7.52	15	13.50
	17:49		Middle	2.0	24.13	24.15		7.65	7.65		31.87	31.87		71.2	68.1		4.98	4.76		7.75	7.73		12	
21/11/2010	18:01	Fine	Middle	2.0	22.82	22.82	22.83	7.92	7.91	7.91	32.01	32.01	32.01	58.8	58.3	56.9	4.20	4.17	4.07	4.61	4.52	4.39	9	8.50
	18:06		Middle	2.0	22.82	22.85		7.91	7.91		32.01	32.01		57.0	53.6		4.07	3.84		4.17	4.26		8	
23/11/2010	18:40	Fine	Middle	2.0	22.29	22.29	22.32	7.96	7.96	7.96	31.50	31.50	31.50	50.7	52.8	52.2	3.67	3.82	3.77	5.13	5.02	5.01	9	9.00
	18:45		Middle	2.0	22.34	22.34		7.96	7.96		31.50	31.50		51.5	53.6		3.73	3.87		4.93	4.94		9	
26/11/2010	12:50	Fine	Middle	1.5	21.50	21.50	21.55	8.21	8.21	8.22	31.85	31.85	31.89	79.5	78.4	79.3	5.82	5.74	5.80	6.66	6.50	6.28	12	11.00
	12:53		Middle	1.5	21.60	21.60		8.22	8.22		31.93	31.93		80.3	78.8		5.87	5.77		6.21	5.74		10	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/10/2010	20:30	Fine	Middle	2.0	20.50	20.50	20.46	8.37	8.38	8.38	31.27	31.27	31.28	52.4	55.6	53.2	3.93	4.17	4.50	8.00	7.33	7.67	10	10.50
	20:36		Middle	2.0	20.41	20.41		8.39	8.39		31.28	31.28		52.4	52.5		4.94	4.94		7.81	7.53		11	
1/11/2010	14:09	Sunny	Middle	1.5	24.50	24.50	24.50	8.18	8.18	8.18	31.89	31.89	31.89	72.4	71.6	72.4	5.03	4.98	5.03	7.64	7.38	7.49	12	14.00
	14:12		Middle	1.5	24.50	24.50		8.17	8.17		31.89	31.89		73.2	72.4		5.09	5.03		7.44	7.49		16	
3/11/2010	17:33	Sunny	Middle	1.5	23.60	23.60	23.60	8.20	8.20	8.20	31.94	31.94	31.95	71.8	71.2	71.8	4.99	4.96	4.99	6.02	5.97	5.95	10	10.50
	17:36		Middle	1.5	23.60	23.60		8.20	8.20		31.97	31.96		72.4	71.9		5.03	4.99		5.88	5.92		11	
5/11/2010	17:01	Cloudy	Middle	2.5	19.38	19.38	19.39	8.46	8.46	8.46	31.63	31.63	31.63	48.8	53.2	50.7	3.75	4.09	3.90	10.90	10.10	11.18	22	22.00
	17:10		Middle	2.5	19.39	19.39		8.46	8.46		31.63	31.63		50.6	50.3		3.89	3.87		11.80	11.90		22	
7/11/2010	7:29	Sunny	Middle	2.5	23.04	23.00	22.97	8.26	8.26	8.26	31.70	31.70	31.71	50.2	50.5	50.9	3.59	3.62	3.65	4.63	4.45	4.70	8	8.50
	7:36		Middle	2.5	22.91	22.91		8.26	8.26		31.71	31.71		52.6	50.1		3.78	3.60		4.88	4.85		9	
9/11/2010	13:05	Sunny	Middle	1.5	23.50	23.50	23.70	8.15	8.15	8.15	32.14	32.14	32.11	72.6	71.9	72.7	5.10	5.02	5.10	7.17	7.49	6.93	15	15.50
	13:08		Middle	1.5	23.90	23.90		8.15	8.15		32.07	32.07		73.7	72.7		5.18	5.11		6.69	6.35		16	
12/11/2010	16:10	Sunny	Middle	2.0	23.18	23.18	23.18	7.88	7.88	7.87	31.54	31.54	31.55	66.3	64.7	66.5	4.73	4.61	4.74	7.71	7.31	7.40	13	13.50
	16:13		Middle	2.0	23.17	23.17		7.85	7.85		31.56	31.56		67.9	67.0		4.84	4.78		7.31	7.28		14	
15/11/2010	16:33	Sunny	Middle	2.0	22.97	22.97	22.99	7.91	7.91	7.90	31.94	31.94	31.94	83.3	82.6	83.2	5.93	5.88	5.93	6.54	6.93	6.46	11	12.00
	16:36		Middle	2.0	23.00	23.00		7.88	7.88		31.93	31.93		83.7	83.3		5.96	5.94		6.11	6.27		13	
17/11/2010	16:50	Fine	Middle	1.5	22.80	22.80	22.82	7.59	7.59	7.60	31.75	31.75	31.76	84.9	83.5	83.6	6.09	5.99	5.99	6.09	5.33	5.57	8	7.50
	16:53		Middle	1.5	22.84	22.84		7.60	7.60		31.77	31.77		83.3	82.6		5.97	5.92		5.41	5.45		7	
19/11/2010	17:31	Sunny	Middle	2.0	24.56	24.56	24.59	7.92	7.93	7.93	31.83	31.83	31.83	64.7	67.5	66.9	4.60	4.69	4.67	8.06	8.11	7.98	15	14.00
	17:38		Middle	2.0	24.61	24.61		7.93	7.93		31.83	31.83		65.5	69.9		4.54	4.85		7.90	7.85		13	
21/11/2010	17:51	Fine	Middle	2.0	22.96	22.99	23.06	7.90	7.89	7.89	31.82	31.82	31.84	59.2	60.7	58.9	4.22	4.32	4.19	4.85	4.56	4.50	6	6.50
	17:56		Middle	2.0	23.14	23.13		7.88	7.89		31.86	31.86		59.3	56.4		4.22	4.01		4.48	4.12		7	
23/11/2010	18:29	Fine	Middle	2.0	22.36	22.36	22.43	7.91	7.91	7.91	31.49	31.49	31.46	54.3	58.5	53.5	3.94	4.10	3.83	5.96	5.70	5.62	14	13.00
	18:34		Middle	2.0	22.45	22.55		7.91	7.91		31.43	31.43		50.9	50.4		3.65	3.61		5.61	5.19		12	
26/11/2010	11:30	Fine	Middle	2.0	21.80	21.80	21.85	8.25	8.25	8.25	31.90	31.90	31.92	80.8	80.0	80.8	5.87	5.82	5.87	6.14	5.85	5.85	12	11.00
	11:33		Middle	2.0	21.90	21.90		8.24	8.24		31.93	31.93		81.4	80.8		5.92	5.87		5.84	5.57		10	



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average		
9/11/2010	12:45	Sunny	Middle	2.0	23.40	23.40	23.60	8.13	8.13	8.09	31.76	31.76	31.74	60.4	59.6	60.6	4.11	4.05	4.12	3.96	3.39	3.48	8	7.00
	12:48		Middle	2.0	23.80	23.80		8.05	8.05		31.71	31.71		61.5	60.9		4.18	4.14		3.08	3.47		6	
12/11/2010	15:53	Sunny	Middle	1.5	23.79	23.79	23.80	7.86	7.86	7.85	31.09	31.09	31.10	84.7	83.1	83.8	5.99	5.88	5.93	5.96	5.91	5.85	7	6.00
	15:56		Middle	1.5	23.80	23.80		7.83	7.83		31.10	31.10		85.2	82.0		6.03	5.80		5.84	5.70		5	
15/11/2010	16:10	Sunny	Middle	1.5	23.44	23.44	23.43	7.86	7.86	7.86	31.17	31.17	31.18	87.6	85.7	86.5	6.23	6.03	6.10	2.70	2.54	2.63	5	5.00
	16:13		Middle	1.5	23.42	23.42		7.85	7.85		31.18	31.18		86.8	85.9		6.10	6.04		2.66	2.62		5	
17/11/2010	16:33	Fine	Middle	2.0	22.36	22.36	22.39	7.86	7.86	7.85	31.24	31.24	31.26	80.2	79.4	79.8	5.81	5.75	5.77	3.10	3.19	3.12	4	5.00
	16:35		Middle	2.0	22.42	22.42		7.84	7.84		31.28	31.28		80.6	78.8		5.83	5.70		3.06	3.12		6	
19/11/2010	17:17	Sunny	Middle	1.5	24.33	24.32	24.35	8.11	8.07	8.06	31.27	31.27	31.27	79.1	78.3	77.9	5.54	5.48	5.45	3.08	3.57	3.12	4	3.50
	17:23		Middle	1.5	24.37	24.37		8.05	8.02		31.26	31.26		77.3	76.8		5.41	5.37		2.95	2.88		3	
21/11/2010	17:38	Fine	Middle	2.0	23.81	23.81	23.69	7.87	7.87	7.87	31.37	31.37	31.37	62.0	60.2	59.4	4.41	4.27	4.21	3.30	3.19	3.28	6	8.00
	17:44		Middle	2.0	23.56	23.56		7.86	7.86		31.36	31.36		57.9	57.3		4.10	4.06		3.34	3.28		10	
23/11/2010	18:16	Fine	Middle	2.0	23.05	23.05	23.05	7.86	7.86	7.86	31.01	31.01	31.01	53.6	53.5	53.4	3.84	3.83	3.82	2.39	2.56	2.41	3	4.00
	18:21		Middle	2.0	23.05	23.05		7.86	7.86		31.01	31.01		53.2	53.2		3.81	3.81		2.01	2.66		5	
26/11/2010	12:09	Fine	Middle	1.5	22.70	22.70	17.75	8.12	8.12	8.12	31.47	31.47	31.50	73.2	72.0	73.3	5.26	5.15	5.26	4.11	3.89	3.83	6	6.00
	12:12		Middle	1.5	2.80	22.80		8.11	8.11		31.53	31.53		74.3	73.6		5.33	5.28		3.59	3.74		6	



**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	Value	Average				
9/11/2010	12:18	Sunny	Middle	1.5	23.30	23.30	23.55	8.10	8.10	8.07	31.43	31.43	31.41	55.2	55.5	56.3	3.89	3.90	3.96	5.80	5.13	5.42	10	9.00
	12:31		Middle	1.5	23.80	23.80		8.03	8.03		31.38	31.38		58.1	56.5		4.08	3.96		5.36	5.40		8	
12/11/2010	15:40	Sunny	Middle	2.0	24.08	24.08	24.08	8.10	8.10	8.08	31.30	31.30	31.30	84.1	83.5	84.4	5.91	5.88	5.93	5.88	5.22	5.45	10	10.00
	15:43		Middle	2.0	24.07	24.07		8.05	8.05		31.30	31.30		85.4	84.4		6.00	5.92		5.37	5.32		10	
15/11/2010	15:52	Sunny	Middle	2.0	23.29	23.29	23.31	7.92	7.92	7.91	31.42	31.42	31.42	84.8	85.0	84.5	5.94	5.95	5.93	3.62	3.79	3.54	7	8.00
	15:56		Middle	2.0	23.33	23.33		7.90	7.90		31.42	31.42		84.5	83.8		5.92	5.89		3.41	3.33		9	
17/11/2010	16:25	Fine	Middle	2.0	22.36	22.36	22.38	8.04	8.04	8.03	31.01	31.01	31.02	72.5	70.2	72.0	5.26	5.09	5.22	4.18	3.98	4.03	7	7.00
	16:28		Middle	2.0	22.40	22.40		8.03	8.02		31.03	31.03		73.0	72.3		5.30	5.24		4.08	3.88		7	
19/11/2010	17:08	Sunny	Middle	1.5	24.31	24.31	24.31	7.70	7.70	7.70	31.20	31.20	31.20	57.7	58.4	62.2	4.03	4.09	4.35	6.30	6.39	6.49	8	8.00
	17:13		Middle	1.5	24.31	24.31		7.70	7.70		31.20	31.20		67.8	64.8		4.74	4.54		6.93	6.34		8	
21/11/2010	17:25	Fine	Middle	2.0	23.92	23.92	23.96	7.90	7.90	7.90	31.58	31.58	31.54	61.6	60.3	59.8	4.33	4.24	4.20	4.68	4.20	4.33	8	9.00
	17:30		Middle	2.0	23.98	24.03		7.90	7.90		31.49	31.49		58.3	59.0		4.09	4.14		4.13	4.32		10	
23/11/2010	18:06	Fine	Middle	2.0	22.69	22.68	22.68	7.79	7.79	7.79	30.85	30.85	30.85	41.9	42.4	42.4	3.69	3.64	3.62	3.97	3.46	3.58	4	3.50
	18:12		Middle	2.0	22.67	22.67		7.79	7.79		30.85	30.85		41.9	43.5		3.61	3.52		3.54	3.35		3	
26/11/2010	11:57	Fine	Middle	2.0	21.70	21.70	21.85	8.13	8.13	8.14	31.42	31.42	31.44	70.5	70.0	71.1	5.14	5.10	5.18	4.76	4.36	4.50	8	8.00
	12:00		Middle	2.0	22.00	22.00		8.15	8.15		31.46	31.46		72.5	71.3		5.28	5.19		4.33	4.53		8	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	21:04	Fine	Middle	3.0	20.13	20.13	20.11	8.49	8.46	8.46	31.23	31.23	31.27	60.9	64.0	59.8	4.59	4.82	4.46	2.75	2.69	2.64	4	3.50
	21:10		Middle	3.0	20.10	20.09		8.45	8.44		31.29	31.31		31.27	60.0		54.2	4.33		4.08	2.62		2.48	
1/11/2010	16:32	Sunny	Middle	2.5	23.10	23.10	23.13	8.28	8.28	8.28	32.01	32.01	32.01	77.5	76.0	76.4	5.60	5.46	5.50	3.46	3.43	3.45	9	8.50
	16:35		Middle	2.5	23.20	23.10		8.27	8.27		32.01	32.01		32.01	76.5		75.7	5.50		5.44	3.47		3.44	
3/11/2010	15:42	Sunny	Middle	2.5	22.50	22.50	22.50	8.18	8.18	8.18	31.92	31.92	31.92	77.3	76.0	76.6	5.57	5.47	5.52	4.48	4.68	4.53	6	6.00
	15:46		Middle	2.5	22.50	22.50		8.18	8.18		31.91	31.91		31.92	76.7		76.5	5.53		5.51	4.74		4.22	
5/11/2010	19:31	Cloudy	Middle	2.5	22.38	22.38	22.38	8.44	8.44	8.44	30.61	30.61	30.61	50.9	48.0	49.3	3.70	3.50	3.59	3.78	4.61	4.23	6	5.50
	19:39		Middle	2.5	22.38	22.38		8.44	8.44		30.61	30.61		30.61	49.3		48.8	3.59		3.56	4.44		4.09	
7/11/2010	8:35	Sunny	Middle	2.5	23.01	23.01	23.01	8.22	8.22	8.23	31.45	31.45	31.46	52.8	52.3	51.7	3.78	3.74	3.70	2.89	3.52	3.01	7	8.00
	8:42		Middle	2.5	23.07	22.96		8.23	8.23		31.46	31.46		31.46	51.5		50.1	3.68		3.59	2.70		2.91	
9/11/2010	10:12	Sunny	Middle	2.5	22.70	22.80	22.80	8.15	8.15	8.15	32.17	32.17	32.17	75.7	76.3	76.3	5.94	5.98	5.99	4.80	4.77	4.84	8	8.50
	10:15		Middle	2.5	22.80	22.90		8.14	8.14		32.16	32.16		32.17	76.6		76.4	6.03		5.99	4.91		4.88	
12/11/2010	16:28	Sunny	Middle	2.5	22.10	22.10	22.10	7.96	7.96	7.96	31.64	31.64	31.65	72.9	73.6	73.5	5.30	5.34	5.34	4.14	3.99	3.61	5	4.50
	16:33		Middle	2.5	22.10	22.10		7.96	7.96		31.65	31.65		31.65	73.4		74.1	5.33		5.38	3.18		3.14	
15/11/2010	16:07	Sunny	Middle	2.5	22.50	22.50	22.50	8.14	8.14	8.14	31.84	31.84	31.84	86.1	86.1	84.9	6.20	6.20	6.11	4.70	5.36	4.66	6	5.50
	16:09		Middle	2.5	22.50	22.50		8.14	8.14		31.84	31.84		31.84	82.6		84.6	5.95		6.10	4.35		4.21	
17/11/2010	15:06	Fine	Middle	2.5	21.80	21.80	21.80	8.09	8.09	8.09	31.48	31.48	31.49	78.0	79.7	78.6	5.71	5.84	5.76	5.18	4.61	5.07	6	7.00
	15:10		Middle	2.5	21.80	21.80		8.08	8.08		31.49	31.49		31.49	79.0		77.8	5.78		5.70	5.29		5.19	
19/11/2010	17:11	Sunny	Middle	2.5	22.10	22.10	22.10	8.04	8.04	8.04	31.72	31.72	31.73	78.9	78.5	78.4	5.73	5.70	5.69	3.68	3.49	3.53	5	4.00
	17:15		Middle	2.5	22.10	22.10		8.04	8.04		31.73	31.73		31.73	78.8		77.2	5.72		5.61	3.60		3.33	
21/11/2010	17:40	Fine	Middle	2.5	22.57	22.57	22.57	8.16	8.16	8.16	31.94	31.94	31.93	54.9	53.8	53.9	3.95	3.87	3.88	2.58	2.47	2.45	4	3.00
	17:45		Middle	2.5	22.57	22.57		8.16	8.16		31.94	31.90		31.93	53.6		53.3	3.85		3.83	2.42		2.34	
23/11/2010	18:50	Fine	Middle	2.5	22.14	22.14	22.14	8.17	8.17	8.17	31.49	31.49	31.49	53.3	52.7	53.1	3.87	3.83	3.85	2.15	2.15	2.14	4	4.00
	18:55		Middle	2.5	22.14	22.14		8.17	8.17		31.49	31.49		31.49	52.7		53.8	3.78		3.91	2.25		2.01	
26/11/2010	11:47	Fine	Middle	3.0	21.40	21.30	21.38	8.13	8.13	8.14	31.90	31.90	31.85	88.7	88.2	88.2	6.60	6.52	6.53	4.27	4.31	4.35	5	6.00
	11:50		Middle	3.0	21.40	21.40		8.14	8.14		31.80	31.80		31.85	88.1		87.8	6.51		6.49	4.38		4.45	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
29/10/2010	21:48	Fine	Middle	2.0	20.78	20.86	20.89	8.31	8.31	8.32	31.25	31.25	31.25	52.4	58.6	56.8	3.89	4.35	4.22	3.37	3.25	3.28	4	4.00
	21:54		Middle	2.0	20.97	20.95		8.33	8.33		31.25	31.25		59.7	56.6		4.44	4.21		3.21	3.29		4	
1/11/2010	15:09	Sunny	Middle	2.0	23.30	23.30	23.35	8.19	8.19	8.19	31.75	31.75	31.75	69.6	65.5	66.6	4.99	4.70	4.78	4.23	5.43	4.46	8	8.00
	15:12		Middle	2.0	23.40	23.40		8.19	8.19		31.75	31.75		66.9	64.2		4.80	4.61		4.08	4.11		8	
3/11/2010	14:17	Sunny	Middle	2.0	22.90	22.90	22.90	8.17	8.17	8.17	31.84	31.84	31.84	75.2	75.4	75.2	5.37	5.39	5.37	5.65	5.26	5.49	7	7.50
	14:21		Middle	2.0	22.90	22.90		8.17	8.17		31.84	31.84		74.2	75.8		5.31	5.42		5.57	5.48		8	
5/11/2010	19:08	Cloudy	Middle	2.0	20.81	20.81	20.81	8.45	8.45	8.45	30.77	30.78	30.78	71.8	72.6	72.3	5.37	5.43	5.40	2.48	2.08	2.58	4	3.50
	19:15		Middle	2.0	20.80	20.80		8.45	8.44		30.78	30.78		71.9	72.8		5.37	5.44		2.75	2.99		3	
7/11/2010	9:25	Sunny	Middle	2.0	22.94	22.94	22.94	8.25	8.25	8.25	31.47	31.47	31.47	54.7	52.9	52.5	3.92	3.79	3.76	4.72	4.74	4.55	10	10.00
	9:32		Middle	2.0	22.94	22.94		8.25	8.25		31.47	31.47		51.3	51.2		3.67	3.66		4.41	4.32		10	
9/11/2010	9:00	Sunny	Middle	2.0	22.50	22.50	22.48	8.10	8.10	8.11	31.88	31.89	31.89	64.2	64.7	64.7	4.63	4.67	4.67	4.88	5.44	5.17	10	10.00
	9:03		Middle	2.0	22.40	22.50		8.11	8.11		31.89	31.89		64.5	65.4		4.65	4.71		5.41	4.93		10	
12/11/2010	14:58	Sunny	Middle	2.0	21.70	21.70	21.70	7.98	7.98	7.98	31.90	31.90	31.91	68.9	70.9	70.1	5.03	5.18	5.12	6.32	4.57	5.26	9	8.00
	15:01		Middle	2.0	21.70	21.70		7.97	7.97		31.91	31.91		70.3	70.2		5.14	5.13		4.72	5.41		7	
15/11/2010	14:19	Sunny	Middle	2.0	23.00	23.00	23.05	8.11	8.11	8.11	32.00	32.00	32.00	83.8	82.9	82.8	5.98	5.85	5.89	4.94	5.12	5.03	9	9.00
	14:23		Middle	2.0	23.10	23.10		8.11	8.11		31.99	31.99		81.8	82.7		5.83	5.90		5.32	4.72		9	
17/11/2010	13:40	Fine	Middle	2.0	21.90	21.90	21.90	8.12	8.12	8.12	32.07	32.07	32.07	74.5	75.3	75.1	5.41	5.50	5.46	5.37	5.08	5.27	9	8.00
	13:42		Middle	2.0	21.90	21.90		8.12	8.12		32.07	32.07		75.9	74.5		5.52	5.41		5.49	5.12		7	
19/11/2010	15:35	Sunny	Middle	2.0	22.10	22.10	22.10	8.12	8.12	8.12	31.99	31.99	32.00	78.3	77.8	78.0	5.68	5.64	5.65	6.68	6.50	6.94	14	12.50
	15:38		Middle	2.0	22.10	22.10		8.12	8.12		32.00	32.00		77.6	78.1		5.63	5.66		7.10	7.48		11	
21/11/2010	19:15	Fine	Middle	2.0	23.45	23.44	23.44	8.27	8.27	8.27	31.78	31.78	31.78	70.0	69.3	69.4	4.96	4.91	4.92	1.44	1.35	1.37	<2	<2
	19:21		Middle	2.0	23.44	23.44		8.27	8.27		31.78	31.78		69.1	69.1		4.90	4.90		1.33	1.37		<2	
23/11/2010	19:38	Fine	Middle	2.0	22.05	22.05	22.05	8.26	8.26	8.26	31.56	31.56	31.56	46.2	44.4	44.5	3.37	3.43	3.41	1.89	1.58	1.63	3	3.50
	19:45		Middle	2.0	22.05	22.05		8.26	8.26		31.56	31.56		44.0	43.2		3.40	3.44		1.41	1.62		4	
26/11/2010	10:25	Fine	Middle	1.5	21.50	21.60	21.58	8.11	8.11	8.12	31.60	31.60	31.55	88.9	88.8	88.5	6.58	5.57	6.05	4.43	4.16	4.13	7	8.00
	10:28		Middle	1.5	21.60	21.60		8.12	8.12		31.50	31.50		88.3	87.9		6.53	5.50		4.20	3.73		9	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
29/10/2010	21:35	Fine	Middle	3.0	20.91	20.93	20.90	8.45	8.45	8.45	31.39	31.39	31.41	55.3	57.8	56.2	4.11	4.29	4.18	5.95	5.89	5.94	8	7.00
	21:40		Middle	3.0	20.88	20.88		8.45	8.45		31.42	31.42		55.4	56.2		4.12	4.18		6.37	5.56		6	
1/11/2010	15:19	Sunny	Middle	3.0	23.40	23.40	23.40	8.20	8.20	8.20	31.76	31.76	31.76	70.1	72.4	72.7	5.02	5.18	5.20	2.77	2.78	2.76	21	17.00
	15:23		Middle	3.0	23.40	23.40		8.20	8.20		31.76	31.76		74.4	73.7		5.33	5.28		2.75	2.72		13	
3/11/2010	14:32	Sunny	Middle	3.0	23.00	23.00	23.00	8.18	8.18	8.18	31.76	31.75	31.76	80.6	79.6	80.0	5.76	5.69	5.72	6.50	6.30	7.02	10	11.00
	14:35		Middle	3.0	23.00	23.00		8.18	8.18		31.76	31.76		80.0	79.9		5.72	5.72		7.91	7.37		12	
5/11/2010	18:50	Cloudy	Middle	3.5	20.42	20.42	20.37	8.48	8.48	8.47	31.40	31.40	31.44	61.1	58.1	61.4	4.58	4.39	4.62	3.95	3.79	3.70	6	7.00
	18:57		Middle	3.5	20.32	20.32		8.46	8.46		31.47	31.48		64.6	61.8		4.85	4.64		3.54	3.50		8	
7/11/2010	9:10	Sunny	Middle	3.0	22.61	22.72	22.69	8.26	8.26	8.26	31.48	31.48	31.48	56.3	51.4	53.6	4.05	3.70	3.86	4.32	4.14	4.23	10	10.50
	9:15		Middle	3.0	22.72	22.72		8.26	8.26		31.48	31.49		52.5	54.2		3.77	3.90		3.95	4.51		11	
9/11/2010	9:12	Sunny	Middle	3.0	22.40	22.40	22.35	8.12	8.12	8.13	31.89	31.89	31.90	66.7	67.0	67.2	4.82	4.83	4.85	7.43	6.68	6.64	9	9.50
	9:15		Middle	3.0	22.30	22.30		8.13	8.13		31.90	31.90		67.4	67.5		4.86	4.87		6.27	6.19		10	
12/11/2010	15:10	Sunny	Middle	3.0	21.90	21.90	21.85	8.01	8.01	8.02	31.82	31.82	31.82	74.6	74.9	74.7	5.44	5.46	5.45	3.26	3.28	3.18	4	3.50
	15:12		Middle	3.0	21.80	21.80		8.02	8.02		31.82	31.82		75.2	74.1		5.48	5.40		2.97	3.22		3	
15/11/2010	14:34	Sunny	Middle	3.0	23.00	23.00	23.03	8.12	8.12	8.12	31.97	31.97	31.98	78.4	81.7	79.3	5.66	5.82	5.68	10.20	9.75	9.05	22	20.00
	14:37		Middle	3.0	23.00	23.10		8.12	8.12		31.98	31.98		76.5	80.7		5.46	5.76		8.15	8.09		18	
17/11/2010	13:49	Fine	Middle	3.0	21.50	21.50	21.50	8.15	8.15	8.15	31.92	31.92	31.92	77.5	71.5	74.2	5.70	5.25	5.44	3.92	4.41	3.97	6	5.00
	13:52		Middle	3.0	21.50	21.50		8.15	8.15		31.92	31.92		77.1	70.5		5.67	5.13		3.28	4.26		4	
19/11/2010	15:48	Sunny	Middle	3.0	22.20	22.20	22.20	8.15	8.15	8.15	32.01	32.01	32.01	79.2	78.9	78.9	5.73	5.71	5.71	5.10	4.80	4.92	6	6.00
	15:51		Middle	3.0	22.20	22.20		8.15	8.15		32.01	32.01		78.4	79.1		5.68	5.73		4.85	4.91		6	
21/11/2010	19:00	Fine	Middle	3.0	23.64	23.64	23.64	8.26	8.26	8.26	31.84	31.84	31.84	70.9	70.7	70.5	5.01	4.99	4.98	2.92	2.62	2.69	4	5.00
	19:07		Middle	3.0	23.64	23.63		8.25	8.25		31.84	31.84		70.2	70.0		4.96	4.94		2.50	2.70		6	
23/11/2010	19:20	Fine	Middle	2.5	21.99	21.99	22.00	8.17	8.17	8.17	31.46	31.46	31.46	49.6	45.9	46.1	3.62	3.36	3.47	2.29	2.34	2.20	4	4.00
	19:26		Middle	2.5	22.00	22.00		8.17	8.17		31.46	31.46		45.1	43.9		3.49	3.40		2.08	2.09		4	
26/11/2010	10:36	Fine	Middle	3.0	21.30	21.30	21.35	8.18	8.18	8.19	31.60	31.60	31.55	92.3	91.8	91.8	6.84	6.80	6.80	4.85	4.35	4.30	15	13.50
	10:39		Middle	3.0	21.40	21.40		8.19	8.19		31.50	31.50		91.6	91.5		6.78	6.77		4.15	3.84		12	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	21:26	Fine	Middle	1.5	20.31	20.33	20.34	8.41	8.41	8.41	31.29	31.28	31.27	56.9	55.3	54.9	4.27	4.16	4.13	8.95	9.27	8.72	20	<u>30.50</u>
	21:34		Middle	1.5	20.35	20.35		8.41	8.40		31.25	31.25		52.5	54.8		3.95	4.13		8.47	8.20		41	
1/11/2010	15:32	Sunny	Middle	1.5	23.30	23.30	23.30	8.20	8.20	8.20	31.77	31.77	31.77	75.6	73.2	74.1	5.43	5.25	5.32	4.24	4.23	4.09	9	8.00
	15:36		Middle	1.5	23.30	23.30		8.20	8.20		31.77	31.77		74.3	73.2		5.33	5.25		3.92	3.95		7	
3/11/2010	14:43	Sunny	Middle	1.5	22.70	22.70	22.70	8.18	8.18	8.18	31.77	31.77	31.78	74.8	73.8	74.9	5.37	5.30	5.38	6.54	5.92	6.22	9	8.00
	14:46		Middle	1.5	22.70	22.70		8.18	8.18		31.78	31.78		75.3	75.5		5.41	5.42		5.87	6.54		7	
5/11/2010	18:34	Cloudy	Middle	2.5	19.22	19.23	19.19	8.41	8.41	8.41	30.57	30.49	30.51	57.3	53.4	55.3	5.00	4.12	4.37	2.38	2.18	2.26	3	3.50
	18:40		Middle	2.5	19.16	19.16		8.40	8.40		30.49	30.49		54.0	56.5		3.99	4.35		2.26	2.23		4	
7/11/2010	8:50	Sunny	Middle	2.5	22.96	22.96	22.92	8.25	8.25	8.25	31.36	31.36	31.37	55.0	51.7	54.4	3.94	3.71	3.90	5.37	6.19	5.75	10	9.00
	8:58		Middle	2.5	22.87	22.87		8.25	8.25		31.38	31.38		51.6	59.1		3.70	4.24		5.77	5.65		8	
9/11/2010	9:21	Sunny	Middle	1.5	22.40	22.50	22.48	8.13	8.13	8.14	31.90	31.90	31.91	71.8	71.0	71.2	5.20	5.11	5.14	7.51	6.74	6.78	7	7.50
	9:24		Middle	1.5	22.50	22.50		8.14	8.14		31.91	31.91		70.6	71.5		5.09	5.16		6.55	6.32		8	
12/11/2010	15:29	Sunny	Middle	1.5	21.80	21.80	21.75	8.01	8.01	8.01	31.87	31.87	31.87	76.1	76.9	75.9	5.55	5.61	5.54	3.88	3.85	4.11	7	6.50
	15:32		Middle	1.5	21.70	21.70		8.01	8.01		31.87	31.88		75.1	75.5		5.49	5.51		4.44	4.26		6	
15/11/2010	14:53	Sunny	Middle	1.5	23.10	23.10	23.05	8.15	8.15	8.16	32.05	32.05	32.06	76.6	78.9	78.3	5.46	5.62	5.58	7.31	7.02	6.88	7	7.00
	14:57		Middle	1.5	23.00	23.00		8.16	8.16		32.06	32.06		79.5	78.0		5.66	5.56		6.74	6.46		7	
17/11/2010	14:04	Fine	Middle	2.0	21.60	21.60	21.60	8.16	8.17	8.16	31.97	31.97	31.97	74.2	74.8	74.6	5.44	5.48	5.47	4.43	4.82	4.76	6	6.50
	14:09		Middle	2.0	21.60	21.60		8.16	8.15		31.97	31.97		75.0	74.4		5.50	5.46		4.47	5.32		7	
19/11/2010	16:07	Sunny	Middle	1.5	22.30	22.30	22.30	8.16	8.16	8.16	31.98	31.98	31.99	80.1	80.2	79.9	5.79	5.80	5.77	3.98	4.10	3.92	5	6.00
	16:10		Middle	1.5	22.30	22.30		8.16	8.16		31.99	31.99		80.4	78.7		5.81	5.68		3.77	3.83		7	
21/11/2010	18:38	Fine	Middle	2.5	23.48	23.57	23.55	8.23	8.23	8.23	31.78	31.78	31.78	66.8	67.5	66.9	4.73	4.77	4.73	2.79	2.75	2.63	5	4.00
	18:45		Middle	2.5	23.57	23.57		8.23	8.23		31.78	31.78		67.1	66.2		4.75	4.68		2.44	2.52		3	
23/11/2010	19:05	Fine	Middle	2.0	22.01	22.01	22.01	8.14	8.14	8.14	31.52	31.52	31.53	43.5	43.9	43.5	3.47	3.49	3.46	1.57	1.41	1.68	3	3.50
	19:12		Middle	2.0	22.00	22.00		8.14	8.14		31.54	31.54		43.1	43.4		3.43	3.46		2.14	1.58		4	
26/11/2010	10:45	Fine	Middle	1.5	21.50	21.50	21.45	8.15	8.15	8.15	31.60	31.60	31.55	92.9	92.8	92.7	6.91	6.89	6.88	4.29	3.68	3.93	6	6.00
	10:48		Middle	1.5	21.40	21.40		8.14	8.14		31.50	31.50		92.6	92.5		6.87	6.86		3.67	4.07		6	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
29/10/2010	21:18	Fine	Middle	1.5	19.91	19.91	19.82	8.18	8.18	8.17	31.29	31.29	31.38	55.4	59.3	56.2	4.19	4.50	4.27	3.80	3.96	3.89	7	8.00
	21:25		Middle	1.5	19.74	19.72		8.16	8.17		31.46	31.47		53.9	56.3		4.10	4.28		3.95	3.83		9	
1/11/2010	15:27	Sunny	Middle	1.5	23.30	23.40	23.35	8.19	8.19	8.19	31.72	31.72	31.72	78.3	77.8	77.5	5.62	5.58	5.56	2.78	2.64	2.67	8	9.00
	15:30		Middle	1.5	23.40	23.30		8.19	8.19		31.72	31.72		77.0	76.9		5.52	5.52		2.61	2.63		10	
3/11/2010	14:38	Sunny	Middle	1.5	22.60	22.60	22.58	8.18	8.18	8.18	31.72	31.72	31.73	73.2	72.8	72.7	5.26	5.23	5.23	4.34	4.96	4.73	6	6.00
	14:41		Middle	1.5	22.50	22.60		8.18	8.18		31.73	31.73		72.0	72.7		5.18	5.23		4.87	4.73		6	
5/11/2010	18:42	Cloudy	Middle	2.5	19.59	19.59	19.57	8.43	8.43	8.43	31.46	31.52	31.50	60.2	59.8	58.8	4.58	4.55	4.48	3.60	3.14	3.55	6	7.00
	18:49		Middle	2.5	19.54	19.54		8.43	8.43		31.50	31.50		60.6	54.5		4.62	4.15		3.71	3.75		8	
7/11/2010	9:00	Sunny	Middle	2.5	22.54	22.55	22.55	8.23	8.23	8.23	31.49	31.49	31.49	54.0	53.3	57.3	3.90	3.84	4.13	4.27	4.01	4.36	10	9.50
	9:05		Middle	2.5	22.55	22.54		8.22	8.23		31.48	31.48		61.4	60.3		4.43	4.36		4.22	4.95		9	
9/11/2010	9:28	Sunny	Middle	1.5	22.60	22.60	22.55	8.14	8.14	8.15	31.92	31.92	31.93	70.2	70.4	70.8	5.06	5.07	5.10	7.17	6.44	6.35	11	11.00
	9:31		Middle	1.5	22.50	22.50		8.15	8.15		31.93	31.93		70.5	71.9		5.09	5.19		5.99	5.80		11	
12/11/2010	15:20	Sunny	Middle	1.5	21.90	21.90	21.90	8.00	8.00	8.00	31.70	31.70	31.70	69.8	69.4	70.0	5.08	5.04	5.10	2.07	2.64	2.56	4	3.50
	15:23		Middle	1.5	21.90	21.90		8.00	8.00		31.70	31.70		70.4	70.4		5.13	5.13		2.80	2.72		3	
15/11/2010	14:46	Sunny	Middle	1.5	23.10	23.10	23.10	8.11	8.11	8.11	31.87	31.87	31.88	75.6	74.9	74.4	5.39	5.34	5.31	2.59	2.69	2.51	4	3.50
	14:50		Middle	1.5	23.10	23.10		8.10	8.10		31.88	31.88		73.5	73.6		5.24	5.25		2.38	2.36		3	
17/11/2010	13:56	Fine	Middle	2.0	21.80	21.80	21.80	8.12	8.12	8.12	31.87	31.87	31.87	72.9	72.0	71.9	5.34	5.27	5.27	2.34	2.08	2.23	5	5.00
	13:59		Middle	2.0	21.80	21.80		8.12	8.12		31.87	31.87		71.5	71.3		5.24	5.22		2.27	2.23		5	
19/11/2010	16:01	Sunny	Middle	1.5	22.50	22.50	22.50	8.14	8.14	8.14	31.92	31.92	31.92	79.0	78.7	79.0	5.69	5.66	5.69	2.58	2.33	2.55	6	7.00
	16:04		Middle	1.5	22.50	22.50		8.14	8.14		31.92	31.92		79.6	78.8		5.73	5.67		2.85	2.43		8	
21/11/2010	18:48	Fine	Middle	2.5	23.58	23.58	23.58	8.21	8.21	8.21	31.79	31.79	31.79	68.3	66.6	66.9	4.82	4.70	4.72	2.75	2.64	2.55	3	3.50
	18:55		Middle	2.5	23.58	23.59		8.21	8.21		31.79	31.79		66.4	66.1		4.69	4.67		2.55	2.27		4	
23/11/2010	19:13	Fine	Middle	2.0	21.87	21.87	21.87	8.19	8.19	8.19	31.53	31.53	31.53	46.7	46.8	46.7	3.41	3.48	3.45	2.12	1.80	1.86	2	2.50
	19:19		Middle	2.0	21.87	21.87		8.19	8.19		31.53	31.53		46.6	46.8		3.40	3.49		1.86	1.67		3	
26/11/2010	10:51	Fine	Middle	1.5	21.40	21.40	21.35	8.14	8.14	8.14	31.70	31.70	31.75	92.8	92.7	92.5	6.89	6.88	6.87	3.86	4.16	3.81	10	9.00
	10:54		Middle	1.5	21.30	21.30		8.14	8.14		31.80	31.80		92.4	92.2		6.86	6.85		3.78	3.42		8	



