CONTRACT NO: HK/2009/05

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

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

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- DECEMBER 2011 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

Lam Geotechnics Limited

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

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

CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

13 January 2012

ENVIRON

Ref.: AACWBIECEM00_0_2345L.12.doc

19 January 2012

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

By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (December 2011) for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for December 2011 dated 13 January 2012.

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

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – December 2011 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009. This report presents the environmental monitoring findings and information recorded during the period 28th November 2011 to 27th December 2011. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

ii. During this reporting period, the major work activities for Contract no. HY/2009/11 included:

- Reclamation works;
- Geo-textile laying;
- Slotted panel fixing;
- Drainage Construction works;
- Installation of berm blocks;
- Concreting the slopes of Open Channel U;
- Construction of in-situ mass concrete cooping;
- Construction of granite facing stone; and
- Construction of Seawall Type 8

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

- Dredging works within HKCEC Water Channel from CH190 to CH260 for Type 1 & 2 sediment was commences and substantially completed;
- Removal of rock armours from CH150 to CH180 at the North bank of HKCEC Water Channel was commenced and substantially completed;
- A trial for Type 3 sediment disposal was carried out;
- Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH170;
- Installation of precast RC outfall at Zone B1-3;
- Trench excavation for the 4 nos. of cooling water discharge pipes at B1-3;
- Reclamation of HKCEC3W (up to CH130) within HKCEC Water Channel;
- Installation of cross -harbour water mains nos. B13, A14/B14 and A15/ B15;
- Thrust block construction for A9/B9 and A11/B11 was commenced;
- Concrete coating at flange joint of cross-harbour water mains nos. A7B7/A8B8, A8B8/A9B9 and A9B9/A10B10;
- Rockfilling and rock protection to cross-harbour watermains;
- Installation of pipe pile at TST (Land Portion) was commenced and substantially completed;
- Grouting works at TST seafront along the pipe piles have been installed;

- Dredging of Type 2 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
- Mainlaying works at Zone B1-5B, B1-6, B2-2, B4-2, B4-5, A1-5A, A3-2A, HKCEC Way In/Out, A2-3B and A5-5;
- Mainlaying works at Zone B1-6, B2-2 and B1-5B;
- Coring and Grouting works for external wall of cooling pumping stations Nos. P4 & P5 at Zone B4-5;
- Coring works for external wall of cooling pumping station No P1 at Zone B4-2;
- Mainlaying works at Zone A1-5A1 and A3-5B;
- Heading No. H4, H5, H7 and H13;
- Heading No. H3 was substantially completed.
- GI duct laying works at ZoneA4-3A and Zone A4-3B;
- Trench excavation, pipe laying works and chamber construction for a 1000 dia. watermains (CHF) at Salisbury Garden

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

- 300mm thick topping slab together with the make up slab below at northern portion commenced on 30 Nov 2011;
- Concreting at Roof Plinth, lift shaft up to +14.15mPD and Fire Service Pump room up to +14.15mPD of Passenger Terminal Building were completed;
- E&M and ABWF of Passenger Terminal Building;
- ELS of Noise Barrier 2 commenced on 29 Nov 2011 and nearly completed.
- Casting of pedestrian pavement above seawall coping Bay 4 to Bay 8 was completed on 13 December 2011;
- Casting of the bus shelter footing at Expo Drive East was completed;
- Precast slab installation at the existing movable ramp was in progress;
- Saw cutting of existing slabs for the construction NB1 footing was completed;
- E&M of P7, P8 & P9
- Approximate 50m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden;
- Jacking pit at ex-pet garden for the heading construction of cooling mains across Convention Avenue commenced;
- Approximate 50m cable duct was laid at Harbour Road and Tonnochy Road.
- Construction of wash out chamber at Harbour Road and access manhole at Harbour Centre were completed;
- Trench excavation and cooling mains installation along Tonnochy Road;
- Installation of PVC and G.I cable ducts was ongoing at Harbour Road;
- Installation of submarine outfall pipe was completed;
- Dredging for submarine outfall pipe was ongoing;

- Concreting the Base Slab of Wan Shing Street at Bay 24 was completed;
- Concreting the wall shaft and roof slab completed of Wan Shing Street at Bay 21 and Bay 24 were completed;
- Bay 21 to Bay 24 of Wan Shing Street were handover to HEC;
- Slab at +3.10mPD and +3.77 mPD and wall below were completed for the WSD Salt Water Pumping Station;
- Excavation and lateral support for DSD receiving pits were completed;
- D610 pipe pile wall construction at landside cofferdam of salt water intake culvert;
- 12 out of 12 nos of pre-bored H-pile for box culverts N1 was casted as of 21 November 2011;
- Temporary working platform was completed and pile cap construction was in progress at Portion 1B for the New Ferry Pier

v. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
- Seawall block construction and reclamation work at TS4;
- Night time protection works at CHT; and
- Precautionary works at Abutment A

vi. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
- Installation of bored pile casing;
- Excavation of bored piles; and
- Concreting of bored piles

Noise Monitoring

vii. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b and M5b on a weekly basis in the reporting month. Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 29 November and 6 December 2011 during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring at M1a and the exceedances were not related to the Project. The construction works conducted were complied with the conditions of CNPs.

Real-time Noise Monitoring

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

Air Quality Monitoring

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

Water Quality Monitoring

x. Water quality monitoring at 18 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table I***.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	1	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	2	0	0	0	0	0	0	0	0	0
	C9	0	0	1	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	1	0	0	0	0	0	0	0	0
	WSD20	0	0	1	2	0	3	0	0	0	0	0	0
	WSD7	0	0	1	1	0	2	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	1
	C4w	0	0	0	0	0	0	0	0	0	0	0	1
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	1	0	1	0
	C5w	0	0	0	0	0	1	0	0	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		**0**	**0**	**5**	**4**	**1**	**7**	**0**	**0**	**1**	**0**	**1**	**2**

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

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

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

Contract no.	**Water Monitoring Station**	**Mid-flood**		**Mid-ebb**	
		DO		**DO**	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	0	0	0	0

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
	Ex-WPCWA SW	0	0	0	0
	Ex-WPCWA SE	0	1	0	0
Total		**0**	**1**	**0**	**0**

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

Complaints, Notifications of Summons and Successful Prosecutions

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

Site Inspections and Audit

xiv. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HY/2009/11, HK/2009/01, HK/2009/02, HY/2009/15 and HK/2010/06 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

Future Key Issues

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

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

- The portion of NPR3 are scheduled to be completed and handover in January 2012. No construction work related to DP3 is anticipated to be conduced in coming month.

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

- Reclamation of HKCEC3W at the northern side within the HKCEC Water Channel would be continued;
- Dredging from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be resumed right after the consent from EPD for type 3 sediment has been received;

- Rockfilling from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be commenced;
- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH170) would be commenced;
- Installation of sheet pile water channel at Dome Promenade (from CH170 to CH260) would be commenced;
- Mainlaying works for 4 nos. of cooling water discharge pipes at WC landfall section (B1-3) would be completed. And subsequent reinstatement works was anticipated to be completed be completed;
- Dredging of type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui would be continued right after the consent from EPD has been received;
- Ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/b18 would be continued and anticipated to be completed;
- Installation of pipe pile wall at sea portion would be continued and anticipated to be completed;
- Thrust block construction, concrete coating for flange joint and Rockfilling protection works would be continued;
- Works would be continued at Zone A1-5A1, A2-3B, A3-3, A3-2A, A3-5B, A3-5B, A4-3A, A4-3B, HKCEC way in/out, A5-5, B4-2, B4-5, B1-6 and B2-2;
- GI duct laying works at Zone A4-3A and A4-3 B would be completed;
- Heading Nos. H4, H5, H7 and H13 would be continued;
- Heading Nos. H4 and H13 would be completed;
- Heading No. H8 would be commenced after its corresponding jacking pit at Zone A1-5A1 has been excavated;
- After the completion of mainlaying works at Zone B4-2 and B4-5, mainlaying works at Zone B4-4 would be commenced;
- After the completion of mainlaying works at HKCEC way in/out, mainlaying works at Zone B4-2A would be commenced;
- After the completion of mainlaying works at A5-5, mainlaying works at Zone B5-2 would be commenced.