**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		
					°C			-			ppt			%			mg/L		NTU			mg/L		
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/10/2010	20:45	Fine	Middle	2.0	20.52	20.55	20.49	8.31	8.31	8.31	31.16	31.16	31.16	51.6	57.2	55.0	3.87	4.30	4.13	3.57	3.68	3.43	6	7.00
	20:53		Middle	2.0	20.45	20.43		8.31	8.31		31.16	31.16		56.8	54.3		4.27	4.08		3.35	3.11		8	
1/11/2010	16:04	Sunny	Middle	1.5	23.50	23.50	23.50	8.18	8.18	8.18	31.70	31.70	31.70	74.9	69.7	71.2	5.51	5.01	5.15	3.05	3.16	2.99	4	4.00
	16:07		Middle	1.5	23.50	23.50		8.18	8.18		31.70	31.70		70.2	69.9		5.05	5.02		2.86	2.89		4	
3/11/2010	15:15	Sunny	Middle	1.5	22.50	22.60	22.53	8.17	8.17	8.17	31.83	31.83	31.83	72.4	70.8	72.0	5.21	5.10	5.18	3.90	4.08	4.04	5	6.00
	15:18		Middle	1.5	22.50	22.50		8.17	8.17		31.83	31.83		72.5	72.2		5.22	5.20		4.75	3.43		7	
5/11/2010	17:57	Cloudy	Middle	2.0	21.40	21.40	21.40	8.36	8.37	8.37	31.56	31.56	31.56	48.6	48.4	50.2	3.58	3.56	3.69	3.48	3.63	3.61	5	4.50
	18:09		Middle	2.0	21.40	21.39		8.37	8.37		31.56	31.56		48.4	55.3		3.56	4.07		3.71	3.60		4	
7/11/2010	8:11	Sunny	Middle	2.0	22.70	22.72	22.71	8.24	8.24	8.25	31.38	31.38	31.38	53.8	55.4	54.5	3.87	3.99	3.92	3.14	3.39	3.22	6	5.50
	8:18		Middle	2.0	22.70	22.72		8.25	8.25		31.38	31.38		56.8	52.0		4.08	3.74		3.42	2.93		5	
9/11/2010	9:50	Sunny	Middle	1.5	23.00	23.00	22.95	8.11	8.11	8.12	31.68	31.68	31.69	72.8	73.3	73.2	5.25	5.29	5.29	3.86	4.13	3.77	6	5.50
	9:53		Middle	1.5	22.90	22.90		8.12	8.12		31.69	31.69		73.8	73.0		5.33	5.27		3.64	3.45		5	
12/11/2010	16:03	Sunny	Middle	1.5	21.90	21.90	21.90	8.05	8.05	8.05	31.90	31.90	31.90	71.7	71.6	71.2	5.22	5.21	5.18	6.06	6.15	5.23	7	6.00
	16:08		Middle	1.5	21.90	21.90		8.05	8.05		31.90	31.90		70.5	71.0		5.13	5.17		4.59	4.10		5	
15/11/2010	15:36	Sunny	Middle	1.5	23.00	23.00	23.00	8.17	8.17	8.17	32.07	32.07	32.08	80.1	80.0	80.6	5.71	5.70	5.74	6.38	6.02	5.87	5	6.00
	15:39		Middle	1.5	23.00	23.00		8.17	8.17		32.08	32.08		81.3	80.8		5.79	5.76		5.65	5.42		7	
17/11/2010	14:38	Fine	Middle	2.0	21.80	21.80	21.80	8.17	8.17	8.18	32.00	32.00	32.00	79.4	79.7	79.7	5.80	5.82	5.82	2.85	3.24	3.10	6	5.50
	14:41		Middle	2.0	21.80	21.80		8.18	8.18		31.99	31.99		80.2	79.4		5.86	5.80		3.09	3.22		5	
19/11/2010	16:42	Sunny	Middle	1.5	22.40	22.40	22.40	8.15	8.15	8.15	32.06	32.06	32.06	77.3	77.5	77.3	5.57	5.58	5.57	1.99	1.93	1.85	4	5.00
	16:46		Middle	1.5	22.40	22.40		8.15	8.15		32.06	32.06		77.0	77.4		5.55	5.58		1.70	1.78		6	
21/11/2010	18:09	Fine	Middle	2.0	22.57	22.57	22.57	8.15	8.15	8.16	31.77	31.77	31.77	54.6	57.0	56.4	3.93	4.10	4.06	2.90	2.64	2.73	3	2.50
	18:14		Middle	2.0	22.57	22.57		8.16	8.16		31.77	31.77		57.5	56.3		4.14	4.05		2.80	2.58		2	
23/11/2010	18:21	Fine	Middle	2.0	22.27	22.27	22.27	8.14	8.14	8.14	31.45	31.45	31.45	50.1	47.3	49.2	3.53	3.42	3.54	2.76	2.95	2.75	5	5.00
	18:27		Middle	2.0	22.27	22.27		8.14	8.14		31.45	31.46		49.6	49.7		3.60	3.60		2.61	2.67		5	
26/11/2010	11:25	Fine	Middle	1.5	21.40	21.40	21.45	8.15	8.15	8.15	31.60	31.60	31.65	90.7	90.4	90.4	6.72	6.71	6.70	3.05	2.96	2.99	6	5.00
	11:28		Middle	1.5	21.50	21.50		8.15	8.16		31.70	31.70		90.2	90.1		6.69	6.68		2.99	2.94		4	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
29/10/2010	20:54	Fine	Middle	2.0	20.56	20.55	20.48	8.40	8.40	8.40	31.28	31.28	31.29	56.0	52.0	53.6	4.20	3.90	4.04	6.36	7.06	6.90	12	12.00
	20:59		Middle	2.0	20.40	20.40		8.40	8.41		8.40	31.29		31.30	31.29		54.0	52.2		53.6	4.05		4.00	
1/11/2010	16:16	Sunny	Middle	1.5	23.40	23.50	23.43	8.20	8.20	8.20	31.73	31.73	31.73	72.6	74.8	73.4	5.21	5.37	5.27	2.33	2.17	2.17	4	5.00
	16:20		Middle	1.5	23.40	23.40		8.20	8.20		8.20	31.73		31.73	31.73		73.0	73.2		73.4	5.24		5.25	
3/11/2010	15:24	Sunny	Middle	1.5	22.50	22.50	22.53	8.19	8.19	8.19	31.74	31.74	31.74	76.9	75.8	76.3	5.54	5.45	5.50	5.06	4.35	4.65	8	7.00
	15:28		Middle	1.5	22.60	22.50		8.19	8.20		8.19	31.74		31.74	31.74		75.9	76.7		76.3	5.47		5.53	
5/11/2010	18:11	Cloudy	Middle	2.0	21.44	21.44	21.44	8.39	8.39	8.39	31.49	31.49	31.49	47.8	47.4	49.1	3.52	3.51	3.62	5.95	6.12	6.18	13	14.50
	18:18		Middle	2.0	21.43	21.43		8.39	8.39		8.39	31.49		31.49	31.49		47.2	54.1		49.1	3.47		3.98	
7/11/2010	8:20	Sunny	Middle	2.0	22.75	22.76	22.74	8.27	8.27	8.27	31.47	31.47	31.47	54.6	56.1	55.4	3.92	4.03	3.98	3.36	3.49	3.47	8	7.50
	8:26		Middle	2.0	22.72	22.72		8.27	8.27		8.27	31.47		31.48	31.47		55.8	55.0		55.4	4.01		3.95	
9/11/2010	9:56	Sunny	Middle	1.5	22.90	22.90	22.93	8.07	8.07	8.08	31.77	31.76	31.76	68.4	68.7	69.0	4.93	4.95	4.98	3.90	4.28	4.05	8	7.50
	9:59		Middle	1.5	22.90	23.00		8.08	8.08		8.08	31.76		31.76	31.76		69.0	70.0		69.0	4.97		5.05	
12/11/2010	16:10	Sunny	Middle	1.5	21.50	21.50	21.50	8.00	8.00	8.00	31.92	31.92	31.93	69.4	68.4	68.8	5.08	5.02	5.05	3.42	3.40	3.22	3	3.50
	16:14		Middle	1.5	21.50	21.50		8.00	8.00		8.00	31.93		31.93	31.93		69.0	68.5		68.8	5.06		5.02	
15/11/2010	15:46	Sunny	Middle	1.5	22.90	22.90	22.95	8.11	8.11	8.11	31.57	31.57	31.55	76.4	76.3	76.1	5.46	5.46	5.47	4.55	4.23	4.21	7	8.00
	15:50		Middle	1.5	23.00	23.00		8.11	8.11		8.11	31.52		31.52	31.55		77.9	73.9		76.1	5.59		5.38	
17/11/2010	14:47	Fine	Middle	2.0	21.50	21.50	21.50	8.14	8.14	8.14	32.09	32.09	32.09	76.7	73.0	74.7	5.64	5.36	5.49	3.03	2.88	2.99	6	6.00
	14:50		Middle	2.0	21.50	21.50		8.14	8.14		8.14	32.09		32.09	32.09		74.0	74.9		74.7	5.44		5.50	
19/11/2010	16:53	Sunny	Middle	1.5	22.40	22.40	22.40	8.18	8.18	8.18	32.05	32.05	32.06	78.5	79.5	79.3	5.66	5.73	5.71	2.90	2.98	2.92	10	9.00
	16:56		Middle	1.5	22.40	22.40		8.18	8.18		8.18	32.06		32.06	32.06		80.2	78.9		79.3	5.76		5.68	
21/11/2010	18:18	Fine	Middle	2.0	22.87	22.87	22.86	8.05	8.05	8.05	31.72	31.72	31.72	50.6	50.0	49.1	3.63	3.60	3.53	1.69	1.46	1.54	3	3.00
	18:25		Middle	2.0	22.85	22.85		8.05	8.05		8.05	31.72		31.72	31.72		47.6	48.0		49.1	3.41		3.49	
23/11/2010	18:28	Fine	Middle	2.0	22.35	22.35	22.35	8.11	8.11	8.11	31.47	31.47	31.47	50.3	50.0	49.6	3.64	3.61	3.58	1.94	1.74	1.81	5	4.50
	18:34		Middle	2.0	22.35	22.35		8.11	8.11		8.11	31.47		31.47	31.47		50.1	47.9		49.6	3.62		3.46	
26/11/2010	11:31	Fine	Middle	1.5	21.50	21.50	21.53	8.08	8.08	8.09	31.60	31.60	31.55	86.2	85.9	85.8	6.36	6.33	6.33	2.73	2.48	2.46	5	4.00
	11:34		Middle	1.5	21.50	21.60		8.09	8.09		8.09	31.50		31.50	31.55		85.6	85.5		85.8	6.31		6.30	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	20:39	Fine	Middle	2.5	20.30	20.30	20.30	8.37	8.38	8.38	31.28	31.28	31.28	66.4	67.8	66.8	5.00	5.10	5.02	6.50	6.31	6.42	12	11.00
	20:44		Middle	2.5	20.29	20.29		8.37	8.38		31.28	31.28		65.7	67.2		4.94	5.05		6.76	6.09		10	
1/11/2010	15:48	Sunny	Middle	2.5	22.80	22.80	22.80	8.20	8.20	8.20	31.76	31.76	31.76	68.1	70.8	70.1	4.88	5.08	5.02	3.65	3.49	3.36	8	7.50
	15:52		Middle	2.5	22.80	22.80		8.20	8.20		31.76	31.76		70.7	70.6		5.07	5.06		3.10	3.18		7	
3/11/2010	15:00	Sunny	Middle	2.5	22.60	22.60	22.55	8.20	8.20	8.21	31.83	31.83	31.83	78.7	79.2	78.5	5.66	5.70	5.65	5.56	6.15	6.36	10	9.50
	15:04		Middle	2.5	22.50	22.50		8.21	8.21		31.82	31.82		78.2	78.0		5.63	5.62		7.25	6.47		9	
5/11/2010	17:49	Cloudy	Middle	3.0	19.15	19.15	19.15	8.49	8.49	8.49	31.41	31.41	31.42	64.8	57.7	57.6	4.97	4.43	4.42	4.65	4.22	4.24	7	6.50
	17:55		Middle	3.0	19.15	19.15		8.48	8.48		31.42	31.42		52.5	55.3		4.03	4.24		4.07	4.01		6	
7/11/2010	7:57	Sunny	Middle	3.0	23.25	23.25	23.25	8.31	8.31	8.31	31.53	31.53	31.53	54.6	53.4	53.4	3.89	3.81	3.81	5.91	5.17	5.83	9	8.50
	8:06		Middle	3.0	23.25	23.25		8.31	8.31		31.53	31.53		51.9	53.6		3.70	3.82		6.13	6.10		8	
9/11/2010	9:42	Sunny	Middle	2.0	22.80	22.80	22.75	8.12	8.12	8.12	31.82	31.82	31.82	74.5	74.7	75.0	5.37	5.39	5.41	5.89	5.63	5.52	12	11.00
	9:45		Middle	2.0	22.70	22.70		8.11	8.11		31.83	31.82		75.1	75.5		5.42	5.45		5.39	5.18		10	
12/11/2010	15:50	Sunny	Middle	2.5	21.60	21.60	21.60	8.06	8.06	8.06	31.90	31.91	31.91	76.9	72.0	74.4	5.63	5.27	5.45	6.10	6.31	5.72	9	8.50
	15:54		Middle	2.5	21.60	21.60		8.06	8.06		31.91	31.91		74.5	74.1		5.45	5.43		4.90	5.55		8	
15/11/2010	15:16	Sunny	Middle	2.5	22.90	22.90	22.90	8.17	8.17	8.17	32.07	32.07	32.07	85.7	83.7	84.3	6.12	5.96	6.02	5.97	5.52	5.64	7	8.00
	15:20		Middle	2.5	22.90	22.90		8.17	8.17		32.07	32.07		86.1	81.6		6.15	5.83		5.64	5.43		9	
17/11/2010	14:20	Fine	Middle	2.5	21.60	21.60	21.60	8.18	8.18	8.18	32.06	32.06	32.06	74.2	74.6	75.1	5.43	5.46	5.50	5.95	6.30	6.16	13	12.00
	14:25		Middle	2.5	21.60	21.60		8.18	8.18		32.06	32.06		75.6	75.9		5.53	5.56		5.84	6.55		11	
19/11/2010	16:25	Sunny	Middle	2.0	22.20	22.20	22.20	8.18	8.18	8.18	32.04	32.04	32.04	78.0	79.2	79.0	5.64	5.73	5.71	3.43	2.97	3.14	5	5.50
	16:29		Middle	2.0	22.20	22.20		8.18	8.18		32.04	32.04		80.2	78.5		5.80	5.68		3.05	3.12		6	
21/11/2010	18:00	Fine	Middle	2.0	22.69	22.75	22.74	8.25	8.25	8.25	31.40	31.40	31.40	66.4	65.2	65.9	4.77	4.68	4.73	1.74	1.80	1.75	4	3.50
	18:06		Middle	2.0	22.76	22.76		8.25	8.25		31.40	31.39		65.8	66.1		4.72	4.75		1.61	1.83		3	
23/11/2010	18:11	Fine	Middle	2.5	22.35	22.38	22.37	8.26	8.26	8.26	31.50	31.50	31.50	63.6	62.5	63.4	4.60	4.52	4.59	2.16	2.35	2.30	4	5.00
	18:19		Middle	2.5	22.38	22.38		8.26	8.26		31.50	31.50		63.6	64.0		4.60	4.63		2.22	2.46		6	
26/11/2010	11:05	Fine	Middle	2.0	21.60	21.60	21.65	8.14	8.14	8.14	31.60	31.60	31.65	90.4	90.1	90.0	6.69	6.67	6.66	2.87	2.50	2.58	5	6.00
	11:08		Middle	2.0	21.70	21.70		8.13	8.13		31.70	31.70		89.9	89.4		6.66	6.63		2.48	2.46		7	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt			%		mg/L		NTU		mg/L				
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	21:49	Fine	Middle	2.0	20.13	20.17	20.19	8.38	8.38	8.38	31.29	31.29	31.29	69.2	69.8	69.7	5.21	5.26	5.25	4.74	4.67	4.62	6	7.00
	21:55		Middle	2.0	20.23	20.23		8.38	8.38		31.28	31.28		70.4	69.3		5.30	5.22		4.48	4.60		8	
1/11/2010	15:10	Sunny	Middle	1.5	24.00	24.00	24.05	8.30	8.30	8.25	32.02	32.02	31.99	80.5	79.1	79.5	5.63	5.53	5.56	5.40	4.39	4.63	8	8.00
	15:13		Middle	1.5	24.10	24.10		8.20	8.20		31.95	31.95		79.0	79.4		5.52	5.55		4.38	4.33		8	
3/11/2010	14:10	Sunny	Middle	2.0	23.40	23.40	23.45	8.22	8.22	8.22	32.10	32.10	32.08	77.3	76.5	76.0	5.40	5.34	5.31	6.33	6.25	5.81	11	12.00
	14:13		Middle	2.0	23.50	23.50		8.21	8.21		32.06	32.06		76.1	74.2		5.31	5.18		5.68	4.97		13	
5/11/2010	19:03	Cloudy	Middle	2.5	21.16	21.16	21.10	8.31	8.31	8.31	31.51	31.51	31.51	56.2	56.8	55.6	4.17	4.21	4.12	4.79	4.45	4.65	9	8.50
	19:10		Middle	2.5	21.04	21.04		8.30	8.30		31.51	31.51		55.3	54.1		4.10	4.01		4.62	4.72		8	
7/11/2010	9:28	Sunny	Middle	2.5	23.14	23.19	23.18	8.29	8.29	8.30	31.50	31.50	31.50	55.9	56.0	57.3	3.98	3.99	4.09	6.35	6.31	6.64	8	9.00
	9:37		Middle	2.5	23.20	23.20		8.31	8.30		31.50	31.50		57.9	59.5		4.13	4.24		6.89	6.99		10	
9/11/2010	11:18	Sunny	Middle	1.5	23.50	23.50	23.55	8.16	8.16	8.15	32.02	32.02	32.03	73.0	72.3	73.4	5.15	5.10	5.18	5.89	6.10	6.05	10	10.00
	11:21		Middle	1.5	23.60	23.60		8.14	8.14		32.04	32.04		74.5	73.8		5.26	5.21		6.39	5.80		10	
12/11/2010	14:55	Sunny	Middle	1.5	23.06	23.06	23.05	7.87	7.87	7.85	31.40	31.40	31.45	83.3	82.5	83.6	5.96	5.90	5.98	5.16	4.66	5.00	10	10.50
	14:58		Middle	1.5	23.04	23.04		7.82	7.82		31.49	31.49		85.0	83.7		6.07	5.98		4.54	5.62		11	
15/11/2010	14:18	Sunny	Middle	1.5	23.42	23.42	23.46	7.71	7.71	7.71	31.90	31.90	31.91	78.8	77.9	78.2	5.65	5.58	5.61	5.22	4.97	4.98	7	7.50
	14:21		Middle	1.5	23.49	23.50		7.70	7.70		31.91	31.91		78.4	77.7		5.63	5.57		4.84	4.88		8	
17/11/2010	13:40	Fine	Middle	1.5	23.41	23.41	23.44	7.81	7.81	7.81	31.70	31.70	31.67	83.3	80.6	83.1	5.92	5.72	5.90	6.12	5.67	5.40	12	12.00
	13:43		Middle	1.5	23.46	23.46		7.81	7.81		31.64	31.64		84.8	83.6		6.02	5.93		4.97	4.84		12	
19/11/2010	18:54	Sunny	Middle	2.5	22.15	22.15	22.19	7.79	7.79	7.79	31.59	31.59	31.59	70.6	69.9	69.5	5.12	5.12	5.09	3.88	3.53	3.71	3	3.50
	19:02		Middle	2.5	22.15	22.31		7.78	7.78		31.59	31.59		69.5	68.0		5.03	5.10		3.69	3.74		4	
21/11/2010	19:13	Fine	Middle	2.5	23.40	23.40	23.40	8.16	8.16	8.16	31.87	31.87	31.87	62.9	61.9	61.8	4.46	4.39	4.39	3.50	3.52	3.51	7	6.50
	19:20		Middle	2.5	23.40	23.40		8.16	8.16		31.87	31.87		60.6	61.9		4.30	4.39		3.46	3.54		6	
23/11/2010	19:50	Fine	Middle	2.5	22.63	22.63	22.43	8.25	8.25	8.22	31.47	31.47	31.47	60.3	60.8	60.5	4.38	4.41	4.39	3.29	3.10	3.07	4	4.00
	20:00		Middle	2.5	22.22	22.22		8.19	8.20		31.47	31.47		60.7	60.2		4.40	4.37		2.98	2.91		4	
26/11/2010	11:20	Fine	Middle	1.5	22.40	22.40	22.45	8.17	8.17	8.17	31.87	31.87	31.90	82.6	82.0	82.3	5.95	5.90	5.92	4.69	4.30	4.35	9	8.50
	11:23		Middle	1.5	22.50	22.50		8.16	8.16		31.92	31.92		82.5	81.9		5.94	5.90		4.17	4.22		8	



**Water Monitoring Result at WSD20 - Kennedy Town
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
					°C			-			ppt			%			mg/L			NTU			mg/L	
			m		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average		Value	Average
29/10/2010	21:40	Fine	Middle	2.0	20.47	20.47	20.46	8.52	8.53	8.54	31.43	31.42	31.43	58.0	53.0	54.9	4.45	4.36	4.43	5.09	4.97	5.02	7	6.50
	21:44		Middle	2.0	20.48	20.40		8.55	8.55		31.44	31.42		31.43	52.9		55.6	4.35		4.57	5.04		4.97	
1/11/2010	13:28	Sunny	Middle	1.5	23.70	23.70	23.70	8.31	8.31	8.31	31.98	31.98	31.97	77.4	76.7	77.3	5.45	5.40	5.44	6.88	6.72	6.72	12	13.50
	13:31		Middle	1.5	23.70	23.70		8.30	8.30		31.95	31.95		31.97	78.0		77.2	5.48		5.41	6.54		6.74	
3/11/2010	13:50	Sunny	Middle	1.5	24.00	24.00	24.00	8.24	8.24	8.24	32.00	32.00	32.00	75.2	73.6	75.0	5.27	5.16	5.26	4.47	3.92	4.17	9	8.00
	13:54		Middle	1.5	24.00	24.00		8.23	8.23		32.00	32.01		32.00	76.0		75.0	5.33		5.26	4.21		4.06	
5/11/2010	18:39	Cloudy	Middle	2.0	21.49	21.49	21.49	8.44	8.44	8.46	30.52	30.52	30.53	59.5	55.3	59.0	4.40	4.09	4.36	4.98	4.32	4.61	10	9.00
	18:44		Middle	2.0	21.48	21.48		8.47	8.47		30.53	30.53		30.53	62.0		59.0	4.58		4.36	4.84		4.31	
7/11/2010	9:09	Sunny	Middle	2.0	22.86	22.86	22.86	8.26	8.26	8.28	31.69	31.69	31.69	53.5	55.1	53.9	3.84	3.95	3.86	4.78	4.74	5.04	11	10.00
	9:14		Middle	2.0	22.86	22.86		8.29	8.29		31.69	31.69		31.69	54.7		52.2	3.92		3.74	5.34		5.28	
9/11/2010	11:45	Sunny	Middle	1.5	23.20	23.20	23.25	8.23	8.23	8.24	32.14	32.14	32.14	83.0	81.1	82.2	5.89	5.76	5.83	16.60	16.30	16.28	27	26.00
	11:48		Middle	1.5	23.30	23.30		8.25	8.25		32.14	32.14		32.14	82.7		81.9	5.87		5.81	16.20		16.00	
12/11/2010	14:30	Sunny	Middle	1.5	23.33	23.33	23.37	8.24	8.24	8.24	31.22	31.22	31.32	85.0	84.2	84.7	6.03	5.98	6.01	6.79	6.82	6.72	10	10.00
	14:33		Middle	1.5	23.40	23.40		8.23	8.23		31.41	31.41		31.32	85.4		84.1	6.06		5.97	6.01		6.19	
15/11/2010	13:57	Sunny	Middle	1.5	23.26	23.26	23.25	7.77	7.77	7.77	32.10	32.10	32.12	87.1	86.5	86.4	6.13	6.09	6.08	6.01	5.62	5.67	5	6.00
	14:00		Middle	1.5	23.23	23.23		7.76	7.76		32.14	32.14		32.12	86.4		85.5	6.09		6.01	5.83		5.22	
17/11/2010	13:20	Fine	Middle	1.5	23.22	23.22	23.26	7.91	7.91	7.89	31.72	31.72	31.70	83.8	81.2	82.9	5.97	5.80	5.91	6.45	6.97	6.57	13	14.00
	13:23		Middle	1.5	23.30	23.30		7.86	7.86		31.67	31.67		31.70	84.0		82.4	5.99		5.87	6.50		6.34	
19/11/2010	18:41	Sunny	Middle	1.5	23.17	23.17	23.21	7.85	7.85	7.86	31.89	31.89	31.89	70.0	69.3	68.4	4.95	4.93	4.86	4.49	4.38	4.37	4	3.50
	18:47		Middle	1.5	23.25	23.25		7.86	7.86		31.89	31.89		31.89	69.9		64.3	4.97		4.57	4.07		4.55	
21/11/2010	18:55	Fine	Middle	1.5	23.19	23.19	23.19	8.25	8.25	8.25	31.99	31.99	31.99	60.8	58.1	60.3	4.32	4.13	4.32	3.26	3.15	3.17	5	4.00
	19:00		Middle	1.5	23.19	23.19		8.24	8.25		31.99	31.99		31.99	60.1		62.3	4.38		4.43	3.09		3.19	
23/11/2010	19:29	Fine	Middle	2.0	22.10	22.10	22.10	8.20	8.20	8.20	31.49	31.49	31.49	47.9	47.9	48.5	3.67	3.67	3.70	3.48	3.87	3.68	5	5.50
	19:34		Middle	2.0	22.10	22.10		8.20	8.20		31.49	31.49		31.49	50.3		48.0	3.75		3.70	3.72		3.66	
26/11/2010	11:00	Fine	Middle	1.5	22.00	22.00	21.95	8.28	8.28	8.28	31.94	31.94	31.81	88.5	87.8	88.0	6.43	6.38	6.40	5.97	6.13	5.78	10	10.50
	11:03		Middle	1.5	21.90	21.90		8.28	8.28		31.68	31.68		31.81	88.3		87.4	6.42		6.35	5.66		5.37	



**Water Monitoring Result at WSD7 - Kowloon South
Mid-Flood Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation		DO		Turbidity		Suspended Solids				
					°C			-			ppt		%		mg/L		NTU		mg/L					
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average			
29/10/2010	19:56	Fine	Middle	2.0	20.76	20.76	20.79	8.42	8.42	8.42	31.22	31.22	31.22	54.9	54.4	54.7	4.09	4.05	4.08	5.78	5.92	5.88	9	9.50
	20:02		Middle	2.0	20.81	20.81		8.42	8.42		31.22	31.22		52.2	57.4		3.89	4.28		5.98	5.82		10	
1/11/2010	15:40	Sunny	Middle	1.5	24.50	24.50	24.70	8.19	8.19	8.21	31.95	31.95	31.99	77.8	77.1	77.6	5.38	5.33	5.36	5.30	5.18	5.23	12	10.50
	15:43		Middle	1.5	24.90	24.90		8.22	8.22		32.02	32.02		78.5	77.0		5.42	5.32		5.24	5.20		9	
3/11/2010	14:40	Sunny	Middle	1.5	24.10	24.10	24.10	8.45	8.45	8.49	31.95	31.95	31.95	75.5	74.4	75.4	5.28	5.21	5.28	4.70	4.62	4.64	13	12.00
	14:44		Middle	1.5	24.10	24.10		8.53	8.53		31.95	31.95		76.3	75.5		5.33	5.28		4.68	4.54		11	
5/11/2010	20:12	Cloudy	Middle	1.5	19.08	19.08	19.07	8.34	8.34	8.34	31.60	31.60	31.61	54.2	58.3	56.7	4.16	4.48	4.35	8.54	8.74	8.53	12	12.00
	20:19		Middle	1.5	19.05	19.05		8.34	8.34		31.61	31.61		59.7	54.4		4.58	4.18		8.57	8.28		12	
7/11/2010	6:37	Sunny	Middle	1.5	22.83	22.83	22.92	8.21	8.21	8.22	31.63	31.61	31.62	54.5	54.5	54.9	3.90	3.89	3.92	5.11	5.37	5.14	9	9.50
	6:45		Middle	1.5	23.00	23.00		8.22	8.22		31.61	31.61		58.0	52.4		4.14	3.74		4.76	5.33		10	
9/11/2010	8:14	Sunny	Middle	1.5	23.40	23.40	23.50	8.07	8.07	8.07	32.01	32.01	32.07	76.0	75.1	75.3	5.36	5.30	5.31	4.44	4.32	4.36	12	11.50
	8:17		Middle	1.5	23.60	23.60		8.06	8.06		32.13	32.13		75.7	74.3		5.34	5.23		4.42	4.24		11	
12/11/2010	14:08	Sunny	Middle	1.5	23.11	23.11	23.11	8.06	8.06	8.06	31.75	31.75	31.75	64.6	63.8	65.0	4.46	4.41	4.49	4.27	4.06	4.14	11	11.00
	14:10		Middle	1.5	23.11	23.11		8.06	8.06		31.75	31.75		64.1	67.4		4.43	4.66		4.10	4.12		11	
15/11/2010	14:35	Sunny	Middle	1.5	23.54	23.54	23.57	7.75	7.75	7.74	31.86	31.86	31.88	86.9	86.0	86.0	6.14	6.09	6.08	4.72	4.33	4.39	6	7.00
	14:38		Middle	1.5	23.60	23.60		7.73	7.73		31.89	31.91		86.1	84.8		6.09	5.99		4.12	4.37		8	
17/11/2010	14:02	Fine	Middle	1.5	23.13	23.13	23.14	7.77	7.77	7.77	31.69	31.69	31.69	87.5	84.4	86.0	6.24	6.01	6.13	3.65	3.37	3.29	8	7.00
	14:05		Middle	1.5	23.15	23.15		7.77	7.77		31.69	31.69		85.5	86.5		6.09	6.17		2.99	3.14		6	
19/11/2010	16:10	Sunny	Middle	1.5	24.83	24.83	24.85	7.97	7.97	7.96	31.56	31.56	31.55	81.2	85.1	82.8	5.62	5.89	5.73	2.81	2.66	2.74	2	2.00
	16:15		Middle	1.5	24.93	24.82		7.95	7.95		31.56	31.50		82.4	82.5		5.71	5.71		2.84	2.65		2	
21/11/2010	16:30	Fine	Middle	1.5	24.79	24.79	24.81	7.97	7.97	7.97	31.98	31.98	31.97	66.9	66.5	65.7	4.63	4.60	4.55	2.72	2.70	2.57	4	3.50
	16:35		Middle	1.5	24.82	24.82		7.96	7.96		31.95	31.95		63.9	65.6		4.42	4.53		2.46	2.40		3	
23/11/2010	17:10	Fine	Middle	1.5	23.44	23.44	23.42	8.09	8.09	8.10	31.51	31.51	31.52	51.1	52.8	52.0	3.63	3.66	3.67	2.76	2.60	2.62	5	5.00
	17:16		Middle	1.5	23.40	23.40		8.12	8.10		31.52	31.52		51.7	52.3		3.67	3.71		2.53	2.58		5	
26/11/2010	8:32	Fine	Middle	1.5	21.90	21.90	21.80	7.92	7.92	7.95	31.93	31.93	32.04	83.4	82.5	83.1	6.07	6.01	6.05	4.37	4.24	3.95	6	7.00
	8:35		Middle	1.5	21.70	21.70		7.97	7.97		32.16	32.15		83.6	82.7		6.09	6.02		3.65	3.52		8	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	3:47	Fine	Middle	2.0	20.30	20.31	20.31	8.22	8.22	8.22	31.62	31.62	31.62	88.6	83.4	86.0	6.65	6.26	6.46	3.64	3.45	3.87	6	6.00
	3:53		Middle	2.0	20.31	20.31		8.22	8.22		31.62	31.62		83.8	88.2		6.29	6.62		4.21	4.19		6	
30/10/2010	5:21	Fine	Middle	2.0	19.75	19.75	19.73	8.54	8.54	8.54	32.02	32.02	32.03	52.8	54.4	53.3	4.00	4.12	4.03	5.67	5.48	5.55	8	7.00
	5:27		Middle	2.0	19.70	19.70		8.54	8.55		32.03	32.03		52.3	53.5		3.96	4.05		5.42	5.62		6	
1/11/2010	7:02	Sunny	Middle	2.0	23.10	23.10	23.10	8.23	8.23	8.24	31.89	31.89	31.90	76.0	75.6	75.8	5.42	5.40	5.41	3.38	3.22	3.18	5	5.50
	7:05		Middle	2.0	23.10	23.10		8.24	8.24		31.90	31.90		76.2	75.5		5.44	5.39		3.10	3.01		6	
3/11/2010	8:31	Sunny	Middle	2.0	22.80	22.80	22.75	8.15	8.15	8.16	32.28	32.28	32.29	83.5	82.6	82.9	5.97	5.91	5.93	4.20	4.34	4.24	6	5.50
	8:34		Middle	2.0	22.70	22.70		8.17	8.16		32.30	32.30		84.2	81.4		6.00	5.82		4.22	4.18		5	
5/11/2010	9:42	Rainy	Middle	2.0	21.10	21.10	21.00	8.32	8.32	8.31	32.13	32.13	32.18	83.1	82.2	82.4	6.17	6.08	6.10	4.93	4.98	4.90	6	6.00
	9:46		Middle	2.0	20.90	20.90		8.30	8.30		32.23	32.23		82.7	81.5		6.12	6.03		4.90	4.78		6	
7/11/2010	13:46	Sunny	Middle	2.5	26.15	26.18	26.15	8.35	8.35	8.35	31.89	31.89	31.89	58.6	51.5	54.6	3.97	3.48	3.70	3.20	2.87	2.97	6	5.50
	13:52		Middle	2.5	26.13	26.13		8.35	8.35		31.89	31.89		54.7	53.6		3.70	3.63		3.13	2.67		5	
10/11/2010	1:57	Cloudy	Middle	2.0	23.01	23.02	23.17	7.80	7.80	7.80	30.56	30.56	30.56	70.6	72.0	75.0	5.05	5.15	5.29	3.67	3.35	3.65	6	5.50
	2:10		Middle	2.0	23.35	23.30		7.80	7.80		30.56	30.56		78.5	78.9		5.32	5.64		3.62	3.95		5	
12/11/2010	3:22	Fine	Middle	2.0	22.35	22.35	22.41	7.77	7.77	7.79	31.32	31.30	31.31	56.3	54.8	53.7	4.70	3.96	4.04	2.79	2.90	2.86	10	10.00
	3:29		Middle	2.0	22.46	22.46		7.80	7.80		31.30	31.30		51.8	51.7		3.74	3.74		2.71	3.05		10	
15/11/2010	6:34	Fine	Middle	2.0	22.73	22.73	22.75	8.08	8.08	8.05	31.83	31.83	31.85	85.6	84.9	85.8	6.12	6.05	6.13	1.60	1.89	1.69	10	9.00
	6:37		Middle	2.0	22.77	22.77		8.02	8.02		31.87	31.87		86.9	85.8		6.21	6.13		1.60	1.68		8	
17/11/2010	8:55	Fine	Middle	2.0	22.27	22.28	22.33	8.23	8.23	8.22	31.48	31.48	31.48	87.7	86.9	87.9	6.35	6.28	6.35	2.85	2.73	2.72	6	5.00
	8:58		Middle	2.0	22.39	22.39		8.20	8.20		31.47	31.47		89.2	87.6		6.44	6.33		2.74	2.57		4	
19/11/2010	0:01	Fine	Middle	2.0	21.72	21.72	21.72	8.31	8.31	8.32	31.12	31.12	31.12	62.4	66.3	64.1	4.94	4.86	4.89	2.18	2.33	2.26	<2	<2
	0:09		Middle	2.0	21.72	21.72		8.32	8.32		31.11	31.11		62.7	64.9		4.82	4.92		2.14	2.40		<2	
22/11/2010	1:00	Fine	Middle	2.0	23.68	23.68	23.70	8.28	8.28	8.28	31.90	31.90	31.90	60.2	61.6	61.3	4.25	4.35	4.36	2.32	2.21	2.15	6	5.00
	1:07		Middle	2.0	23.71	23.71		8.28	8.28		31.89	31.89		60.6	62.6		4.41	4.41		2.15	1.91		4	
24/11/2010	2:19	Cloudy	Middle	1.5	22.28	22.27	22.27	8.32	8.32	8.32	31.73	31.73	31.73	65.9	66.3	65.9	4.77	4.80	4.77	3.21	3.09	3.03	5	4.00
	2:26		Middle	1.5	22.28	22.26		8.32	8.32		31.73	31.73		65.7	65.8		4.75	4.77		2.94	2.86		3	
27/11/2010	2:25	Cloudy	Middle	2.0	22.12	22.12	22.12	8.20	8.20	8.20	31.01	31.01	31.01	46.9	46.8	46.5	3.75	3.73	3.76	1.75	1.90	1.92	4	4.00
	2:33		Middle	2.0	22.12	22.12		8.20	8.20		31.01	31.01		46.0	46.2		3.77	3.78		2.01	2.03		4	



**Water Monitoring Result at WSD10 - Cha Kwo Ling
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	4:29	Fine	Middle	2.0	20.39	20.39	20.38	8.29	8.29	8.29	31.63	31.63	31.64	82.7	79.5	80.6	6.19	5.96	6.04	2.98	2.91	2.77	6	6.50
	4:35		Middle	2.0	20.36	20.36		8.29	8.29		31.64	31.64		80.9	79.4		6.06	5.95		2.46	2.74		7	
30/10/2010	5:40	Fine	Middle	2.0	19.97	19.91	19.97	8.61	8.61	8.61	31.55	31.55	31.73	51.9	51.5	52.9	3.94	3.91	4.02	7.84	8.05	7.89	9	8.50
	5:45		Middle	2.0	19.99	19.99		8.61	8.60		31.90	31.90		54.1	54.1		4.11	4.11		8.02	7.64		8	
1/11/2010	7:31	Sunny	Middle	2.0	23.50	23.50	23.50	8.29	8.29	8.29	32.12	32.12	32.12	81.0	80.2	80.5	5.73	5.65	5.68	2.84	2.72	2.77	4	8.50
	7:34		Middle	2.0	23.50	23.50		8.28	8.28		32.12	32.12		80.8	80.0		5.72	5.63		2.78	2.74		13	
3/11/2010	9:18	Sunny	Middle	2.0	22.70	22.70	22.70	8.25	8.25	8.28	32.26	32.26	32.25	83.0	81.9	83.1	5.95	5.87	5.96	3.61	3.53	3.57	7	6.50
	9:21		Middle	2.0	22.70	22.70		8.30	8.30		32.24	32.24		84.1	83.2		6.06	5.97		3.54	3.59		6	
5/11/2010	10:20	Rainy	Middle	2.0	21.50	21.50	21.40	8.27	8.27	8.28	32.01	32.01	32.03	82.5	81.6	82.2	6.05	5.91	6.01	3.55	3.78	3.67	5	5.00
	10:23		Middle	2.0	21.30	21.30		8.28	8.28		32.05	32.05		82.9	81.8		6.08	6.01		3.74	3.60		5	
7/11/2010	14:33	Sunny	Middle	2.5	25.38	25.38	25.37	8.39	8.39	8.39	30.30	30.30	30.30	63.5	65.5	65.6	4.39	4.53	4.54	4.06	3.88	3.72	7	7.00
	14:40		Middle	2.5	25.35	25.35		8.39	8.39		30.30	30.30		66.0	67.4		4.56	4.66		3.25	3.70		7	
10/11/2010	1:01	Cloudy	Middle	2.0	22.99	22.99	22.99	7.99	7.98	7.98	31.82	31.68	31.72	54.1	53.5	56.9	4.25	4.20	4.47	4.73	4.64	4.71	6	7.00
	1:17		Middle	2.0	22.98	22.98		7.97	7.97		31.68	31.68		63.9	56.0		5.02	4.39		4.89	4.58		8	
12/11/2010	2:25	Fine	Middle	2.0	22.64	22.64	17.63	8.01	8.01	8.01	31.79	31.79	31.79	52.8	52.3	53.5	3.80	3.76	3.85	3.30	3.20	3.32	6	5.50
	2:31		Middle	2.0	22.62	2.62		8.01	8.00		31.79	31.79		55.8	53.0		4.01	3.81		3.47	3.31		5	
15/11/2010	6:10	Fine	Middle	2.0	22.93	22.93	23.03	8.23	8.23	8.20	31.62	31.62	31.61	84.7	84.4	84.6	6.04	6.02	6.04	2.21	2.10	2.16	8	8.00
	6:13		Middle	2.0	23.13	23.13		8.17	8.17		31.60	31.60		84.3	85.0		6.02	6.06		2.17	2.15		8	
17/11/2010	9:20	Fine	Middle	2.0	22.74	22.74	22.81	8.10	8.10	8.09	31.74	31.74	31.76	93.0	92.4	92.2	6.66	6.61	6.60	2.57	2.47	2.38	7	6.00
	9:24		Middle	2.0	22.88	22.88		8.07	8.07		31.77	31.77		91.6	91.7		6.56	6.56		2.14	2.32		5	
19/11/2010	0:50	Fine	Middle	2.0	21.14	21.14	21.14	8.36	8.36	8.36	31.54	31.54	31.54	66.5	69.0	67.6	4.92	5.10	4.94	2.13	2.70	2.43	4	4.00
	0:55		Middle	2.0	21.14	21.14		8.36	8.36		31.54	31.54		67.0	68.0		4.77	4.98		2.52	2.38		4	
22/11/2010	1:26	Fine	Middle	2.0	23.12	23.11	23.11	8.34	8.34	8.34	31.91	31.91	31.91	60.1	59.5	61.0	4.28	4.24	4.34	2.54	2.45	2.41	3	3.50
	1:33		Middle	2.0	23.11	23.11		8.34	8.34		31.91	31.90		62.5	61.8		4.45	4.40		2.36	2.30		4	
24/11/2010	2:48	Cloudy	Middle	2.5	22.09	22.09	22.09	8.29	8.30	8.30	31.69	31.70	31.70	50.6	51.5	50.9	3.68	3.73	3.70	1.57	1.66	1.57	4	3.50
	2:53		Middle	2.5	22.09	22.09		8.30	8.30		31.70	31.70		50.6	50.7		3.68	3.69		1.57	1.48		3	
27/11/2010	1:30	Cloudy	Middle	2.0	21.99	21.99	21.99	8.30	8.30	8.31	31.51	31.51	31.51	46.7	46.4	46.7	3.70	3.78	3.75	1.80	1.79	1.95	3	4.00
	1:36		Middle	2.0	21.99	21.99		8.31	8.31		31.51	31.51		47.0	46.5		3.80	3.71		2.07	2.14		5	



**Water Monitoring Result at WSD15 - Sai Wan Ho
Mid-Ebb Tide**

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:13	Fine	Middle	3	20.53	20.55	20.57	8.41	8.41	8.40	31.80	31.79	31.79	73.7	72.6	72.2	5.46	5.42	5.35	7.47	7.00	7.46	11	10.50
	1:19		Middle	3	20.60	20.60		8.38	8.38		31.79	31.79		70.3	72.0		5.15	5.38		7.82	7.54		10	
30/10/2010	4:00	Fine	Middle	3	19.50	19.50	19.46	8.62	8.63	8.62	32.00	32.00	32.01	51.5	56.8	54.6	3.91	4.25	4.13	5.73	5.55	5.40	6	7.00
	4:08		Middle	3	19.42	19.42		8.62	8.62		32.01	32.01		52.0	58.0		3.95	4.42		4.90	5.40		8	
1/11/2010	8:00	Sunny	Middle	2	23.50	23.50	23.55	8.28	8.28	8.28	31.93	31.93	31.94	80.9	79.2	80.5	5.72	5.60	5.69	3.10	2.99	3.04	4	5.00
	8:03		Middle	2	23.60	23.60		8.28	8.28		31.95	31.95		81.3	80.6		5.74	5.70		3.04	3.02		6	
3/11/2010	9:44	Sunny	Middle	2	22.80	22.80	22.80	8.32	8.32	8.32	32.05	32.05	32.05	84.9	84.2	84.7	6.07	6.02	6.06	4.75	4.64	4.65	7	11.50
	9:47		Middle	2	22.80	22.80		8.32	8.32		32.04	32.04		85.4	84.2		6.11	6.02		4.66	4.54		16	
5/11/2010	10:52	Rainy	Middle	2	22.30	22.30	22.20	8.30	8.30	8.31	32.25	32.25	32.29	83.0	82.0	82.9	6.01	5.91	6.00	6.35	6.22	6.31	9	9.00
	10:55		Middle	2	22.10	22.10		8.31	8.31		32.33	32.33		83.7	83.0		6.06	6.01		6.39	6.27		9	
7/11/2010	13:19	Sunny	Middle	3	24.84	24.84	24.84	8.38	8.38	8.39	31.56	31.57	31.57	59.3	64.2	62.5	4.10	4.45	4.33	4.35	4.28	4.32	8	8.50
	13:26		Middle	3	24.84	24.84		8.40	8.40		31.57	31.57		59.3	67.0		4.11	4.64		4.39	4.24		9	
10/11/2010	3:07	Cloudy	Middle	3	22.31	22.32	22.42	8.12	8.12	8.13	30.94	30.95	30.95	61.1	69.3	61.3	4.43	5.02	4.44	3.24	2.89	3.28	5	5.00
	3:15		Middle	3	22.52	22.52		8.14	8.14		30.95	30.95		58.1	56.6		4.22	4.10		3.30	3.70		5	
12/11/2010	5:20	Fine	Middle	3	21.92	21.89	16.98	8.05	8.05	8.05	31.92	31.92	31.92	54.7	58.5	54.9	3.97	4.24	3.99	6.61	6.30	6.10	16	17.50
	5:28		Middle	3	2.06	22.06		8.05	8.05		31.92	31.92		51.2	55.2		3.72	4.01		5.69	5.81		19	
15/11/2010	10:27	Fine	Middle	2	22.69	22.69	22.72	7.78	7.78	7.77	31.88	31.88	31.89	80.4	76.2	80.5	5.76	5.46	5.77	3.99	4.05	3.95	10	9.50
	10:30		Middle	2	22.75	22.75		7.76	7.76		31.89	31.89		82.8	82.4		5.94	5.91		3.84	3.92		9	
17/11/2010	9:43	Fine	Middle	2	22.62	22.60	22.63	8.21	8.21	8.21	31.76	31.76	31.74	93.0	91.2	91.7	6.69	6.56	6.59	4.57	3.80	4.11	7	7.00
	9:46		Middle	2	22.65	22.65		8.20	8.20		31.71	31.71		92.2	90.3		6.63	6.49		4.04	4.01		7	
19/11/2010	23:22	Fine	Middle	3	20.95	20.96	20.95	8.36	8.36	8.37	31.91	31.91	31.91	64.1	63.5	65.2	4.74	4.74	4.83	2.79	2.99	2.91	5	5.50
	23:29		Middle	3	20.93	20.94		8.38	8.38		31.92	31.91		66.7	66.3		4.94	4.91		3.03	2.81		6	
22/11/2010	23:43	Fine	Middle	3	23.47	23.50	23.49	8.34	8.34	8.34	32.11	32.11	32.11	66.0	66.7	67.2	4.67	4.71	4.75	3.82	3.55	3.79	7	7.50
	23:49		Middle	3	23.50	23.50		8.34	8.33		32.11	32.12		66.7	69.3		4.72	4.90		3.91	3.86		8	
24/11/2010	0:51	Cloudy	Middle	3	22.07	22.07	22.07	8.33	8.33	8.33	31.86	31.86	31.86	52.7	53.1	54.1	3.79	3.86	3.92	2.91	2.95	2.96	7	6.00
	0:59		Middle	3	22.07	22.07		8.33	8.33		31.86	31.86		55.6	54.8		4.03	3.98		2.91	3.06		5	
27/11/2010	3:58	Cloudy	Middle	3	21.76	21.76	21.80	8.45	8.45	8.42	31.41	31.41	31.41	50.7	50.8	50.7	3.74	3.72	3.72	2.55	2.55	2.40	4	4.00
	4:09		Middle	3	21.83	21.83		8.39	8.40		31.41	31.41		50.6	50.8		3.70	3.72		2.21	2.27		4	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:38	Fine	Middle	3	19.51	19.51	19.51	8.26	8.27	8.27	30.79	30.79	30.79	59.1	64.2	62.2	4.52	4.91	4.76	4.59	4.65	4.85	8	7.50
	1:45		Middle	3	19.51	19.51		8.27	8.27		30.79	30.79		64.5	61.0		4.93	4.66		5.40	4.77		7	
30/10/2010	4:14	Fine	Middle	3	19.76	19.78	19.66	8.64	8.65	8.64	31.53	31.52	31.69	51.4	58.6	53.9	3.90	4.45	4.09	5.25	5.07	5.07	6	6.50
	4:20		Middle	3	19.55	19.55		8.63	8.63		31.85	31.85		52.7	52.7		4.01	4.01		5.01	4.96		7	
1/11/2010	8:39	Sunny	Middle	2	23.50	23.50	23.55	8.23	8.23	8.23	31.95	31.95	31.96	75.9	75.0	75.5	5.36	5.30	5.33	4.02	3.90	4.04	6	6.00
	8:43		Middle	2	23.60	23.60		8.23	8.23		31.96	31.96		76.6	74.3		5.41	5.25		4.17	4.08		6	
3/11/2010	10:08	Sunny	Middle	2	22.30	22.30	22.30	8.26	8.26	8.26	32.22	32.22	32.22	78.6	77.6	78.6	5.68	5.60	5.67	6.38	6.24	6.26	11	11.00
	10:11		Middle	2	22.30	22.30		8.26	8.26		32.21	32.21		79.2	78.8		5.72	5.69		6.20	6.22		11	
5/11/2010	11:20	Rainy	Middle	2	22.20	22.20	22.10	8.29	8.29	8.29	32.22	32.22	32.24	80.0	78.6	79.7	5.80	5.70	5.78	8.40	7.33	7.63	11	10.50
	11:23		Middle	2	22.00	22.00		8.29	8.29		32.25	32.25		80.3	79.9		5.83	5.79		7.38	7.41		10	
7/11/2010	13:00	Sunny	Middle	3	24.88	24.88	24.88	8.40	8.40	8.40	31.32	31.32	31.33	54.6	57.3	56.5	3.79	3.97	3.92	4.91	4.77	4.79	10	9.00
	13:07		Middle	3	24.88	24.88		8.40	8.40		31.33	31.33		56.6	57.5		3.92	3.98		4.95	4.53		8	
10/11/2010	2:42	Cloudy	Middle	3	22.22	22.22	22.21	8.10	8.10	8.10	30.29	30.29	30.32	56.5	56.2	56.9	4.13	4.11	4.15	2.80	3.15	3.06	7	8.00
	2:51		Middle	3	22.20	22.20		8.10	8.10		30.35	30.35		58.1	56.6		4.24	4.13		3.02	3.26		9	
12/11/2010	5:00	Fine	Middle	3	22.12	22.12	22.10	7.97	7.97	7.97	31.91	31.91	31.93	57.6	58.1	59.1	4.18	4.22	4.29	3.31	3.29	3.19	4	5.00
	5:07		Middle	3	22.07	22.07		7.96	7.96		31.94	31.94		60.9	59.9		4.42	4.35		3.12	3.05		6	
15/11/2010	10:45	Fine	Middle	2	22.75	22.75	22.75	7.72	7.72	7.71	31.89	31.89	31.95	83.5	82.5	82.2	5.99	5.92	5.90	4.16	3.81	3.96	8	7.00
	10:48		Middle	2	22.75	22.75		7.69	7.69		32.00	32.00		82.0	80.8		5.89	5.78		4.11	3.77		6	
17/11/2010	10:03	Fine	Middle	2	22.37	22.37	22.37	8.23	8.23	8.21	31.80	31.80	31.81	96.2	95.4	94.8	6.95	6.89	6.84	4.43	4.08	4.08	9	8.00
	10:06		Middle	2	22.37	22.38		8.19	8.19		31.82	31.82		94.0	93.5		6.78	6.75		3.91	3.88		7	
19/11/2010	23:00	Fine	Middle	3	20.85	20.81	20.72	8.39	8.38	8.38	31.91	31.91	31.96	67.3	66.5	66.0	5.01	4.94	4.91	2.66	2.92	2.95	4	5.00
	23:07		Middle	3	20.60	20.60		8.37	8.37		32.01	32.02		65.2	65.0		4.85	4.83		3.05	3.15		6	
22/11/2010	23:27	Fine	Middle	3	23.25	23.25	23.25	8.24	8.24	8.24	32.24	32.24	32.25	74.5	74.1	74.3	5.29	5.26	5.29	3.67	3.12	3.61	6	7.00
	23:33		Middle	3	23.25	23.25		8.24	8.24		32.24	32.26		74.2	74.5		5.34	5.28		3.85	3.81		8	
24/11/2010	0:35	Cloudy	Middle	3	22.33	22.33	22.33	8.36	8.36	8.36	31.81	31.81	31.81	55.6	53.6	55.0	4.02	3.87	3.97	3.85	3.42	3.59	9	8.00
	0:42		Middle	3	22.33	22.33		8.36	8.36		31.81	31.81		55.1	55.6		3.98	4.02		3.67	3.40		7	
27/11/2010	3:40	Cloudy	Middle	3	21.66	21.66	21.66	8.35	8.35	8.35	31.72	31.72	31.72	48.2	48.0	48.4	3.76	3.74	3.79	2.11	2.18	2.35	5	4.50
	3:47		Middle	3	21.66	21.66		8.35	8.35		31.72	31.72		49.2	48.3		3.89	3.77		2.48	2.63		4	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
28/10/2010	1:54	Fine	Middle	2	22.21	22.21	22.21	8.49	8.49	8.49	31.63	31.64	31.64	66.5	64.0	63.2	4.82	4.64	4.58	6.11	5.60	5.90	10	10.50
	2:00		Middle	2	22.21	22.21		8.49	8.49		31.64	31.64		61.7	60.4		4.48	4.38		6.01	5.89		11	
30/10/2010	4:26	Fine	Middle	2	18.92	18.96	19.20	8.55	8.55	8.56	31.71	31.71	31.73	57.0	54.9	53.7	4.32	4.12	4.06	7.04	7.04	6.74	10	10.50
	4:35		Middle	2	19.47	19.45		8.56	8.56		31.75	31.75		50.5	52.5		3.82	3.97		6.47	6.41		11	
1/11/2010	12:07	Sunny	Middle	2	23.50	23.50	23.50	8.22	8.22	8.22	31.87	31.87	31.87	72.4	71.7	72.2	5.01	4.98	5.00	9.84	9.71	9.80	18	18.50
	12:10		Middle	2	23.50	23.50		8.21	8.21		31.87	31.87		72.7	72.0		5.03	4.99		9.92	9.74		19	
3/11/2010	11:37	Sunny	Middle	2	22.80	22.90	22.85	8.22	8.22	8.23	31.89	31.89	31.90	73.9	73.6	74.9	5.30	5.28	5.37	5.78	5.43	5.52	8	10.50
	11:40		Middle	2	22.90	22.80		8.23	8.23		31.90	31.90		76.5	75.7		5.47	5.41		5.48	5.37		13	
5/11/2010	13:08	Rainy	Middle	2	22.30	22.30	22.20	8.19	8.19	8.20	31.66	31.66	31.72	73.7	72.3	73.9	5.34	5.24	5.36	11.40	12.40	11.45	15	15.00
	13:11		Middle	2	22.10	22.10		8.21	8.21		31.78	31.78		75.2	74.3		5.45	5.39		11.40	10.60		15	
7/11/2010	11:38	Sunny	Middle	2	26.51	26.50	26.50	8.01	8.01	8.01	30.87	30.87	30.88	81.5	81.0	80.9	5.52	5.48	5.48	4.83	4.51	4.65	11	10.50
	11:45		Middle	2	26.50	26.50		8.01	8.01		30.88	30.88		80.4	80.8		5.44	5.47		4.47	4.77		10	
10/11/2010	2:30	Cloudy	Middle	2	20.94	20.94	20.94	8.21	8.21	8.21	31.60	31.60	31.60	57.0	53.0	52.6	4.23	4.00	4.17	1.92	2.21	2.21	4	4.50
	2:36		Middle	2	20.94	20.94		8.21	8.19		31.60	31.61		50.2	50.2		4.73	3.72		2.28	2.44		5	
12/11/2010	4:42	Fine	Middle	2	22.60	22.60	22.60	7.88	7.88	7.88	31.62	31.62	31.62	59.0	57.9	58.6	4.25	4.17	4.22	3.51	3.48	3.38	5	5.50
	4:51		Middle	2	22.60	22.60		7.88	7.88		31.62	31.62		58.9	58.7		4.24	4.23		3.20	3.31		6	
15/11/2010	10:10	Fine	Middle	2	22.67	22.67	22.67	7.72	7.72	7.71	31.71	31.71	31.74	83.3	82.8	82.8	5.94	5.92	5.92	3.87	4.22	4.06	7	7.50
	10:13		Middle	2	22.67	22.67		7.70	7.70		31.77	31.77		83.0	82.2		5.93	5.87		4.07	4.09		8	
17/11/2010	12:06	Fine	Middle	2	22.25	22.25	22.26	7.68	7.68	7.68	31.66	31.66	31.67	85.4	84.3	84.6	6.18	6.11	6.13	4.79	4.36	4.58	8	8.00
	12:09		Middle	2	22.26	22.26		7.68	7.68		31.67	31.67		84.8	84.0		6.14	6.08		4.58	4.60		8	
19/11/2010	22:40	Fine	Middle	2	19.68	19.68	19.62	8.28	8.28	8.28	31.66	31.66	31.70	60.4	60.7	59.3	4.59	4.62	4.51	7.61	6.81	6.84	10	9.50
	22:49		Middle	2	19.56	19.56		8.27	8.27		31.74	31.74		58.4	57.6		4.44	4.37		6.38	6.54		9	
22/11/2010	23:08	Fine	Middle	2	24.07	24.07	24.07	8.39	8.39	8.38	31.95	31.95	31.95	77.0	77.1	77.1	5.39	5.40	5.40	4.21	4.55	4.43	8	7.00
	23:15		Middle	2	24.07	24.07		8.37	8.37		31.95	31.95		76.8	77.6		5.38	5.43		4.60	4.36		6	
24/11/2010	0:20	Cloudy	Middle	2	22.90	22.90	22.89	8.28	8.28	8.28	31.56	31.56	31.57	59.6	58.9	58.5	4.29	4.22	4.19	3.51	3.73	3.40	7	8.00
	0:27		Middle	2	22.88	22.88		8.28	8.28		31.56	31.58		58.4	56.9		4.18	4.07		3.14	3.21		9	
27/11/2010	3:27	Cloudy	Middle	2	21.81	21.81	21.81	8.27	8.27	8.27	31.51	31.51	31.51	44.2	43.4	43.4	3.43	3.37	3.36	3.00	2.98	3.09	4	5.00
	3:36		Middle	2	21.81	21.81		8.27	8.27		31.51	31.51		42.7	43.4		3.32	3.33		3.15	3.21		6	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-			ppt		%		mg/L		NTU		mg/L						
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average						
28/10/2010	2:23	Fine	Middle	2	22.11	22.11	22.10	8.43	8.43	8.43	31.61	31.61	31.62	67.0	76.0	72.2	4.87	5.52	5.25	5.69	5.49	5.50	13	12.50
	2:31		Middle	2	22.09	22.09		8.43	8.43		31.62	31.62		75.3	70.4		5.47	5.12		5.46	5.36		12	
30/10/2010	4:37	Fine	Middle	2	20.89	20.80	20.82	8.52	8.52	8.53	31.39	31.50	31.49	53.8	51.1	55.9	3.99	3.80	4.15	6.09	6.37	6.16	10	11.50
	4:44		Middle	2	20.79	20.80		8.53	8.53		31.52	31.53		59.1	59.6		4.39	4.43		6.28	5.90		13	
1/11/2010	11:53	Sunny	Middle	2	23.80	23.80	23.80	8.16	8.16	8.16	31.92	31.92	31.91	71.0	70.4	70.4	4.94	4.90	4.90	8.07	7.94	7.80	19	18.50
	11:56		Middle	2	23.80	23.80		8.16	8.16		31.90	31.90		70.7	69.6		4.92	4.83		7.54	7.66		18	
3/11/2010	11:24	Sunny	Middle	2	23.10	23.10	23.20	8.27	8.27	8.24	31.81	31.81	31.83	72.1	71.0	72.3	5.12	5.05	5.14	5.99	5.65	5.81	7	8.00
	11:27		Middle	2	23.30	23.30		8.20	8.20		31.85	31.85		73.6	72.5		5.23	5.15		5.68	5.92		9	
5/11/2010	12:52	Rainy	Middle	2	21.70	21.70	21.60	8.19	8.19	8.20	31.65	31.65	31.68	73.0	72.0	73.3	5.35	5.28	5.37	10.00	9.24	9.36	14	13.50
	12:55		Middle	2	21.50	21.50		8.21	8.21		31.71	31.71		74.6	73.5		5.47	5.39		9.21	9.00		13	
7/11/2010	11:26	Sunny	Middle	2	26.07	26.14	26.17	8.03	8.03	8.06	31.31	31.32	31.32	85.1	80.3	82.2	5.74	5.42	5.55	4.49	4.55	4.52	10	9.00
	11:36		Middle	2	26.11	26.37		8.08	8.08		31.31	31.32		81.5	81.7		5.50	5.52		4.18	4.87		8	
10/11/2010	2:20	Cloudy	Middle	2	23.35	23.35	23.35	7.92	7.91	7.91	30.56	30.54	30.55	61.7	63.0	62.7	4.41	4.50	4.50	4.20	4.08	4.08	5	5.50
	2:28		Middle	2	23.35	23.35		7.91	7.91		30.54	30.54		62.5	63.6		4.47	4.62		3.92	4.12		6	
12/11/2010	4:33	Fine	Middle	2	22.63	22.63	17.63	7.82	7.82	7.82	31.43	31.43	31.43	69.0	66.0	64.9	4.97	4.76	4.68	2.95	3.23	2.92	5	4.50
	4:40		Middle	2	2.63	22.63		7.82	7.82		31.43	31.43		60.0	64.7		4.33	4.66		2.67	2.84		4	
15/11/2010	9:55	Fine	Middle	2	22.85	22.85	22.96	7.74	7.74	7.73	31.80	31.80	31.80	81.6	78.8	82.0	5.84	5.63	5.86	4.05	4.03	3.93	8	7.50
	9:58		Middle	2	23.07	23.07		7.71	7.71		31.80	31.80		84.6	82.8		6.03	5.94		3.80	3.84		7	
17/11/2010	11:53	Fine	Middle	2	22.48	22.48	22.50	7.58	7.58	7.58	31.73	31.73	31.74	82.3	82.6	82.6	5.92	5.93	5.94	5.62	5.44	5.51	12	11.50
	11:56		Middle	2	22.51	22.52		7.58	7.58		31.74	31.74		82.5	82.8		5.94	5.95		5.50	5.48		11	
19/11/2010	22:25	Fine	Middle	2	19.60	19.60	19.56	8.24	8.24	8.24	31.55	31.55	31.58	57.9	56.6	55.7	4.40	4.31	4.24	6.16	6.57	6.55	10	10.50
	22:33		Middle	2	19.52	19.52		8.23	8.23		31.61	31.61		54.4	54.0		4.14	4.11		6.64	6.82		11	
22/11/2010	22:56	Fine	Middle	2	23.58	23.58	23.58	8.26	8.26	8.26	31.87	31.88	31.88	68.1	68.0	67.5	4.81	4.80	4.77	4.38	4.81	4.45	11	10.00
	23:03		Middle	2	23.58	23.58		8.26	8.26		31.88	31.88		66.0	68.0		4.67	4.80		4.12	4.47		9	
24/11/2010	0:05	Cloudy	Middle	2	23.26	23.25	23.24	8.21	8.21	8.21	31.45	31.45	31.46	50.0	49.3	51.0	3.56	3.51	3.64	6.61	5.78	6.47	13	13.00
	0:12		Middle	2	23.22	23.22		8.21	8.21		31.47	31.47		52.6	52.1		3.75	3.72		6.64	6.86		13	
27/11/2010	3:15	Cloudy	Middle	2	22.32	22.32	22.32	8.25	8.25	8.25	31.50	31.50	31.50	44.1	43.1	43.7	3.41	3.45	3.42	2.52	2.37	2.41	4	4.50
	3:22		Middle	2	22.32	22.32		8.25	8.25		31.50	31.50		43.9	43.8		3.41	3.40		2.33	2.41		5	



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
10/11/2010	1:57	14:24	Middle	2	23.01	23.02	23.17	7.80	7.80	7.80	30.56	30.56	30.56	70.6	72.0	75.0	5.05	5.15	5.29	3.67	3.35	3.65	6	5.50
	2:10		Middle	2	23.35	23.30		7.80	7.80		30.56	30.56		78.5	78.9		5.32	5.64		3.62	3.95		5	
12/11/2010	3:22	2:38	Middle	2	22.35	22.35	22.41	7.77	7.77	7.79	31.32	31.30	31.31	56.3	54.8	53.7	4.70	3.96	4.04	2.79	2.90	2.86	10	10.00
	3:29		Middle	2	22.46	22.46		7.80	7.80		31.30	31.30		51.8	51.7		3.74	3.74		2.71	3.05		10	
15/11/2010	6:34	14:24	Middle	2	22.73	22.73	22.75	8.08	8.08	8.05	31.83	31.83	31.85	85.6	84.9	85.8	6.12	6.05	6.13	1.60	1.89	1.69	10	9.00
	6:37		Middle	2	22.77	22.77		8.02	8.02		31.87	31.87		86.9	85.8		6.21	6.13		1.60	1.68		8	
17/11/2010	8:55	3:36	Middle	2	22.27	22.28	22.33	8.23	8.23	8.22	31.48	31.48	31.48	87.7	86.9	87.9	6.35	6.28	6.35	2.85	2.73	2.72	6	5.00
	8:58		Middle	2	22.39	22.39		8.20	8.20		31.47	31.47		89.2	87.6		6.44	6.33		2.74	2.57		4	
19/11/2010	0:01	22:19	Middle	2	21.72	21.72	21.72	8.31	8.31	8.32	31.12	31.12	31.12	62.4	66.3	64.1	4.94	4.86	4.89	2.18	2.33	2.26	<2	<2
	0:09		Middle	2	21.72	21.72		8.32	8.32		31.11	31.11		62.7	64.9		4.82	4.92		2.14	2.40		<2	
22/11/2010	1:00	19:40	Middle	2	23.68	23.68	23.70	8.28	8.28	8.28	31.90	31.90	31.90	60.2	61.6	61.3	4.25	4.35	4.36	2.32	2.21	2.15	6	5.00
	1:07		Middle	2	23.71	23.71		8.28	8.28		31.89	31.89		60.6	62.6		4.41	4.41		2.15	1.91		4	
24/11/2010	2:19	9:36	Middle	2	22.28	22.27	22.27	8.32	8.32	8.32	31.73	31.73	31.73	65.9	66.3	65.9	4.77	4.80	4.77	3.21	3.09	3.03	5	4.00
	2:26		Middle	2	22.28	22.26		8.32	8.32		31.73	31.73		65.7	65.8		4.75	4.77		2.94	2.86		3	
27/11/2010	2:25	16:48	Middle	2	22.12	22.12	22.12	8.20	8.20	8.20	31.01	31.01	31.01	46.9	46.8	46.5	3.75	3.73	3.76	1.75	1.90	1.92	4	4.00
	2:33		Middle	2	22.12	22.12		8.20	8.20		31.01	31.01		46.0	46.2		3.77	3.78		2.01	2.03		4	



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
10/11/2010	2:15	Cloudy	Middle	2	23.00	23.01	23.01	7.83	7.83	7.83	30.93	30.93	30.93	47.6	56.2	59.7	3.41	4.03	3.74	2.71	2.82	2.85	4	3.50
	2:25		Middle	2	23.02	23.02		7.83	7.83		30.93	30.93		53.8	81.2		3.86	3.67		2.99	2.88		3	
12/11/2010	3:50	Fine	Middle	2	22.44	22.44	22.64	7.79	7.79	7.75	30.94	30.94	30.94	53.2	56.3	55.4	3.82	4.04	3.98	2.86	2.92	2.97	4	3.50
	3:56		Middle	2	22.83	22.84		7.71	7.71		30.94	30.94		59.8	52.3		4.29	3.75		3.01	3.08		3	
15/11/2010	9:22	Fine	Middle	2	23.07	23.07	23.15	7.72	7.72	7.70	31.24	31.24	31.24	82.0	81.2	82.6	5.86	5.79	5.90	3.91	3.30	3.39	5	5.50
	9:26		Middle	2	23.22	23.22		7.68	7.68		31.24	31.24		84.1	82.9		6.01	5.92		3.20	3.15		6	
17/11/2010	11:28	Fine	Middle	2	23.13	23.13	23.13	7.60	7.60	7.58	31.18	31.18	31.20	75.0	73.7	74.4	5.36	5.27	5.31	6.05	5.21	5.17	8	8.00
	11:31		Middle	2	23.13	23.13		7.56	7.56		31.21	31.21		75.2	73.5		5.37	5.25		4.92	4.49		8	
19/11/2010	21:40	Fine	Middle	2	19.88	19.88	19.85	8.16	8.16	8.16	31.24	31.24	31.24	55.1	54.4	54.1	4.18	4.13	4.11	3.22	3.25	3.19	3	3.50
	21:45		Middle	2	19.81	19.81		8.16	8.16		31.24	31.24		53.3	53.5		4.05	4.06		3.11	3.18		4	
22/11/2010	22:30	Fine	Middle	2	23.53	23.48	23.49	8.06	8.06	8.06	31.55	31.55	31.55	54.4	53.7	53.8	3.86	3.80	3.81	5.25	4.97	5.15	10	9.50
	22:36		Middle	2	23.48	23.48		8.06	8.06		31.55	31.55		54.0	53.1		3.83	3.76		5.08	5.28		9	
24/11/2010	23:30	Cloudy	Middle	2	23.01	23.00	23.00	8.06	8.06	8.06	31.00	31.00	31.00	45.5	43.9	44.1	3.46	3.45	3.56	3.84	3.46	3.53	10	10.50
	23:38		Middle	2	23.00	23.00		8.06	8.06		31.00	31.00		44.5	42.4		3.69	3.64		3.34	3.46		11	
27/11/2010	2:50	Cloudy	Middle	2	22.35	22.35	22.35	8.14	8.14	8.14	31.08	31.08	31.08	45.8	45.5	45.8	3.60	3.57	3.60	3.37	3.50	3.40	5	5.00
	3:00		Middle	2	22.35	22.35		8.14	8.14		31.08	31.08		46.7	45.1		3.66	3.55		3.29	3.42		5	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:48	Fine	Middle	2.5	21.20	21.20	21.20	8.35	8.35	8.35	31.61	31.61	31.61	64.0	69.4	68.0	4.72	5.12	5.02	2.83	2.92	2.82	4.00	5.00
	1:53		Middle	2.5	21.20	21.20		8.35	8.35		31.61	31.61		66.2	72.2		4.89	5.33		2.58	2.94		6.00	
30/10/2010	3:55	Fine	Middle	2.5	19.11	19.10	19.11	8.52	8.52	8.52	31.69	31.69	31.69	58.1	50.9	53.4	4.46	3.90	4.11	3.29	3.51	3.36	5.00	4.50
	4:06		Middle	2.5	19.12	19.12		8.51	8.51		31.69	31.68		51.5	53.2		3.96	4.13		3.36	3.28		4.00	
1/11/2010	9:16	Sunny	Middle	2.0	23.40	23.40	23.40	8.16	8.16	8.16	31.59	31.59	31.59	78.7	79.0	78.8	5.54	5.56	5.55	4.66	5.09	5.36	7.00	6.50
	9:19		Middle	2.0	23.40	23.40		8.16	8.16		31.59	31.59		78.0	79.5		5.49	5.60		6.52	5.18		6.00	
3/11/2010	11:01	Sunny	Middle	2.0	22.50	22.50	22.50	8.26	8.26	8.26	32.10	32.10	32.10	78.0	77.5	77.1	5.70	5.67	5.64	5.86	6.71	5.40	8.00	8.00
	11:04		Middle	2.0	22.50	22.50		8.26	8.26		32.10	32.10		76.9	76.0		5.63	5.55		4.79	4.23		8.00	
5/11/2010	12:58	Rainy	Middle	2.5	22.70	22.70	22.60	8.18	8.18	8.18	31.79	31.80	31.80	79.9	73.8	75.9	5.98	5.39	5.58	5.37	5.47	5.15	7.00	8.00
	13:01		Middle	2.5	22.50	22.50		8.17	8.17		31.81	31.81		75.5	74.3		5.52	5.43		4.87	4.87		9.00	
7/11/2010	13:10	Sunny	Middle	2.0	24.13	24.13	24.13	8.21	8.21	8.21	31.19	31.19	31.19	51.1	55.1	53.7	4.29	3.89	3.97	3.84	3.86	3.90	6.00	7.00
	13:18		Middle	2.0	24.12	24.13		8.21	8.21		31.19	31.19		54.1	54.4		3.82	3.86		4.12	3.78		8.00	
10/11/2010	4:19	Cloudy	Middle	2.0	21.42	21.42	21.43	8.13	8.13	8.13	31.27	31.27	31.27	54.5	59.5	57.4	4.02	4.39	4.23	3.26	3.39	3.53	8.00	7.50
	4:30		Middle	2.0	21.43	21.43		8.12	8.12		31.27	31.27		61.5	54.0		4.54	3.98		3.85	3.60		7.00	
12/11/2010	4:30	Fine	Middle	2.0	21.87	21.87	21.86	7.33	7.32	7.64	31.51	31.51	31.52	58.9	59.1	59.4	5.43	5.48	5.51	2.02	1.81	2.00	7.00	6.50
	4:36		Middle	2.0	21.87	21.81		7.95	7.94		31.52	31.52		59.8	59.7		5.56	5.56		2.18	1.97		6.00	
15/11/2010	8:27	Fine	Middle	2.5	22.50	22.50	22.45	8.07	8.07	8.07	32.13	32.13	32.13	82.3	84.0	83.8	5.91	6.03	6.02	4.00	3.95	3.87	7.00	7.00
	8:30		Middle	2.5	22.40	22.40		8.06	8.06		32.12	32.12		84.1	84.6		6.05	6.08		3.71	3.81		7.00	
17/11/2010	8:25	Fine	Middle	2.5	22.10	22.10	22.15	7.92	7.92	7.92	31.87	31.88	31.88	58.9	57.8	57.7	4.27	4.19	4.18	4.15	3.82	3.98	7.00	8.00
	8:28		Middle	2.5	22.20	22.20		7.91	7.91		31.88	31.88		57.2	56.9		4.14	4.11		3.88	4.06		9.00	
19/11/2010	23:35	Fine	Middle	2.0	18.90	18.88	18.88	8.13	8.12	8.12	31.70	31.70	31.70	57.7	56.1	57.1	4.44	4.33	4.38	2.31	2.08	2.18	3.00	2.50
	23:42		Middle	2.0	18.86	18.86		8.12	8.12		31.70	31.70		56.8	57.6		4.32	4.44		2.13	2.20		2.00	
22/11/2010	23:25	Fine	Middle	2.0	22.77	22.77	22.77	8.14	8.14	8.14	31.87	31.87	31.87	57.9	57.2	55.6	4.15	4.10	3.98	2.42	2.11	2.17	4.00	4.00
	23:32		Middle	2.0	22.77	22.77		8.14	8.14		31.87	31.87		53.8	53.4		3.85	3.82		2.07	2.08		4.00	
24/11/2010	0:26	Cloudy	Middle	2.0	22.65	22.65	22.63	8.22	8.22	8.22	31.51	31.51	31.53	57.4	57.3	56.9	4.12	4.12	4.11	2.55	2.17	2.28	5.00	4.00
	0:32		Middle	2.0	22.61	22.61		8.22	8.22		31.55	31.55		56.8	56.2		4.09	4.09		2.30	2.11		3.00	
27/11/2010	3:40	Cloudy	Middle	2.0	21.41	21.41	21.41	8.30	8.30	8.30	31.27	31.27	31.27	53.9	52.6	53.0	3.97	3.98	3.93	1.61	1.70	1.56	6.00	5.00
	3:45		Middle	2.0	21.40	21.40		8.30	8.30		31.27	31.27		52.8	52.5		3.89	3.87		1.47	1.44		4.00	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:02	Fine	Middle	2.0	21.45	21.45	21.44	8.35	8.35	8.35	31.45	31.45	31.45	60.8	53.6	57.6	4.47	3.97	4.24	3.29	3.24	3.19	6.0	5.50
	1:09		Middle	2.0	21.43	21.43		8.35	8.35		31.45	31.45		57.9	58.0		4.26	4.27		3.13	3.08		5.0	
30/10/2010	2:54	Fine	Middle	2.0	19.38	19.41	19.43	8.43	8.43	8.43	31.48	31.48	31.49	51.6	51.8	53.3	3.93	3.96	4.07	2.88	2.38	2.73	5.0	4.50
	3:02		Middle	2.0	19.46	19.48		8.43	8.43		31.49	31.49		55.6	54.2		4.25	4.15		3.08	2.58		4.0	
1/11/2010	7:56	Sunny	Middle	1.5	23.20	23.20	23.20	8.17	8.17	8.17	31.65	31.65	31.65	73.3	73.1	73.5	5.21	5.19	5.22	3.98	4.61	4.04	10.0	9.00
	7:59		Middle	1.5	23.20	23.20		8.17	8.17		31.65	31.65		73.3	74.1		5.21	5.27		3.67	3.88		8.0	
3/11/2010	9:23	Sunny	Middle	1.5	22.70	22.70	22.68	8.20	8.20	8.20	31.91	31.91	31.91	80.4	79.3	80.6	5.84	5.76	5.86	4.43	4.04	4.50	9.0	8.00
	9:26		Middle	1.5	22.60	22.70		8.19	8.19		31.91	31.91		82.0	80.5		5.97	5.85		4.12	5.40		7.0	
5/11/2010	11:43	Rainy	Middle	1.5	22.10	22.10	22.15	8.19	8.19	8.19	32.06	32.05	32.05	79.0	78.0	78.0	5.90	5.82	5.82	7.25	6.73	7.45	12.0	11.00
	11:46		Middle	1.5	22.20	22.20		8.18	8.18		32.05	32.05		77.2	77.7		5.76	5.79		7.93	7.88		10.0	
7/11/2010	12:53	Sunny	Middle	2.0	24.64	24.63	24.62	8.13	8.13	8.13	30.52	30.63	30.60	51.8	50.8	52.3	3.63	3.56	3.68	4.72	4.96	4.66	9.0	10.00
	13:00		Middle	2.0	24.60	24.60		8.13	8.14		30.63	30.63		53.2	53.2		3.80	3.72		4.65	4.29		11.0	
10/11/2010	4:05	Cloudy	Middle	2.0	20.97	21.17	21.21	8.15	8.15	8.15	31.62	31.62	31.62	53.0	55.8	52.8	3.89	4.01	3.86	4.19	3.44	3.84	11.0	11.50
	4:10		Middle	2.0	21.31	21.39		8.15	8.15		31.61	31.61		52.2	50.2		3.84	3.69		3.89	3.82		12.0	
12/11/2010	4:45	Fine	Middle	2.0	22.01	22.00	22.00	7.97	7.97	7.97	31.71	31.71	31.71	51.8	58.8	56.5	3.76	4.27	4.11	2.14	1.98	2.02	2.0	2.50
	4:53		Middle	2.0	22.00	22.00		7.97	7.97		31.71	31.71		52.5	63.0		3.82	4.58		1.96	1.99		3.0	
15/11/2010	7:19	Fine	Middle	2.0	23.40	23.40	23.35	7.99	7.99	8.00	31.92	31.92	31.93	73.8	73.6	72.9	5.22	5.20	5.16	3.66	3.40	3.34	9.0	8.50
	7:22		Middle	2.0	23.30	23.30		8.00	8.00		31.93	31.93		72.6	71.7		5.14	5.08		3.04	3.26		8.0	
17/11/2010	7:30	Fine	Middle	2.0	21.60	21.60	21.65	8.02	8.02	8.02	32.09	32.09	32.09	60.4	58.5	59.2	4.42	4.27	4.33	4.18	4.33	4.03	5.0	6.00
	7:33		Middle	2.0	21.70	21.70		8.01	8.01		32.08	32.08		58.3	59.7		4.27	4.37		4.03	3.57		7.0	
19/11/2010	23:19	Fine	Middle	2.0	19.07	19.06	19.10	8.14	8.14	8.14	31.47	31.47	31.47	56.7	56.7	56.0	4.36	4.36	4.31	2.22	1.96	2.01	5.0	4.50
	23:25		Middle	2.0	19.13	19.13		8.14	8.14		31.47	31.47		56.0	54.7		4.30	4.20		1.91	1.93		4.0	
22/11/2010	0:18	Fine	Middle	2.0	23.64	23.64	23.62	8.10	8.10	8.10	31.84	31.84	31.84	60.4	59.4	59.0	4.27	4.23	4.18	1.71	1.54	1.67	2.0	3.00
	0:24		Middle	2.0	23.59	23.59		8.10	8.10		31.84	31.84		58.9	57.1		4.16	4.04		2.01	1.41		4.0	
24/11/2010	1:28	Cloudy	Middle	2.0	22.36	22.36	22.33	8.18	8.18	8.18	31.60	31.60	31.60	43.4	43.7	43.1	3.43	3.46	3.49	1.60	1.63	1.51	7.0	5.50
	1:35		Middle	2.0	22.29	22.29		8.18	8.18		31.60	31.60		43.1	42.3		3.41	3.65		1.38	1.44		4.0	
27/11/2010	4:39	Cloudy	Middle	2.0	21.43	21.43	21.46	8.31	8.31	8.27	31.43	31.43	31.43	53.0	52.6	52.5	3.89	3.87	3.86	1.33	1.45	1.37	4.0	3.50
	4:47		Middle	2.0	21.48	21.48		8.23	8.23		31.42	31.42		52.3	51.9		3.85	3.82		1.27	1.42		3.0	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:39	Fine	Middle	2.5	21.60	21.60	21.60	8.44	8.44	8.44	31.59	31.59	31.59	68.3	67.7	64.6	4.78	4.96	4.68	10.80	11.10	10.66	15	15.00
	1:45		Middle	2.5	21.60	21.60		8.44	8.44		31.59	31.59		61.5	60.7		4.52	4.46		10.90	9.82		15	
30/10/2010	3:38	Fine	Middle	2.5	19.31	19.31	19.31	8.51	8.51	8.51	31.67	31.67	31.66	50.6	51.5	50.7	3.87	3.95	3.89	5.43	5.11	5.44	7	7.00
	3:45		Middle	2.5	19.31	19.30		8.51	8.51		31.65	31.65		50.2	50.5		3.86	3.89		5.52	5.70		7	
1/11/2010	8:04	Sunny	Middle	2.5	23.50	23.50	23.38	8.18	8.17	8.18	31.75	31.75	31.75	83.9	84.4	84.2	5.88	5.92	5.91	2.82	2.39	2.47	7	7.50
	8:07		Middle	2.5	23.00	23.50		8.18	8.18		31.75	31.75		84.4	84.0		5.92	5.90		2.37	2.29		8	
3/11/2010	9:35	Sunny	Middle	2.5	22.40	22.40	22.40	8.23	8.23	8.23	31.90	31.90	31.91	78.2	77.5	78.0	5.69	5.63	5.66	6.35	6.45	6.20	9	8.50
	9:38		Middle	2.5	22.40	22.40		8.23	8.23		31.91	31.91		78.4	77.9		5.70	5.60		5.96	6.04		8	
5/11/2010	11:55	Rainy	Middle	2.5	21.80	21.80	21.85	8.23	8.23	8.24	32.02	32.02	32.02	75.9	74.7	74.8	5.68	5.58	5.59	6.96	6.86	6.79	12	12.00
	11:58		Middle	2.5	21.90	21.90		8.24	8.24		32.01	32.01		73.4	75.0		5.49	5.60		7.02	6.31		12	
7/11/2010	12:34	Sunny	Middle	2.5	23.35	23.11	23.17	7.94	7.95	7.94	31.21	31.20	31.20	58.3	55.3	57.1	4.11	3.90	4.02	6.45	6.49	6.46	11	11.00
	12:41		Middle	2.5	23.11	23.11		7.93	7.93		31.17	31.20		59.5	55.1		4.19	3.88		6.33	6.56		11	
10/11/2010	3:53	Cloudy	Middle	2.5	21.13	21.13	21.13	8.16	8.16	8.16	30.96	30.96	30.96	54.2	50.5	52.3	4.02	3.76	3.88	4.25	3.75	3.92	6	6.00
	3:58		Middle	2.5	21.13	21.14		8.16	8.16		30.96	30.96		50.1	54.3		3.71	4.02		3.92	3.75		6	
12/11/2010	5:29	Fine	Middle	2.5	21.63	21.62	21.60	7.89	7.89	7.89	30.68	30.69	30.69	47.1	46.7	47.1	3.46	3.43	3.46	3.06	2.96	3.13	4	4.50
	5:33		Middle	2.5	21.52	21.62		7.89	7.89		30.69	30.70		46.3	48.4		3.40	3.55		3.36	3.13		5	
15/11/2010	7:35	Fine	Middle	2.5	23.00	23.00	23.05	8.11	8.11	8.12	32.20	32.20	32.21	81.1	80.7	81.9	5.77	5.74	5.83	3.97	3.67	3.72	9	10.00
	7:38		Middle	2.5	23.10	23.10		8.12	8.12		32.21	32.21		82.6	83.2		5.89	5.93		3.64	3.60		11	
17/11/2010	7:41	Fine	Middle	2.5	21.60	21.60	21.55	8.06	8.06	8.07	32.07	32.07	32.08	61.5	60.2	61.7	4.50	4.40	4.51	3.91	3.97	3.92	6	5.00
	7:44		Middle	2.5	21.50	21.50		8.07	8.07		32.08	32.08		62.1	62.8		4.54	4.58		4.05	3.74		4	
19/11/2010	23:03	Fine	Middle	2.5	19.37	19.37	19.32	8.18	8.18	8.18	31.74	31.74	31.74	58.5	59.8	59.1	4.47	4.53	4.51	2.57	2.56	2.55	3	3.50
	23:09		Middle	2.5	19.26	19.26		8.18	8.18		31.74	31.74		59.0	58.9		4.51	4.51		2.51	2.54		4	
22/11/2010	23:59	Fine	Middle	2.5	23.17	23.17	23.25	8.18	8.18	8.18	31.82	31.82	31.82	63.1	62.5	62.3	4.42	4.44	4.41	2.57	2.55	2.58	5	4.50
	0:08		Middle	2.5	23.32	23.35		8.18	8.18		31.82	31.82		61.6	61.9		4.37	4.39		2.52	2.68		4	
24/11/2010	1:05	Cloudy	Middle	2.0	22.60	22.60	22.57	8.15	8.15	8.15	31.41	31.41	31.41	47.6	47.4	46.1	3.43	3.42	3.42	2.07	2.67	2.23	5	4.00
	1:12		Middle	2.0	22.54	22.54		8.15	8.15		31.41	31.42		43.8	45.6		3.46	3.38		2.08	2.11		3	
27/11/2010	4:26	Cloudy	Middle	2.5	21.51	21.51	21.56	8.24	8.24	8.24	31.41	31.41	31.41	53.1	52.5	52.0	3.90	3.85	3.83	2.80	2.41	2.35	5	5.00
	4:33		Middle	2.5	21.61	21.61		8.24	8.24		31.40	31.40		51.0	51.4		3.79	3.77		2.17	2.01		5	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:24	Fine	Middle	1.5	20.87	20.86	20.85	8.27	8.28	8.28	30.71	30.71	30.71	53.4	53.7	53.6	3.99	4.01	4.01	2.55	3.04	2.75	6	6.00
	1:30		Middle	1.5	20.84	20.84		8.28	8.28		30.71	30.71		51.9	55.4		3.88	4.14		2.61	2.79		6	
30/10/2010	3:27	Fine	Middle	1.5	19.54	19.54	19.49	8.43	8.43	8.44	31.55	31.55	31.56	50.7	52.3	51.2	3.88	4.00	3.92	2.94	2.90	2.91	5	5.50
	3:34		Middle	1.5	19.44	19.44		8.44	8.44		31.56	31.56		49.9	51.9		3.82	3.97		2.94	2.84		6	
1/11/2010	8:23	Sunny	Middle	1.0	23.20	23.30	23.28	8.19	8.19	8.19	31.63	31.62	31.63	72.6	72.8	72.7	5.15	5.16	5.16	2.23	2.28	2.34	7	8.00
	8:26		Middle	1.0	23.30	23.30		8.19	8.19		31.63	31.63		72.5	73.0		5.14	5.18		2.46	2.37		9	
3/11/2010	9:55	Sunny	Middle	1.0	22.80	22.80	22.78	8.19	8.19	8.19	31.83	31.83	31.83	74.7	73.1	74.1	5.46	5.35	5.42	4.28	4.86	4.37	7	7.50
	9:59		Middle	1.0	22.80	22.70		8.18	8.18		31.83	31.83		74.4	74.0		5.44	5.41		4.39	3.96		8	
5/11/2010	12:05	Rainy	Middle	1.0	21.90	21.90	21.95	8.17	8.17	8.18	31.83	31.83	31.84	72.6	72.3	72.7	5.38	5.35	5.38	5.86	6.33	5.93	9	9.00
	12:08		Middle	1.0	22.00	22.00		8.18	8.18		31.84	31.84		72.5	73.2		5.37	5.42		6.04	5.49		9	
7/11/2010	12:16	Sunny	Middle	2.0	23.91	23.90	23.87	8.11	8.11	8.12	31.27	31.27	31.30	54.3	50.5	52.1	3.83	3.57	3.69	6.77	6.55	6.49	11	11.00
	12:23		Middle	2.0	23.84	23.84		8.13	8.13		31.33	31.33		53.0	50.5		3.80	3.56		6.45	6.18		11	
10/11/2010	3:36	Cloudy	Middle	2.0	20.66	20.67	20.71	8.14	8.14	8.14	31.64	31.64	31.64	57.4	51.2	54.0	4.27	3.81	4.02	2.79	3.41	2.94	6	5.00
	3:43		Middle	2.0	20.76	20.76		8.14	8.14		31.63	31.63		52.8	54.7		3.93	4.07		2.70	2.84		4	
12/11/2010	5:10	Fine	Middle	1.5	22.10	22.10	22.09	7.88	7.88	7.88	31.54	31.54	31.54	49.3	46.7	48.1	3.58	3.39	3.51	8.65	8.77	8.76	24	<u>25.50</u>
	5:18		Middle	1.5	22.07	22.07		7.88	7.88		31.53	31.53		47.0	49.4		3.46	3.59		8.89	8.72		27	
15/11/2010	7:42	Fine	Middle	2.0	22.90	22.90	22.85	8.12	8.12	8.13	32.20	32.20	32.21	76.6	76.8	76.9	5.46	5.48	5.49	6.49	6.88	6.44	14	12.50
	7:45		Middle	2.0	22.80	22.80		8.13	8.13		32.21	32.21		77.3	76.9		5.52	5.49		6.29	6.10		11	
17/11/2010	7:50	Fine	Middle	2.0	21.90	21.90	21.85	8.00	8.00	8.01	31.90	31.90	31.91	61.8	60.0	59.3	4.50	4.36	4.31	4.46	4.11	4.07	7	7.50
	7:53		Middle	2.0	21.80	21.80		8.01	8.01		31.91	31.91		58.3	57.0		4.24	4.15		3.91	3.79		8	
19/11/2010	22:38	Fine	Middle	1.5	19.63	19.63	19.60	8.20	8.20	8.20	31.65	31.65	31.65	56.5	55.4	56.3	4.31	4.22	4.29	2.76	2.16	2.28	4	3.50
	22:47		Middle	1.5	19.57	19.55		8.20	8.20		31.65	31.65		56.4	56.8		4.31	4.33		2.09	2.10		3	
22/11/2010	23:41	Fine	Middle	1.5	23.32	23.32	23.32	8.18	8.18	8.18	31.78	31.78	31.78	58.5	59.5	58.8	4.16	4.23	4.18	3.17	2.97	2.91	3	4.00
	23:49		Middle	1.5	23.31	23.31		8.18	8.18		31.78	31.78		58.5	58.7		4.15	4.17		2.85	2.66		5	
24/11/2010	0:40	Cloudy	Middle	1.5	22.61	22.61	22.59	8.24	8.24	8.26	31.50	31.50	31.51	47.0	47.0	47.5	3.39	3.38	3.44	2.14	1.89	1.97	6	6.00
	0:47		Middle	1.5	22.56	22.56		8.27	8.27		31.51	31.51		47.8	48.0		3.49	3.50		1.85	1.99		6	
27/11/2010	3:57	Cloudy	Middle	1.5	21.58	21.58	21.58	8.27	8.27	8.27	31.52	31.52	31.52	52.0	51.1	51.2	3.81	3.75	3.75	2.32	2.76	2.42	7	6.00
	4:06		Middle	1.5	21.58	21.58		8.27	8.27		31.52	31.52		50.5	51.0		3.71	3.74		2.32	2.27		5	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	1:31	Fine	Middle	1.5	21.29	21.29	21.29	8.31	8.32	8.32	31.40	31.40	31.40	69.8	72.4	69.8	5.15	5.34	5.15	2.99	2.92	3.00	6	6.50
	1:37		Middle	1.5	21.28	21.28		8.32	8.31		31.40	31.40		69.3	67.5		5.11	4.98		3.19	2.88		7	
30/10/2010	3:15	Fine	Middle	1.5	19.23	19.23	19.23	8.18	8.18	8.17	31.54	31.54	31.54	47.7	46.5	50.1	3.65	3.56	3.84	3.94	3.36	3.71	7	6.50
	3:23		Middle	1.5	19.22	19.22		8.16	8.16		31.54	31.54		51.3	55.0		3.93	4.22		3.59	3.94		6	
1/11/2010	8:14	Sunny	Middle	1.0	23.30	23.30	23.33	8.17	8.17	8.17	31.56	31.56	31.56	74.5	73.1	74.5	5.24	5.14	5.24	2.17	2.10	2.17	6	7.00
	8:19		Middle	1.0	23.30	23.40		8.17	8.17		31.56	31.56		74.8	75.5		5.26	5.31		2.20	2.21		8	
3/11/2010	9:49	Sunny	Middle	1.0	22.70	22.80	22.75	8.14	8.14	8.14	31.82	31.82	31.82	72.1	71.3	72.3	5.25	5.19	5.27	4.02	5.09	4.13	6	6.00
	9:52		Middle	1.0	22.70	22.80		8.14	8.14		31.82	31.82		73.3	72.6		5.34	5.30		3.75	3.67		6	
5/11/2010	12:14	Rainy	Middle	1.0	22.70	22.60	22.63	8.16	8.16	8.17	31.80	31.80	31.80	67.5	67.3	67.8	5.03	5.02	5.05	5.22	4.57	4.73	6	6.00
	12:17		Middle	1.0	22.60	22.60		8.17	8.17		31.79	31.79		68.0	68.4		5.06	5.10		4.51	4.61		6	
7/11/2010	12:25	Sunny	Middle	2.0	24.12	24.12	24.08	8.12	8.12	8.12	31.20	31.22	31.23	58.8	52.7	53.5	4.13	3.70	3.76	5.07	5.53	5.22	10	9.50
	12:33		Middle	2.0	24.03	24.03		8.12	8.12		31.24	31.24		50.2	52.3		3.53	3.68		5.12	5.16		9	
10/11/2010	3:45	Cloudy	Middle	2.0	20.64	20.64	20.64	8.10	8.10	8.10	30.88	30.88	30.88	54.2	59.8	55.0	4.06	4.49	4.12	2.33	2.42	2.35	6	5.50
	3:53		Middle	2.0	20.64	20.63		8.10	8.10		30.88	30.88		55.4	50.6		4.15	3.79		2.12	2.54		5	
12/11/2010	5:20	Fine	Middle	1.5	21.84	21.84	21.84	7.77	7.77	7.77	31.47	31.47	31.48	48.4	52.2	49.7	3.53	3.81	3.63	3.34	3.39	3.29	8	7.50
	5:28		Middle	1.5	21.83	21.83		7.77	7.78		31.48	31.48		50.6	47.5		3.69	3.47		3.29	3.14		7	
15/11/2010	7:48	Fine	Middle	1.5	23.00	23.10	23.08	8.00	8.00	8.00	31.79	31.79	31.80	76.8	77.1	76.7	5.49	5.51	5.48	4.42	4.33	4.34	10	9.00
	7:51		Middle	1.5	23.10	23.10		7.99	8.00		31.80	31.80		76.7	76.3		5.48	5.45		4.30	4.32		8	
17/11/2010	7:57	Fine	Middle	2.0	21.90	21.90	21.90	8.06	8.06	8.06	32.00	32.00	32.00	62.6	61.0	60.4	4.56	4.44	4.38	6.96	6.86	6.64	10	10.00
	8:00		Middle	2.0	21.90	21.90		8.05	8.05		31.99	31.99		59.9	58.0		4.33	4.20		6.53	6.19		10	
19/11/2010	22:49	Fine	Middle	1.5	19.53	19.53	19.48	8.04	8.04	8.02	31.65	31.65	31.67	59.1	60.0	59.2	4.51	4.62	4.53	3.06	2.85	2.90	4	3.50
	22:58		Middle	1.5	19.50	19.37		8.00	8.00		31.69	31.69		59.5	58.0		4.54	4.43		2.91	2.76		3	
22/11/2010	23:51	Fine	Middle	1.5	23.33	23.33	23.36	8.15	8.15	8.15	31.74	31.74	31.74	59.9	59.9	59.4	4.25	4.25	4.22	4.65	4.24	4.46	9	9.50
	23:58		Middle	1.5	23.38	23.39		8.15	8.15		31.74	31.74		59.0	58.9		4.19	4.18		4.09	4.85		10	
24/11/2010	0:50	Cloudy	Middle	1.5	23.02	23.02	23.02	8.32	8.32	8.32	31.54	31.54	31.54	50.8	49.9	50.4	3.63	3.57	3.60	2.55	2.05	2.23	7	7.50
	0:58		Middle	1.5	23.02	23.02		8.32	8.32		31.54	31.54		51.0	50.0		3.65	3.53		2.25	2.08		8	
27/11/2010	4:07	Cloudy	Middle	1.5	21.79	21.79	21.79	8.19	8.19	8.19	31.40	31.40	31.40	51.6	51.1	50.8	3.78	3.74	3.72	1.88	1.89	1.84	4	4.00
	4:14		Middle	1.5	21.79	21.79		8.19	8.19		31.40	31.40		50.4	50.2		3.69	3.67		1.68	1.92		4	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	2:10	Fine	Middle	1.5	21.87	21.86	21.86	8.32	8.32	8.32	31.27	31.27	31.28	66.6	63.3	65.8	4.87	4.63	4.82	3.56	3.82	3.57	9	8.00
	2:18		Middle	1.5	21.86	21.86		8.31	8.31		31.29	31.29		64.8	68.5		4.74	5.02		3.53	3.38		7	
30/10/2010	4:22	Fine	Middle	1.5	20.06	20.05	20.01	8.36	8.36	8.36	31.27	31.27	31.31	50.4	48.5	50.2	3.81	3.67	3.80	5.62	5.03	5.16	7	6.50
	4:28		Middle	1.5	19.94	20.00		8.36	8.36		31.36	31.34		50.3	51.7		3.80	3.91		5.13	4.87		6	
1/11/2010	8:50	Sunny	Middle	1.0	23.50	23.50	23.53	8.17	8.17	8.17	31.77	31.77	31.77	70.6	73.5	72.2	4.93	5.14	5.05	2.47	2.47	2.50	8	8.00
	8:54		Middle	1.0	23.60	23.50		8.17	8.17		31.77	31.77		72.8	71.9		5.09	5.03		2.53	2.51		8	
3/11/2010	10:35	Sunny	Middle	1.0	22.60	22.60	22.60	8.16	8.16	8.16	31.83	31.83	31.83	69.3	69.7	69.8	5.02	5.05	5.06	3.68	3.45	3.93	7	6.00
	10:38		Middle	1.0	22.60	22.60		8.16	8.16		31.84	31.83		70.9	69.4		5.14	5.03		4.57	4.03		5	
5/11/2010	12:36	Rainy	Middle	1.5	22.00	22.00	22.05	8.15	8.15	8.15	31.76	31.76	31.76	70.4	70.7	70.9	5.22	5.35	5.28	4.32	4.19	4.28	14	12.50
	12:39		Middle	1.5	22.10	22.10		8.14	8.14		31.75	31.75		71.1	71.4		5.26	5.30		4.35	4.27		11	
7/11/2010	11:46	Sunny	Middle	1.5	23.35	23.29	23.29	8.14	8.14	8.15	31.43	31.43	31.43	53.4	55.3	54.3	3.81	3.94	3.84	3.54	3.43	3.53	6	6.50
	11:52		Middle	1.5	23.26	23.27		8.15	8.15		31.43	31.43		51.4	57.0		3.66	3.96		3.41	3.72		7	
10/11/2010	3:13	Cloudy	Middle	1.5	21.02	21.02	20.98	8.18	8.18	8.18	31.39	31.39	31.41	55.6	55.1	54.6	4.12	4.08	4.05	3.17	2.86	3.00	5	6.00
	3:21		Middle	1.5	20.93	20.94		8.18	8.18		31.40	31.44		51.1	56.5		3.79	4.19		2.91	3.04		7	
12/11/2010	4:07	Fine	Middle	1.5	21.34	21.34	21.34	7.79	7.79	7.79	31.50	31.50	31.50	53.2	54.0	52.4	3.92	3.98	3.86	5.25	5.60	5.29	5	6.00
	4:13		Middle	1.5	21.34	21.34		7.79	7.79		31.50	31.50		49.7	52.7		3.66	3.88		5.27	5.05		7	
15/11/2010	8:20	Fine	Middle	1.5	23.20	23.20	23.25	8.10	8.10	8.11	31.96	31.96	31.96	64.7	63.6	63.2	4.60	4.53	4.50	6.27	6.18	6.05	13	13.00
	8:23		Middle	1.5	23.30	23.30		8.11	8.11		31.97	31.96		62.7	61.9		4.45	4.40		5.79	5.97		13	
17/11/2010	8:26	Fine	Middle	1.5	22.20	22.20	22.15	8.11	8.11	8.12	32.03	32.03	32.04	60.5	59.5	59.1	4.40	4.31	4.29	5.21	5.33	5.14	8	9.00
	8:29		Middle	1.5	22.10	22.10		8.12	8.12		32.04	32.04		58.4	57.8		4.25	4.19		5.17	4.86		10	
19/11/2010	22:13	Fine	Middle	1.5	19.74	19.74	19.72	8.09	8.09	8.09	31.68	31.68	31.68	56.6	54.1	55.2	4.30	4.10	4.19	2.51	2.39	2.31	3	3.00
	22:18		Middle	1.5	19.70	19.70		8.09	8.09		31.68	31.68		55.3	54.9		4.19	4.16		2.08	2.26		3	
22/11/2010	22:56	Fine	Middle	1.5	22.81	22.81	22.81	8.21	8.21	8.21	31.83	31.83	31.82	50.7	52.0	51.4	3.62	3.72	3.67	2.44	2.61	2.49	4	3.50
	23:06		Middle	1.5	22.81	22.81		8.21	8.21		31.84	31.76		51.0	51.7		3.64	3.70		2.60	2.32		3	
24/11/2010	23:55	Cloudy	Middle	1.5	22.61	22.61	22.61	8.31	8.31	8.31	31.53	31.53	31.53	43.7	45.2	44.6	3.45	3.58	3.54	2.51	2.70	2.47	6	5.00
	0:06		Middle	1.5	22.61	22.61		8.31	8.31		31.53	31.53		45.3	44.0		3.57	3.57		2.39	2.28		4	
27/11/2010	3:10	Cloudy	Middle	1.5	21.65	21.65	26.64	8.28	8.28	8.28	31.47	31.47	31.47	50.6	50.1	49.8	3.71	3.70	3.66	2.17	2.20	2.19	3	4.00
	3:17		Middle	1.5	31.63	31.63		8.28	8.28		31.47	31.47		49.0	49.5		3.59	3.63		2.16	2.24		5	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids					
					°C		-		ppt		%		mg/L		NTU		mg/L						
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average				
28/10/2010	2:19	Fine	Middle	1.5	21.88	21.87	8.32	8.32	8.32	31.35	31.36	31.37	72.2	69.0	71.5	5.28	5.04	5.23	5.74	6.16	5.77	12	11.00
	2:26		Middle	1.5	21.88	21.84	8.32	8.32	8.32	31.38	31.38	31.38	68.9	76.0	71.5	5.04	5.55	5.23	5.76	5.40	5.77	10	
30/10/2010	4:30	Fine	Middle	1.5	19.85	19.84	8.38	8.40	8.40	31.63	31.50	31.53	58.5	52.5	54.3	4.46	4.00	4.13	5.37	5.21	5.75	9	9.50
	4:37		Middle	1.5	19.84	19.84	8.42	8.41	8.40	31.50	31.50	31.53	54.2	52.1	54.3	4.10	3.94	4.13	6.54	5.86	5.75	10	
1/11/2010	8:57	Sunny	Middle	1.0	23.60	23.53	8.18	8.18	8.18	31.63	31.63	31.63	73.9	74.4	75.1	5.25	5.29	5.34	2.34	2.31	2.28	12	9.00
	8:59		Middle	1.0	23.50	23.50	8.18	8.18	8.18	31.63	31.63	31.63	76.0	76.2	75.1	5.40	5.42	5.34	2.19	2.27	2.28	6	
3/11/2010	10:43	Sunny	Middle	1.0	22.70	22.60	8.15	8.15	8.15	31.85	31.85	31.85	69.9	70.3	69.8	5.05	5.08	5.04	4.03	4.89	5.25	10	11.00
	10:46		Middle	1.0	22.60	22.50	8.15	8.15	8.15	31.85	31.85	31.85	70.8	68.1	69.8	5.12	4.92	5.04	5.48	6.59	5.25	12	
5/11/2010	12:42	Rainy	Middle	1.5	22.40	22.35	8.17	8.17	8.17	31.73	31.73	31.74	68.7	69.8	69.1	5.05	5.14	5.08	4.58	4.68	4.40	15	13.50
	12:45		Middle	1.5	22.30	22.30	8.16	8.16	8.17	31.74	31.74	31.74	68.3	69.6	69.1	5.02	5.12	5.08	4.20	4.12	4.40	12	
7/11/2010	11:54	Sunny	Middle	1.5	23.02	23.02	8.15	8.15	8.14	31.42	31.42	31.42	53.7	52.1	52.2	3.84	3.72	3.73	4.63	4.27	4.30	7	8.50
	12:00		Middle	1.5	23.02	23.02	8.12	8.12	8.14	31.42	31.42	31.42	50.4	52.6	52.2	3.60	3.76	3.73	3.97	4.34	4.30	10	
10/11/2010	3:21	Cloudy	Middle	1.5	21.78	21.68	8.12	8.12	8.13	31.20	31.20	31.21	51.0	51.8	51.4	3.74	3.79	3.77	2.82	2.51	2.61	4	3.50
	3:28		Middle	1.5	21.59	21.57	8.13	8.13	8.13	31.20	31.23	31.21	52.3	50.5	51.4	3.84	3.71	3.77	2.44	2.66	2.61	3	
12/11/2010	4:14	Fine	Middle	1.5	21.58	21.58	7.83	7.83	7.83	31.39	31.39	31.40	54.9	57.7	56.1	4.03	4.24	4.12	3.78	3.79	3.76	8	7.50
	4:12		Middle	1.5	21.57	21.57	7.83	7.83	7.83	31.40	31.40	31.40	57.2	54.5	56.1	4.20	4.00	4.12	3.65	3.81	3.76	7	
15/11/2010	8:25	Fine	Middle	1.5	22.80	22.85	8.05	8.05	8.06	32.00	32.00	32.00	62.9	63.8	63.2	4.52	4.56	4.53	5.07	4.81	4.72	9	8.00
	8:28		Middle	1.5	22.90	22.90	8.06	8.06	8.06	31.99	31.99	32.00	62.5	63.5	63.2	4.47	4.55	4.53	4.70	4.31	4.72	7	
17/11/2010	8:32	Fine	Middle	1.5	22.10	22.15	8.07	8.07	8.08	32.02	32.02	32.03	60.2	58.8	58.4	4.37	4.24	4.22	8.91	8.67	8.66	27	29.50
	8:35		Middle	1.5	22.20	22.20	8.08	8.08	8.08	32.03	32.03	32.03	57.6	56.8	58.4	4.17	4.10	4.22	8.92	8.13	8.66	32	
19/11/2010	22:21	Fine	Middle	1.5	19.83	19.77	8.23	8.23	8.22	31.58	31.59	31.65	58.8	58.4	57.4	4.46	4.43	4.35	3.53	3.12	3.41	6	5.50
	22:27		Middle	1.5	19.81	19.61	8.20	8.20	8.22	31.72	31.72	31.65	56.4	56.1	57.4	4.24	4.26	4.35	3.83	3.17	3.41	5	
22/11/2010	23:09	Fine	Middle	1.5	22.81	22.82	8.09	8.09	8.09	31.75	31.75	31.75	47.9	47.4	47.4	3.43	3.40	3.41	1.61	1.51	1.58	3	3.00
	23:15		Middle	1.5	22.82	22.82	8.09	8.09	8.09	31.74	31.74	31.75	47.4	47.0	47.4	3.40	3.39	3.41	1.43	1.77	1.58	<2	
24/11/2010	0:08	Cloudy	Middle	1.5	22.80	22.79	8.25	8.25	8.26	31.50	31.50	31.50	44.5	44.4	44.0	3.40	3.49	3.54	1.96	1.44	1.60	5	4.50
	0:14		Middle	1.5	22.78	22.78	8.26	8.26	8.26	31.50	31.51	31.50	42.9	44.1	44.0	3.68	3.57	3.54	1.64	1.36	1.60	4	
27/11/2010	3:20	Cloudy	Middle	1.5	21.93	21.96	8.23	8.23	8.23	31.40	31.40	31.40	44.1	43.2	43.9	3.42	3.45	3.43	1.34	1.43	1.34	3	3.00
	3:26		Middle	1.5	21.99	21.99	8.23	8.23	8.23	31.40	31.40	31.40	44.2	44.2	43.9	3.42	3.42	3.43	1.27	1.32	1.34	3	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	2:28	Fine	Middle	2.0	19.43	19.40	19.41	8.14	8.13	8.14	31.16	31.16	31.16	56.1	51.2	52.8	4.41	3.92	4.05	4.42	4.87	4.86	12	11.50
	2:36		Middle	2.0	19.40	19.40		8.14	8.13		31.16	31.17		53.0	50.9		4.06	3.80		5.13	5.01		11	
30/10/2010	4:14	Fine	Middle	2.0	18.75	18.74	18.70	8.52	8.51	8.52	31.63	31.63	31.62	52.1	50.4	51.3	4.04	3.91	3.98	6.86	6.96	7.19	9	9.00
	4:21		Middle	2.0	18.67	18.63		8.52	8.52		31.61	31.61		52.4	50.2		4.07	3.90		7.81	7.14		9	
1/11/2010	8:35	Sunny	Middle	2.0	23.30	23.30	23.25	8.19	8.19	8.19	31.73	31.73	31.73	74.9	75.4	75.5	5.32	5.35	5.36	3.40	3.29	3.39	7	7.50
	8:38		Middle	2.0	23.30	23.10		8.19	8.19		31.73	31.73		76.3	75.2		5.41	5.34		3.48	3.37		8	
3/11/2010	10:14	Sunny	Middle	2.0	22.50	22.50	22.50	8.16	8.16	8.17	31.74	31.74	31.75	75.3	74.1	75.0	5.50	5.41	5.47	5.22	5.54	5.70	8	8.00
	10:18		Middle	2.0	22.50	22.50		8.18	8.18		31.75	31.75		75.8	74.7		5.53	5.45		6.45	5.57		8	
5/11/2010	12:29	Rainy	Middle	1.5	22.10	22.10	22.05	8.20	8.20	8.20	31.87	31.87	31.87	74.3	74.1	75.0	5.50	5.48	5.55	5.39	5.45	5.48	12	<u>15.50</u>
	12:32		Middle	1.5	22.00	22.00		8.19	8.19		31.86	31.86		75.1	76.5		5.57	5.65		5.55	5.53		19	
7/11/2010	11:37	Sunny	Middle	2.5	24.68	24.70	24.70	8.35	8.35	8.35	31.32	31.32	31.32	52.1	52.1	51.8	3.72	3.73	3.69	5.82	5.31	5.51	10	10.00
	11:45		Middle	2.5	24.71	24.71		8.35	8.35		31.32	31.32		52.0	50.8		3.66	3.64		5.57	5.32		10	
10/11/2010	3:04	Cloudy	Middle	2.0	21.70	21.71	21.70	8.08	8.08	8.09	31.17	31.17	31.18	53.5	55.3	55.8	3.92	4.05	4.10	3.42	3.44	3.52	11	11.50
	3:09		Middle	2.0	21.69	21.69		8.09	8.09		31.19	31.19		56.9	57.6		4.18	4.23		3.87	3.33		12	
12/11/2010	3:59	Fine	Middle	2.0	21.89	21.89	21.89	7.81	7.81	7.81	30.09	30.08	30.08	47.7	48.3	48.6	3.73	3.78	3.80	4.16	4.03	4.15	12	12.50
	4:05		Middle	2.0	21.89	21.89		7.81	7.81		30.08	30.08		47.2	51.2		3.69	4.00		4.11	4.29		13	
15/11/2010	8:05	Fine	Middle	2.0	23.00	23.00	23.05	8.12	8.12	8.13	32.11	32.11	32.11	62.9	63.1	62.2	4.48	4.50	4.43	6.26	5.93	5.66	12	<u>13.50</u>
	8:08		Middle	2.0	23.10	23.10		8.13	8.13		32.10	32.10		61.1	61.6		4.35	4.40		5.27	5.16		15	
17/11/2010	8:16	Fine	Middle	2.0	21.90	21.90	21.85	8.13	8.13	8.14	32.02	32.02	32.02	63.2	60.7	61.6	4.61	4.43	4.49	6.11	5.94	6.24	30	<u>28.00</u>
	8:19		Middle	2.0	21.80	21.80		8.14	8.14		32.01	32.01		62.2	60.1		4.54	4.38		6.05	6.86		26	
19/11/2010	22:00	Fine	Middle	2.0	20.60	20.59	20.59	8.28	8.28	8.28	31.58	31.58	31.58	62.0	58.7	59.3	4.63	4.36	4.42	2.50	2.41	2.34	3	2.50
	22:07		Middle	2.0	20.59	20.56		8.28	8.28		31.58	31.58		57.9	58.6		4.31	4.36		2.12	2.33		2	
22/11/2010	22:45	Fine	Middle	2.0	23.76	23.75	23.75	8.15	8.15	8.15	31.43	31.43	31.43	54.1	54.9	55.9	3.82	3.88	3.85	1.87	1.75	1.88	6	5.00
	22:52		Middle	2.0	23.74	23.74		8.15	8.15		31.43	31.43		59.8	54.7		3.81	3.87		1.92	1.98		4	
24/11/2010	23:45	Cloudy	Middle	2.0	22.40	22.41	22.40	8.14	8.14	8.14	31.42	31.42	31.42	47.8	48.3	48.1	3.76	3.79	3.76	2.12	2.32	2.25	6	5.00
	23:52		Middle	2.0	22.40	22.40		8.14	8.13		31.42	31.42		47.0	49.3		3.70	3.77		2.12	2.44		4	
27/11/2010	3:00	Cloudy	Middle	2.0	21.71	21.71	21.72	8.27	8.27	8.27	31.39	31.39	31.39	49.8	49.5	49.6	3.78	3.76	3.76	1.79	1.64	1.68	4	4.50
	3:08		Middle	2.0	21.72	21.72		8.27	8.27		31.39	31.39		49.8	49.2		3.76	3.74		1.67	1.62		5	