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

- Preparation works for temporary diversion intakes of WSD salt water pumping station and Sun Hung Kai pumping station.
- Continue operation of Tseung Kwan O Public Fill Sorting Facility;
- Continue E&M works and ABWF works of passenger terminal;
- Complete 300mm thick slab construction at Northern Portion of Expo Drive East;

- Complete excavation works for noise barrier 2 at Expo Drive East;
- Continue slab modification for NB 1 footing at Expo Drive East;
- Continue construction for bus shelter at Expo Drive East;
- Continue trench excavation and pipe laying works along Harbour Road;
- Continue trench excavation and deck over at Tonnochy Road;
- Continue construction from +3.10mPD to + 5.17mPD for WSD Salt Water Pumping Station;
- Complete pipeline jacking WSD intake A;
- Continue construction of seaside cofferdams for salt water intake culvert, submarine outfall and Box Culvert N1;
- Commence excavation works of landside cofferdam for the construction of Bay 6 – 10 salt water intake culvert;
- Continue backfilling rockfills for the installed submarine outfall pipes;
- Continue installation of the temporary water diversion steel frame;
- Commence the temporary internal propping works for Box Culvert O construction;
- Continue substructure works for the New Ferry Pier

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

- ELS works at TS1;
- Pumping test and ELS preparation works at TPCWAE ;
- Night time protection works at CHT; and
- Precautionary works at Abutment A

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

- Installation of bored pile casing;
- Excavation of bored piles; and
- Bored Pile Concreting

1. Introduction

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).

1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "*Environmental Monitoring and Audit Requirements"* under Particular Specification Section 27.

1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 and during the period 28th November to 27th December 2011. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

Section 1 ***Introduction*** – details the scope and structure of the report.

Section 2 ***Project Background*** – summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.

Section 3 ***Status of Regulatory Compliance*** – summarizes the status of valid Environmental Permits / Licenses during the reporting period.

Section 4 ***Monitoring Requirements*** – summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.

Section 5 ***Monitoring Results*** – summarizes the monitoring results obtained in the reporting period.

Section 6 ***Compliance Audit*** – summarizes the auditing of monitoring results, all exceedances environmental parameters.

Section 7 ***Cumulative Construction Impact due to the Concurrent Projects*** – summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

Section 8 ***Site Inspection*** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

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

Section 10 ***Conclusion***

2. Project Background

2.1 Background

2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.

2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.

2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in ***Figure 2.1***.

2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.

2.2.3. The scope of the Project comprises:

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

- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.

2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. ***Table 2.1*** summarises the five individual DPs under this Project. ***Figure 2.1*** shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

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

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

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
China Harbour-	Contractor under Contract	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085

Party	Role	Post	Name	Contact No.	Contact Fax
CRBC Joint Venture	no. HY/2009/11	Project Manager	Mr. Gregory Wong	3157 1086	
		Site Agent	Mr. Daniel Cheung	3157 1086	
		Environmental Officer	Mr. C. M. Wong	3157 1086	
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Project Director	Mr. PL Yue	9124 2471	2634 1626
		Site Agent	Mr. Paul Yu	9456 9819	
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Construction Manager	Mr. KK Yuen Mr. Andy Yu	9498 1213 96484896	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
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. Mak Kam Wing	3658 3044	
		Quality & Environmental Manager	Mr. C.P. Ho	3658 3000	
		Environmental Officer	Ms. Flora Ng	3658 3064	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2528 5651
		Site Manager	Mr. P J Fan	3557 6368	2566 2192
		Construction Manager	Mr. C K Kwok	9779 2162	
		Construction Manager (East)	Gene Cheung	6105 4880	
		Construction Manager (West)	Tony Chiu	9090 0606	
		Environmental Officer	Mr. Daniel Sin	3557 6215	
Gammon -Leader JV	Contractor under Contract no.	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
		Site Agent	Mr. Keith Tse	2529 2068	

Party	Role	Post	Name	Contact No.	Contact Fax
	HK/2010/06	Environmental Officer	Mr. Lee Wai Man	9481 6024	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. For Contract no. HY/2009/11, the principal work activities in this reporting month included:

- Reclamation works;
- Geo-textile laying;
- Slotted panel fixing;
- Drainage Construction works;
- Installation of berm blocks;
- Concreting the slopes of Open Channel U;
- Construction of in-situ mass concrete cooping;
- Construction of granite facing stone; and
- Construction of Seawall Type 8

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

- Dredging works within HKCEC Water Channel from CH190 to CH260 for Type 1 & 2 sediment was commences and substantially completed;
- Removal of rock armours from CH150 to CH180 at the North bank of HKCEC Water Channel was commenced and substantially completed;
- A trial for Type 3 sediment disposal was carried out;
- Installation of sheet pile for cooling water intake at Dome Promenade between CH120 and CH170;
- Installation of precast RC outfall at Zone B1-3;
- Trench excavation for the 4 nos. of cooling water discharge pipes at B1-3;
- Reclamation of HKCEC3W (up to CH130) within HKCEC Water Channel;
- Installation of cross -harbour water mains nos. B13, A14/B14 and A15/ B15;
- Thrust block construction for A9/B9 and A11/B11 was commenced;
- Concrete coating at flange joint of cross-harbour water mains nos. A7B7/A8B8, A8B8/A9B9 and A9B9/A10B10;
- Rockfilling and rock protection to cross-harbour watermains;
- Installation of pipe pile at TST (Land Portion) was commenced and substantially completed;
- Grouting works at TST seafront along the pipe piles have been installed;

- Dredging of Type 2 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui;
- Mainlaying works at Zone B1-5B, B1-6, B2-2, B4-2, B4-5, A1-5A, A3-2A, HKCEC Way In/Out, A2-3B and A5-5;
- Mainlaying works at Zone B1-6, B2-2 and B1-5B;
- Coring and Grouting works for external wall of cooling pumping stations Nos. P4 & P5 at Zone B4-5;
- Coring works for external wall of cooling pumping station No P1 at Zone B4-2;
- Mainlaying works at Zone A1-5A1 and A3-5B;
- Heading No. H4, H5, H7 and H13;
- Heading No. H3 was substantially completed.
- GI duct laying works at ZoneA4-3A and Zone A4-3B;
- Trench excavation, pipe laying works and chamber construction for a 1000 dia. watermains (CHF) at Salisbury Garden

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

- 300mm thick topping slab together with the make up slab below at northern portion commenced on 30 Nov 2011;
- Concreting at Roof Plinth, lift shaft up to +14.15mPD and Fire Service Pump room up to +14.15mPD of Passenger Terminal Building were completed;
- E&M and ABWF of Passenger Terminal Building;
- ELS of Noise Barrier 2 commenced on 29 Nov 2011 and nearly completed.
- Casting of pedestrian pavement above seawall coping Bay 4 to Bay 8 was completed on 13 December 2011;
- Casting of the bus shelter footing at Expo Drive East was completed;
- Precast slab installation at the existing movable ramp was in progress;
- Saw cutting of existing slabs for the construction NB1 footing was completed;
- E&M of P7, P8 & P9
- Approximate 50m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden;
- Jacking pit at ex-pet garden for the heading construction of cooling mains across Convention Avenue commenced;
- Approximate 50m cable duct was laid at Harbour Road and Tonnochy Road.
- Construction of wash out chamber at Harbour Road and access manhole at Harbour Centre were completed;
- Trench excavation and cooling mains installation along Tonnochy Road;
- Installation of PVC and G.I cable ducts was ongoing at Harbour Road;
- Installation of submarine outfall pipe was completed;

- Dredging for submarine outfall pipe was ongoing;
- Concreting the Base Slab of Wan Shing Street at Bay 24 was completed;
- Concreting the wall shaft and roof slab completed of Wan Shing Street at Bay 21 and Bay 24 were completed;
- Bay 21 to Bay 24 of Wan Shing Street were handover to HEC;
- Slab at +3.10mPD and +3.77 mPD and wall below were completed for the WSD Salt Water Pumping Station;
- Excavation and lateral support for DSD receiving pits were completed;
- D610 pipe pile wall construction at landside cofferdam of salt water intake culvert;
- 12 out of 12 nos of pre-bored H-pile for box culverts N1 was casted as of 21 November 2011;
- Temporary working platform was completed and pile cap construction was in progress at Portion 1B for the New Ferry Pier

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

- Seawall block construction and reclamation work at TS4;
- Night time protection works at CHT; and
- Precautionary works at Abutment A

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

- Installation of bored pile casing;
- Excavation of bored piles; and
- Concreting of bored piles

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

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

- The portion of NPR3 are scheduled to be completed and handover in January 2012. No construction work related to DP3 is anticipated to be conduced in coming month.

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

- Reclamation of HKCEC3W at the northern side within the HKCEC Water Channel would be continued;
- Dredging from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be resumed right after the consent from EPD for type 3 sediment has been received;
- Rockfilling from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be commenced;
- Installation of sheet pile water channel at Dome Promenade (from CH120 to CH170)

would be commenced;

- Installation of sheet pile water channel at Dome Promenade (from CH170 to CH260) would be commenced;
- Mainlaying works for 4 nos. of cooling water discharge pipes at WC landfall section (B1-3) would be completed. And subsequent reinstatement works was anticipated to be completed be completed;
- Dredging of type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui would be continued right after the consent from EPD has been received;
- Ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/b18 would be continued and anticipated to be completed;
- Installation of pipe pile wall at sea portion would be continued and anticipated to be completed;
- Thrust block construction, concrete coating for flange joint and Rockfilling protection works would be continued;
- Works would be continued at Zone A1-5A1, A2-3B, A3-3, A3-2A, A3-5B, A3-5B, A4-3A, A4-3B, HKCEC way in/out, A5-5, B4-2, B4-5, B1-6 and B2-2;
- GI duct laying works at Zone A4-3A and A4-3 B would be completed;
- Heading Nos. H4, H5, H7 and H13 would be continued;
- Heading Nos. H4 and H13 would be completed;
- Heading No. H8 would be commenced after its corresponding jacking pit at Zone A1-5A1 has been excavated;
- After the completion of mainlaying works at Zone B4-2 and B4-5, mainlaying works at Zone B4-4 would be commenced;
- After the completion of mainlaying works at HKCEC way in/out, mainlaying works at Zone B4-2A would be commenced;
- After the completion of mainlaying works at A5-5, mainlaying works at Zone B5-2 would be commenced.

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

- Preparation works for temporary diversion intakes of WSD salt water pumping station and Sun Hung Kai pumping station.
- Continue operation of Tseung Kwan O Public Fill Sorting Facility;
- Continue E&M works and ABWF works of passenger terminal;
- Complete 300mm thick slab construction at Northern Portion of Expo Drive East;
- Complete excavation works for noise barrier 2 at Expo Drive East;
- Continue slab modification for NB 1 footing at Expo Drive East;
- Continue construction for bus shelter at Expo Drive East;

- Continue trench excavation and pipe laying works along Harbour Road;
- Continue trench excavation and deck over at Tonnochy Road;
- Continue construction from +3.10mPD to + 5.17mPD for WSD Salt Water Pumping Station;
- Complete pipeline jacking WSD intake A;
- Continue construction of seaside cofferdams for salt water intake culvert, submarine outfall and Box Culvert N1;
- Commence excavation works of landside cofferdam for the construction of Bay 6 – 10 salt water intake culvert;
- Continue backfilling rockfills for the installed submarine outfall pipes;
- Continue installation of the temporary water diversion steel frame;
- Commence the temporary internal propping works for Box Culvert O construction;
- Continue substructure works for the New Ferry Pier

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

- ELS works at TS1;
- Pumping test and ELS preparation works at TPCWAE ;
- Night time protection works at CHT; and
- Precautionary works at Abutment A

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

- Installation of bored pile casing;
- Excavation of bored piles; and
- Bored Pile Concreting

3. Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/A	4 Aug 2010	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Valid
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Valid
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid

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***.

3.1.4. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

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	331892	4 Jul. 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0922-11	12 Oct 2011	1 Nov 2011 to 30 Apr 2012	Valid
Registration as a Chemical Waste Producer	WPN5213-151-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

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

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

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

3.1.5. 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-RS0680-11	22 Jul 2011	29 Jul 2011 to 19 Jan 2012	Valid
	GW-RS0689-11	28 Jul 2011	29 Jul 2011 to 28 Jan 2012	Cancelled
	GW-RS0832-11	7 Sep 2011	03 Sep 2011 to 02 Mar 2012	Valid
	GW-RS0850-11	12 Sept 2011	14 Sept 2011 to 13 Mar 2012	Valid
	GW-RS0851-11	12 Sept 2011	16 Sept 2011 to 15 Mar 2012	Valid
	GW-RE0683-11	26 Sept 2011	20 Sept 2011 to 19 Mar 2012	Cancelled
	GW-RE0716-11	28 Sept 2011	07 Oct 2011 to 29 Mar 2012	Valid
	GW-RS1094-11	23 Nov 2011	27 Nov 2011 to 26 May 2012	Valid
	GW-RS1031-11	3 Nov 2011	7 Nov 2011 to 6 May 2012	Valid
	GW-RS1227-11	30 Dec 2011	30 Dec 2011 to 26 Jun 2012	To be valid on 30 Dec 2011
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-091	23 Nov 2011	24 Nov 2011 to 23 May 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/12-085	4 Nov 2011	8 Nov 2011 to 7 Dec 2011	Expired
	EP/MD/12-099	7/12/2011	8 Dec 2011 to 7 Jan 2012	Valid
	EP/MD/12-097	1 Dec 2011	1 Dec 2011 to 30 Dec 2011	Valid till 30 Dec 2011
Permit for Dumping at Sea - Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	EP/MD/12-094	19/12/2011	20 Dec 2011 – 19 Jan 2011	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 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010