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

Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	2:51	Fine	Middle	1.5	18.67	18.67	18.67	8.05	8.05	8.05	31.40	31.40	31.40	52.1	50.2	51.2	4.03	3.88	3.96	4.60	5.01	4.40	8	9.00
	2:58		Middle	1.5	18.67	18.67		8.04	8.04		31.40	31.40		48.9	53.4		3.78	4.13		4.10	3.88		10	
30/10/2010	3:15	Fine	Middle	1.5	19.03	19.03	19.04	8.50	8.50	8.50	31.57	31.57	31.56	56.0	53.2	53.0	4.30	4.09	4.08	5.47	5.52	5.81	7	6.50
	3:22		Middle	1.5	19.05	19.05		8.50	8.50		31.55	31.55		51.5	51.3		3.96	3.95		6.05	6.19		6	
1/11/2010	9:50	Sunny	Middle	1.5	23.70	23.70	23.70	8.25	8.25	8.26	32.04	32.04	32.02	77.9	76.6	77.0	5.49	5.40	5.43	6.07	6.05	5.98	12	12.00
	9:55		Middle	1.5	23.70	23.70		8.26	8.26		31.99	31.99		77.7	75.7		5.48	5.34		5.85	5.94		12	
3/11/2010	10:40	Sunny	Middle	1.5	22.80	22.80	22.80	8.13	8.13	8.14	31.85	31.85	31.88	71.3	69.3	70.8	5.10	4.96	5.07	6.46	6.38	6.32	8	9.00
	10:43		Middle	1.5	22.80	22.80		8.14	8.14		31.91	31.91		71.9	70.6		5.15	5.06		6.22	6.20		10	
5/11/2010	12:23	Rainy	Middle	1.5	21.30	21.30	21.20	8.25	8.25	8.24	31.77	31.77	31.82	74.3	73.0	74.6	5.48	5.39	5.50	10.20	10.30	9.89	13	13.50
	12:26		Middle	1.5	21.10	21.10		8.22	8.22		31.86	31.86		75.9	75.0		5.60	5.54		9.47	9.60		14	
7/11/2010	12:21	Sunny	Middle	2.0	24.86	24.85	24.82	8.41	8.41	8.42	31.47	31.47	31.49	58.4	54.5	57.5	4.04	3.77	3.98	6.97	6.72	6.80	12	11.00
	12:28		Middle	2.0	24.78	24.78		8.42	8.42		31.51	31.51		57.0	59.9		3.95	4.16		6.44	7.06		10	
10/11/2010	3:55	Cloudy	Middle	2.0	22.18	22.18	22.17	8.23	8.23	8.21	31.35	31.35	31.35	75.5	78.2	77.2	5.56	5.75	5.68	5.32	5.39	5.26	11	10.50
	4:05		Middle	2.0	22.16	22.16		8.19	8.20		31.34	31.34		77.4	77.7		5.70	5.72		5.14	5.17		10	
12/11/2010	5:54	Fine	Middle	2.0	21.95	21.98	21.97	7.83	7.83	7.83	31.82	31.82	31.82	52.7	52.3	53.8	3.83	3.80	3.91	3.72	4.03	3.71	6	5.00
	6:02		Middle	2.0	21.98	21.98		7.83	7.83		31.82	31.82		52.8	57.2		3.84	4.16		3.53	3.57		4	
15/11/2010	8:50	Fine	Middle	1.5	22.87	22.87	22.89	7.61	7.61	7.61	31.83	31.83	31.83	83.4	82.7	81.8	5.96	5.91	5.84	6.00	5.16	5.88	9	8.50
	8:54		Middle	1.5	22.91	22.91		7.60	7.60		31.83	31.83		81.8	79.2		5.84	5.66		6.54	5.82		8	
17/11/2010	11:02	Fine	Middle	1.5	22.75	22.74	22.74	8.03	8.04	8.03	31.79	31.79	31.82	84.9	83.4	83.9	6.09	5.99	6.02	6.26	5.90	5.76	9	9.50
	11:05		Middle	1.5	22.74	22.74		8.03	8.03		31.85	31.85		84.4	82.8		6.05	5.93		5.39	5.47		10	
19/11/2010	0:15	Fine	Middle	2.0	20.57	20.56	20.55	8.26	8.26	8.26	31.71	31.71	31.71	61.2	58.9	59.9	4.57	4.40	4.48	2.82	2.89	2.71	5	4.00
	0:24		Middle	2.0	20.54	20.54		8.26	8.26		31.71	31.71		58.5	61.1		4.37	4.56		2.57	2.55		3	
22/11/2010	0:19	Fine	Middle	2.0	24.31	24.30	24.29	8.23	8.23	8.23	31.81	31.81	31.81	57.1	57.3	56.7	3.99	4.00	3.97	3.61	3.47	3.77	7	7.00
	0:25		Middle	2.0	24.27	24.27		8.23	8.23		31.81	31.81		56.0	56.5		3.91	3.98		4.00	3.98		7	
24/11/2010	1:40	Cloudy	Middle	2.0	22.38	22.37	22.37	8.16	8.16	8.16	30.61	30.61	30.61	46.0	47.0	46.3	3.76	3.72	3.75	3.67	3.05	3.17	7	6.00
	1:50		Middle	2.0	22.36	22.36		8.16	8.16		30.61	30.62		44.4	47.8		3.74	3.76		3.03	2.93		5	
27/11/2010	4:35	Cloudy	Middle	2.0	21.59	21.59	21.59	8.16	8.16	8.16	31.38	31.38	31.38	48.1	48.1	48.2	3.80	3.79	3.81	3.62	2.39	2.91	4	5.00
	4:43		Middle	2.0	21.59	21.59		8.16	8.16		31.38	31.38		48.7	48.0		3.84	3.79		3.36	2.25		6	



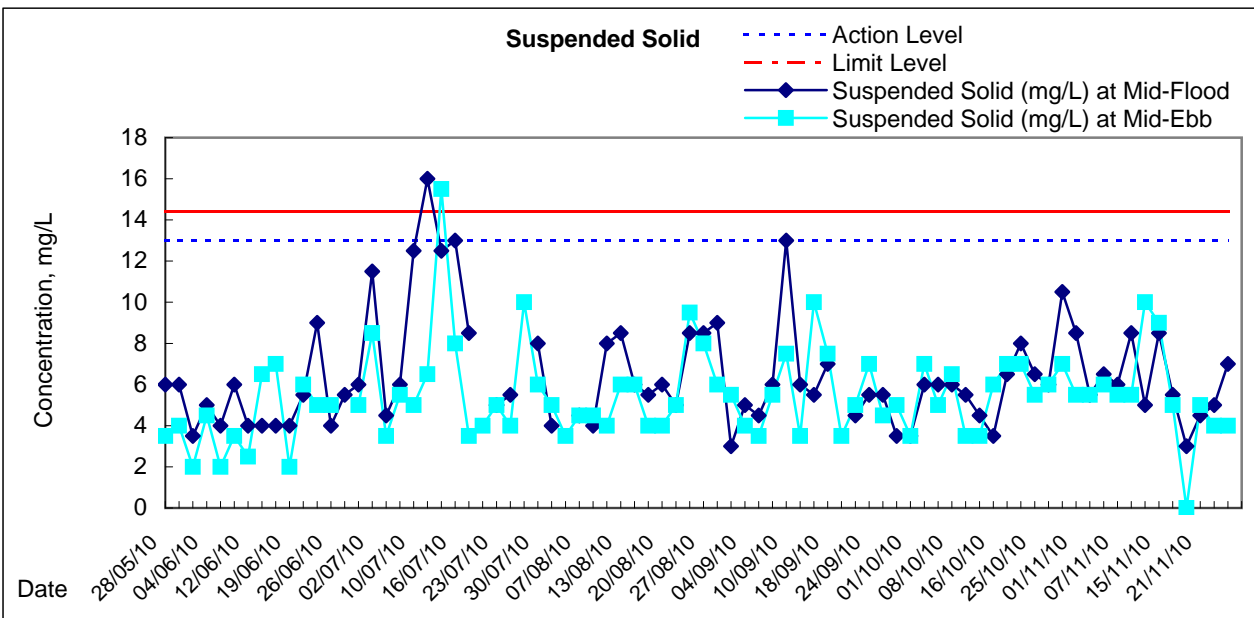
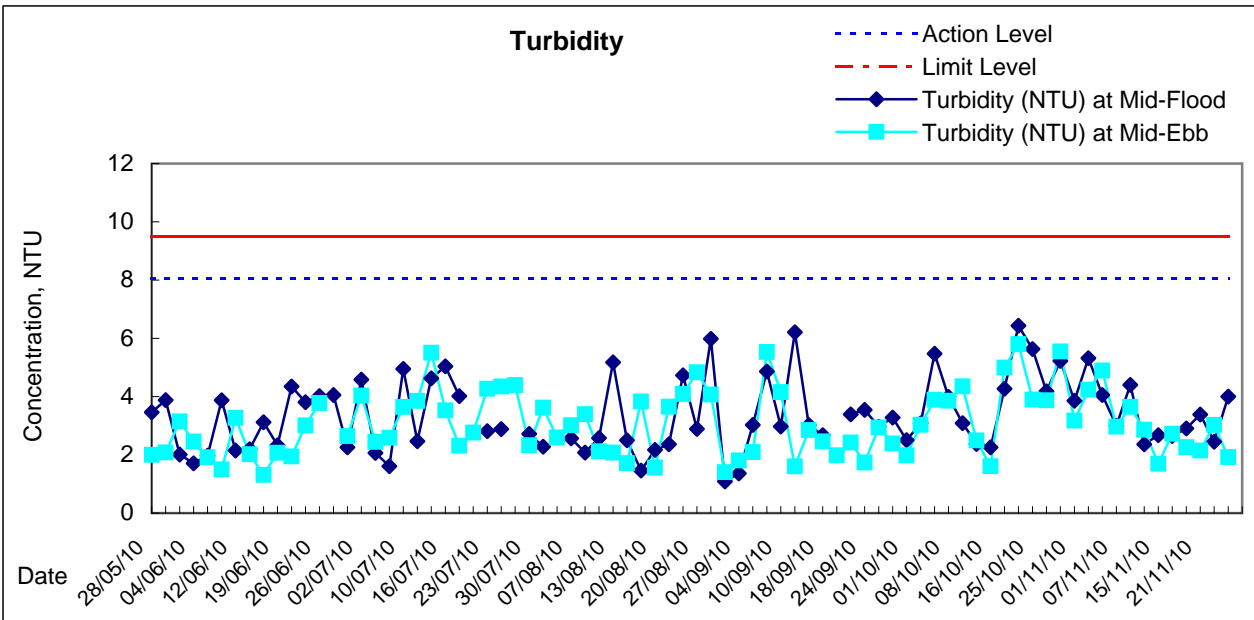
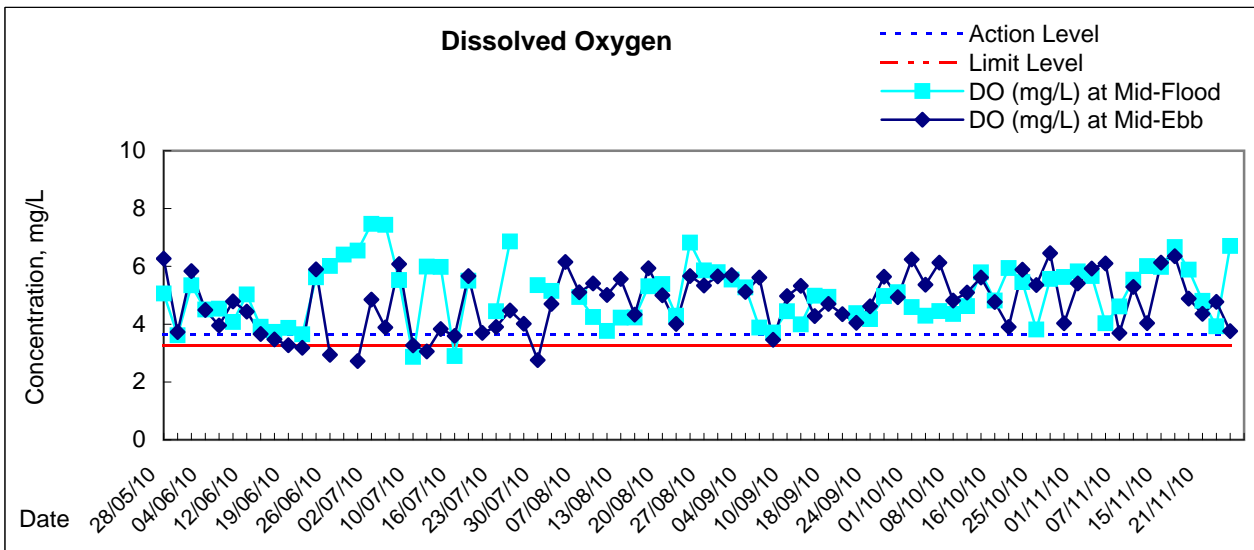
**Water Monitoring Result at WSD20 - Kennedy Town
Mid-Ebb Tide**

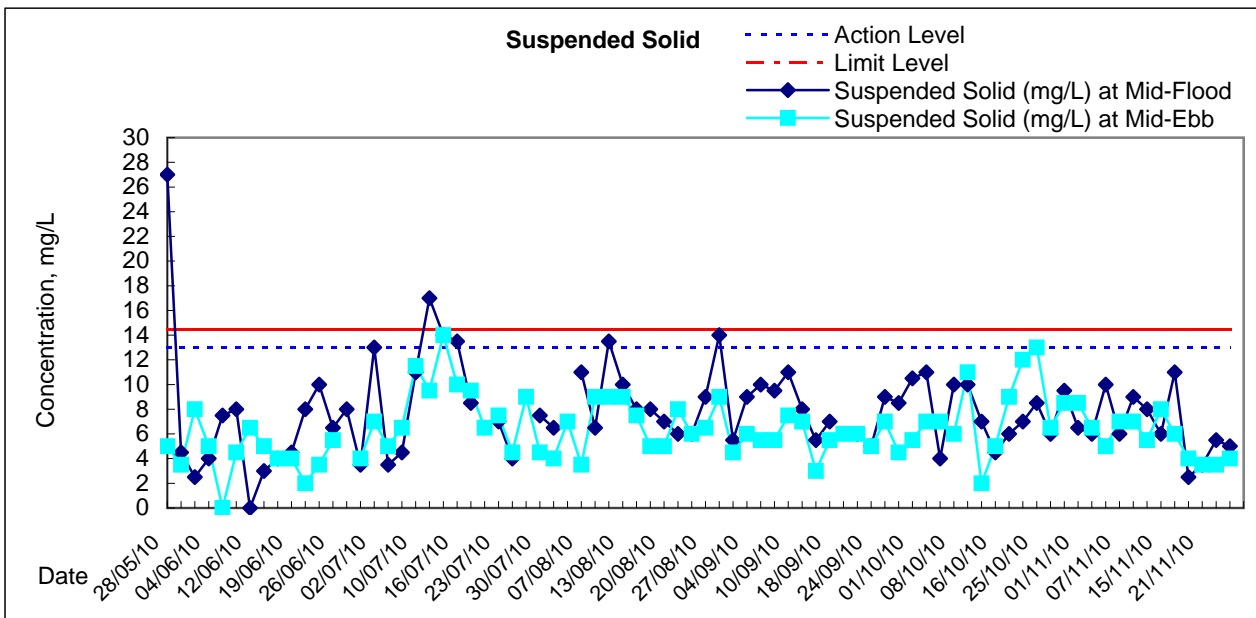
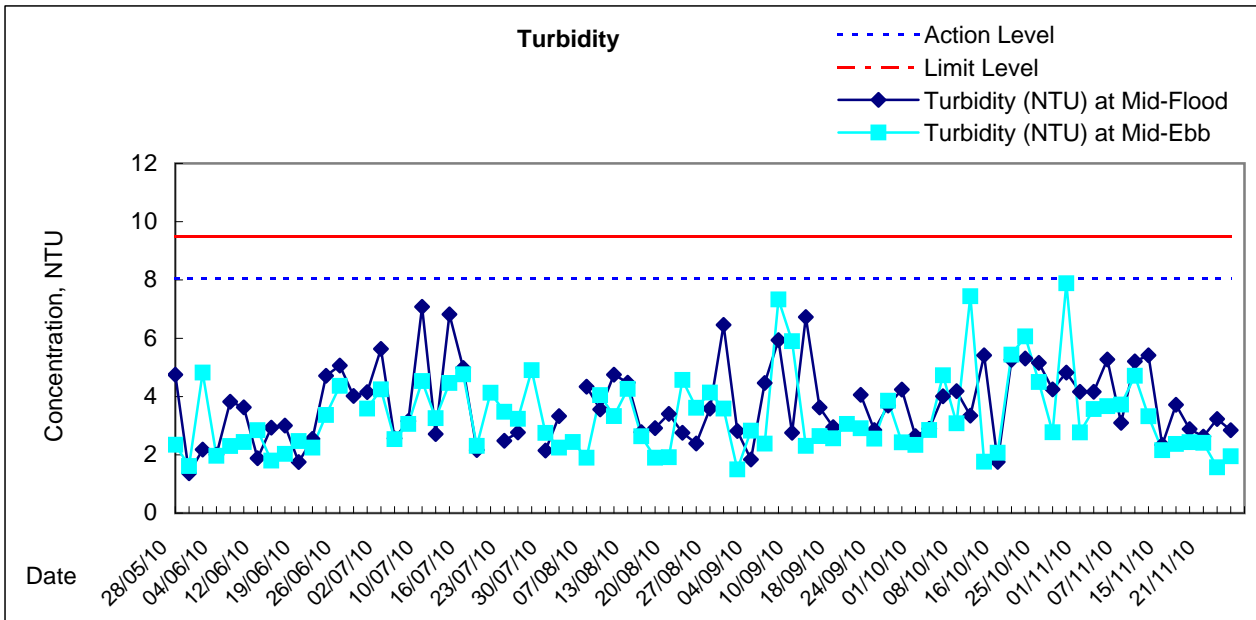
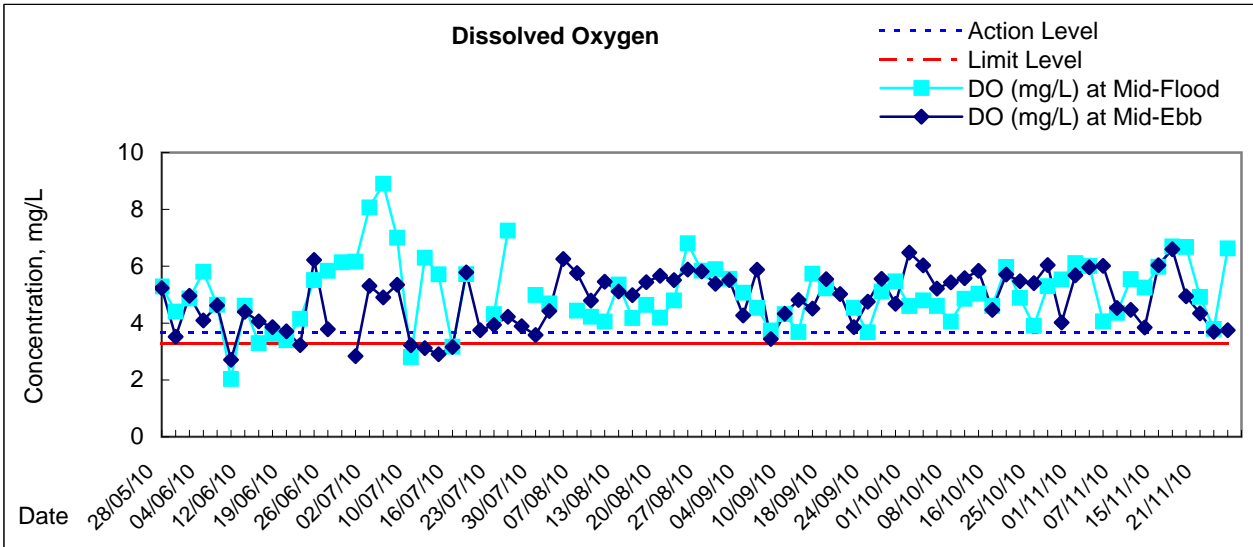
Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	3:05	Fine	Middle	1.5	22.46	22.44	22.45	8.41	8.41	8.41	31.39	31.39	31.40	81.3	79.6	80.1	5.88	5.83	5.81	4.93	4.11	4.64	6	7.00
	3:10		Middle	1.5	22.44	22.44		8.41	8.41		31.40	31.40		81.0	78.4		5.86	5.67		4.64	4.86		8	
30/10/2010	3:35	Fine	Middle	1.5	19.88	19.88	19.88	8.58	8.58	8.59	31.64	31.64	31.64	54.0	53.6	53.2	4.08	4.05	4.03	4.72	4.58	4.59	8	7.00
	3:40		Middle	1.5	19.88	19.88		8.60	8.60		31.64	31.64		52.3	53.0		3.96	4.01		4.57	4.47		6	
1/11/2010	11:00	Sunny	Middle	1.5	23.60	23.60	23.65	8.34	8.34	8.32	32.05	32.05	32.06	80.4	79.7	80.6	5.66	5.62	5.68	7.49	7.24	7.07	14	<u>19.00</u>
	11:04		Middle	1.5	23.70	23.70		8.29	8.29		32.07	32.07		81.5	80.6		5.75	5.69		7.07	6.47		24	
3/11/2010	10:53	Sunny	Middle	1.5	23.50	23.40	23.33	8.20	8.20	8.22	31.89	31.89	31.95	76.3	75.1	75.8	5.41	5.33	5.38	11.30	11.20	<u>10.90</u>	12	13.00
	10:56		Middle	1.5	23.20	23.20		8.23	8.23		32.01	32.01		76.3	75.5		5.42	5.35		10.60	10.50		14	
5/11/2010	12:00	Rainy	Middle	1.5	22.10	22.10	21.95	8.31	8.31	8.29	32.06	32.06	32.12	77.9	76.9	77.3	5.67	5.59	5.62	9.50	9.57	<u>9.06</u>	13	<u>14.00</u>
	12:04		Middle	1.5	21.80	21.80		8.27	8.27		32.17	32.17		77.7	76.5		5.65	5.57		8.60	8.58		15	
7/11/2010	12:04	Sunny	Middle	1.5	25.66	25.63	25.57	8.27	8.27	8.27	31.68	31.70	31.72	59.6	53.1	56.9	4.08	3.60	3.89	6.43	6.44	6.29	10	9.50
	12:09		Middle	1.5	25.50	25.49		8.27	8.27		31.75	31.75		59.4	55.6		4.07	3.80		6.21	6.07		9	
10/11/2010	3:37	Cloudy	Middle	1.5	21.31	21.30	21.32	8.24	8.23	8.24	31.02	31.02	31.02	58.3	50.9	54.8	4.30	3.75	4.05	3.38	3.86	3.69	6	6.00
	3:42		Middle	1.5	21.33	21.32		8.23	8.24		31.02	31.03		50.6	59.5		3.74	4.39		3.60	3.92		6	
12/11/2010	5:40	Fine	Middle	1.5	22.53	22.52	22.53	8.13	8.12	8.12	31.85	31.85	31.85	58.1	59.8	59.8	4.18	4.30	4.30	4.87	4.99	4.75	6	6.50
	5:45		Middle	1.5	22.54	22.54		8.11	8.11		31.85	31.85		65.1	56.3		4.68	4.04		4.64	4.48		7	
15/11/2010	8:28	Fine	Middle	1.5	22.87	22.87	22.88	7.81	7.81	7.81	31.76	31.76	31.77	83.2	82.8	82.7	5.95	5.92	5.92	6.72	6.47	6.47	12	12.00
	8:31		Middle	1.5	22.89	22.89		7.80	7.80		31.78	31.78		82.6	82.0		5.91	5.88		6.22	6.47		12	
17/11/2010	10:43	Fine	Middle	1.5	22.55	22.55	22.54	8.07	8.07	8.07	31.69	31.69	31.71	84.0	82.5	83.1	6.05	5.94	5.99	6.45	5.60	5.86	10	10.00
	10:46		Middle	1.5	22.53	22.53		8.06	8.06		31.72	31.72		82.7	83.1		5.96	5.99		5.65	5.72		10	
19/11/2010	23:50	Fine	Middle	1.5	19.51	19.51	19.55	8.21	8.20	8.20	31.93	31.93	31.93	59.9	60.5	59.5	4.54	4.58	4.51	4.41	4.33	4.27	3	3.50
	23:58		Middle	1.5	19.59	19.59		8.20	8.20		31.93	31.92		60.4	57.3		4.57	4.34		4.19	4.13		4	
22/11/2010	0:02	Fine	Middle	1.5	22.94	22.94	22.94	8.24	8.24	8.24	32.08	32.08	32.08	65.5	64.0	64.8	4.68	4.57	4.63	3.57	3.78	3.43	4	5.00
	0:07		Middle	1.5	22.94	22.93		8.24	8.24		32.08	32.08		66.2	63.5		4.72	4.53		3.21	3.16		6	
24/11/2010	1:20	Cloudy	Middle	1.5	22.56	22.56	22.46	8.23	8.24	8.24	31.59	31.59	31.58	50.8	50.3	50.3	3.87	3.82	3.77	3.44	3.18	3.18	5	4.50
	1:25		Middle	1.5	22.37	22.33		8.24	8.23		31.57	31.57		50.2	49.7		3.72	3.68		3.01	3.07		4	
27/11/2010	4:20	Cloudy	Middle	1.5	21.99	21.99	21.99	8.23	8.23	8.23	31.43	31.43	31.44	48.2	49.7	48.8	3.78	3.92	3.85	2.27	2.13	2.26	7	6.00
	4:25		Middle	1.5	21.99	21.99		8.23	8.23		31.44	31.44		48.2	49.1		3.78	3.93		2.20	2.42		5	

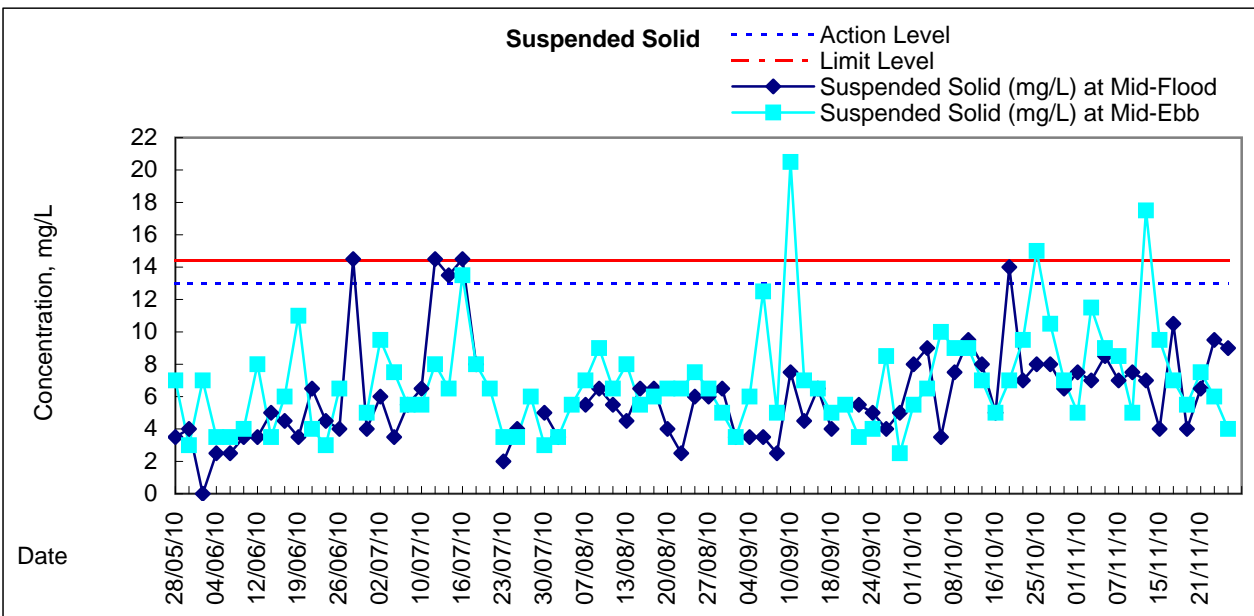
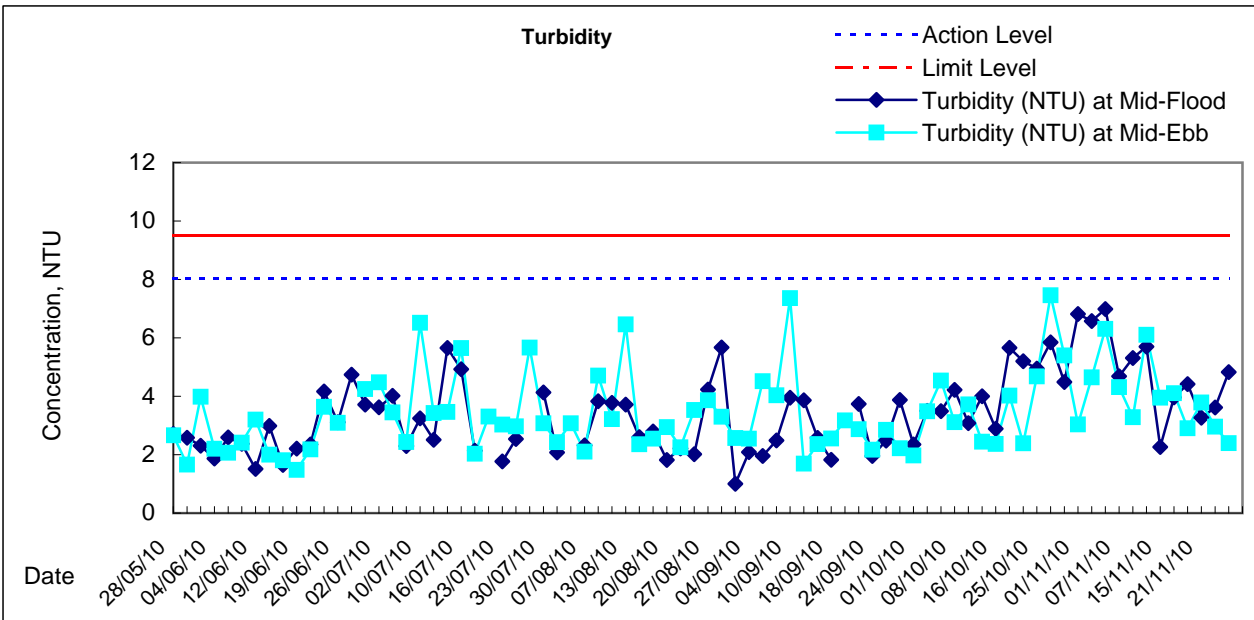
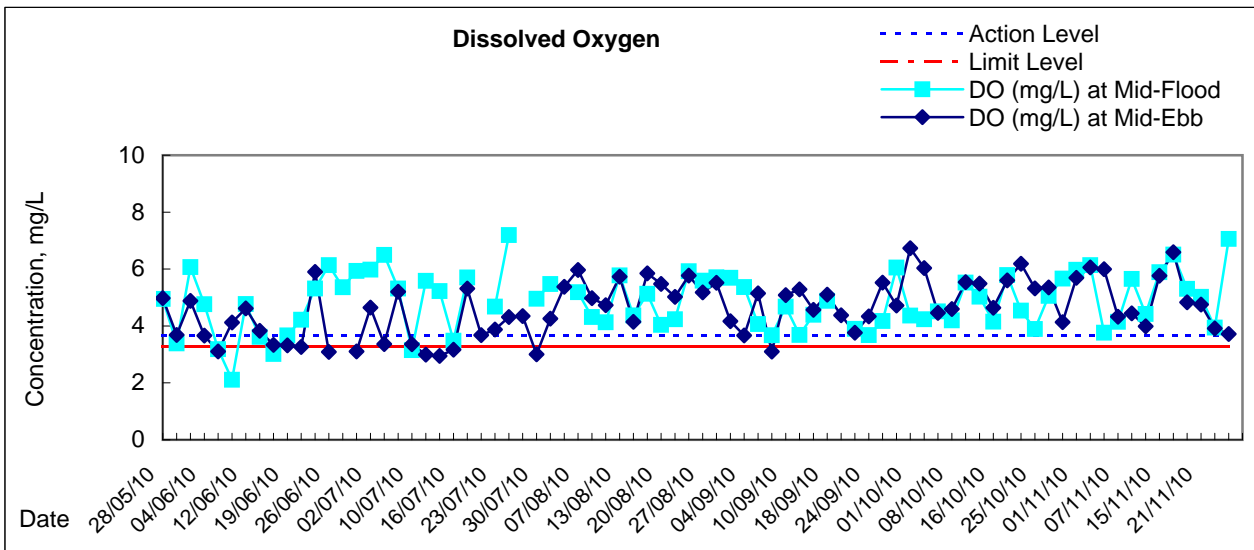