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

3.1.6. 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-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0496-11	31 May 2011	07 Jun 2011 to 06 Dec 2011	Expired
	GW-RS0502-11	8 Jun 2011	13 Jun 2011 to 12 Dec 2011	Expired
	GW-RS0579-11	22 June 2011	17 July 2011 to 16 Jan 2012	Valid
	GW-RS0649-11	22 July 2011	1 Aug 2011 to 31 Jan 2012	Valid
	GW-RS0716-11	2 Aug 2011	12 Aug 2011 to 11 Feb 2012	Valid
	GW-RS0723-11	12 Aug 2011	15 Aug 2011 to 14 Feb 2012	Valid
	GW-RS0833-11	8 Sept 2011	10 Sept 2011 to 4 Mar 2012	Valid
	GW-RE0710-11	30 Sept 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0918-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0929-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Cancelled
	GW-RS0930-11	11 Oct 2011	1 Nov 2011 to 30 Apr 2012	Valid
	GW-RS0931-11	7 Oct 2011	10 Oct 2011 to 9 Apr 2012	Valid
	GW-RS0941-11	20 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0955-11	14 Oct 2011	23 Nov 2011 to 22 May 2012	Valid
	GW-RS0968-11	20 Oct 2011	18 Nov 2011 to 17 May 2012	Valid
	GW-RS0983-11	24 Oct 2011	26 Oct 2011 to 23 April 2012	Valid
	GW-RS0984-11	25 Oct 2011	30 Oct 2011 to 27 April 2012	Valid
	GW-RS1028-11	3 Nov 2011	7 Dec 2011 to 6 June 2012	Valid
	GW-RS1052-11	18 Nov 2011	21 Nov 2011 to 18 May 2012	Valid
	GW-RS1111-11	25 Nov 2011	29 Nov 2011 to 28 May 2012	Valid
	GW-RS1116-11	28 Nov 2011	13 Dec 2011 to 12 Jun 2012	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 May 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 Apr 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-012	6 May 2011	29 May 2011 to 28 Nov 2011	Expired
	EP/MD/12-082	31 Oct 2011	29 Nov 2011 to 28 May 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-086	31 Oct 2011	10 Nov 2011 to 9 Dec 2012	Expired
	EP/MD/12-100	5 Dec 2011	10 Dec 2011 to 9 Jan 2012	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. I	17 Nov 2011
Condition 2.9	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
Condition 2.12 (d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	19 Apr 2011
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Combined Version)	5 Aug 2011

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

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

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0820-11	5 Sep 2011	8 Sep 2011 to 7 Mar 2012	Valid
	GW-RS0847-11	14 Sep 2011	19 Sep 2011 to 16 Mar 2012	Cancelled
	GW-RS0858-11	16 Sep 2011	18 Sep 2011 to 16 Mar 2012	Cancelled
	GW-RS0883-11	4 Oct 2011	5 Oct 2011 to 4 Apr 2012	Valid
	GW-RS0997-11	2 Nov 2011	2 Nov 2011 to 2 May 2012	Valid
	GW-RS1021-11	4 Nov 2011	10 Nov 2011 to 9 May 2012	Valid
	GW-RS1138-11	7 Dec 2011	8 Dec 2011 to 21 May 2012	Valid
	GW-RS1153-11	9 Dec 2011	12 Dec 2011 to 16 Mar 2012	Valid
	GW-RS1211-11	22 Dec 2011	24 Dec 2011 to 21 Jun 2012	Valid
	GW-RS1149-11	6 Dec 2011	8 Dec 2011 to 7 Jun 2012	Valid
	GW-RS1190-11	30 Dec 2011	22 Dec 2011 to 21 Jun 2012	Valid
	GW-RS1212-11	28 Dec 2011	28 Dec 2011 to 19 Jun 2012	To be valid on 28 Dec 11
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	15 Nov 2010	N/A	Valid
Water Discharge Licence	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
	WT00010482-2011	30 Sep 2011	30 Sep 2011 to 30 Sep 2013	Valid
	WT00011322-2011	15 Dec 2011	15 Dec 2011 to 31 Dec 2013	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	12 Oct 2011	31 Oct 2011 to 31 Jan 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-037	20 Jul 2011	20 Jul 2011 to 19 Jan 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-084	31 Oct 2011	1 Nov 2011 to 30 Nov 2011	Expired
	EP/MD/12-096	29 Nov 2011	1 Dec 2011 to 31 Dec 2011	Valid till 31 Dec 2011
Dumping Permit (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	EP/MD/12-089	8 Nov 2011	10 Nov 2011 to 9 Dec 2011	Expired

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

EP Condition	Submission	Date of Submission
Condition 2.7	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan Rev 2	11 May 2011
Condition 2.9	Silt Screen Deployment Plan Rev3	15 Jun 2011
Condition 2.18	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0605-11	29 Jun 2011	13 Jul 2011 to 12 Jan 2012	Valid
	GW-RS0879-11	22 Sept 2011	6 Oct 2011 to 5 Apr 2012	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G2533-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 November 2011	31 July 2016	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-030	11 Aug 11	12 Aug 2011 to 11 Feb 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-088	8 Nov 2011	12 Nov 2011 to 11 Dec 2011	Expired
	EP/MD/12-102	8 Dec 2011	12 Dec 2011 to 11 Jan 2012	Valid

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

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

4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Station

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

REAL-TIME NOISE MONITORING STATIONS

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

Table 4.2 Real Time Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq\ (30\ minutes)}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq\ (5\ minutes)}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.

4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

- one set of measurements between 0700 and 1900 hours on normal weekdays.

4.1.5. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during

respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

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

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

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 4.3 Air Monitoring Station

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	WDII PRE Site Office *	Wan Chai

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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.

4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and

any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:

- 0.6 - 1.7 m3 per minute adjustable flow range;
- equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- capable of providing a minimum exposed area of 406 cm2;
- flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- equipped with a shelter to protect the filter and sampler;
- incorporated with an electronic mass flow rate controller or other equivalent devices;
- equipped with a flow recorder for continuous monitoring;
- provided with a peaked roof inlet;
- incorporated with a manometer;
- able to hold and seal the filter paper to the sampler housing at horizontal position;
- easily changeable filter; and
- capable of operating continuously for a 24-hour period.

4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.

4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.

4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.

4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.

4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:

- be at least 16 years of age;
- be free from any respiratory illnesses; and
- not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
- before and during odour patrol

4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in ***Figure 4.1*** to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).

4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.

4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

- 0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 - Slight Identifiable odour, and slight chance to have odour nuisance;
- 2 - Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 - Strong Identifiable, likely to have odour nuisance;
- 4 - Extreme Severe odour, and unacceptable odour level.

4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in ***Appendix 6.1***.

4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb. The certificate for the qualified odour panel member is shown in ***Appendix 4.2***.

4.3 Water Quality Monitoring

4.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.

4.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April – September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

4.3.3. It is proposed to monitor the water quality at 9 WSD salt water intakes and 12 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in ***Table 4.4*** and ***Figure 4.1***. ***Appendix 4.1*** shows the established Action/Limit Levels for the monitoring works.

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3
WSD9	Tai Wan	837921.0	818330.0
WSD10	Cha Kwo Ling	841900.9	817700.1
WSD15	Sai Wan Ho	841110.4	816450.1
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
WSD21	Wan Chai	836220.8	815940.1
RW21	Wan Chai (Reprovision)	836188.8	815911.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2
C4w	Wan Chai Tower and Great Eagle Centre (Western)	835629.8	815889.2
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2

Station Ref.	Location	Easting	Northing
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0
C8	City Garden	837970.6	816957.3
C9	Provident Garden	838355.0	817116.6
RC1	Proposed HKAPA Extension	835487.7	815987.7
RC5	Sun Hung Kai Centre (Reprovision)	836291.4	816029.7
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6

WATER QUALITY PARAMETERS

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

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

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

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

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

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

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

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

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

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

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

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

SALINITY

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

MONITORING POSITION EQUIPMENT

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

CALIBRATION OF IN-SITU INSTRUMENTS

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

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

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

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

LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

4.3.23. The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.

4.3.25. The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data sahll be downloaded daily and compared with the Action and Limit level determined during the baseline water qualtiy monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

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

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

Table 4.7 Marine Water Quality Stations for Additional DO Monitoring

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

4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).

5. Monitoring Results

5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in ***Figure 2.1*** and ***Figure 4.1***. The monitoring results are presented in according to the Individual Contract(s).

5.0.2. In the reporting month, the concurrent contracts are as follows:

- Contract no. HY/2009/11 Central - Wan Chai Bypass - North Point Reclamation;
- Contract no. HK/2009/01 – Wan Chai Development Phase II – Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
- Contract no. HK/2009/02 Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai East
- Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)
- Contract no. HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line

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

5.1 Noise Monitoring Results

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

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

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

Station	Description
M4b	Victoria Centre
M5b	City Garden

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

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

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

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

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

Station	Description
M1a	Harbour Road Sports Centre

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

5.1.6. Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 29 November and 6 December 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

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

5.1.7. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in ***Table 5.3*** below.

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

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

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

5.2 Real-time Noise Monitoring

5.2.1. No construction activity was conducted during night time period (2300 to 0700) in this reporting month.

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

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

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

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

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

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

5.3 Air Monitoring Results

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

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

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

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

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

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

5.3.3. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in ***Table 5.6*** below. No exceedance was recorded in the reporting month.

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

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

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

5.3.4. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in ***Table 5.7*** below. No exceedance was recorded in the reporting month.

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.5. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in ***Table 5.8*** below. No exceedance was recorded in the reporting month.

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

Station	Description
CMA3a	CWB PRE Site Office

5.4 Water Monitoring Results

5.4.1 Due to unavailability of the access of WSD7, no water quality monitoring was conducted on 28 November 2011 at mid-ebb and on 17 December 2011 at mid-ebb.

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

Station Ref.	Location	Easting	Northing
C3	HKCEC Phase I	835836.2	815910.0
C4e	Wan Chai Tower and Great Eagle Centre (Eastern)	835932.8	815888.2
C4w	Wan Chai Tower and Great Eagle Centre (Western)	835629.8	815889.2

Remarks:

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

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

5.4.3. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in ***Table 5.11*** below.

Table 5.11 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD21	Wan Chai	836220.8	815940.1
Cooling Water Intake			
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2

Remarks:

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

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

5.4.4. Water monitoring for Contract no. HK/2010/06 was commenced on 8 March 2011. The proposed division of water monitoring stations are summarized in ***Table 5.12*** below.

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

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

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

5.4.5. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in ***Table 5.13*** below.

Table 5.13 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
C6	Excelsior Hotel	837009.6	815999.3
C7	Windsor House	837193.7	816150.0

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

5.4.6. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011. No project-related exceedance was recorded in the daily SS monitoring and 24 hours turbidity monitoring.

5.4.7. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.

5.4.8. The dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter was resumed on 26 October 2011, daily monitoring of suspended solids and 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and daily SS was kept in November and December 2011. As there was no adverse impact on the SS results obtained during the period of seawall collapse, the daily SS monitoring at C7 was then suspended on 23 December 2011. The 24hr turbidity monitoring will be kept to monitor until the completion of reinstating the seawall at TS4.

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

Table 5.14 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	1	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	2	0	0	0	0	0	0	0	0	0
	C9	0	0	1	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	1	0	0	0	0	0	0	0	0

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	WSD20	0	0	1	2	0	3	0	0	0	0	0	0
	WSD7	0	0	1	1	0	2	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	1
	C4w	0	0	0	0	0	0	0	0	0	0	0	1
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	1	0	1	0
	C5w	0	0	0	0	0	1	0	0	0	0	0	0
	WSD21	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		**0**	**0**	**5**	**4**	**1**	**7**	**0**	**0**	**1**	**0**	**1**	**2**

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

5.4.10. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table 5.15***.

Table 5.15 Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month

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

5.4.11. Investigations were found that the exceedances are not related to the Project works. The details of the recorded excedances can be referred to the Section 6.3.

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

could be continuously monitored. Details of additional DO monitoring results can be referred in ***Appendix 5.4a***.

5.5 Waste Monitoring Results

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

5.5.1. Non-inert C&D waste was disposed of in the reporting month. Details of the waste flow table are summarized in ***Table 5.16***.

Table 5.16 Details of Waste Disposal for Contract no. HY/2009/11

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	NIL	N/A
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	73.13	692.255	SENT Landfill
Non-inert C&D materials recycled, m^3	NIL	NIL	N/A
Chemical waste disposed, kg	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	89,500 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	129,200 (Bulk Volume)	East of Sha Chau

5.5.2. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

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 5.17.***

Table 5.17 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	536.01	12,402.61	TKO137, TM38
Inert C&D materials recycled, m^3	0	389.96	N/A
Non-inert C&D materials disposed, m^3	29.72	534.28	SENT Landfill
Non-inert C&D	8,570	135,491	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
materials recycled, kg			
Chemical waste disposed, kg	220	5,350	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	83,482.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	2,786 (Bulk Volume)	20,516 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (Bulk Volume)	257 (Bulk Volume)	East of Cha Chau

5.5.4. There were marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in the reporting month. The maximum dredging rate in cross harbour water main and HKCEC3w are 539m^3 and 502 m^3 per day respectively, which is complied with the recommended maximum dredging rate listed in Table 2 of FEP-02/356/2009.

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

5.5.5. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.18.***

Table 5.18 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	5,239	58,975	TKO137 / TM 38
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	35	294	SENT Landfill
Non-inert C&D materials recycled, m^3	NIL	NIL	N/A
Chemical waste disposed, kg	0	2,115	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	332 (Bulk volume)	154,827 (Bulk volume)	South of Cheung Chau

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	110,632 (Bulk volume)	East of Sha Chau

*Remarks: Contractor clarified that the cumulative quantities of marine sediments (Type 1 – Open Sea Disposal) should be 152,871m^3 in October 2011.

5.5.6. There was marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in submarine sewage pipelines is 332m^3 per day respectively, which is complied with the recommended maximum dredging rate, 1500m^3 per day listed in Table 2 of FEP-02/356/2009.

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

5.5.7. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.19.***

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	3,220.7	61,769.4	Tuen Mun Area 38
	310.4	876.7	TKO137 FB
Inert C&D materials recycled, m^3	NIL	184.0	To Contract HY/2009/11
	NIL	304	ex-PCWA
	0	109	TS4
Non-inert C&D materials disposed, m^3	10.8	154.4	SENT Landfill
Non-inert C&D materials recycled, kg	150	13,965	N/A
Chemical waste disposed, kg	2,200	8,000	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	33,427 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	158,812 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	0 (Bulk Volume)	7,050 (Bulk Volume)	East of Sha Chau

5.5.8. In the reporting month, there was no marine sediment disposed of in reporting month.

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

over MTR Tsuen Wan Line

5.5.9. Inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.20.***

Table 5.20 Details of Waste Disposal for Contract no. HK/2010/06

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	1745.4	4914.9	TM38
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	57.5	57.5	N/A
Chemical waste disposed, L	0	600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	385 (Bulk Volume)	3,042 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	536 (Bulk Volume)	12,045 (Bulk Volume)	East Sha Chau

5.5.10. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal dredging from bore-piling casing in the reporting month.

6. Compliance Audit

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

6.1 Noise Monitoring

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

6.1.1. No exceedance was recorded in the reporting month.

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

6.1.2. No exceedance was recorded in the reporting month.

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

6.1.3. Two limit level exceedances were recorded at M1a - Harbour Road Sports Centre on 29 November and 6 December 2011 during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The construction works were complied with the conditions under valid Construction Noise Permits during the measurement.