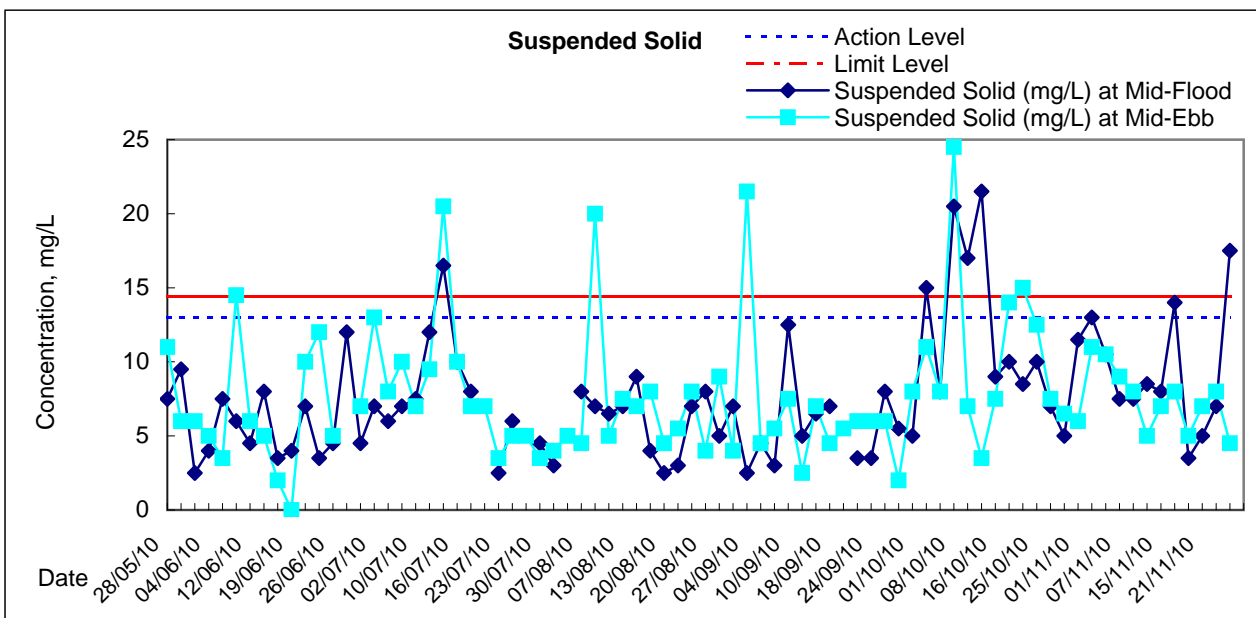
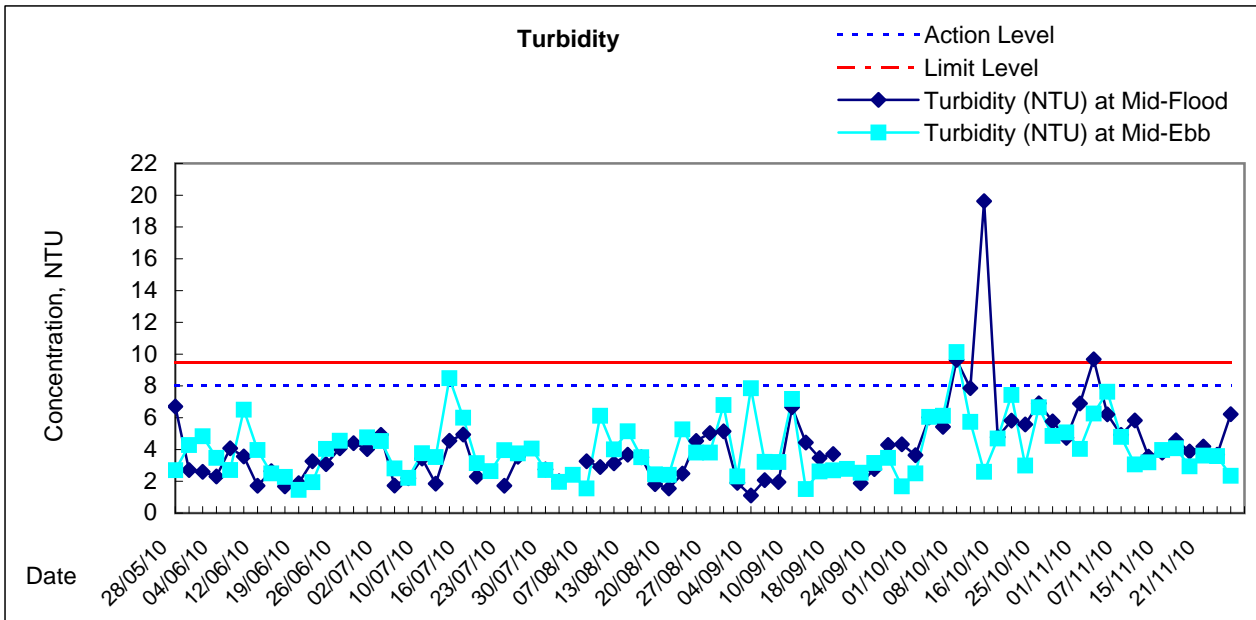
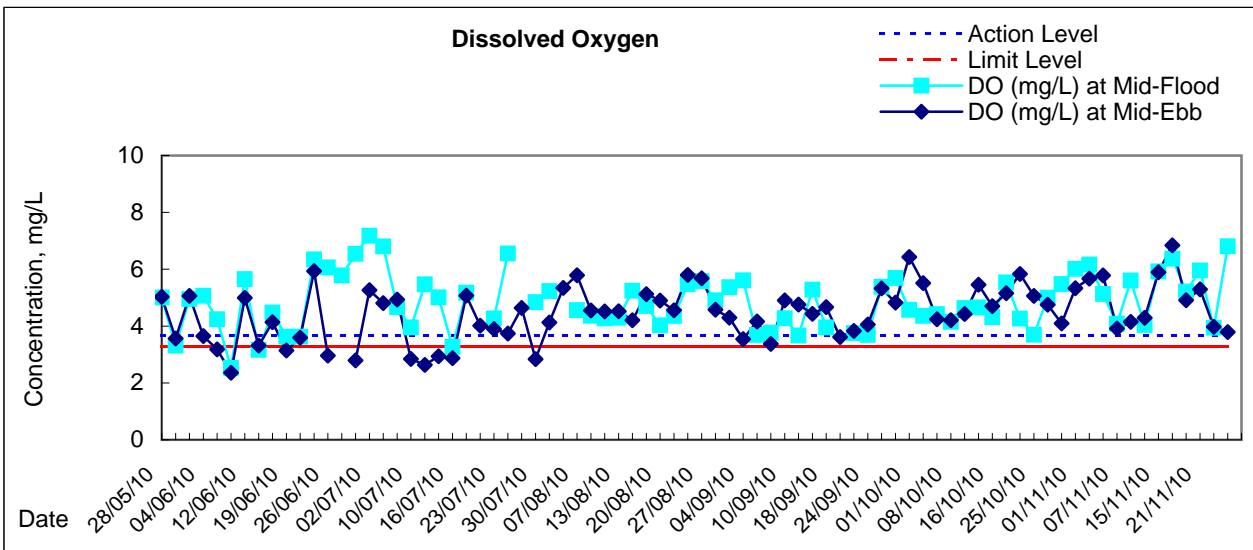
**Water Monitoring Result at WSD7 - Kowloon South
Mid-Ebb Tide**

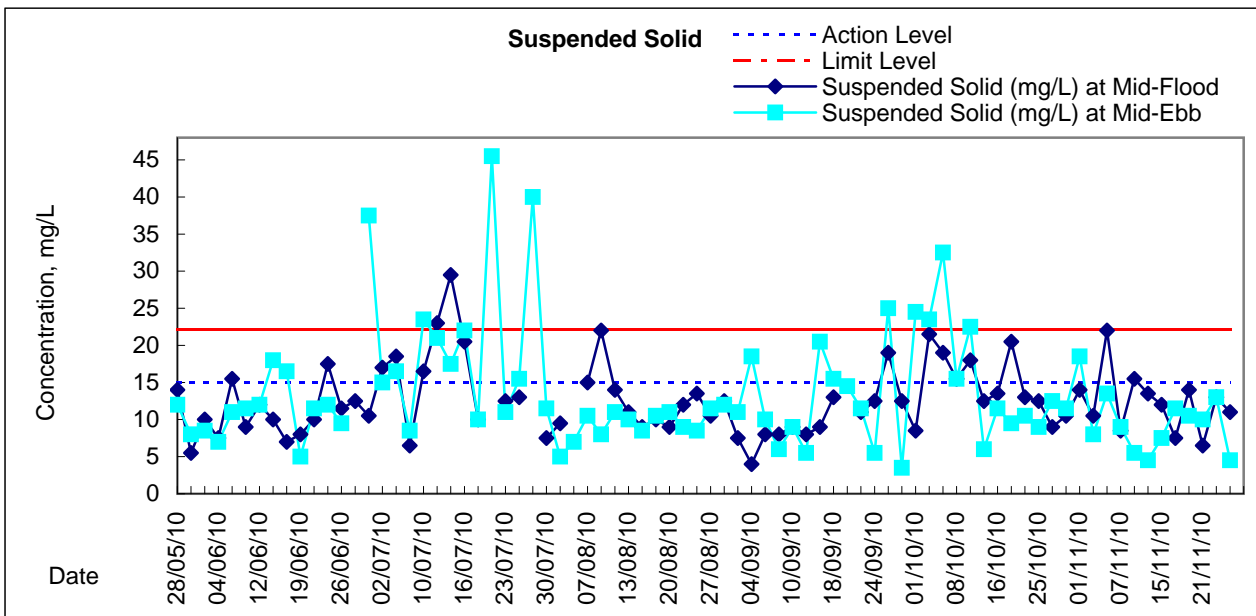
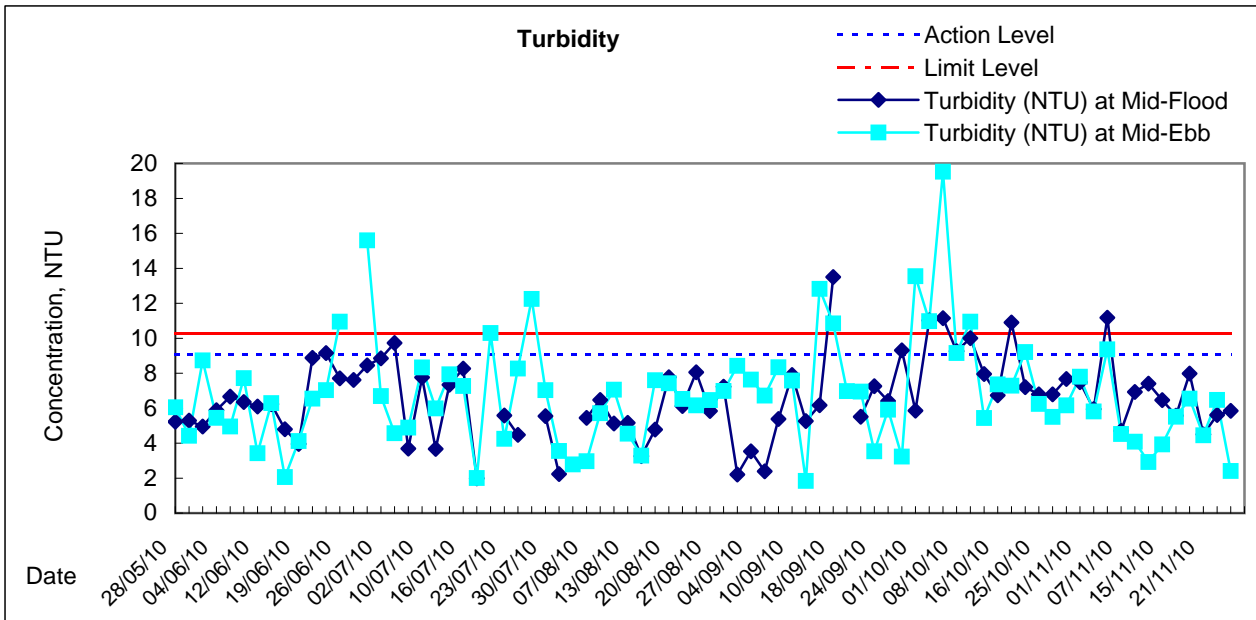
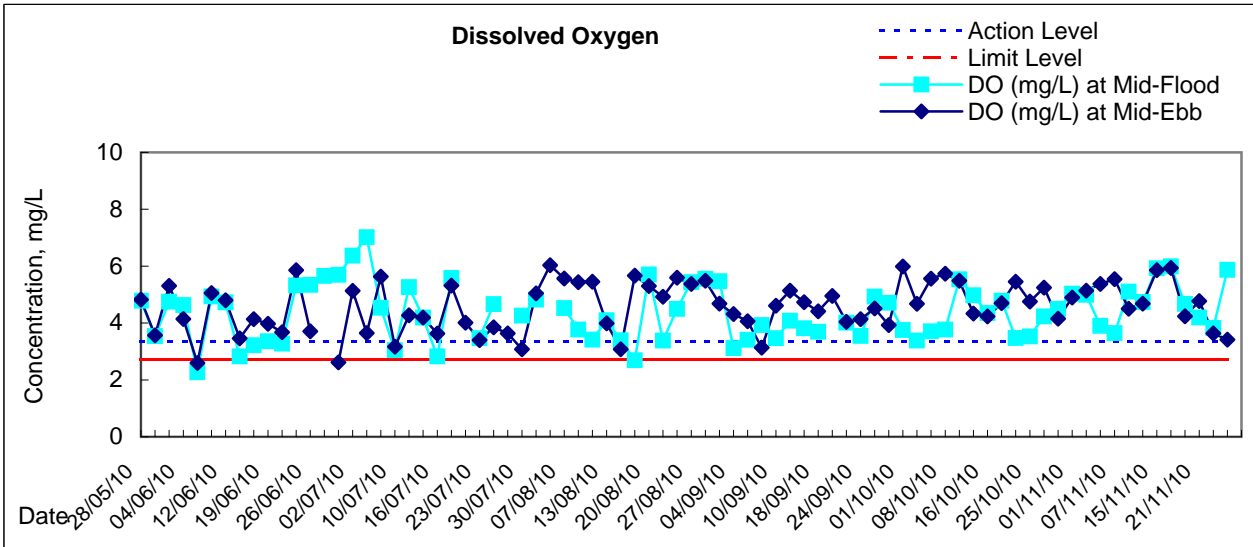
Date	Time	Weather Condition	Sampling Depth		Water Temperature		pH			Salinity		DO Saturation		DO		Turbidity		Suspended Solids						
					°C		-		ppt		%		mg/L		NTU		mg/L							
			m	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average					
28/10/2010	4:11	#REF!	Middle	2.5	22.20	22.20	22.17	8.37	8.36	8.37	31.35	31.34	31.35	60.2	55.5	61.9	4.38	4.04	4.50	4.85	4.67	4.63	8	7.50
	4:18		Middle	2.5	22.13	22.13		8.37	8.37		31.35	31.35		66.4	65.5		4.83	4.76		4.64	4.36		7	
30/10/2010	4:56	Fine	Middle	2.5	21.04	21.02	21.03	8.52	8.52	8.53	31.40	31.36	31.39	58.6	55.6	56.3	4.34	4.12	4.18	7.40	7.33	7.24	12	10.00
	5:03		Middle	2.5	21.04	21.02		8.53	8.53		31.40	31.38		57.6	53.3		4.28	3.96		7.20	7.03		8	
1/11/2010	6:35	Sunny	Middle	1.5	23.50	23.50	23.55	8.22	8.22	8.22	31.84	31.84	31.86	77.0	76.1	76.7	5.45	5.37	5.42	3.94	4.11	3.93	10	<u>15.00</u>
	6:38		Middle	1.5	23.60	23.60		8.22	8.22		31.87	31.87		77.3	76.4		5.47	5.40		3.82	3.84		20	
3/11/2010	8:01	Sunny	Middle	1.5	22.80	22.80	22.70	8.12	8.12	8.13	31.81	31.81	31.88	79.0	78.6	78.9	5.67	5.66	5.67	3.42	3.36	3.40	8	7.00
	8:04		Middle	1.5	22.60	22.60		8.13	8.13		31.95	31.95		79.5	78.5		5.72	5.63		3.50	3.31		6	
5/11/2010	9:00	Rainy	Middle	1.5	22.80	22.80	22.60	7.98	7.98	8.03	31.78	31.78	31.80	78.2	76.9	77.8	5.64	5.54	5.62	6.86	6.86	6.71	9	9.00
	9:04		Middle	1.5	22.40	22.40		8.08	8.07		31.82	31.82		78.7	77.3		5.69	5.59		6.70	6.42		9	
7/11/2010	14:03	Sunny	Middle	1.5	26.82	26.92	26.91	8.05	8.05	8.05	31.27	31.27	31.31	82.1	81.5	81.5	5.49	5.45	5.46	5.71	5.72	5.75	8	9.00
	14:08		Middle	1.5	26.92	26.99		8.05	8.05		31.36	31.35		81.8	80.7		5.48	5.40		5.87	5.70		10	
10/11/2010	1:30	Cloudy	Middle	1.5	21.12	21.12	21.10	8.21	8.20	8.21	31.32	31.32	31.32	61.9	57.2	56.4	4.59	4.24	4.18	3.09	2.74	2.87	7	6.00
	1:36		Middle	1.5	21.08	21.08		8.21	8.21		31.32	31.32		53.3	53.2		3.95	3.95		2.71	2.92		5	
12/11/2010	2:54	Fine	Middle	1.5	23.05	23.05	23.07	7.69	7.67	7.68	30.43	30.43	30.43	52.5	54.5	53.1	3.78	3.92	3.83	4.48	4.38	4.30	4	4.50
	3:01		Middle	1.5	23.08	23.08		7.68	7.68		30.43	30.43		51.5	54.0		3.71	3.89		4.28	4.06		5	
15/11/2010	7:48	Fine	Middle	1.5	22.82	22.82	22.84	7.78	7.78	7.78	31.67	31.67	31.68	80.2	79.4	80.1	5.66	5.59	5.64	3.59	2.99	3.18	5	4.00
	7:51		Middle	1.5	22.85	22.85		7.77	7.77		31.69	31.69		80.5	80.1		5.67	5.65		3.04	3.11		3	
17/11/2010	8:20	Fine	Middle	1.5	22.67	22.67	22.65	8.20	8.20	8.21	31.60	31.60	31.62	87.8	88.4	88.0	6.32	6.37	6.33	3.06	2.86	2.97	4	3.50
	8:23		Middle	1.5	22.62	22.62		8.22	8.22		31.63	31.63		88.0	87.6		6.33	6.31		3.07	2.89		3	
19/11/2010	0:25	Fine	Middle	1.5	19.59	19.59	19.54	8.12	8.12	8.12	31.74	31.74	31.77	61.1	59.8	60.2	4.65	4.55	4.56	2.78	2.44	2.53	4	4.00
	0:31		Middle	1.5	19.50	19.47		8.12	8.12		31.79	31.79		60.0	59.7		4.50	4.55		2.48	2.42		4	
22/11/2010	0:40	Fine	Middle	1.5	23.02	23.07	23.08	8.13	8.13	8.13	31.85	31.84	31.85	62.2	61.4	61.6	4.43	4.37	4.39	5.50	5.75	5.73	10	11.00
	0:45		Middle	1.5	23.11	23.11		8.13	8.13		31.85	31.84		61.6	61.0		4.39	4.35		6.04	5.63		12	
24/11/2010	1:53	Cloudy	Middle	1.5	22.30	22.30	22.28	8.17	8.17	8.18	31.48	31.48	31.48	46.2	45.1	45.2	3.70	3.77	3.67	1.36	1.45	1.60	5	4.50
	2:00		Middle	1.5	22.26	22.26		8.18	8.18		31.48	31.48		44.2	45.4		3.60	3.62		1.69	1.91		4	
27/11/2010	2:00	Cloudy	Middle	1.5	21.98	21.98	21.97	8.15	8.15	8.15	31.47	31.47	31.47	48.7	48.5	48.5	3.82	3.82	3.82	2.07	2.02	2.13	5	6.00
	2:05		Middle	1.5	21.95	21.95		8.15	8.15		31.47	31.47		48.7	48.2		3.82	3.81		2.09	2.34		7	

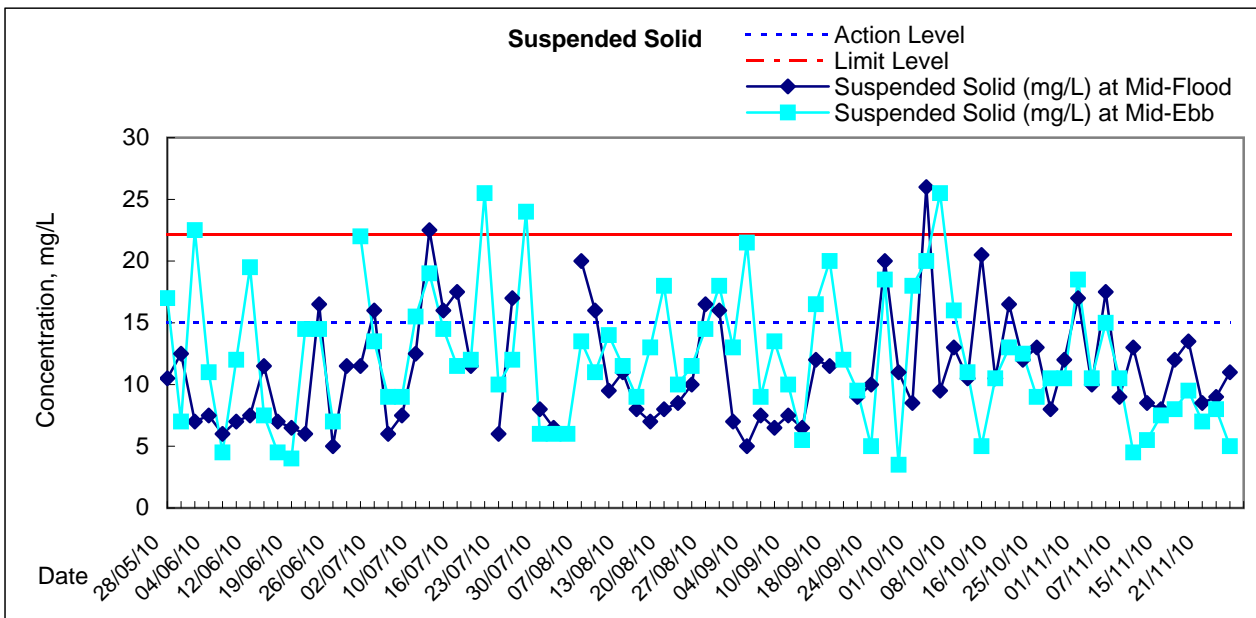
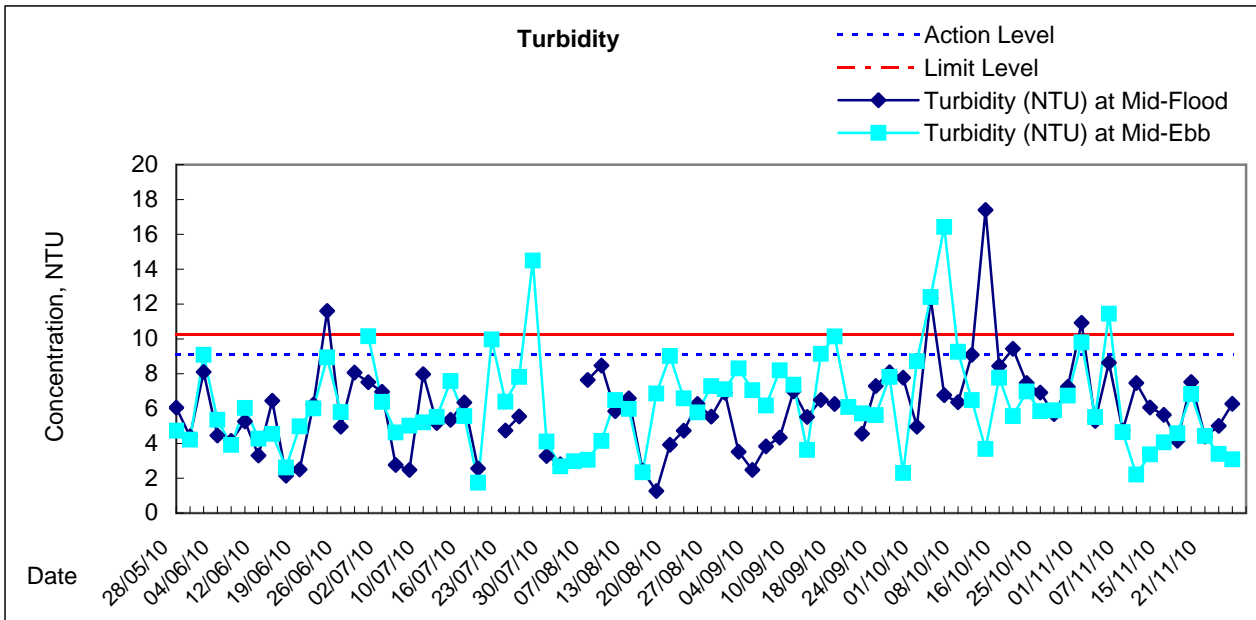
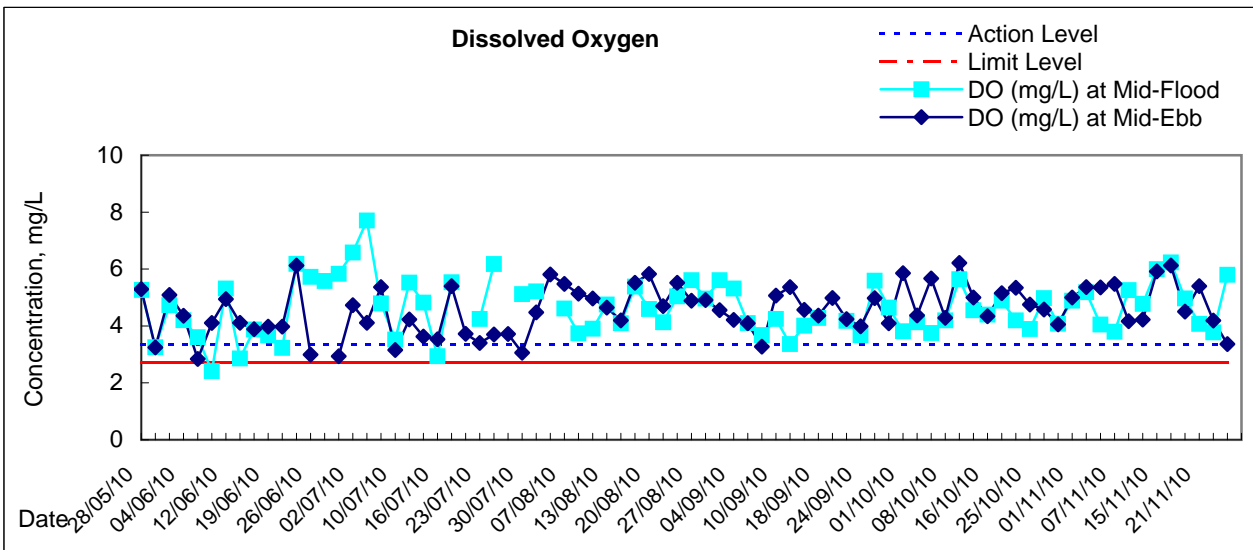


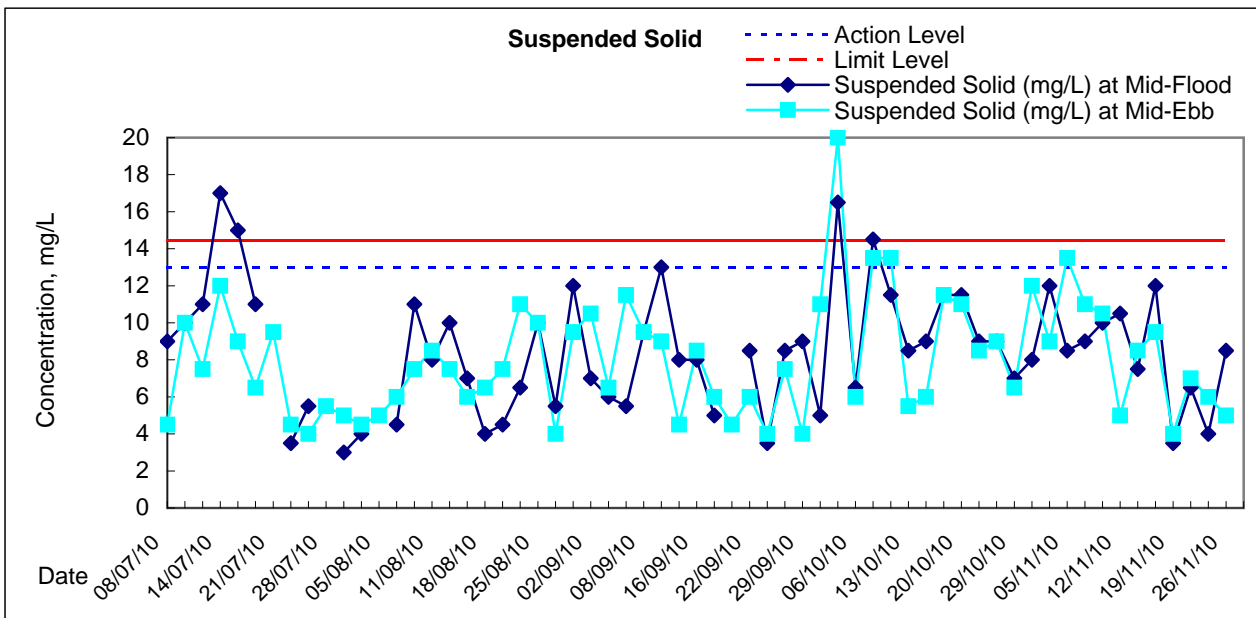
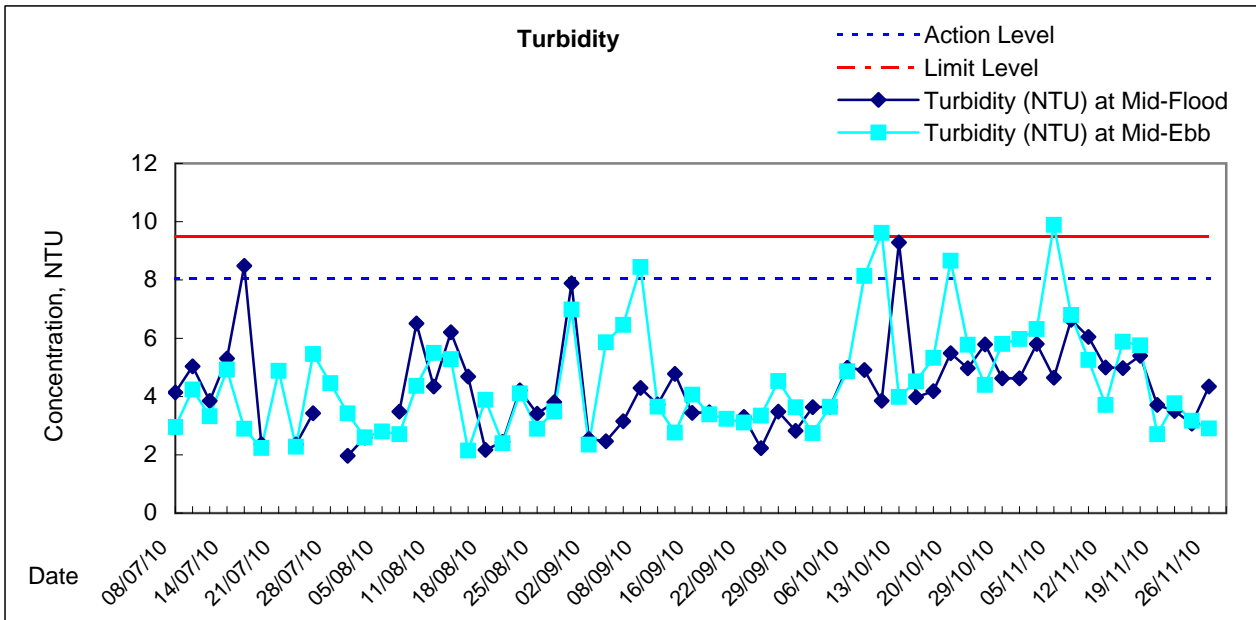
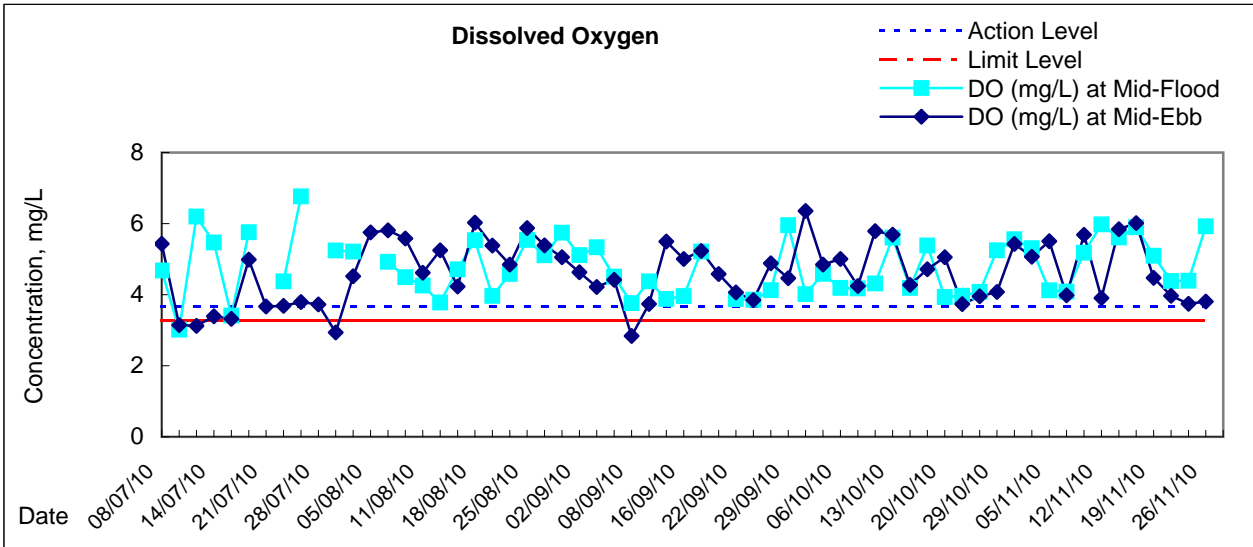






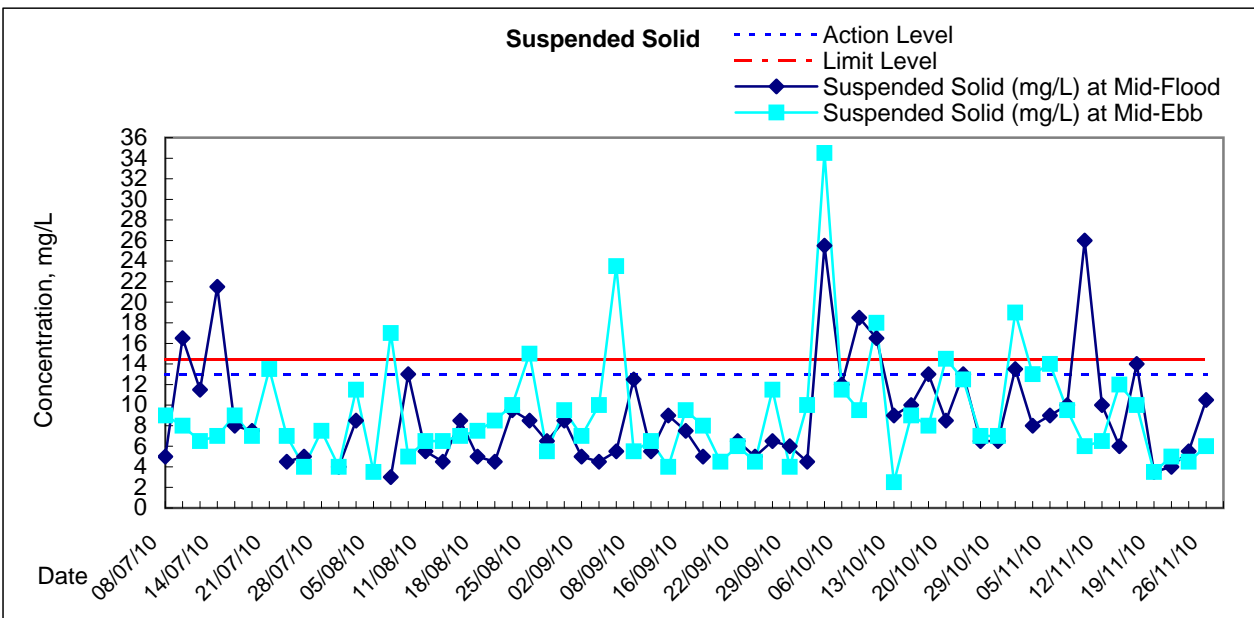
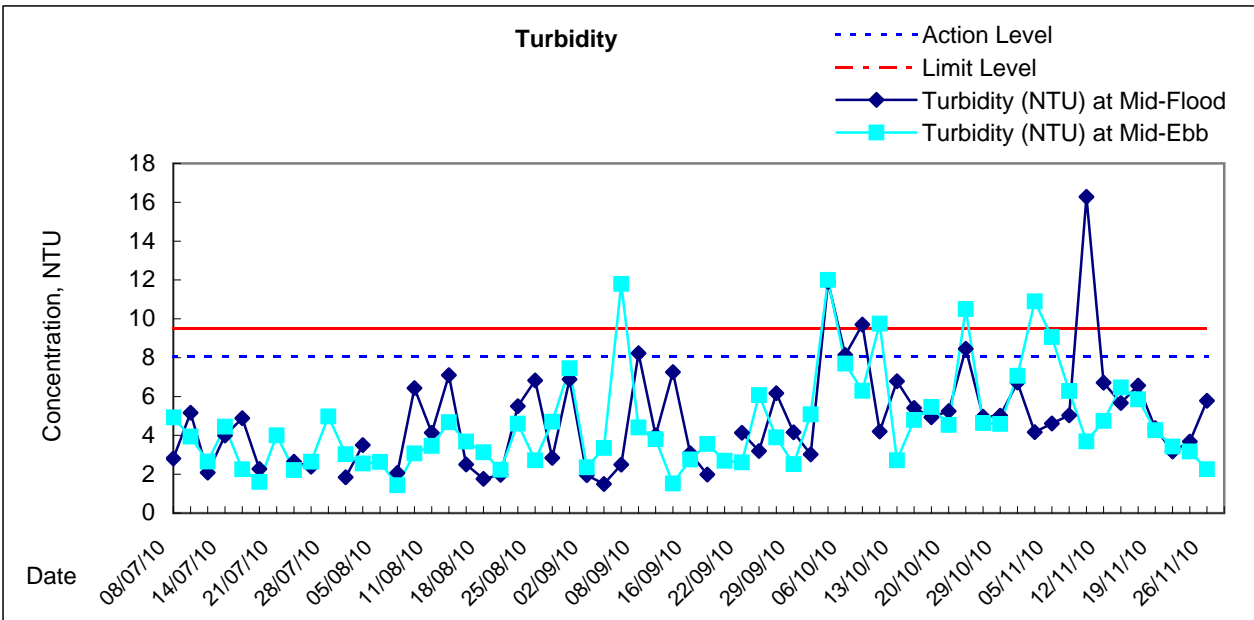
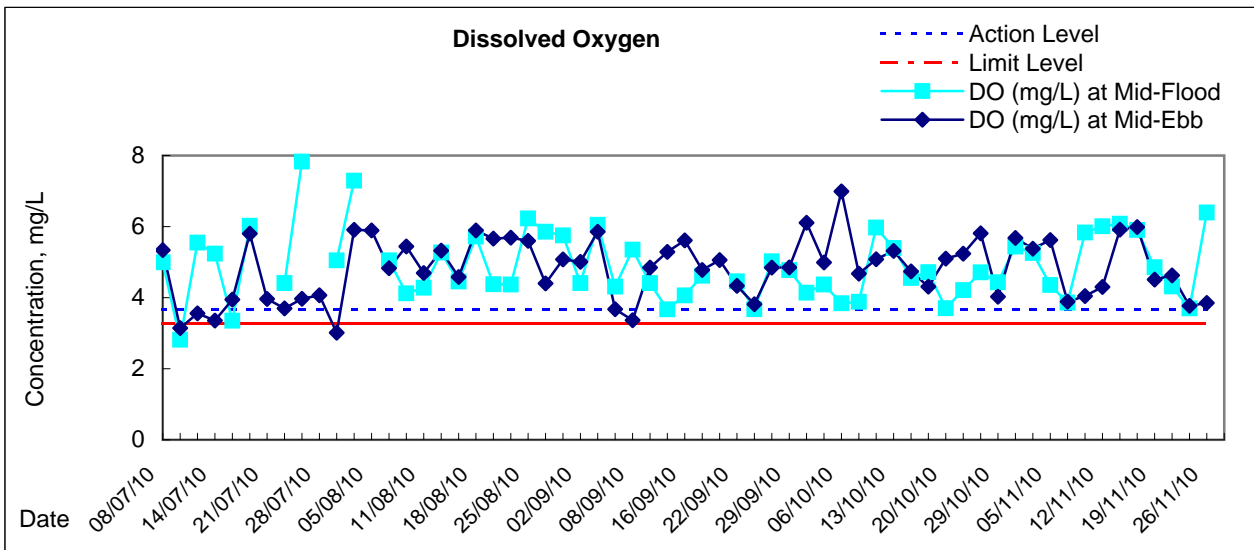