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

6.1.4. No exceedance was recorded in the reporting month.

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

6.1.5. No exceedance was recorded in the reporting month.

6.2 Real-time noise Monitoring

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

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

6.3 Air Monitoring

6.3.1. No exceedance was recorded in the TSP monitoring in the reporting month.

6.4 Water Quality Monitoring

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

6.4.1. There were occasionally turbidity and SS exceedances at mid-flood were recorded at WSD15, C8 and C9 in this reporting month. Investigation revealed that there are 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. Investigation revealed that the SS exceedance at WSD15 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level.

6.4.2. Contractor's marine activities were checked and proper condition of silt curtain was provided between the barge and the seawall during the filling material transportation. The recorded turbidity and SS exceedances were considered as not project-related.

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

6.4.3. Exceedances of turbidity and SS level were recorded at WSD7, WSD19 and WSD20. Checked with Contractor's works, the deployed silt screen and silt curtain were in proper condition for the works of sheet pile wall at Tsim Sha Tsui and dredging at Cross Harbour Water Main. In view that the silt screen and silt curtain were in proper condition, these exceedances were considered no related to Project work.

6.4.4. One SS exceedance at C3 was recorded on 17 December 2011. Investigation revealed that the frame type silt screen at the intake and silt curtain along the HKCEC water channel and rock bund were deployed properly. Other than that, Contractor's daily records were checked and no further exceedance was recorded in the next consecutive monitoring. Thus, it was concluded not Project related exceedances.

6.4.5. One SS exceedance at C4 e on 28 November 2011 and one SS exceedance at C4w on 26 December 2011 were recorded in this reporting month. Checking with Contractor works, there was no marine works in HKCEC water channel at that night. Other than that, Contractor's inspection records were checked. It shows silt screens and curtains were deployed in proper condition. It was concluded that these exceedances were not related to the Project works.

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

6.4.6. There were one turbidity and one SS level exceedance recorded at C5e on 28 November and one SS level exceedances recorded at C5w on 9 December 2011. Contractor marine work activities and mitigation measures were checked, deployed silt screen at intake and silt curtain at western temporary sheet pile were observed in proper condition during the water quality monitoring. During the water monitoring events on these two days, fine floating particles was observed near the intakes and inside the silt screen. Contractor was reminded to increase the frequency of removal of floating debris and fine particles near the intakes whenever it is necessary. It was concluded that these exceedances were not related to the Project works.

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

6.4.7. One DO level exceedances was recorded at ex-WPCWA SE was recorded on 23 December 2011. Checked Contractor's works, there was no marine work conducted in ex-WPCA. These exceedances were considered as the natural variation and not related to the Project works.

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

6.4.8. No exceedance was recorded in the reporting month.

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.

6.6 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 (November 2011) of Central Reclamation Phase III the key works in December 2011 are as follows:

- Type A filling in FRAW and FRAE above +2.5mPD
- General filling works above +2.5mPD in IRAE
- Surcharging in FRAW and FRAE
- Construction of GPO boundary wall
- Construction of PLA boundary wall
- Construction of Promenade enhancement works
- Construction of buildings at PLA berth
- Installation of cooling mains discharge pipes in FRAE and FRAW
- Backfilling of CWB structure
- Importation of fill material

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities at Reclamation Shoreline Sub-zones under Wan Chai Development Phase II were the reclamation works at NPR2E, dredging and filling at HKCEC3w, dredging at submarine sewage pipelines, reinstatement of seawall block construction at TCBR1W and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at North Point, Causeway Bay and Wan Chai.

7.0.4. The major environmental impacts generated from the filling work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.

8. Environmental Site Audit

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

8.0.2. Four site inspections for Contract no. HY/2009/11 were carried out on 28 November, 6, 13 and 20 December 2011. The results of these inspections and outcomes are summarized in ***Table 8.1***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111128_01	28-Nov-11	Water ponding behind site office.	Removal of water ponding	Completion as observed on 6 Dec 2011
111206_01	6-Dec-11	Floating debris and refuse in U-channel.	Removal of floating debris	Completion as observed on 13 Dec 2011
111206_02	6-Dec-11	Construction runoff and drainage behind the site office.	Avoid any runoff flow outside the site boundary	Completion as observed on 13 Dec 2011
111213_01	13-Dec-11	Water spraying shall be conducted for earth works.	Regular spraying water on the dry dust surface	Completion as observed on 20 Dec 2011
111213_02	13-Dec-11	Filling materials near seafront shall be collected.	Removal of the filling material near the seafront	Completion as observed on 20 Dec 2011
111220_01	20-Dec-11	Floating debris and refuse near the sea in the eastern seawall (C27).	Regular removal of the floating debris	Completion as observed on 28 Dec 2011

8.0.3. Four site inspections for Contract no. HK/2009/01 were carried out on 30 November, 7, 14 and 21 December 2011. 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
111130_01	30-Nov-11	Oil stain on the bare ground at HKCCEC3w shall be proper cleared up and disposed as chemical waste.	Proper cleared up and disposed the oil strain as chemical waste	Completion as observed on 7-Dec-11
111130_02	30-Nov-11	Sand bags along the site access at north-bound up of HKCEC shall be enhanced to avoid spillage of wastewater out of site boundary.	Replace the new sandbags	Completion as observed on 7-Dec-11
111207_01	7-Dec-11	Excavator located Convention Avenue shall be repaired to avoid oil leakage. Beside, the drip try next to the excavator shall be repaired.	Repair the plant and drip tray	Completion as observed on 14-Dec-11
111207_02	7-Dec-11	The tress at TST shall be regularly watered.	Regular watering the trees	Completion as observed on 14-Dec-11
111214_01	14-Dec-11	Oil leakage from crawler crane was found at HKCEC1. Maintenance work for this plant shall be provided. The contaminated soil on the base	Repair the plant and collect the contaminated soil and disposed with proper procedure	Completion as observed on 23-Dec-11

Item	Date	Observations	Action taken by Contractor	Outcome
		ground shall be removed and disposed with proper procedure.		
111221_01	21-Dec-11	Contaminated soil at HKCEC1 shall be removed and handled as chemical waste.	Collect the contaminated soil and disposed with proper procedure	Completion as observed on 30-Dec-11
111221_02	21-Dec-11	The edge of soil screen at HKCEC1 shall be maintained and improved.	Maintained and improved the edge of soil screen	Completion as observed on 30-Dec-11
111221_03	21-Dec-11	The deployed silt curtain adjacent to VIP drop off area shall be improved.	Improve the silt curtain deployment	Completion as observed on 30-Dec-11
111221_04	21-Dec-11	The soil found at the edge of TST shall be trimmed-off.	Trimmed-off the soil at the edge	Completion as observed on 30-Dec-11

8.0.4. Four site inspections for Contract no. HK/2009/02 were carried out on 1, 8, 15, 19 December 2011 during this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.3***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111201_01	1-Dec-11	Oil leakage from an excavator was found at Wan Shing Street. Contractor shall provide the maintenance work to the plant and remove contaminated soil as chemical waste.	Provide the maintenance work to the plant and remove contaminated soil as chemical waste.	Completion as observed on 8-Dec-11
111201_02	1-Dec-11	Worn sand located at seafront near Sun Hung Kei intakes shall be replaced.	Replace the new sandbags	Completion as observed on 8-Dec-11
111201_03	1-Dec-11	Drip tray shall be placed underneath the oil containers at ex-pet Garden.	Provide drip tray for chemical storage	Completion as observed on 8-Dec-11
111201_04	1-Dec-11	Contractor was reminded that no wastewater shall be leaking from the truck during transportation.	Ensure the soil is dry enough before transport	Completion as observed on 8-Dec-11
111208_01	8-Dec-11	Oil leakage was found from the crawler crane at ex-Pet Garden. Plants maintenance shall be provided be contaminated soil shall be handle as chemical waste with proper procedure.	Repair the plant and collect the contaminated soil and disposed with proper procedure	Completion as observed on 15-Dec-11
111208_02	8-Dec-11	Ponding water shall be avoided to accumulate at the site near western seawall.	Review and maintain a proper site drain	Completion as observed on 15-Dec-11
111208_03	8-Dec-11	Floating fine particle near western seawall shall be removed.	Remove the fine particle	Completion as observed on 15-Dec-11
111215_01	15-Dec-11	Permanent protective measures shall be provided for the oil leakage plants if the leakages could not be prevented. (Ex Pet Garden)	Provide permanent protective measures to the oil leakage plants	Completion as observed on 19-Dec-11
111215_02	15-Dec-11	C and D materials inside drip tray shall be collected (Ex-Pet Garden).	Collect the C&D materials.	Completion as observed on 19-Dec-11
111219_01	19-Dec-11	Maintenance work shall be provided to the derrick barge (城堡 3) to avoid dark smoke emission.	Provide maintenance work to the derrick barge	Completion as observed on 29-Dec-11

Item	Date	Observations	Action taken by Contractor	Outcome
111219_02	19-Dec-11	Oil drum located at Wan Shing Street shall be placed underneath the drip tray.	Provide drip tray for chemical storage	Completion as observed on 29-Dec-11

8.0.5. Four site inspections for Contract no. HY/2009/15 were carried out on 29 November, 6, 13 and 20 December 2011 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.4***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
111129_01	29-Nov-11	Silty water was observed slightly leaking outside the silt curtain for the protection of seawall collapsed. Investigation found that the seabed was distributed by compressed air for the rectification works. The contractor should review the silt curtain and deploy suitable silt curtain for the operation.	Review the silt curtain and deploy suitable silt curtain for the operation	Completion as observed on 6-Dec-11
111129_02	29-Nov-11	Milky water was discharged at the discharge point after treatment. The contractor was reminded to review the efficiency of the system (TS1).	Review the efficiency of the waste water treatment system	Completion as observed on 6-Dec-11
111206_01	6-Dec-11	Drip tray shall be provided for chemical storage (Ex-TPCWA).	Provide drip tray for chemical storage	Completion as observed on 13-Dec-11
111206_02	6-Dec-11	Packed cement bags shall be covered by tarpaulin (Ex-TCPWA).	covered packed cement bags by tarpaulin	Completion as observed on 13-Dec-11
111213_01	13-Dec-11	Oil leakage from an oil drum was observed at TS1. The contractor was reminded to provide drip tray and proper label. Moreover, the oil need to be treated with proper treatment.	Provide drip tray and proper label. Moreover, the oil needed to be treated with proper treatment.	Completion as observed on 20-Dec-11
111220_01	20-Dec-11	Drip tray shall be provided for chemical storage (TS1, ExTCPWA).	provided for chemical storage	Completion as observed on 29-Dec-11
111220_02	20-Dec-11	Floating refuse shall be collected (TS1, TS4).	Collect floating refuses	Completion as observed on 29-Dec-11
111220_03	20-Dec-11	Waste water from site cleaning shall be collected and treated properly prior discharge (Entrance of CWB PRE site office).	Treat and collect the surface runoff outside site boundary.	Completion as observed on 29-Dec-11
111220_04	20-Dec-11	Sloping seawall shall be properly protected by geotextile (TS4).	Protect the slopping seawall properly	In progress

8.0.6. Four site inspections for Contract no. HK/2010/06 were carried out on 28 November 2011, 5, 12 and 19 December in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.5***.

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2010/06

Item	Date	Observations	Action taken by Contractor	Outcome
111205_01	5-Dec-11	Grease was observed inside the pile at the side of western bored-pile staging. The contractor was reminded to clear it with proper treatment.	Removal of the grease inside the pile	Completion as observed on 12-Dec-11
111212_01	12-Dec-11	Silt was observed on the silt curtain under the marine working platform. The contractor was reminded to check the platform regularly to prevent any objects and silt from dropping into the sea.	Checked and avoid any objects and silt dropping into the sea.	Completion as observed on 19-Dec-11
111212_02	12-Dec-11	The end of the drainage for collecting surface runoff should be sealed to prevent the surface runoff from discharging into the sea directly.	Sealed the end of the drainage along the platform.	Completion as observed on 19-Dec-11
111212_03	12-Dec-11	Proper label should be provided to the containers inside the chemical waste storage area.	Adhered proper label on chemical waste.	Completion as observed on 19-Dec-11
111219_01	19-Dec-11	Contractor was reminded to regularly dispose the accumulated C&D waste which locates at derrick barge.	Regular disposal of the C&D waste	Completion as observed on 30-Dec-11

9. Complaints, Notification of Summons and Prosecution

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

9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1***.

9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in ***Table 9.1*** and ***Table 9.2*** respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	25
December 2011	0
Project-to-Date	**25**

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**

9.0.4. Follow-up the seawall blocks collapsing incident occurred at Tunnel Section 4, TS4 (within TCBR1W) under Contractor of HY/2009/15 in last reporting month, reinstatement of Seawall Blocks Bay 5 and 6 were completed in reporting month. Remaining half of Bay 4 seawall blocks will be completed in mid-Jan 2012. According to the RSS reporting, inspection of silt curtains were carried out once every week by an Independent Divers. The silt curtain was maintained in proper condition. A temporary rock bund connected to Bay 7 will be also constructed in mid-Jan 2012. The 24-hour turbidity monitoring data and daily SS monitoring at C7 on the incident date onwards were reviewed and no immediate impact on water quality was observed from the data trend. The details of the data trend are enclosed in ***Appendix 5.4***. Any updated action will be follow-up and reported in the coming reporting month.