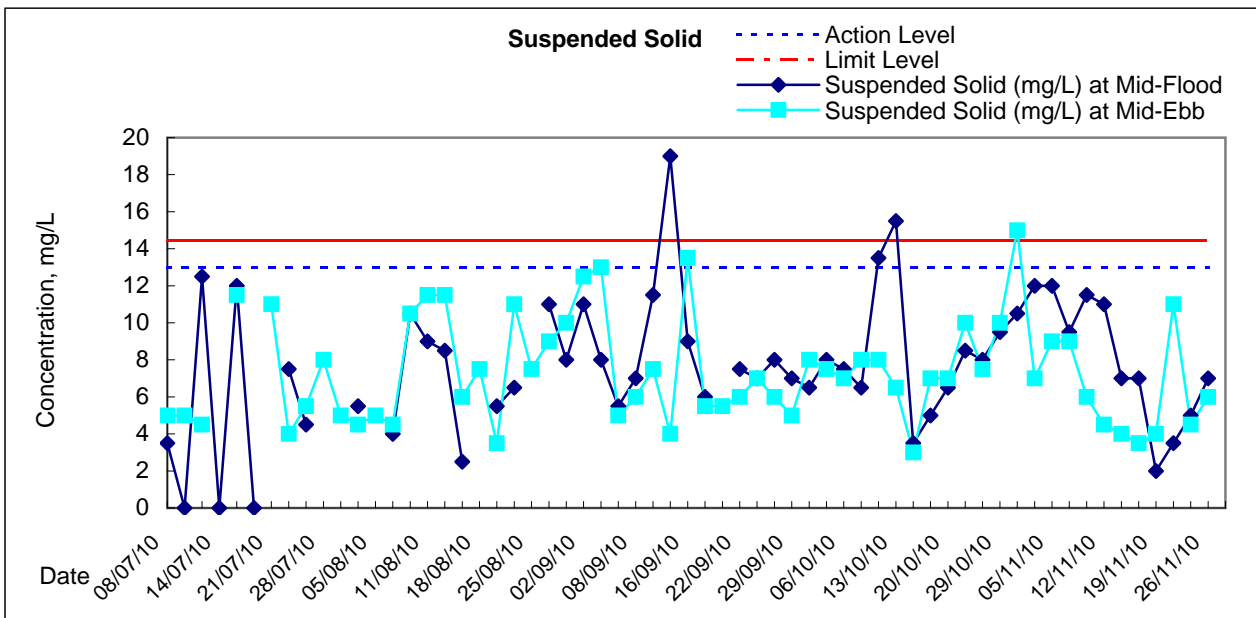
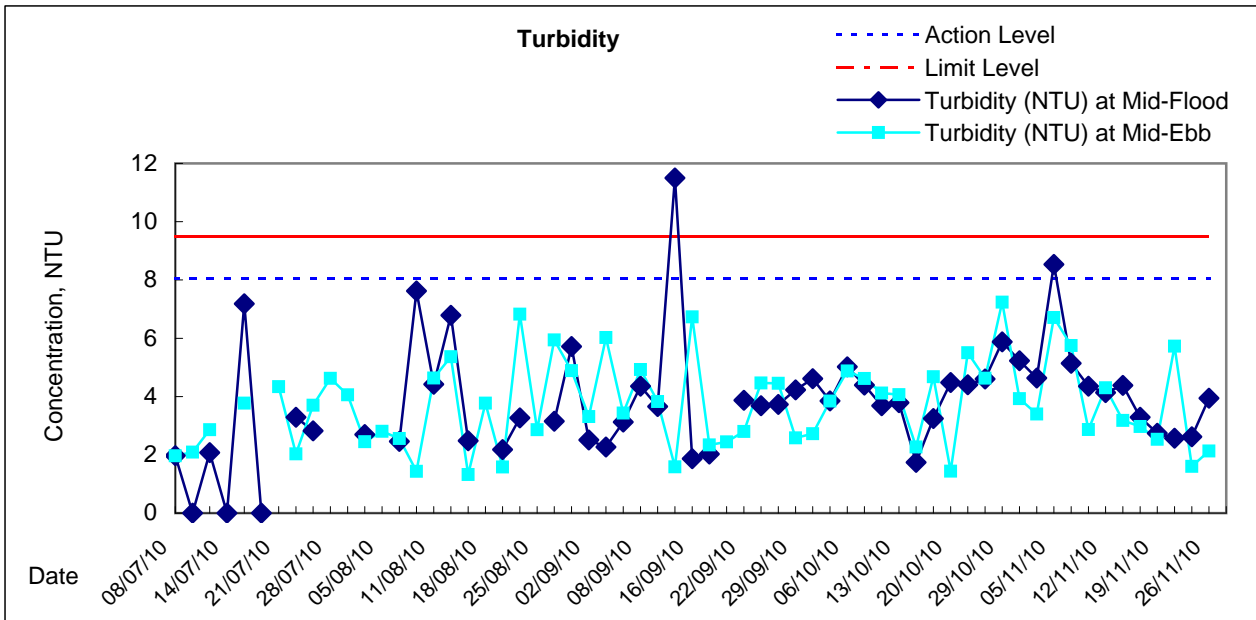
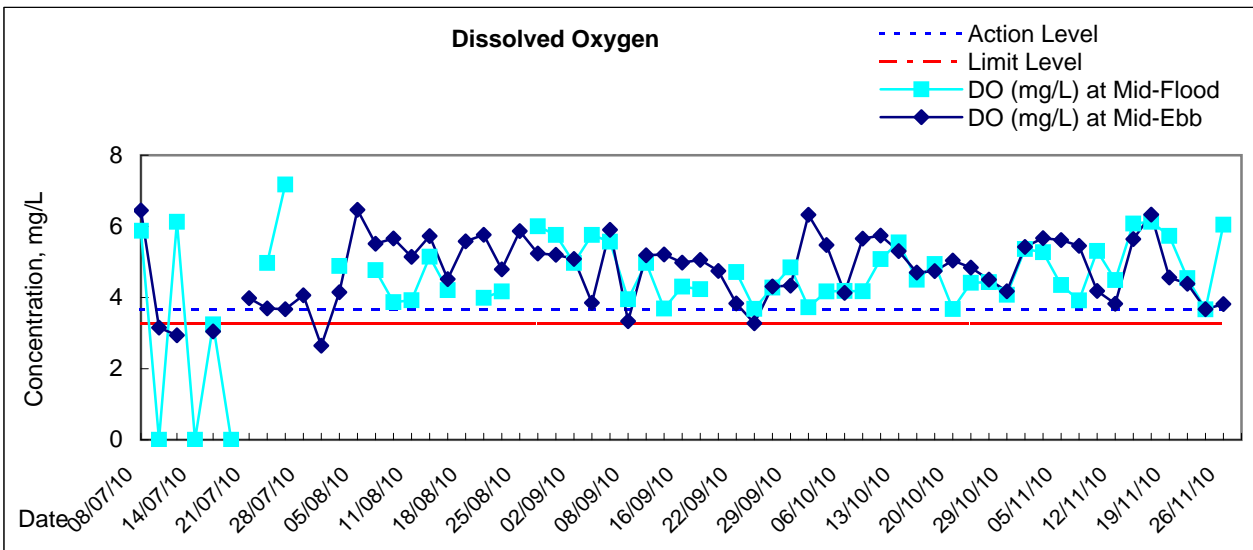


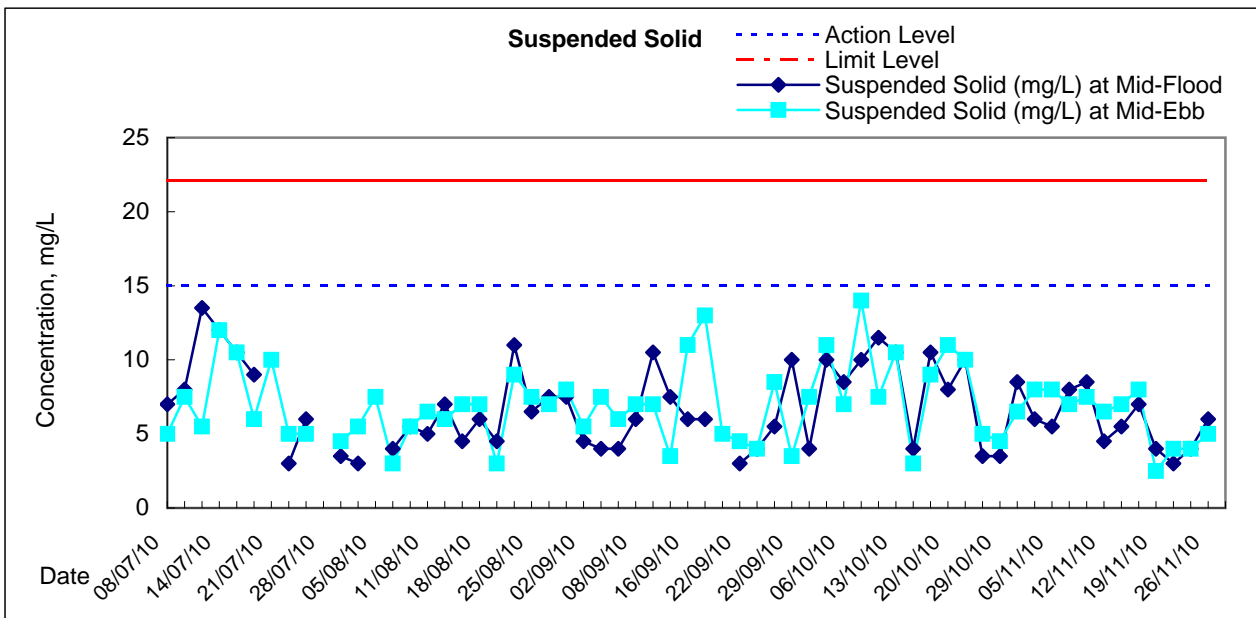
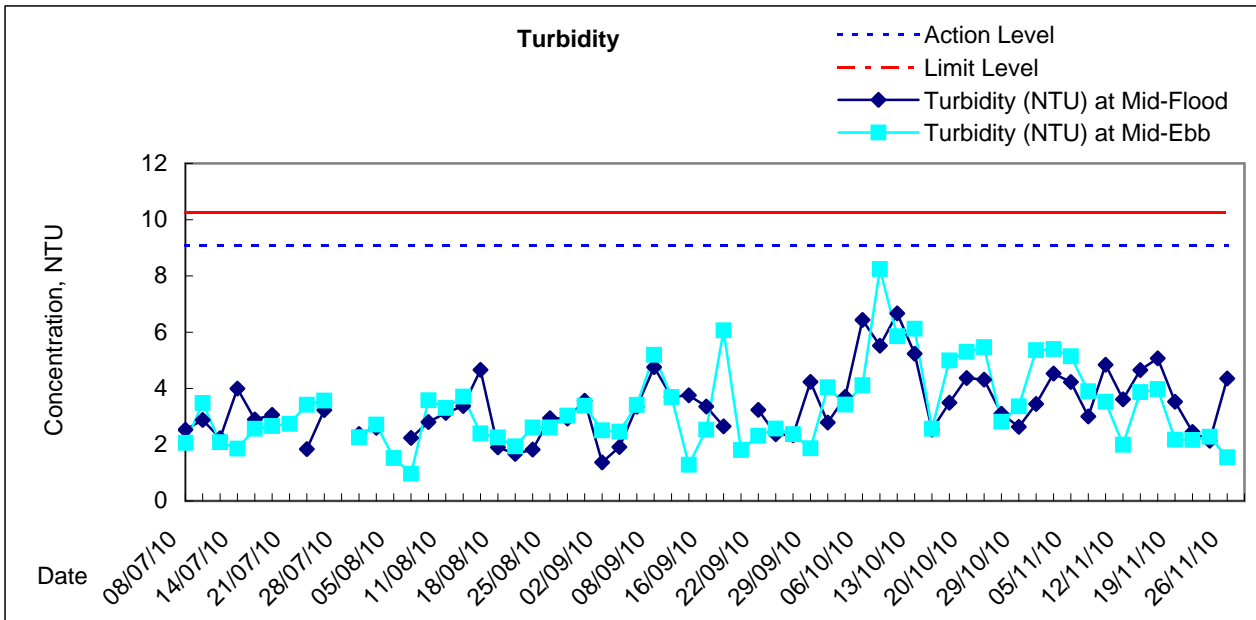
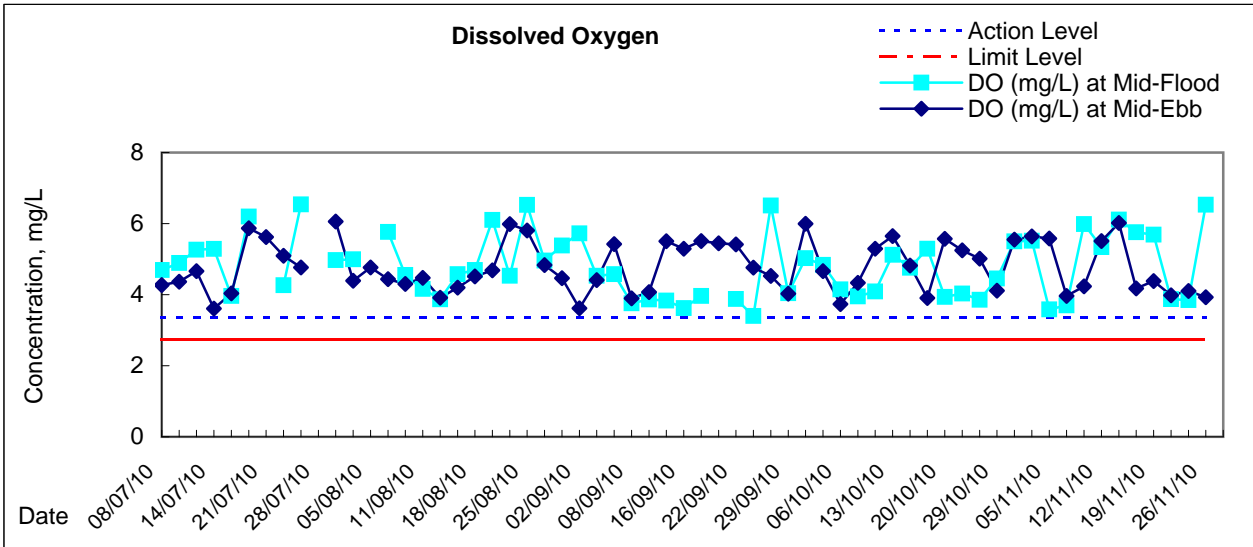




Graphic Presentation of Water Quality Result of WSD20 - Kennedy Town

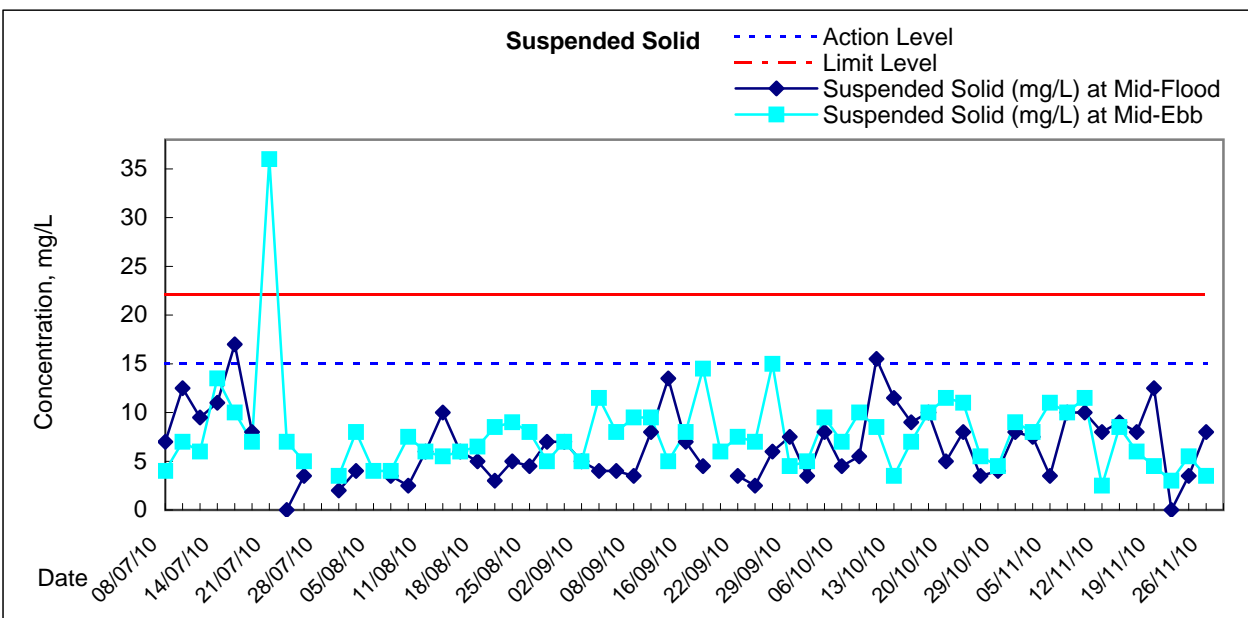
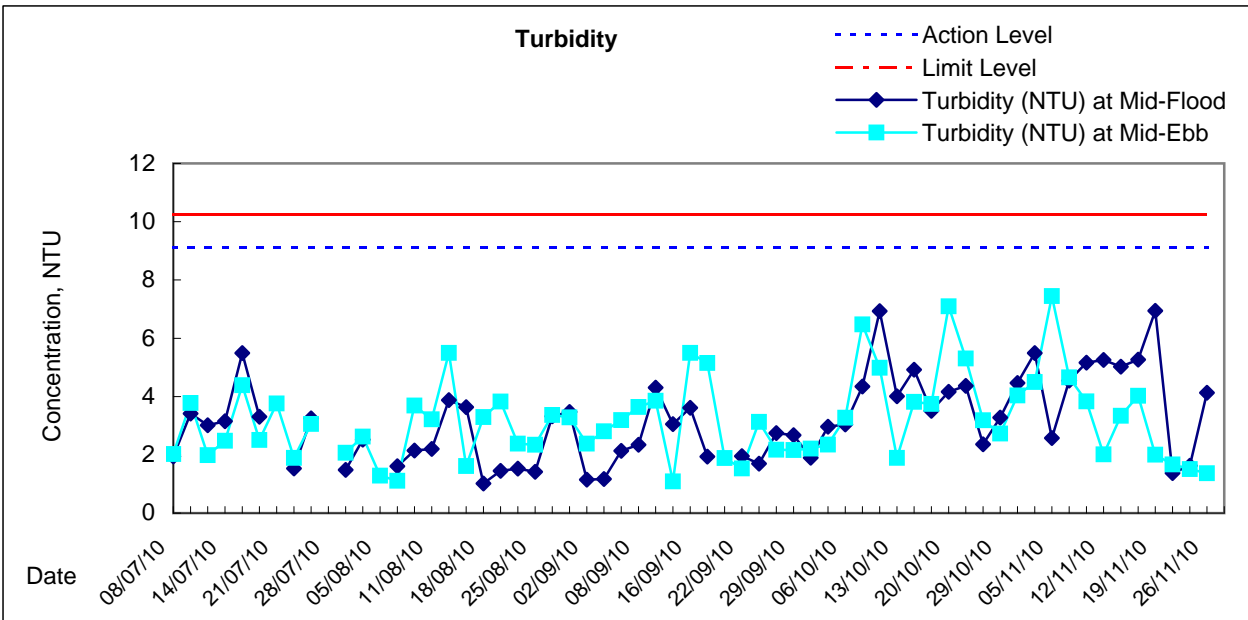
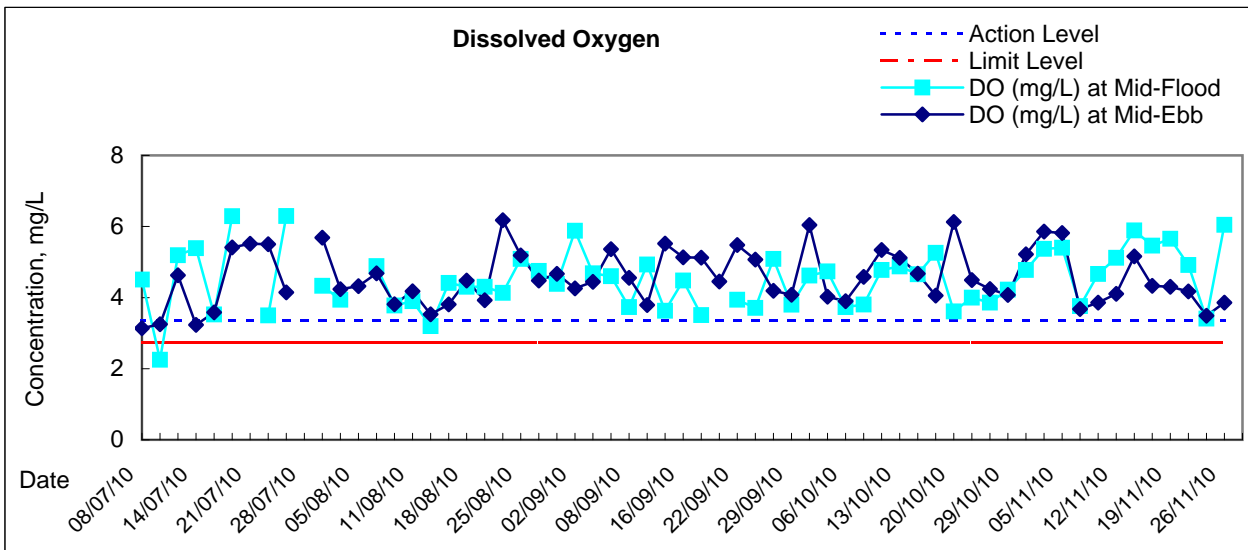


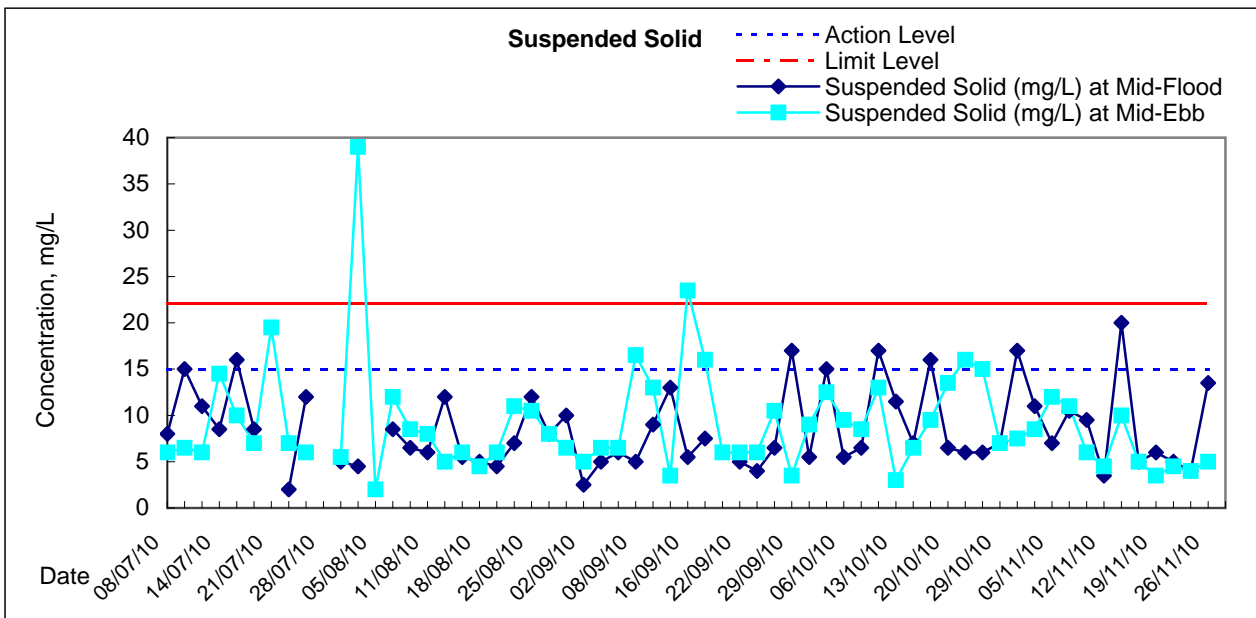
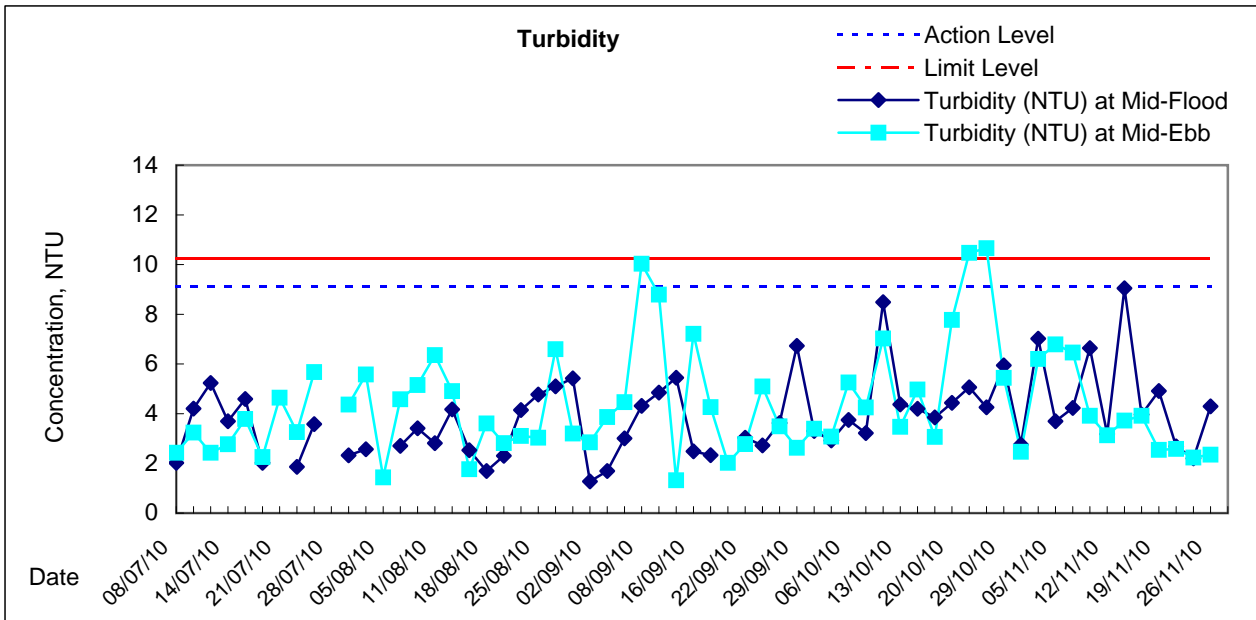
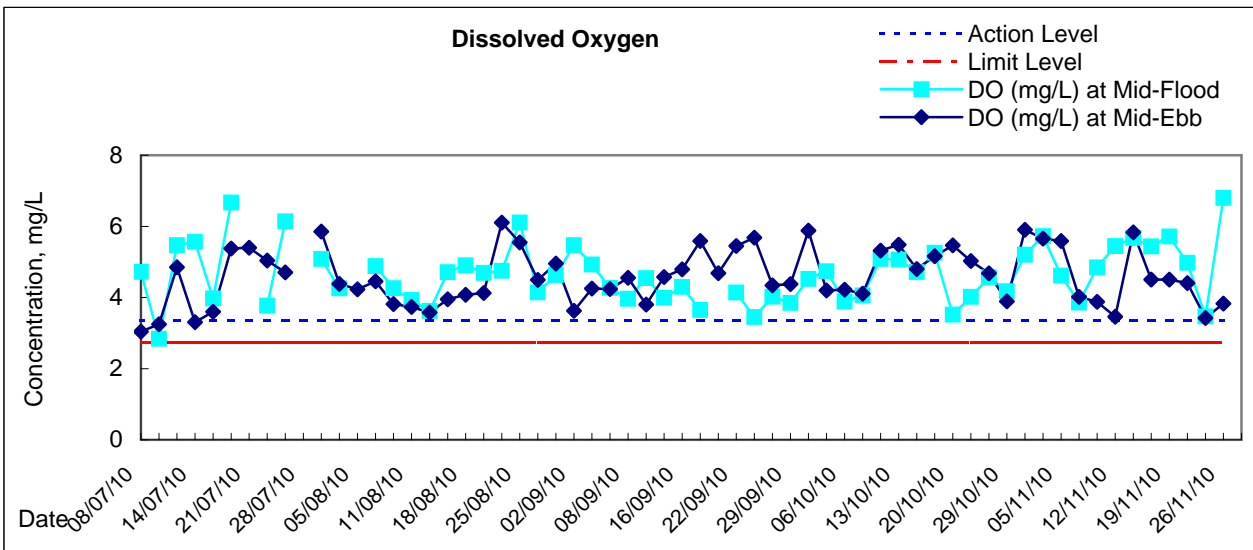


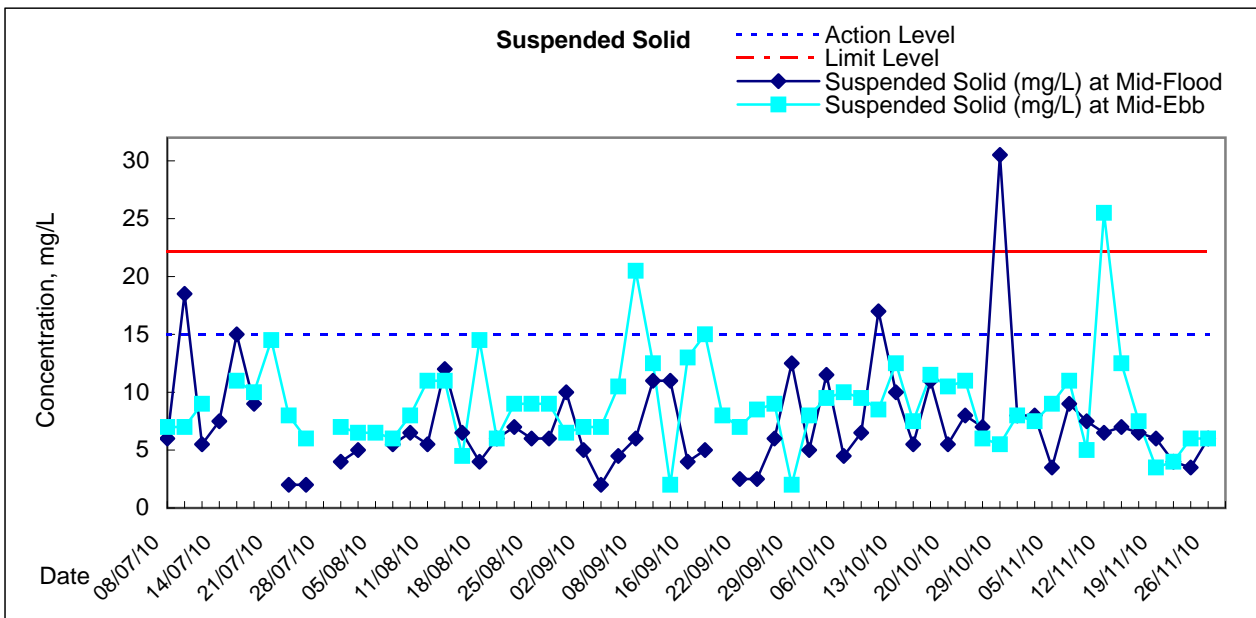
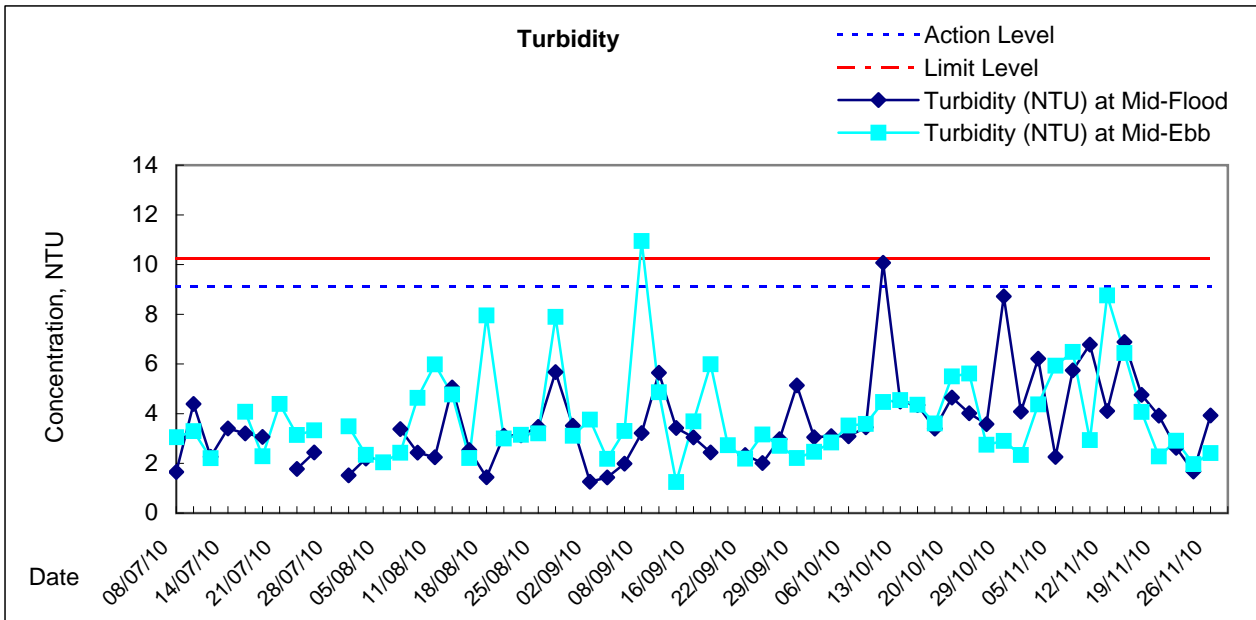
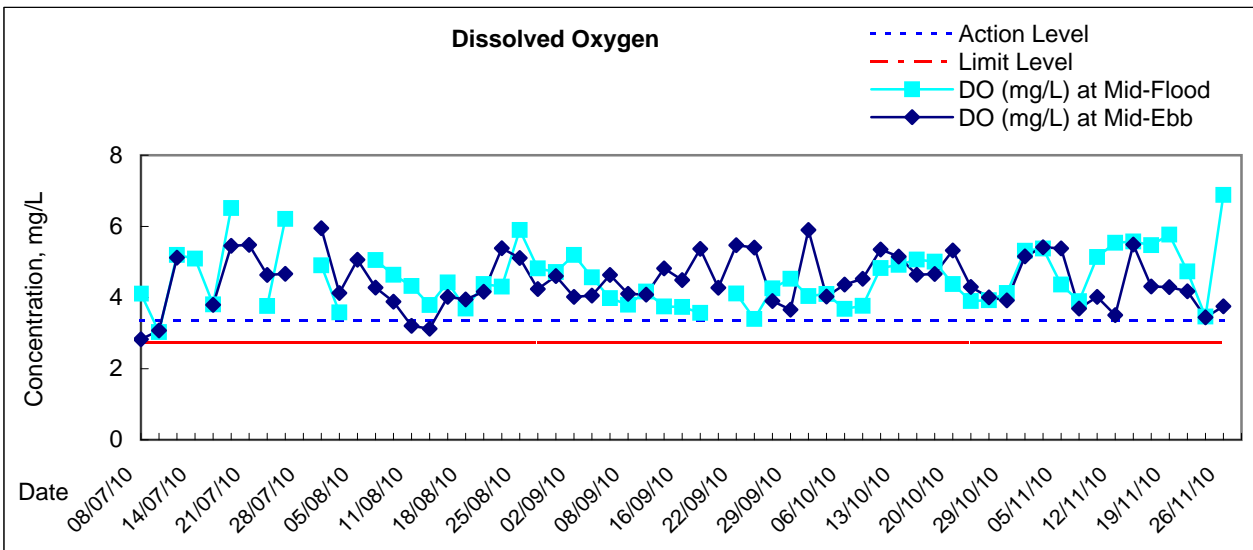




Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

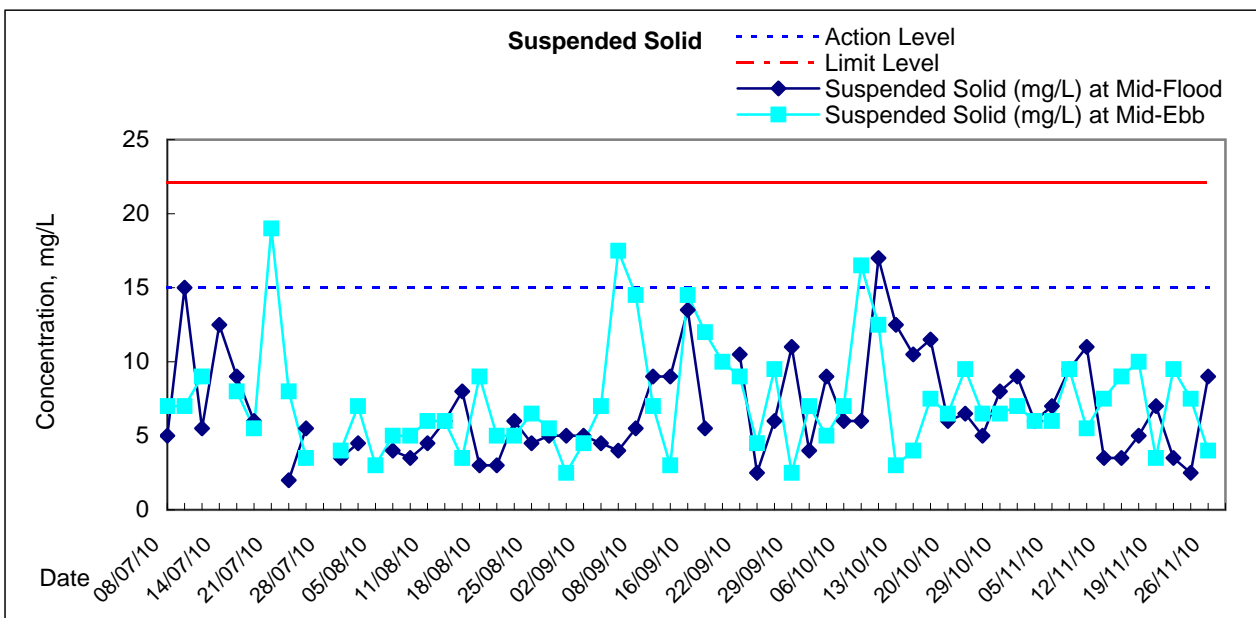
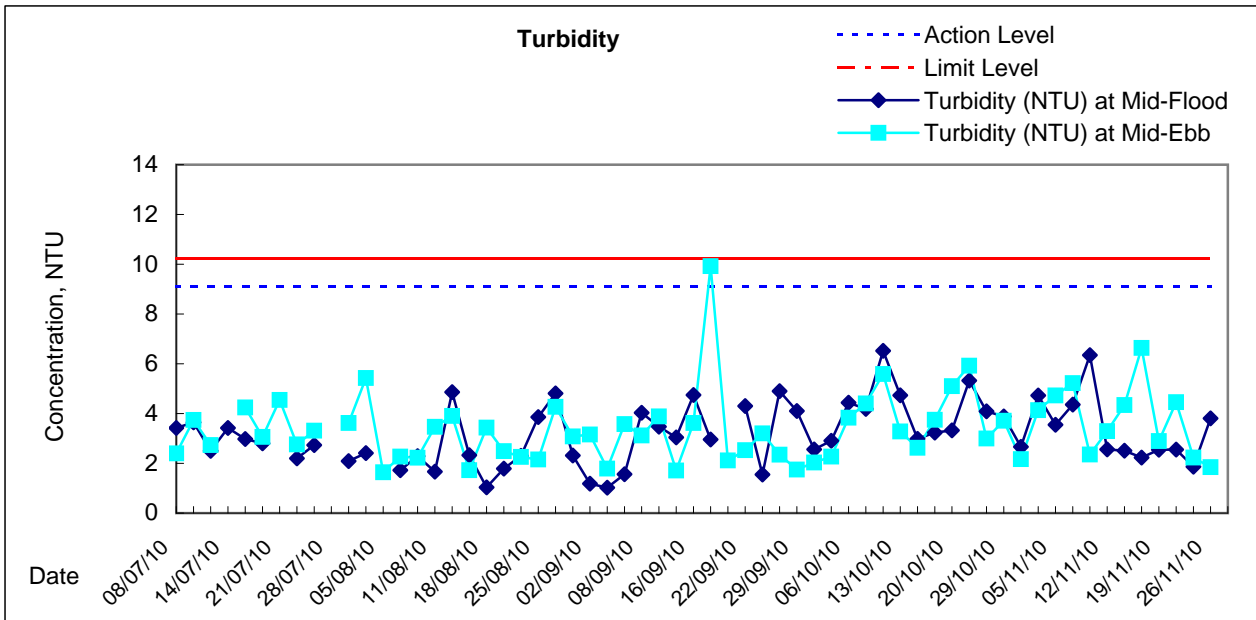
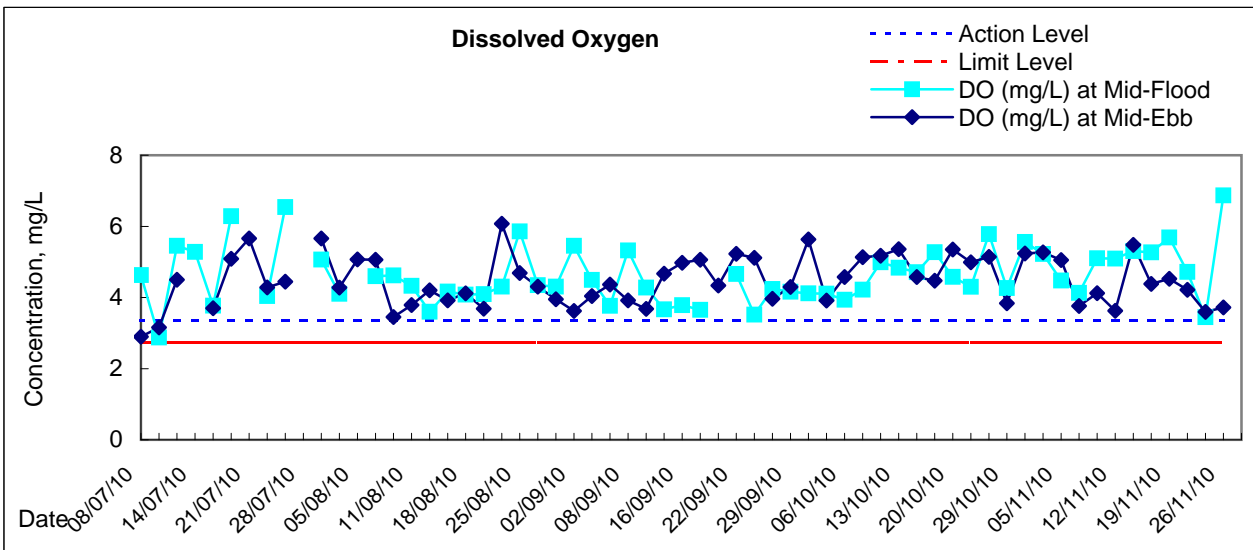


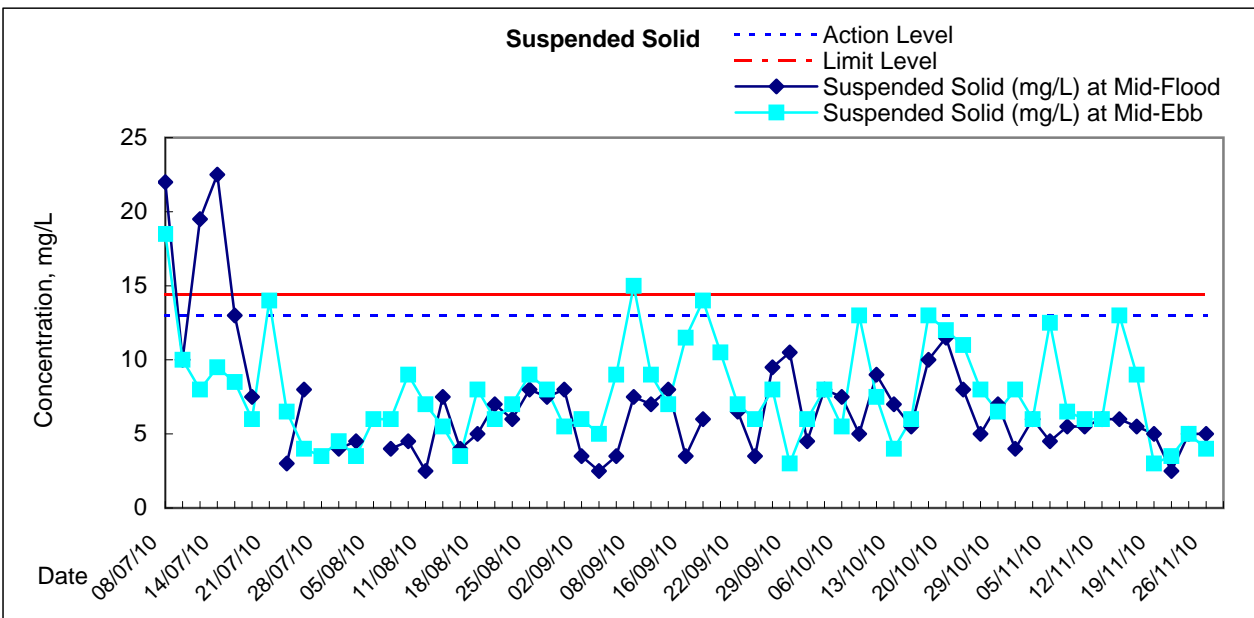
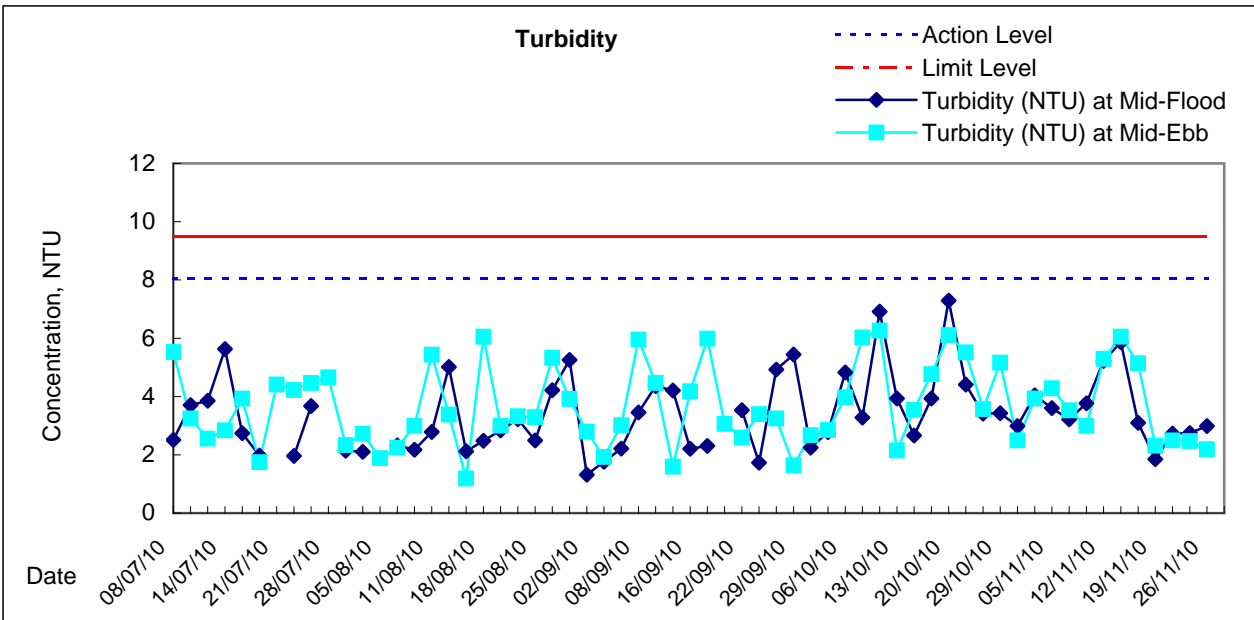
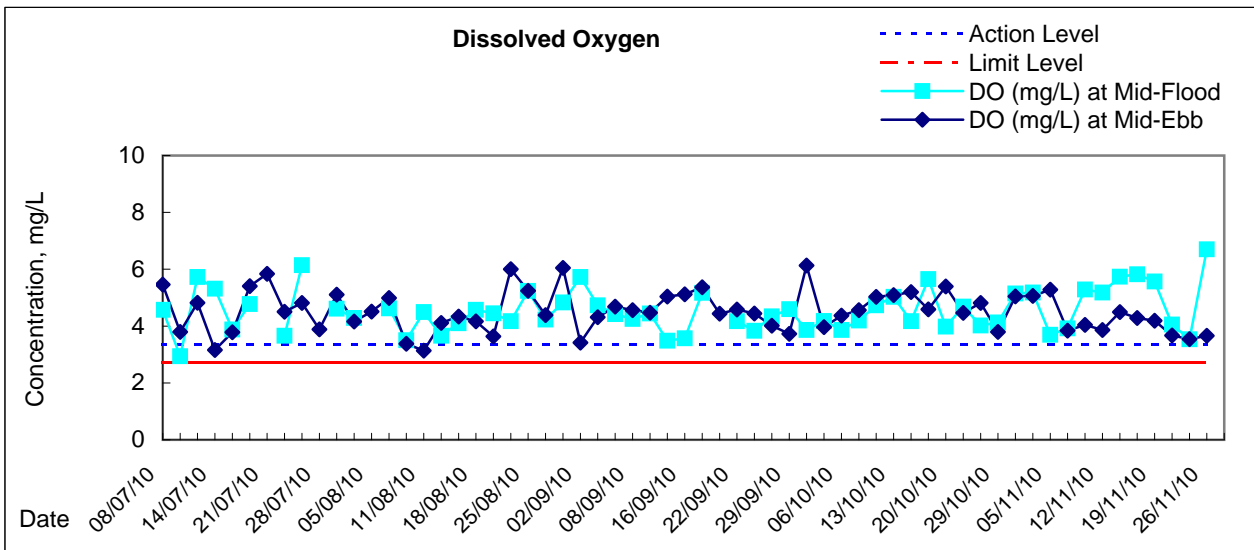


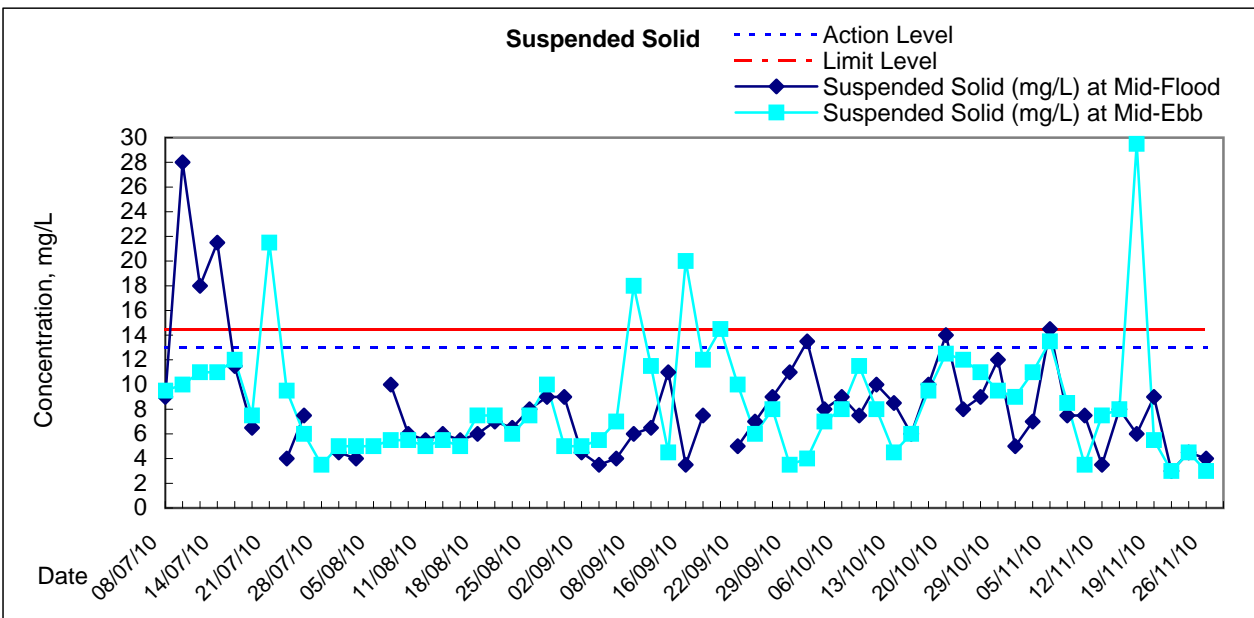
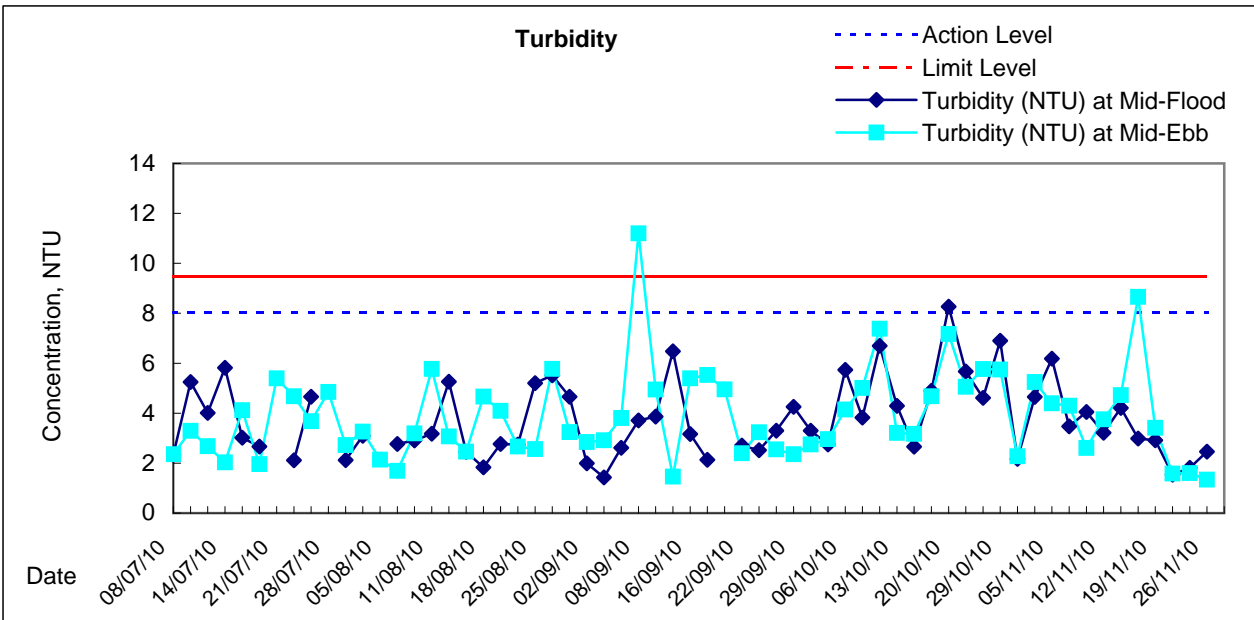
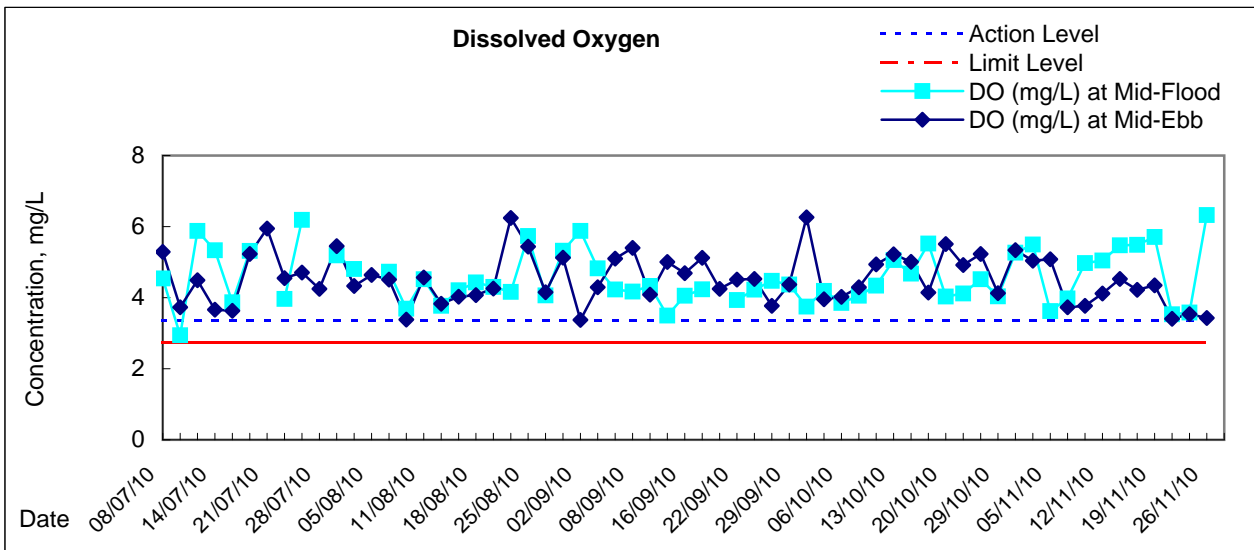


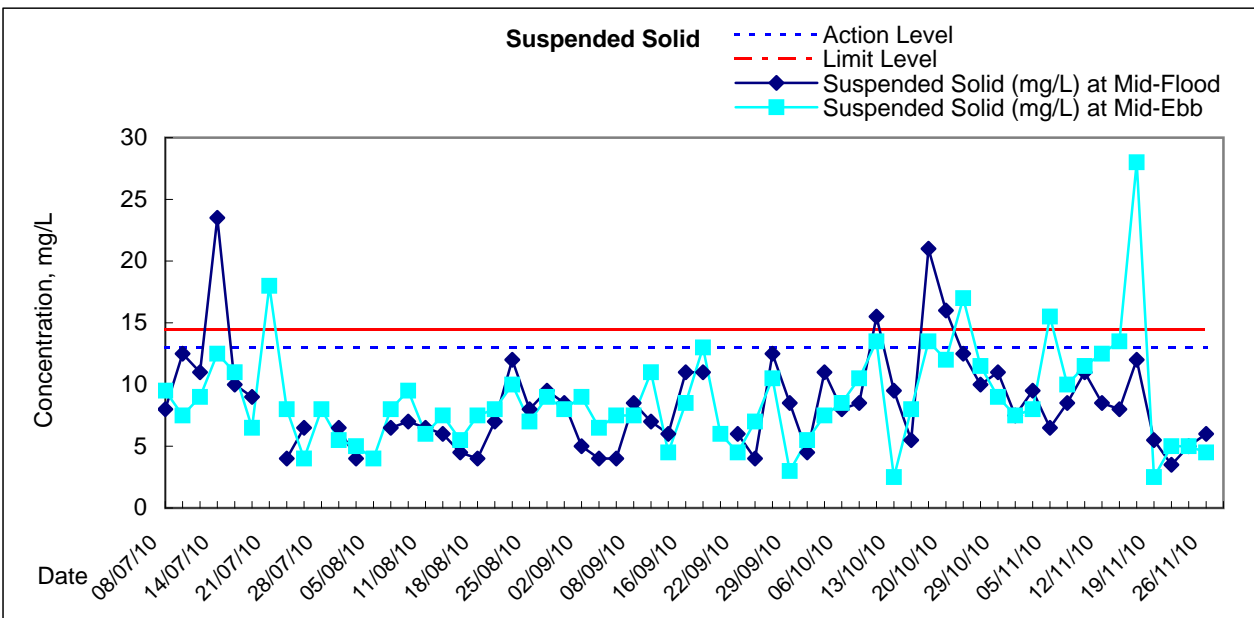
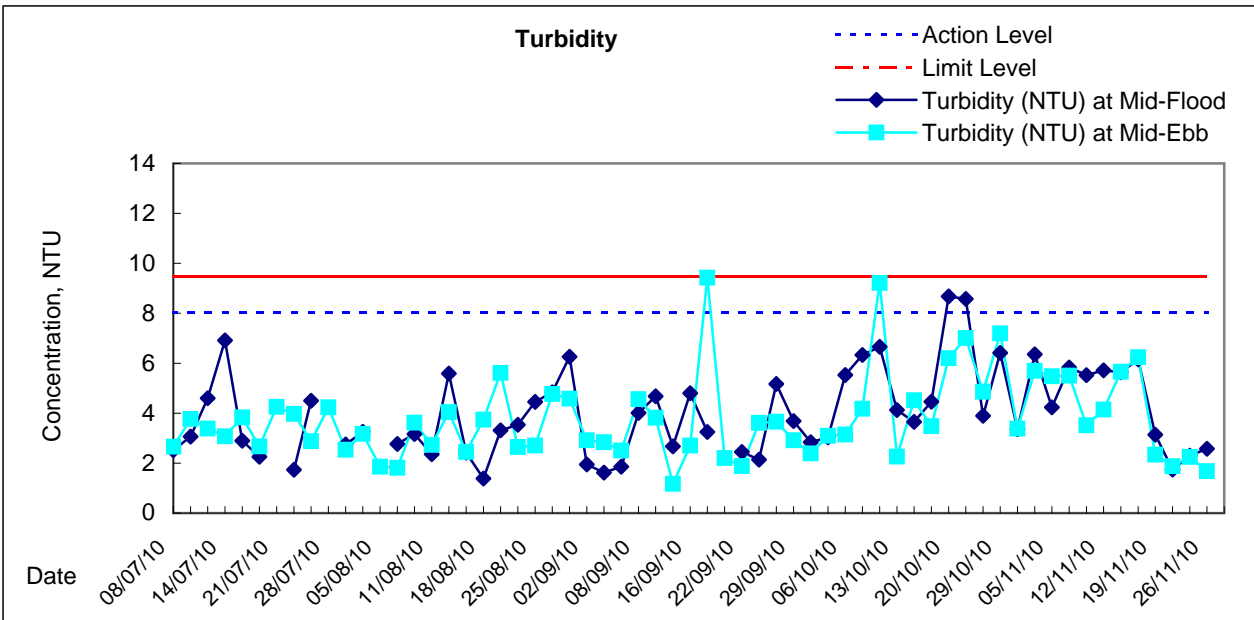
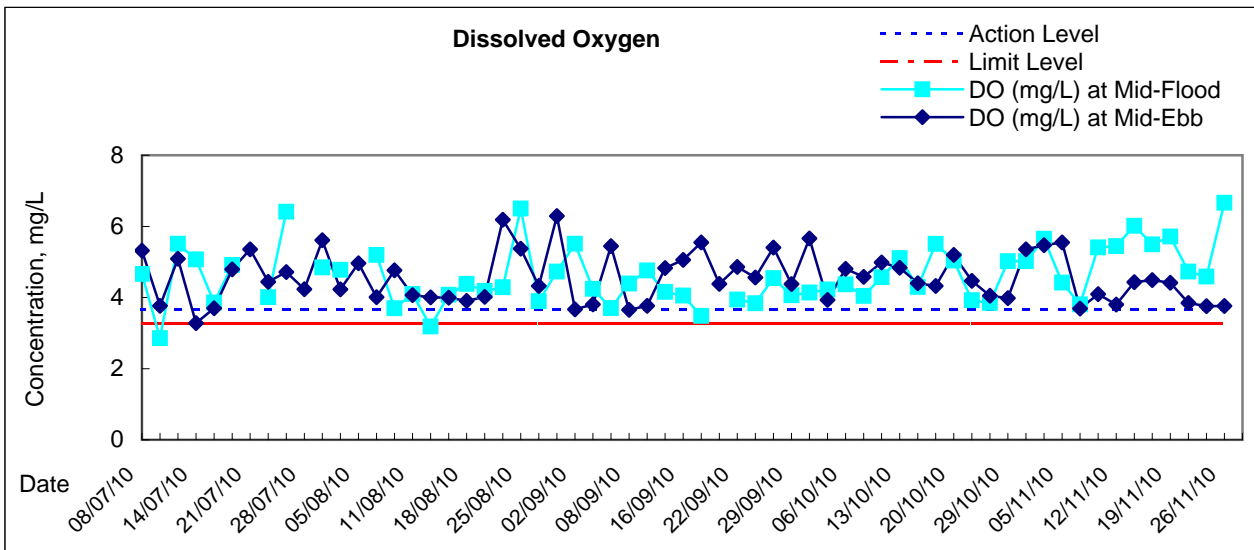


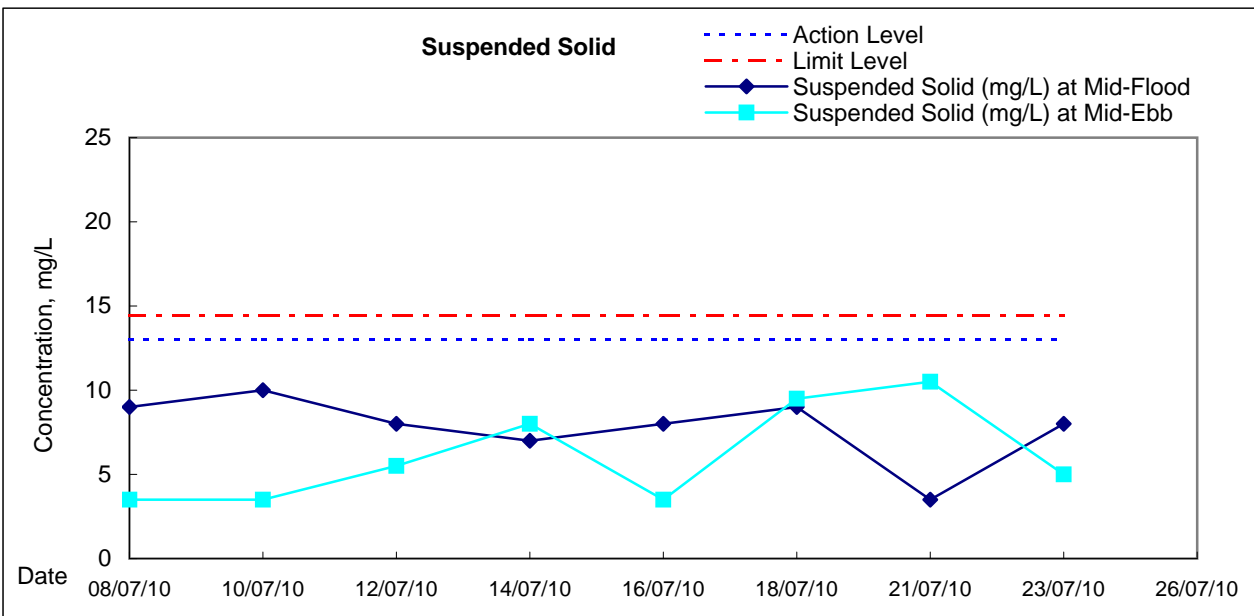
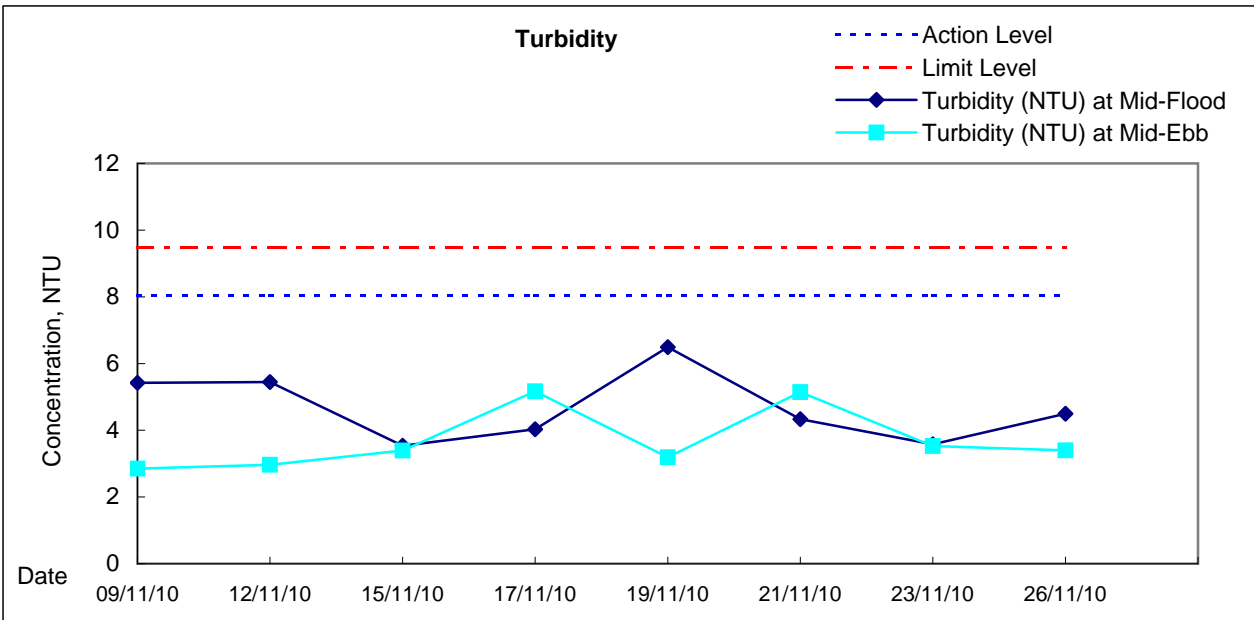
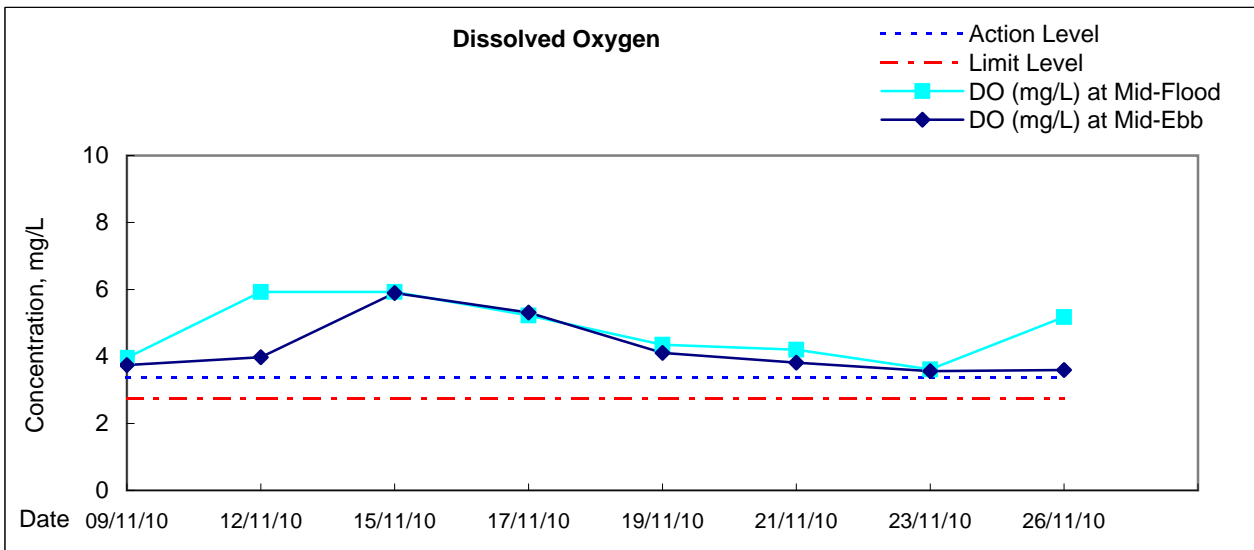
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

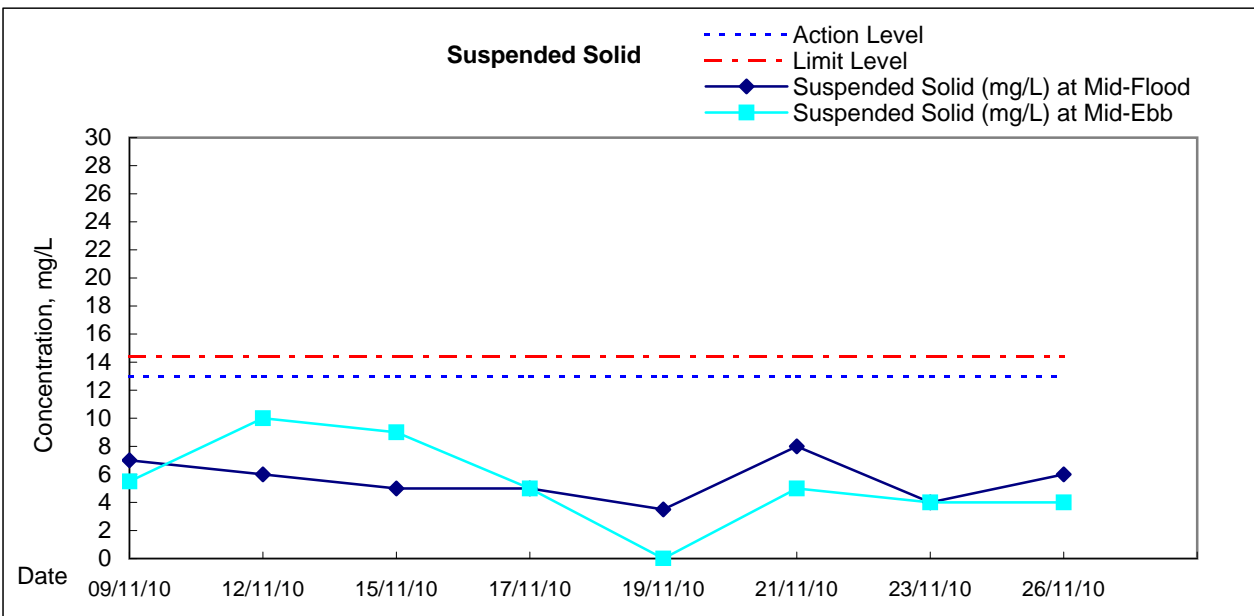
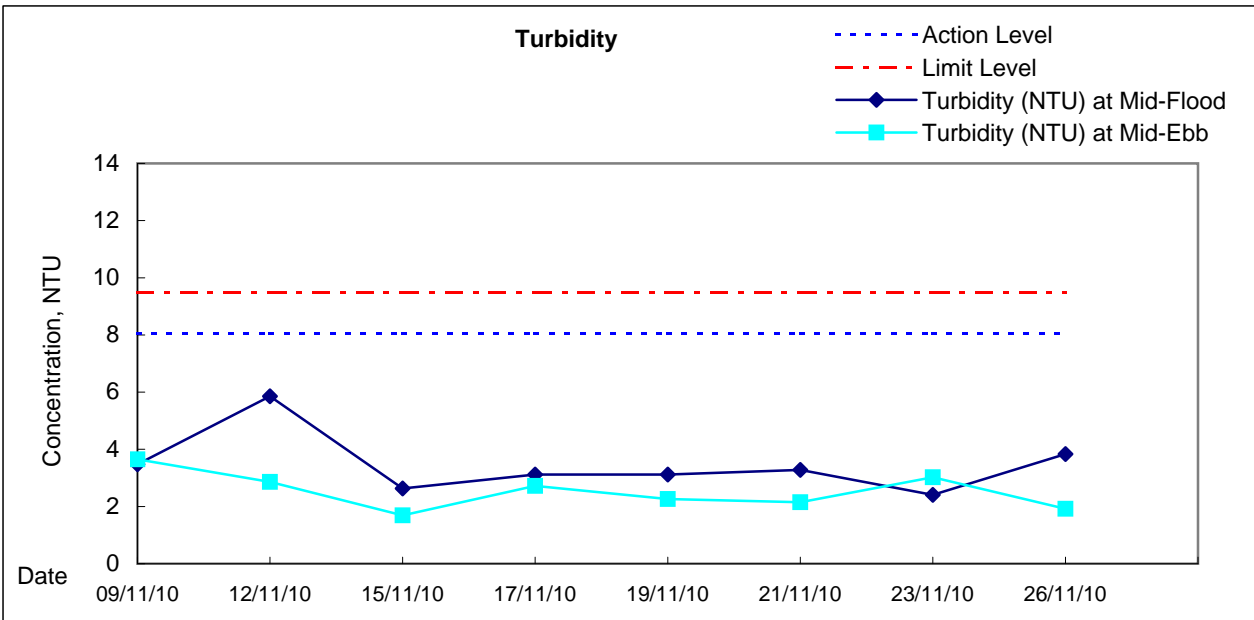
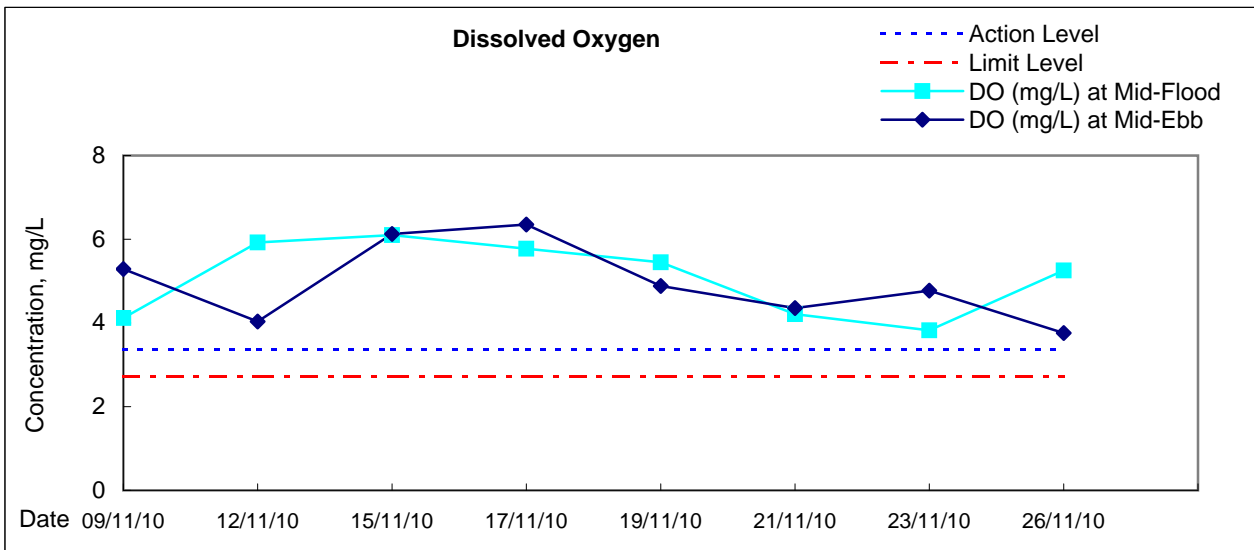














Appendix 5.5

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

28/10/2010 07:03 64.6
28/10/2010 07:33 66.0
28/10/2010 08:03 66.5
28/10/2010 08:33 68.7
28/10/2010 09:03 67.4
28/10/2010 09:33 69.0
28/10/2010 10:03 69.8
28/10/2010 10:33 67.2
28/10/2010 11:03 68.9
28/10/2010 11:33 68.7
28/10/2010 12:03 67.0
28/10/2010 12:33 66.8
28/10/2010 13:03 70.3
28/10/2010 13:33 68.8
28/10/2010 14:03 67.2
28/10/2010 14:33 68.8
28/10/2010 15:03 66.7
28/10/2010 15:33 68.6
28/10/2010 16:03 66.4
28/10/2010 16:33 67.4
28/10/2010 17:03 66.9
28/10/2010 17:33 66.2
28/10/2010 18:03 63.3
28/10/2010 18:33 63.5
29/10/2010 07:03 64.6
29/10/2010 07:33 66.1
29/10/2010 08:03 65.3
29/10/2010 08:33 66.9
29/10/2010 09:03 66.7
29/10/2010 09:33 69.3
29/10/2010 10:03 69.8
29/10/2010 10:33 69.1
29/10/2010 11:03 69.8
29/10/2010 11:33 68.5
29/10/2010 12:03 66.3
29/10/2010 12:33 64.8
29/10/2010 13:03 72.7
29/10/2010 13:33 68.2
29/10/2010 14:03 68.5
29/10/2010 14:33 67.2
29/10/2010 15:03 66.5
29/10/2010 15:33 68.3
29/10/2010 16:03 65.9
29/10/2010 16:33 68.4
29/10/2010 17:03 65.1
30/10/2010 07:03 65.1
30/10/2010 08:03 65.4
30/10/2010 08:33 68.0
30/10/2010 09:03 67.4
30/10/2010 09:33 68.3
30/10/2010 10:03 67.6
30/10/2010 10:33 70.1
30/10/2010 11:03 68.3
30/10/2010 11:33 65.0
30/10/2010 12:03 66.0
30/10/2010 12:33 64.4
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30/10/2010 17:03 66.0
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30/10/2010 18:03 64.9
30/10/2010 18:33 64.8
01/11/2010 07:03 65.4
01/11/2010 07:33 66.1
01/11/2010 08:03 65.7
01/11/2010 08:33 68.8
01/11/2010 09:03 67.9
01/11/2010 09:33 68.7
01/11/2010 10:03 68.8
01/11/2010 10:33 69.0
01/11/2010 11:03 67.0
01/11/2010 11:33 67.1
01/11/2010 12:03 66.1
01/11/2010 12:33 65.3
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01/11/2010 14:03 68.2
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01/11/2010 15:03 68.2
01/11/2010 15:33 68.1
01/11/2010 16:03 68.2
01/11/2010 16:33 70.3
01/11/2010 16:03 65.5
01/11/2010 16:33 67.2
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01/11/2010 17:33 66.6
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01/11/2010 18:33 64.3
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02/11/2010 08:03 64.5
02/11/2010 08:33 70.4
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02/11/2010 11:33 68.1
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02/11/2010 14:03 66.5
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03/11/2010 13:33 68.0
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03/11/2010 15:33 64.9
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04/11/2010 15:33 69.1
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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29/10/2010 20:28 67.2	31/10/2010 09:38 55.2	31/10/2010 18:48 64.1	02/11/2010 19:58 63.9	04/11/2010 21:08 64.1	06/11/2010 26:18 64.7
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29/10/2010 20:58 68.2	31/10/2010 10:08 58.4	31/10/2010 19:18 62.7	02/11/2010 20:28 56.7	04/11/2010 21:38 64.9	06/11/2010 26:48 65.0
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29/10/2010 21:13 67.5	31/10/2010 10:23 59.4	31/10/2010 19:33 62.5	02/11/2010 20:43 68.3	04/11/2010 21:53 64.4	07/11/2010 27:03 63.3
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29/10/2010 21:23 71.8	31/10/2010 10:33 54.2	31/10/2010 19:43 61.3	02/11/2010 20:53 66.5	04/11/2010 22:03 64.1	07/11/2010 27:13 63.3
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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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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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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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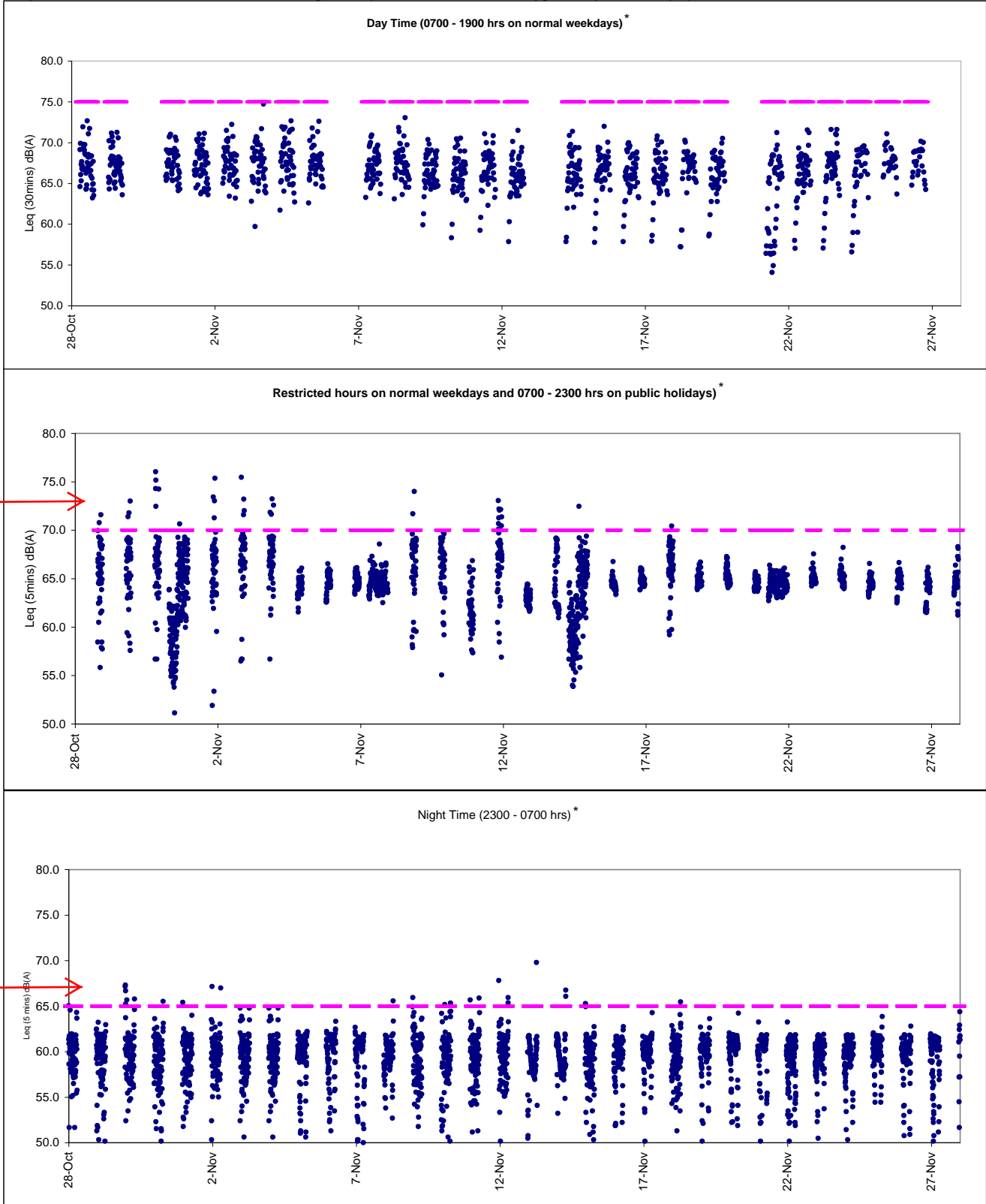
Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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17/11/2010 03:33 59.5	18/11/2010 04:43 60.5	19/11/2010 05:53 53.8	20/11/2010 23:03 60.0	21/11/2010 08:13 59.6	22/11/2010 06:23 60.3
17/11/2010 03:38 60.1	18/11/2010 04:48 57.2	19/11/2010 05:58 61.0	20/11/2010 23:08 59.6	21/11/2010 08:18 59.6	22/11/2010 06:28 60.8
17/11/2010 03:43 60.3	18/11/2010 04:53 59.7	19/11/2010 06:03 46.4	20/11/2010 23:13 60.6	21/11/2010 08:23 61.3	22/11/2010 06:33 59.7
17/11/2010 03:48 58.8	18/11/2010 04:58 55.9	19/11/2010 06:08 53.5	20/11/2010 23:18 59.8	21/11/2010 08:28 59.7	22/11/2010 06:38 60.6
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17/11/2010 03:58 59.5	18/11/2010 05:08 59.2	19/11/2010 06:18 57.5	20/11/2010 23:28 59.9	21/11/2010 08:38 60.6	22/11/2010 06:48 60.1
17/11/2010 04:03 58.9	18/11/2010 05:13 48.2	19/11/2010 06:23 58.2	20/11/2010 23:33 59.5	21/11/2010 08:43 59.1	22/11/2010 06:53 59.2
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17/11/2010 04:13 59.2	18/11/2010 05:23 60.1	19/11/2010 06:33 59.4	20/11/2010 23:43 60.3	21/11/2010 08:53 56.5	22/11/2010 07:03 59.0
17/11/2010 04:18 59.0	18/11/2010 05:28 61.7	19/11/2010 06:38 59.6	20/11/2010 23:48 63.2	21/11/2010 08:58 57.6	22/11/2010 07:08 59.5
17/11/2010 04:23 59.0	18/11/2010 05:33 60.5	19/11/2010 06:43 60.7	20/11/2010 23:53 60.5	21/11/2010 09:03 52.8	22/11/2010 07:13 58.6
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17/11/2010 04:33 58.3	18/11/2010 05:43 59.3	19/11/2010 06:53 62.6	21/11/2010 00:03 60.4	21/11/2010 09:13 44.0	22/11/2010 07:23 59.2
17/11/2010 04:38 59.1	18/11/2010 05:48 60.7	19/11/2010 06:58 63.6	21/11/2010 00:08 58.4	21/11/2010 09:18 52.1	22/11/2010 07:28 59.1
17/11/2010 04:43 59.1	18/11/2010 05:53 61.7	19/11/2010 07:03 60.4	21/11/2010 00:13 59.6	21/11/2010 09:23 50.2	22/11/2010 07:33 59.3
17/11/2010 04:48 60.2	18/11/2010 05:58 61.1	19/11/2010 23:08 61.5	21/11/2010 00:18 59.7	21/11/2010 09:28 61.3	22/11/2010 07:38 58.4
17/11/2010 04:53 60.5	18/11/2010 06:03 56.4	1			

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

22/11/2010 05:33 60.1	23/11/2010 06:43 58.1	24/11/2010 23:53 59.9	26/11/2010 01:03 53.0	27/11/2010 02:13 50.8
22/11/2010 05:38 59.8	23/11/2010 06:48 59.8	24/11/2010 23:58 60.1	26/11/2010 01:08 52.2	27/11/2010 02:18 44.6
22/11/2010 05:43 59.4	23/11/2010 06:53 60.8	25/11/2010 00:03 59.8	26/11/2010 01:13 50.8	27/11/2010 02:23 61.6
22/11/2010 05:48 60.3	23/11/2010 06:58 60.6	25/11/2010 00:08 59.7	26/11/2010 01:18 46.7	27/11/2010 02:28 61.7
22/11/2010 05:53 60.6	23/11/2010 23:03 59.4	25/11/2010 00:13 59.3	26/11/2010 01:23 61.8	27/11/2010 02:33 61.5
22/11/2010 05:58 53.6	23/11/2010 23:08 59.6	25/11/2010 00:18 58.8	26/11/2010 01:28 54.1	27/11/2010 02:38 49.6
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22/11/2010 06:43 57.4	23/11/2010 23:53 58.7	25/11/2010 01:03 55.3	26/11/2010 02:13 60.6	27/11/2010 03:23 61.5
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23/11/2010 00:08 57.1	24/11/2010 01:18 61.7	25/11/2010 02:28 61.3	26/11/2010 03:38 60.1	27/11/2010 04:48 60.2
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23/11/2010 01:58 61.3	24/11/2010 03:08 58.6	25/11/2010 04:18 59.9	26/11/2010 05:28 60.4	27/11/2010 06:38 57.8
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23/11/2010 02:13 61.5	24/11/2010 03:23 59.4	25/11/2010 04:33 60.0	26/11/2010 05:43 60.8	27/11/2010 06:53 60.6
23/11/2010 02:18 61.1	24/11/2010 03:28 59.6	25/11/2010 04:38 59.0	26/11/2010 05:48 61.8	27/11/2010 06:58 60.2
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23/11/2010 02:33 59.8	24/11/2010 03:43 58.7	25/11/2010 04:53 59.7	26/11/2010 06:03 51.5	27/11/2010 23:13 57.2
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23/11/2010 02:43 60.3	24/11/2010 03:53 59.3	25/11/2010 05:03 60.2	26/11/2010 06:13 56.5	27/11/2010 23:23 51.7
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23/11/2010 02:58 59.6	24/11/2010 04:08 60.1	25/11/2010 05:18 61.7	26/11/2010 06:28 58.7	27/11/2010 23:38 59.5
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23/11/2010 03:18 58.6	24/11/2010 04:28 59.2	25/11/2010 05:38 60.6	26/11/2010 06:48 61.6	27/11/2010 23:58 61.3
23/11/2010 03:23 58.8	24/11/2010 04:33 59.1	25/11/2010 05:43 61.3	26/11/2010 06:53 61.1	
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23/11/2010 04:13 60.0	24/11/2010 05:23 60.2	25/11/2010 06:33 58.4	26/11/2010 23:43 60.9	
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23/11/2010 04:38 58.5	24/11/2010 05:48 60.6	25/11/2010 06:58 63.8	27/11/2010 00:08 59.7	
23/11/2010 04:43 59.8	24/11/2010 05:53 60.5	25/11/2010 23:03 60.4	27/11/2010 00:13 61.2	
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23/11/2010 05:				

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



Exceedances are discontinuous. It is concluded that the exceedances from non-point sources in which contributed by traffic noise at Island Eastern Corridor.

*The noise levels shown were already corrected with baseline noise

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

Normal Day 07:00-19:00

28/10/2010 07:04 70.7	02/11/2010 13:34 67.6	08/11/2010 08:34 66.5	12/11/2010 15:34 67.4	18/11/2010 10:34 66.4	23/11/2010 17:34 70.8
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28/10/2010 08:04 67.2	02/11/2010 14:34 68.0	08/11/2010 09:34 66.1	12/11/2010 16:34 69.7	18/11/2010 11:34 63.5	23/11/2010 18:34 67.8
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28/10/2010 14:04 71.0	03/11/2010 08:34 67.1	08/11/2010 15:34 69.5	13/11/2010 10:34 65.9	18/11/2010 17:34 69.4	24/11/2010 12:34 64.4
28/10/2010 14:34 68.3	03/11/2010 09:04 67.7	08/11/2010 16:04 69.7	13/11/2010 11:04 64.7	18/11/2010 18:04 64.9	24/11/2010 13:04 65.1
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01/11/2010 07:34 68.6	05/11/2010 14:04 71.1	11/11/2010 09:04 65.9	16/11/2010 16:04 67.2	22/11/2010 11:04 65.0	26/11/2010 18:04 64.8
01/11/2010 08:04 66.7	05/11/2010 14:34 68.8	11/11/2010 09:34 65.6	16/11/2010 16:34 68.3	22/11/2010 11:34 65.2	26/11/2010 18:34 65.1
01/11/2010 08:34 67.8	05/11/2010 15:04 70.4	11/11/2010 10:04 66.9	16/11/2010 17:04 68.2	22/11/2010 12:04 63.9	27/11/2010 07:04 60.9
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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29/10/2010 19:49 66.8	31/10/2010 08:59 69.3	31/10/2010 18:09 67.2	02/11/2010 19:19 64.7	04/11/2010 20:29 65.0	06/11/2010 25:39 63.1
29/10/2010 19:54 64.8	31/10/2010 09:04 65.0	31/10/2010 18:14 66.9	02/11/2010 19:24 67.9	04/11/2010 20:34 64.8	06/11/2010 25:44 63.4
29/10/2010 19:59 63.6	31/10/2010 09:09 67.6	31/10/2010 18:19 64.4	02/11/2010 19:29 67.7	04/11/2010 20:39 66.5	06/11/2010 25:49 63.3
29/10/2010 20:04 64.4	31/10/2010 09:14 62.7	31/10/2010 18:24 58.7	02/11/2010 19:34 65.0	04/11/2010 20:44 53.0	06/11/2010 25:54 64.1
29/10/2010 20:09 67.8	31/10/2010 09:19 65.2	31/10/2010 18:29 62.2	02/11/2010 19:39 64.9	04/11/2010 20:49 65.8	06/11/2010 25:59 63.4
29/10/2010 20:14 69.5	31/10/2010 09:24 63.8	31/10/2010 18:34 64.7	02/11/2010 19:44 62.8	04/11/2010 20:54 66.4	06/11/2010 26:04 63.1
29/10/2010 20:19 71.4	31/10/2010 09:29 66.2	31/10/2010 18:39 64.6	02/11/2010 19:49 67.5	04/11/2010 20:59 67.0	06/11/2010 26:09 63.7
29/10/2010 20:24 68.5	31/10/2010 09:34 62.8	31/10/2010 18:44 68.1	02/11/2010 19:54 71.3	04/11/2010 21:04 64.1	06/11/2010 26:14 63.1
29/10/2010 20:29 62.3	31/10/2010 09:39 65.1	31/10/2010 18:49 55.1	02/11/2010 19:59 61.6	04/11/2010 21:09 62.5	06/11/2010 26:19 63.2
29/10/2010 20:34 66.7	31/10/2010 09:44 64.7	31/10/2010 18:54 68.2	02/11/2010 20:04 66.2	04/11/2010 21:14 65.6	06/11/2010 26:24 65.2
29/10/2010 20:39 58.9	31/10/2010 09:49 67.0	31/10/2010 18:59 46.6	02/11/2010 20:09 63.2	04/11/2010 21:19 65.7	06/11/2010 26:29 60.9
29/10/2010 20:44 67.9	31/10/2010 09:54 67.1	31/10/2010 19:04 67.3	02/11/2010 20:14 63.6	04/11/2010 21:24 59.7	06/11/2010 26:34 62.1
29/10/2010 20:49 64.7	31/10/2010 09:59 67.2	31/10/2010 19:09 65.5	02/11/2010 20:19 68.1	04/11/2010 21:29 66.1	06/11/2010 26:39 61.8
29/10/2010 20:54 66.9	31/10/2010 10:04 56.7	31/10/2010 19:14 58.9	02/11/2010 20:24 66.2	04/11/2010 21:34 62.0	06/11/2010 26:44 61.9
29/10/2010 20:59 64.8	31/10/2010 10:09 66.3	31/10/2010 19:19 66.5	02/11/2010 20:29 66.7	04/11/2010 21:39 58.2	06/11/2010 26:49 62.9
29/10/2010 21:04 66.2	31/10/2010 10:14 67.7	31/10/2010 19:24 63.4	02/11/2010 20:34 71.9	04/11/2010 21:44 66.1	06/11/2010 26:54 62.1
29/10/2010 21:09 63.8	31/10/2010 10:19 67.3	31/10/2010 19:29 65.2	02/11/2010 20:39 62.5	04/11/2010 21:49 62.9	06/11/2010 26:59 61.4
29/10/2010 21:14 67.0	31/10/2010 10:24 66.5	31/10/2010 19:34 63.4	02/11/2010 20:44 67.7	04/11/2010 21:54 57.9	07/11/2010 07:04 66.8
29/10/2010 21:19 63.6	31/10/2010 10:29 63.2	31/10/2010 19:39 66.5	02/11/2010 20:49 67.1	04/11/2010 21:59 67.2	07/11/2010 07:09 66.3
29/10/2010 21:24 64.9	31/10/2010 10:34 56.7	31/10/2010 19:44 62.2	02/11/2010 20:54 67.7	04/11/2010 22:04 65.7	07/11/2010 07:14 64.5
29/10/2010 21:29 64.3	31/10/2010 10:39 66.2	31/10/2010 19:49 62.1	02/11/2010 20:59 66.0	04/11/2010 22:09 67.0	07/11/2010 07:19 64.6
29/10/2010 21:34 63.4	31/10/2010 10:44 65.3	31/10/2010 19:54 63.9	02/11/2010 21:04 66.6	04/11/2010 22:14 63.5	07/11/2010 07:24 65.0
29/10/2010 21:39 62.8	31/10/2010 10:49 64.9	31/10/2010 19:59 64.6	02/11/2010 21:09 66.1	04/11/2010 22:19 68.2	07/11/2010 07:29 65.6
29/10/2010 21:44 63.6	31/10/2010 10:54 59.2	31/10/2010 20:04 65.1	02/11/2010 21:14 64.4	04/11/2010 22:24 69.8	07/11/2010 07:34 63.9
29/10/2010 21:49 63.5	31/10/2010 10:59 67.4	31/10/2010 20:09 64.6	02/11/2010 21:19 64.9	04/11/2010 22:29 67.1	07/11/2010 07:39 63.5
29/10/2010 21:54 66.2	31/10/2010 11:04 65.4	31/10/2010 20:14 65.7	02/11/2010 21:24 67.0	04/11/2010 22:34 65.4	07/11/2010 07:44 64.2
29/10/2010 21:59 62.8	31/10/2010 11:09 63.1	31/10/2010 20:19 64.9	02/11/2010 21:29 61.1	04/11/2010 22:39 67.1	07/11/2010 07:49 65.0
29/10/2010 22:04 67.4	31/10/2010 11:14 65.6	31/1			

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

07/11/2010 10:44 66.5	07/11/2010 19:54 64.0	09/11/2010 21:04 68.2	11/11/2010 22:14 62.9	14/11/2010 07:24 58.6	14/11/2010 16:34 63.9
07/11/2010 10:49 66.5	07/11/2010 19:59 64.3	09/11/2010 21:09 61.0	11/11/2010 22:19 63.7	14/11/2010 07:29 57.1	14/11/2010 16:39 57.2
07/11/2010 10:54 66.9	07/11/2010 20:04 64.8	09/11/2010 21:14 64.2	11/11/2010 22:24 63.7	14/11/2010 07:34 60.2	14/11/2010 16:44 66.6
07/11/2010 10:59 67.0	07/11/2010 20:09 64.5	09/11/2010 21:19 63.6	11/11/2010 22:29 62.9	14/11/2010 07:39 60.8	14/11/2010 16:49 64.4
07/11/2010 11:04 67.1	07/11/2010 20:14 64.6	09/11/2010 21:24 64.3	11/11/2010 22:34 62.2	14/11/2010 07:44 58.0	14/11/2010 16:54 63.5
07/11/2010 11:09 68.0	07/11/2010 20:19 64.9	09/11/2010 21:29 64.6	11/11/2010 22:39 61.8	14/11/2010 07:49 58.2	14/11/2010 16:59 62.4
07/11/2010 11:14 63.6	07/11/2010 20:24 64.8	09/11/2010 21:34 64.9	11/11/2010 22:44 62.1	14/11/2010 07:54 56.8	14/11/2010 17:04 62.9
07/11/2010 11:19 67.3	07/11/2010 20:29 65.3	09/11/2010 21:39 67.1	11/11/2010 22:49 61.7	14/11/2010 07:59 55.3	14/11/2010 17:09 67.8
07/11/2010 11:24 67.7	07/11/2010 20:34 64.1	09/11/2010 21:44 63.4	11/11/2010 22:54 61.3	14/11/2010 08:04 57.0	14/11/2010 17:14 65.3
07/11/2010 11:29 67.6	07/11/2010 20:39 64.5	09/11/2010 21:49 64.2	11/11/2010 22:59 61.3	14/11/2010 08:09 59.0	14/11/2010 17:19 63.9
07/11/2010 11:34 67.1	07/11/2010 20:44 64.7	09/11/2010 21:54 59.0	12/11/2010 19:04 66.4	14/11/2010 08:14 61.6	14/11/2010 17:24 63.8
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07/11/2010 11:44 68.0	07/11/2010 20:54 67.2	09/11/2010 22:04 65.7	12/11/2010 19:14 67.5	14/11/2010 08:24 57.7	14/11/2010 17:34 65.4
07/11/2010 11:49 67.1	07/11/2010 20:59 64.0	09/11/2010 22:09 64.9	12/11/2010 19:19 67.8	14/11/2010 08:29 56.2	14/11/2010 17:39 66.8
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07/11/2010 11:59 66.1	07/11/2010 21:09 64.2	09/11/2010 22:19 71.5	12/11/2010 19:29 63.5	14/11/2010 08:39 61.2	14/11/2010 17:49 62.2
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07/11/2010 12:09 67.6	07/11/2010 21:19 64.0	09/11/2010 22:29 66.4	12/11/2010 19:39 66.5	14/11/2010 08:49 58.0	14/11/2010 17:59 66.0
07/11/2010 12:14 67.0	07/11/2010 21:24 64.0	09/11/2010 22:34 66.8	12/11/2010 19:44 65.7	14/11/2010 08:54 60.3	14/11/2010 18:04 66.4
07/11/2010 12:19 65.5	07/11/2010 21:29 64.8	09/11/2010 22:39 65.4	12/11/2010 19:49 58.6	14/11/2010 08:59 55.5	14/11/2010 18:09 65.1
07/11/2010 12:24 66.6	07/11/2010 21:34 64.1	09/11/2010 22:44 65.8	12/11/2010 19:54 61.8	14/11/2010 09:04 55.1	14/11/2010 18:14 63.6
07/11/2010 12:29 66.8	07/11/2010 21:39 64.4	09/11/2010 22:49 65.8	12/11/2010 19:59 66.7	14/11/2010 09:09 59.2	14/11/2010 18:19 64.3
07/11/2010 12:34 67.0	07/11/2010 21:44 66.8	09/11/2010 22:54 65.2	12/11/2010 20:04 63.8	14/11/2010 09:14 54.6	14/11/2010 18:24 62.6
07/11/2010 12:39 66.0	07/11/2010 21:49 66.4	09/11/2010 22:59 64.3	12/11/2010 20:09 63.4	14/11/2010 09:19 57.6	14/11/2010 18:29 65.1
07/11/2010 12:44 66.6	07/11/2010 21:54 67.3	10/11/2010 19:04 64.7	12/11/2010 20:14 63.2	14/11/2010 09:24 56.6	14/11/2010 18:34 64.2
07/11/2010 12:49 66.7	07/11/2010 21:59 63.9	10/11/2010 19:09 65.5	12/11/2010 20:19 66.1	14/11/2010 09:29 57.7	14/11/2010 18:39 67.3
07/11/2010 12:54 57.9	07/11/2010 22:04 64.5	10/11/2010 19:14 65.0	12/11/2010 20:24 55.4	14/11/2010 09:34 54.6	14/11/2010 18:44 63.2
07/11/2010 12:59 66.7	07/11/2010 22:09 64.0	10/11/2010 19:19 65.2	12/11/2010 20:29 57.9	14/11/2010 09:39 50.8	14/11/2010 18:49 65.1
07/11/2010 13:04 67.1	07/11/2010 22:14 64.1	10/11/2010 19:24 65.3	12/11/2010 20:34 66.2	14/11/2010 09:44 55.8	14/11/2010 18:54 65.3
07/11/2010 13:09 65.4	07/11/2010 22:19 64.0	10/11/2010 19:29 66.0	12/11/2010 20:39 66.3	14/11/2010 09:49 56.8	14/11/2010 18:59 66.5
07/11/2010 13:14 41.8	07/11/2010 22:24 63.3	10/11/2010 19:34 61.7	12/11/2010 20:44 44.8	14/11/2010 09:54 53.6	14/11/2010 19:04 62.0
07/11/2010 13:19 66.7	07/11/2010 22:29 63.4	10/11/2010 19:39 60.8	12/11/2010 20:49 67.3	14/11/2010 09:59 57.1	14/11/2010 19:09 62.4
07/11/2010 13:24 67.1	07/11/2010 22:34 64.0	10/11/2010 19:44 66.2	12/11/2010 20:54 65.5	14/11/2010 10:04 51.8	14/11/2010 19:14 67.3
07/11/2010 13:29 66.3	07/11/2010 22:39 63.8	10/11/2010 19:49 63.2	12/11/2010 20:59 63.7	14/11/2010 10:09 56.4	14/11/2010 19:19 59.3
07/11/2010 13:34 67.6	07/11/2010 22:44 63.7	10/11/2010 19:54 66.1	12/11/2010 21:04 63.6	14/11/2010 10:14 53.0	14/11/2010 19:24 63.7
07/11/2010 13:39 67.7	07/11/2010 22:49 63.3	10/11/2010 19:59 63.5	12/11/2010 21:09 66.1	14/11/2010 10:19 53.9	14/11/2010 19:29 59.3
07/11/2010 13:44 67.4	07/11/2010 22:54 63.8	10/11/2010 20:04 66.3	12/11/2010 21:14 68.1	14/11/2010 10:24 58.6	14/11/2010 19:34 58.7
07/11/2010 13:49 67.9	07/11/2010 22:59 63.6	10/11/2010 20:09 68.1	12/11/2010 21:19 65.6	14/11/2010 10:29 54.4	14/11/2010 19:39 61.1
07/11/2010 13:54 67.7	08/11/2010 19:04 67.0	10/11/2010 20:14 65.3	12/11/2010 21:24 64.1	14/11/2010 10:34 55.9	14/11/2010 19:44 65.9
07/11/2010 13:59 67.2	08/11/2010 19:09 63.9	10/11/2010 20:19 65.8	12/11/2010 21:29 64.3	14/11/2010 10:39 54.8	14/11/2010 19:49 67.1
07/11/2010 14:04 67.4	08/11/2010 19:14 63.4	10/11/2010 20:24 68.0	12/11/2010 21:34 66.1	14/11/2010 10:44 56.3	14/11/2010 19:54 65.4
07/11/2010 14:09 67.9	08/11/2010 19:19 64.7	10/11/2010 20:29 61.2	12/11/2010 21:39 66.9	14/11/2010 10:49 54.5	14/11/2010 19:59 66.9
07/11/2010 14:14 68.0	08/11/2010 19:24 63.9	10/11/2010 20:34 68.0	12/11/2010 21:44 67.9	14/11/2010 10:54 58.2	14/11/2010 20:04 67.8
07/11/2010 14:19 59.7	08/11/2010 19:29 63.9	10/11/2010 20:39 59.7	12/11/2010 21:49 66.6	14/11/2010 10:59 55.7	14/11/2010 20:09 62.4
07/11/2010 14:24 68.1	08/11/2010 19:34 64.1	10/11/2010 20:44 62.9	12/11/2010 21:54 66.9	14/11/2010 11:04 53.9	14/11/2010 20:14 66.7
07/11/2010 14:29 67.1	08/11/2010 19:39 63.7	10/11/2010 20:49 67.5	12/11/2010 21:59 68.0	14/11/2010 11:09 56.2	14/11/2010 20:19 61.5
07/11/2010 14:34 66.3	08/11/2010 19:44 64.0	10/11/2010 20:54 63.1	12/11/2010 22:04 67.8	14/11/2010 11:14 57.3	14/11/2010 20:24 63.5
07/11/2010 14:39 65.9	08/11/2010 19:49 63.7	10/11/2010 20:59 67.2	12/11/2010 22:09 65.8	14/11/2010 11:19 53.8	14/11/2010 20:29 66.5
07/11/2010 14:44 65.0	08/11/2010 19:54 64.6	10/11/2010 21:04 66.3	12/11/2010 22:14 66.6	14/11/2010 11:24 53.9	14/11/2010 20:34 65.3
07/11/2010 14:49 65.5	08/11/2010 19:59 63.3	10/11/2010 21:09 63.6	12/11/2010 22:19 66.5	14/11/2010 11:29 56.7	14/11/2010 20:39 66.1
07/11/2010 14:54 67.2	08/11/2010 20:04 63.8	10/11/2010 21:14 64.1	12/11/2010 22:24 65.5	14/11/2010 11:34 58.1	14/11/2010 20:44 63.8
07/11/2010 14:59 66.5	08/11/2010 20:09 63.6	10/11/2010 21:19 62.5	12/11/2010 22:29 68.0	14/11/2010 11:39 59.8	14/11/2010 20:49 65.9
07/11/2010 15:04 67.1	08/11/2010 20:14 63.4	10/11/2010 21:24 66.3	12/11/2010 22:34 64.1	14/11/2010 11:44 55.1	14/11/2010 20:54 64.1
07/11/2010 15:09 67.0	08/11/2010 20:19 64.0	10/11/2010 21:29 59.3	12/11/2010 22:39 63.7	14/11/2010 11:49 55.8	14/11/2010 20:59 64.3
07/11/2010 15:14 67.0	08/11/2010 20:24 63.1	10/11/2010 21:34 65.1	12/11/2010 22:44 59.9	14/11/2010 11:54 56.7	14/11/2010 21:04 66.5
07/11/2010 15:19 66.3	08/11/2010 20:29 63.8	10/11/2010 21:39 62.6	12/11/2010 22:49 64.2	14/11/2010 11:59 53.1	14/11/2010 21:09 66.2
07/11/2010 15:24 65.5	08/11/2010 20:34 63.6	10/11/2010 21:44 64.8	12/11/2010 22:54 60.9	14/11/2010 12:04 56.0	14/11/2010 21:14 65.2
07/11/2010 15:29 65.7	08/11/2010 20:39 63.0	10/11/2010 21:49 65.4	12/11/2010 22:59 63.6	14/11/2010 12:09 58.1	14/11/2010 21:19 62.0
07/11/2010 15:34 68.1	08/11/2010 20:44 63.5	10/11/2010 21:54 60.6	13/11/2010 19:04 64.7	14/11/2010 12:14 54.0	14/11/2010 21:24 63.4
07/11/2010 15:39 66.3	08/11/2010 20:49 63.7	10/11/2010 21:59 63.9	13/11/2010 19:09 64.7	14/11/2010 12:19 57.0	14/11/2010 21:29 66.8
07/11/2010 15:44 66.2	08/11/2010 20:54 62.9	10/11/2010 22:04 64.0	13/11/2010 19:14 67.4	14/11/2010 12:24 57.5	14/11/2010 21:34 64.0
07/11/2010 15:49 63.1	08/11/2010 20:59 63.6	10/11/2010 22:09 63.8	13/11/2010 19:19 64.9	14/11/2010 12:29 56.4	14/11/2010 21:39 68.1
07/11/2010 15:54 57.6	08/11/2010 21:04 62.8	10/11/2010 22:14 66.3	13/11/2010 19:24 66.1	14/11/2010 12:34 56.2	14/11/2010 21:44 64.8
07/11/2010 15:59 58.2	08/11/2010 21:09 62.6	10/11/2010 22:19 61.1	13/11/2010 19:29 65.2	14/11/2010 12:39 57.4	14/11/2010 21:49 62.1
07/11/2010 16:04 67.5	08/11/2010 21:14 62.7	10/11/2010 22:24 64.0	13/11/2010 19:34 66.9	14/11/2010 12:44 55.8	14/11/2010 21:54 67.1
07/11/2010 16:09 67.1	08/11/2010 21:19 62.7	10/11/2010 22:29 64.3	13/11/2010 19:39 65.4	14/11/2010 12:49 57.7	14/11/2010 21:59 63.3
07/11/2010 16:14 60.1	08/11/2010 21:24 63.9	10/11/2010 22:34 66.8	13/11/2010 19:44 66.9	14/11/2010 12:54 56.4	14/11/2010 22:04 66.0
07/11/2010 16:19 61.5	08/11/2010 21:29 63.8	10/11/2010 22:39 60.5	13/11/2010 19:49 60.6	14/11/2010 12:59 59.0	14/11/2010 22:09 65.6
07/11/2010 16:24 66.5	08/11/2010 21:34 63.1	10/11/2010 22:44 56.7	13/11/2010 19:54 68.0	14/11/2010 13:04 53.9	14/11/2010 22:14 66.5
07/11/2010 16:29 66.4	08/11/2010 21:39 63.4	10/11/2010 22:49 68.6	13/11/2010 19:59 62.5	14/11/2010 13:09 57.2	14/11/2010 22:19 66.8
07/11/2010 16:34 66.0	08/11/2010 21:44 63.7	10/11/2010 22:54 67.4	13/11/2010 20:04 66.0	14/11/2010 13:14 58.2	14/11/2010 22:24 63.2
07/11/2010 16:39 66.3	08/11/2010 21:49 62.7	10/11/2010 22:59 54.7	13/11/2010 20:09 58.9	14/11/2010 13:19 57.8	14/11/2010 22:29 64.6
07/11/2010 16:44 67.1	08/11/2010 21:54 62.8	11/11/2010 19:04 64.2	13/11/2010 20:14 67.1	14/11/2010 13:24 61.8	14/11/2010 22:34 63.8
07/11/2010 16:49 67.0	08/11/2010 21:59 63.5	11/11/2010 19:09 64.7	13/11/2010 20:19 53.0	14/11/2010 13:29 63.8	14/11/2010 22:39 64.7
07/11/2010 16:54 66.7	08/11/2010 22:04 62.6	11/11/2010 19:14 64.1	13/11/2010 20:24 67.6	14/11/2010 13:34 59.4	14/11/2010 22:44 67.9
07/11/2010 16:59 67.9	08/11/2010 22:09 63.1	11/11/2010 19:19 64.0	13/11/2010 20:29 67.7	14/11/2010 13:39 62.9	14/11/2010 22:49 61.3
07/11/2010 17:04 66.2	08/11/2010 22:14 62.4	11/1			

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

15/11/2010 21:44 61.7	17/11/2010 22:54 62.8	20/11/2010 20:04 64.0	21/11/2010 13:14 57.7	21/11/2010 22:24 66.2	24/11/2010 19:34 60.4
15/11/2010 21:49 61.9	17/11/2010 22:59 61.8	20/11/2010 20:09 60.8	21/11/2010 13:19 61.4	21/11/2010 22:29 66.6	24/11/2010 19:39 61.6
15/11/2010 21:54 62.6	18/11/2010 19:04 63.2	20/11/2010 20:14 62.5	21/11/2010 13:24 56.6	21/11/2010 22:34 65.0	24/11/2010 19:44 62.5
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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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03/11/2010 06:34 67.0	04/11/2010 23:44 59.8	06/11/2010 00:54 60.1	07/11/2010 02:04 59.5	08/11/2010 03:14 59.7	09/11/2010 04:24 62.2
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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)

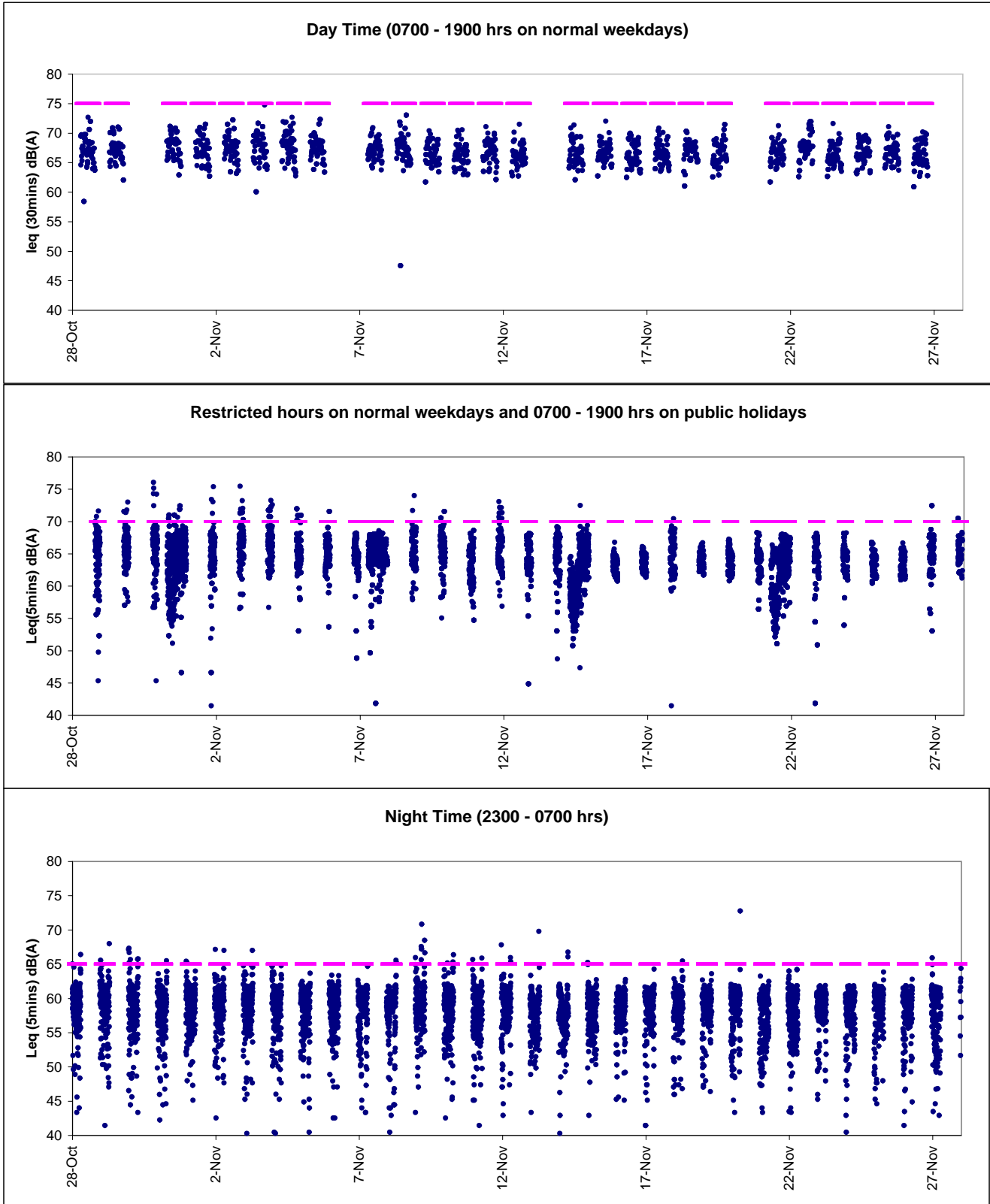
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Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

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23/11/2010 03:19 57.6	24/11/2010 04:29 55.1	25/11/2010 05:39 57.2	26/11/2010 06:49 44.9	27/11/2010 23:59 58.5
23/11/2010 03:24 57.2	24/11/2010 04:34 56.3	25/11/2010 05:44 57.2	26/11/2010 06:54 51.3	
23/11/2010 03:29 57.6	24/11/2010 04:39 54.6	25/11/2010 05:49 57.9	26/11/2010 06:59 57.0	
23/11/2010 03:34 57.2	24/11/2010 04:44 55.2	25/11/2010 05:54 59.8	26/11/2010 23:04 60.5	
23/11/2010 03:39 56.8	24/11/2010 04:49 55.8	25/11/2010 05:59 58.0	26/11/2010 23:09 57.8	
23/11/2010 03:44 57.6	24/11/2010 04:54 56.1	25/11/2010 06:04 59.1	26/11/2010 23:14 60.3	
23/11/2010 03:49 56.9	24/11/2010 04:59 56.9	25/11/2010 06:09 60.2	26/11/2010 23:19 58.9	
23/11/2010 03:54 56.8	24/11/2010 05:04 56.4	25/11/2010 06:14 60.4	26/11/2010 23:24 58.0	
23/11/2010 03:59 57.4	24/11/2010 05:09 57.3	25/11/2010 06:19 60.0	26/11/2010 23:29 55.9	
23/11/2010 04:04 57.7	24/11/2010 05:14 56.9	25/11/2010 06:24 48.0	26/11/2010 23:34 65.9	
23/11/2010 04:09 56.6	24/11/2010 05:19 55.4	25/11/2010 06:29 60.5	26/11/2010 23:39 60.0	
23/11/2010 04:14 56.3	24/11/2010 05:24 57.1	25/11/2010 06:34 60.8	26/11/2010 23:44 63.6	
23/11/2010 04:19 56.8	24/11/2010 05:29 56.8	25/11/2010 06:39 60.5	26/11/2010 23:49 64.9	
23/11/2010 04:24 56.2	24/11/2010 05:34 57.3	25/11/2010 06:44 54.1	26/11/2010 23:54 63.5	
23/11/2010 04:29 57.1	24/11/2010 05:39 57.6	25/11/2010 06:49 57.0	26/11/2010 23:59 57.0	
23/11/2010 04:34 56.7	24/11/2010 05:44 59.2	25/11/2010 06:54 54.1	27/11/2010 00:04 56.7	
23/11/2010 04:39 56.2	24/11/2010 05:49 58.8	25/11/2010 06:59 55.1	27/11/2010 00:09 59.7	
23/11/2010 04:44 57.5	24/11/2010 05:54 57.5	25/11/2010 23:04 59.5	27/11/2010 00:14 50.3	
23/11/2010 04:49 57.7	24/11/2010 05:59 57.7	25/11/2010 23:09 54.0	27/11/2010 00:19 55.9	
23/11/2010 04:54 56.7	24/11/2010 06:04 59.5	25/11/2010 23:14 50.9	27/11/2010 00:24 43.5	
23/11/2010 04:59 57.3	24/11/2010 06:09 60.1	25/11/2010 23:19 55.6	27/11/2010 00:29 54.9	
23/11/2010 05:04 56.8	24/11/2010 06:14 59.6	25/11/2010 23:24 52.0	27/11/2010 00:34 59.9	
23/11/2010 05:09 57.4	24/11/2010 06:19 59.4	25/11/2010 23:29 60.8	27/11/2010 00:39 59.2	
23/11/2010 05:14 56.6	24/11/2010 06:24 59.7	25/11/2010 23:34 48.9	27/11/2010 00:44 54.9	
23/11/2010 05:19 57.5	24/11/2010 06:29 52.6	25/11/2010 23:39 55.1	27/11/2010 00:49 58.2	
23/11/2010 05:24 57.5	24/11/2010 06:34 56.3	25/11/2010 23:44 57.3	27/11/2010 00:54 54.3	
23/11/2010 05:29				



Graphic Presentation of Real Time Noise Monitoring Result - RTN2 (Oil Street Community Liaison Centre)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Submit noise mitigation proposals to IEC and ER;2. Implement noise mitigation proposals. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	<ol style="list-style-type: none"> 1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 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) 	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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) 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event and Action Plan for Marine Water Quality

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



EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	<p>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)</p>	<p>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)</p>	<p>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)</p>	<p>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)</p>
Limit level being exceeded by more than one consecutive sampling days	<p>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)</p>	<p>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)</p>	<p>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)</p>	<p>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)</p>



Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W164	3-Nov-10	Mid-flood	WSD17	DO (mg/L)	6.17	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD17 and not related to the project work.
				Turbidity	9.68	8.04	9.49	
				Suspended Solid	13.00	13.00	14.43	
X_W165	3-Nov-10	Mid-ebb	WSD20	DO (mg/L)	5.38	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD20 and not related to the project work.
				Turbidity	10.90	8.04	9.49	
				Suspended Solid	13.00	13.00	14.43	
X_W166	1-Nov-10	Mid-flood	WSD20	DO (mg/L)	5.44	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: No dredging work was undertaken in the contract HK/2009/01. It is concluded that the source of impact was due to natural variation or change around WSD20 and not related to the project work.
				Turbidity	6.72	8.04	9.49	
				Suspended Solid	13.50	13.00	14.43	
X_W167	1-Nov-10	Mid-ebb	WSD7	DO (mg/L)	5.42	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD7 and not related to the project work.
				Turbidity	3.93	8.04	9.49	
				Suspended Solid	15.00	13.00	14.43	
X_W168	1-Nov-10	Mid-ebb	WSD20	DO (mg/L)	5.68	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD20 and not related to the project work.
				Turbidity	7.07	8.04	9.49	
				Suspended Solid	19.00	13.00	14.43	
X_W169	5-Nov-10	Mid-flood	WSD7	DO (mg/L)	4.35	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: No dredging work was undertaken in the contract HK/2009/01. Besides, no exceedance was recorded at other monitoring stations near the the site of the HK/2009/01. It is concluded that the source of impact was due to natural variation or change around WSD7 and not related to the project work.
				Turbidity	8.53	8.04	9.49	
				Suspended Solid	12.00	13.00	14.43	



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W170	5-Nov-10	Mid-ebb	WSD20	DO (mg/L)	5.62	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD20 and not related to the project work.
				Turbidity	9.06	8.04	9.49	
				Suspended Solid	14.00	13.00	14.43	
X_W171	5-Nov-10	Mid-ebb	WSD19	DO (mg/L)	5.50	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD19 and not related to the project work.
				Turbidity	9.89	8.04	9.49	
				Suspended Solid	13.50	13.00	14.43	
X_W172	9-Nov-10	Mid-flood	WSD20	DO (mg/L)	5.83	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: No dredging work was undertaken in the contract HK/2009/01. Besides, no exceedance was recorded at other monitoring stations near the the site of the HK/2009/01. It is concluded that the source of impact was due to natural variation or change around WSD20 and not related to the project work.
				Turbidity	16.28	8.04	9.49	
				Suspended Solid	26.00	13.00	14.43	
X_W173	5-Nov-10	Mid-ebb	WSD21	DO (mg/L)	5.55	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was in proper condition during monitoring.In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HK/2009/02, it is considered not related to the Project.
				Turbidity	5.48	8.04	9.49	
				Suspended Solid	15.50	13.00	14.43	
X_W174	12-Nov-10	Mid-ebb	WSD15	DO (mg/L)	3.99	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was 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.
				Turbidity	6.10	8.04	9.49	
				Suspended Solid	17.50	13.00	14.43	
X_W175	15-Nov-10	Mid-ebb	WSD21	DO (mg/L)	4.43	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations. The value is within the torrance of Baseline monitoring. Remarks / Other Obs: Silt screen was in proper condition during monitoring.In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HK/2009/02, it is considered not related to the Project.
				Turbidity	5.66	8.04	9.49	
				Suspended Solid	13.50	13.00	14.43	



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up
X_W176	17-Nov-10	Mid-flood	WSD17	DO (mg/L)	6.37	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD17 and not related to the project work.
				Turbidity	4.58	8.04	9.49	
				Suspended Solid	14.00	13.00	14.43	
X_W177	17-Nov-10	Mid-flood	WSD20	DO (mg/L)	5.91	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Silt screen was in proper condition during monitoring. In the view of no exceedance recorded at the monitoring Stations near the marine works area of Contract no.HK/2009/01, it is considered not related to the Project.
				Turbidity	6.57	8.04	9.49	
				Suspended Solid	14.00	13.00	14.43	
X_W178	17-Nov-10	Mid-ebb	WSD21	DO (mg/L)	4.49	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations; Silt screen and silt curtain were inspected and confirmed in a proper condition during the water monitoring; Potential source of impact was checked. Remarks / Other Obs: No consecutive exceedance was recorded in the next water quality monitoring. As no sign of traceable source was identified, it is considered not related to the Project. However, Contractor was reminded to regular check and confirm the dredging and rock filling.
				Turbidity	6.24	8.04	9.49	
				Suspended Solid	28.00	13.00	14.43	
X_W179	26-Nov-10	Mid-flood	WSD17	DO (mg/L)	6.81	3.66	3.28	Possible reason: Natural variation or changes in ambient conditions Action taken / to be taken: Reviewed the trend of overall results at all monitoring stations Remarks / Other Obs: Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD17 and not related to the project work.
				Turbidity	6.22	8.04	9.49	
				Suspended Solid	17.50	13.00	14.43	

Action Level - Value highlight in blue colour
 Limit Level - Value highlight in red colour



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C163	28-Oct-10	Mid-ebb	C3	DO (mg/L)	4.68	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the trend of monitoring results, the condition of silt screen and Contractor's works; No marine work was conducted near the station Remarks / Other Obs: Due to no marine work during the mid-ebb tide monitoring, it is concluded that the source of impact was due to natural variation or change around C3 and not related to the project work.
				Turbidity (NTU)	10.66	9.10	10.25	
				SS (mg/L)	15.00	15.00	22.13	
X_10C164	29-Oct-10	Mid-flood	C4e	DO (mg/L)	4.13	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results; Remarks / Other Obs: Due to no dredging work undertaken at HKCEC marine work zone, it is concluded that the source of impact was due to natural variation or change around C4e and not related to the project work.
				Turbidity (NTU)	8.72	9.10	10.25	
				SS (mg/L)	30.50	15.00	22.13	
X_10C169	1-Nov-10	Mid-flood	C9	DO (mg/L)	4.89	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results Remarks / Other Obs: The exceedance within tolerance of Baseline monitoring. Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around C9 and not related to the project work.
				Turbidity (NTU)	10.93	9.10	10.25	
				SS (mg/L)	17.00	15.00	22.13	
X_10C170	1-Nov-10	Mid-ebb	C9	DO (mg/L)	5.00	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results Remarks / Other Obs: Silt screen was 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.
				Turbidity (NTU)	9.80	9.10	10.25	
				SS (mg/L)	18.50	15.00	22.13	
X_10C171	1-Nov-10	Mid-flood	C3	DO (mg/L)	5.20	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results; Remarks / Other Obs: Due to no dredging work undertaken at HKCEC marine work zone, it is concluded that the source of impact was due to natural variation or change around C3 and not related to the project work.
				Turbidity (NTU)	2.76	9.10	10.25	
				SS (mg/L)	17.00	15.00	22.13	
X_10C172	1-Nov-10	Mid-ebb	C8	DO (mg/L)	4.90	3.36	2.73	Possible reason: Accumulation of particles from outfalls and fish cluster near monitoring station Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results Remarks / Other Obs: The exceedance within tolerance of Baseline monitoring. It is considered that exceedance was not related to the project work due to the discharge from outfalls and fish cluster near monitoring station.
				Turbidity (NTU)	7.80	9.10	10.25	
				SS (mg/L)	18.50	15.00	22.13	



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action
X_10C173	5-Nov-10	Mid-flood	C8	DO (mg/L)	3.90	3.36	2.73	Possible reason: Accumulation of particles from outfalls and fish cluster near monitoring station
				Turbidity (NTU)	11.18	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	22.00	15.00	22.13	Remarks / Other Obs: The exceedance within tolerance of Baseline monitoring. It is considered that exceedance was not related to the project work due to the discharge from outfalls and fish cluster near monitoring station.
X_10C174	5-Nov-10	Mid-ebb	C8	DO (mg/L)	5.37	3.36	2.73	Possible reason: Accumulation of dark wastewater discharged from outfalls near the intakes
				Turbidity (NTU)	9.36	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	13.50	15.00	22.13	Remarks / Other Obs: The exceedance was considered due to the discharge from outfalls near monitoring station and concluded not related to the project work
X_10C175	5-Nov-10	Mid-ebb	C9	DO (mg/L)	5.36	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	11.45	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	15.00	15.00	22.13	Remarks / Other Obs: In the view of silt screen was in proper condition during monitoring, it is considered not related to the Project.
X_10C176	5-Nov-10	Mid-flood	C9	DO (mg/L)	4.05	3.36	2.73	Possible reason: Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	8.64	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	17.50	15.00	22.13	Remarks / Other Obs: In the view of silt screen was in proper condition during monitoring, it is considered not related to the Project.
X_10C177	9-Nov-10	Mid-flood	C8	DO (mg/L)	5.10	3.36	2.73	Possible reason: Accumulation of particles from outfalls and fish cluster near monitoring station
				Turbidity (NTU)	6.93	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	15.50	15.00	22.13	Remarks / Other Obs: The exceedance within tolerance of Baseline monitoring. It is considered that exceedance was not related to the project work due to the discharge from outfalls and fish cluster near monitoring station.
X_10C178	12-Nov-10	Mid-ebb	C4e	DO (mg/L)	3.51	3.36	2.73	Possible reason: Natural variation or changes in ambient conditions
				Turbidity (NTU)	8.76	9.10	10.25	Action taken / to be taken: Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	25.50	15.00	22.13	Remarks / Other Obs: Silt screen were in proper condition during monitoring. In the view of no exceedance recorded at the Station C2, C3 and C4w and in next consecutive monitoring, it is considered not related to the Project.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C179	15-Nov-10	Mid-flood	C3	DO (mg/L)	5.68	3.36	2.73	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	9.05	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	20.00	15.00	22.13	Remarks / Other Obs:	Silt screen were in proper condition during monitoring. In the view of no exceedance recorded at the Station C2, C4e and C4w and in consecutive monitoring, it is considered not related to the Project.
X_10C180	17-Nov-10	Mid-ebb	C5w	DO (mg/L)	4.22	3.36	2.73	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	8.66	9.10	10.25	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations; Silt screen and silt curtain were inspected and confirmed in a proper condition during the water monitoring; Potential source of impact was checked.
				SS (mg/L)	29.50	15.00	22.13	Remarks / Other Obs:	No consecutive exceedance was recorded in the next water quality monitoring. As no sign of traceable source was identified, it is considered not related to the Project. However, Contractor was reminded to regular check and confirm the dredging and rock filling.

Action Level - Value highlight in blue colour

Limit Level - Value highlight in red colour



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).	<ol style="list-style-type: none">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).	<ol style="list-style-type: none">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

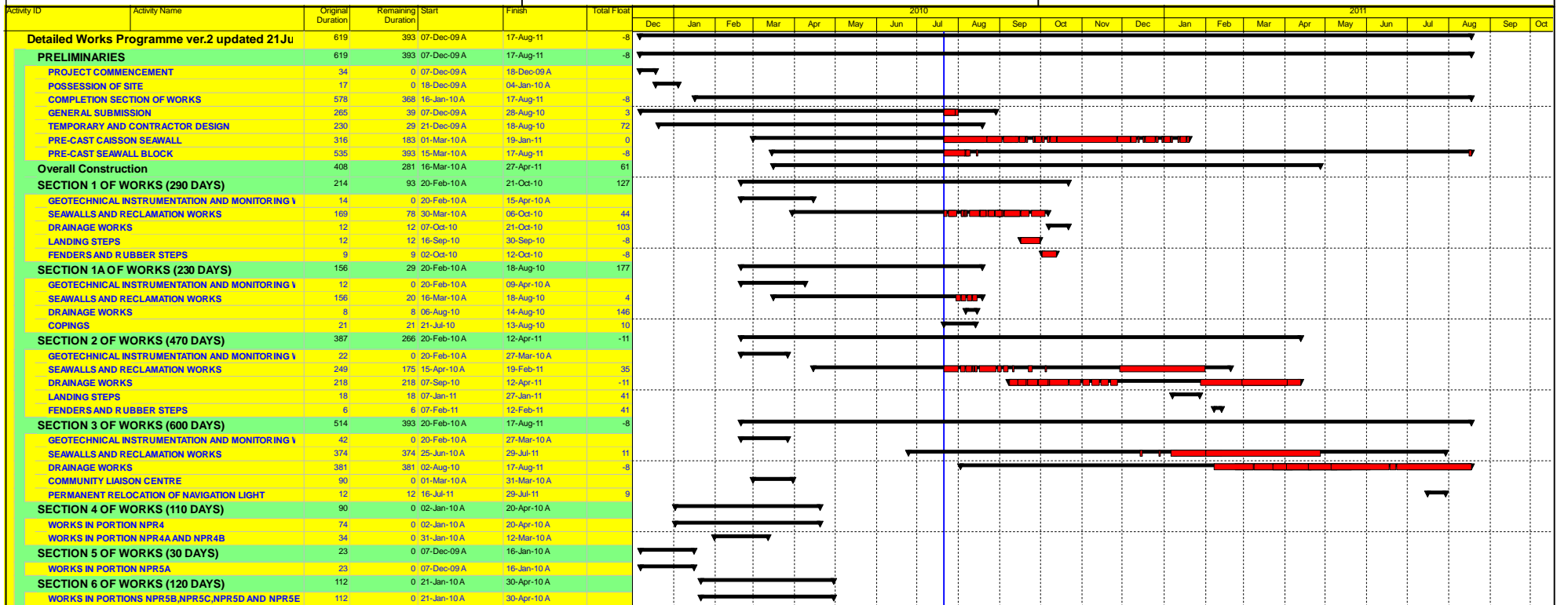


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Peter Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	<ol style="list-style-type: none">1) Contractor for HY/2009/11 has 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	<ol style="list-style-type: none">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



Appendix 10.1

Construction Programme of Individual Contracts



█ Actual Work █ Critical Remaining Work Summary
█ Remaining Work Milestone

Contract No. HK/2009/01

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

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010												2011												2012												2013																																			
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																									
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	Timeline																							
				2010	2011	2012	2013	2014	2015																		
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4			
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 permanent 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	Phase 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 Programme
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	Year																	
						2010	2011	2012	2013	2014	2015	2016	2017										
TCBR1E (TS1 Area)																							
105	1	TCBR1E(TS1)-dredging+rockfill(pre. 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(pre. 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(pre. 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(pre. 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 Sheet 1 of 1

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

Prepared based on IWP Rev. 0
Date Prepared: 28 Oct 2010