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

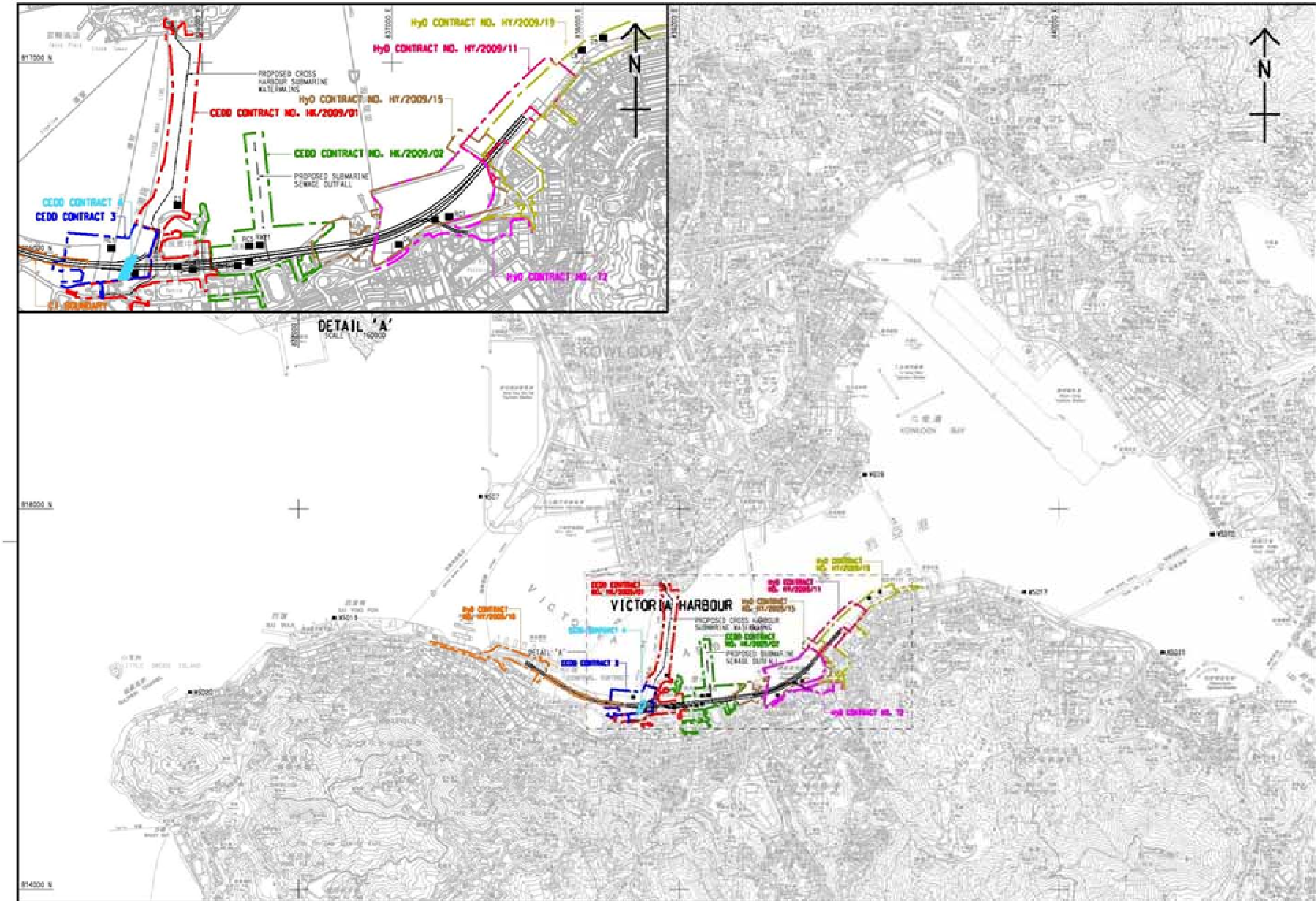
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/11	• The portion of NPR3 are scheduled to be completed and handover in January 2012. No construction work related to DP3 is anticipated to be conduced in coming month.	• Submission the surrender of its Further Environmental Permit
HK/2009/01	• Reclamation of HKCEC3W at the northern side within the HKCEC Water Channel would be continued; • Dredging from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be resumed right after the consent from EPD for type 3 sediment has been received; • Rockfilling from CH160 to CH260 for subsequent reclamation within HKCEC Water Channel would be commenced; • Installation of sheet pile water channel at Dome Promenade (from CH120 to CH170) would be commenced; • Installation of sheet pile water channel at Dome Promenade (from CH170 to CH260) would be commenced; • Mainlaying works for 4 nos. of cooling water discharge pipes at WC landfall section (B1-3) would be completed. And subsequent reinstatement works was anticipated to be completed be completed; • Dredging of type 3 sediment from CH50 to CH250 for subsequent cross-harbour watermains installation off Tsim Sha Tsui would be continued right after the consent from EPD has been received; • Ground treatment works for the trenches excavation of the proposed cross-harbour watermains nos. A18/b18 would be continued and anticipated to be completed; • Installation of pipe pile wall at sea portion would be continued and anticipated to be completed; • Thrust block construction, concrete coating for flange joint and	• 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
	Rockfilling protection works would be continued; • Works would be continued at Zone A1-5A1, A2-3B, A3-3, A3-2A, A3-5B, A3-5B, A4-3A, A4-3B, HKCEC way in/out, A5-5, B4-2, B4-5, B1-6 and B2-2; • GI duct laying works at Zone A4-3A and A4-3 B would be completed; • Heading Nos. H4, H5, H7 and H13 would be continued; • Heading Nos. H4 and H13 would be completed; • Heading No. H8 would be commenced after its corresponding jacking pit at Zone A1-5A1 has been excavated; • After the completion of mainlaying works at Zone B4-2 and B4-5, mainlaying works at Zone B4-4 would be commenced; • After the completion of mainlaying works at HKCEC way in/out, mainlaying works at Zone B4-2A would be commenced; • After the completion of mainlaying works at A5-5, mainlaying works at Zone B5-2 would be commenced.	
HK/2009/02	• Preparation works for temporary diversion intakes of WSD salt water pumping station and Sun Hung Kai pumping station. • Continue operation of Tseung Kwan O Public Fill Sorting Facility; • Continue E&M works and ABWF works of passenger terminal; • Complete 300mm thick slab construction at Northern Portion of Expo Drive East; • Complete excavation works for noise barrier 2 at Expo Drive East; • Continue slab modification for NB 1 footing at Expo Drive East; • Continue construction for bus shelter at Expo Drive East; • Continue trench excavation and pipe laying works along Harbour Road; • Continue trench excavation and deck over at Tonnochy Road; • Continue construction from +3.10mPD to + 5.17mPD for WSD Salt Water Pumping Station; • Complete pipeline jacking WSD intake A; • Continue construction of seaside cofferdams for salt water intake culvert, submarine outfall and Box Culvert N1; • Commence excavation works of landside cofferdam for the construction of Bay 6 – 10 salt water	• To cover the dusty material or stockpile by impervious sheet; • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission • To conform the installation and setting as in the silt screen and silt curtain deployment plan • Movable noise barrier shall be deployed for demolition works • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

Contract No.	Key Construction Works	Recommended Mitigation Measures
	intake culvert; • Continue backfilling rockfills for the installed submarine outfall pipes; • Continue installation of the temporary water diversion steel frame; • Commence the temporary internal propping works for Box Culvert O construction; • Continue substructure works for the New Ferry Pier	
HY/2009/15	• ELS works at TS1; • Pumping test and ELS preparation works at TPCWAE ; • Night time protection works at CHT; and • Precautionary works at Abutment A	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To cover the dusty material or stockpile by impervious sheet • To space out noisy equipment and position as far as possible from sensitive receiver. • Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HK/2010/06	• Installation of bored pile casing; • Excavation of bored piles; and • Bored Pile Concreting	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • To space out noisy equipment and position as far as possible from sensitive receiver. • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

Figure 2.1

Project Layout



LEGEND:

■ WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

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

WSD SALT WATER INTAKE

WSD21	WAN CHAI
RW1	WAN CHAI (REPROVISION)
WSD7	KOWLOON SOUTH
WSD9	TAI WAN
WSD10	CHA KWO LING
WSD15	SAI WAN HO
WSD17	QUARRY BAY
WSD19	SHEUNG WAN
WSD20	KENNEDY TOWN

DESIGNATED PROJECTS (DP)

DP1 - CENTRAL-WAN CHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS

DP2 - ROAD P2 AND OTHER ROADS (PRIMARY / DISTRICT DISTRIBUTOR ROADS)

DP3 - PERMANENT AND TEMPORARY RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS IN WAN CHAI DEVELOPMENT PHASE II (WDII) AREA

~~DP4 - TEMPORARY TYPHOON SHELTER~~ (DP4 NOT TO BE IMPLEMENTED)

DP5 - WAN CHAI EAST SEWAGE OUTFALL

DP6 - DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 356/2009

DP2 IS COVERED BY EP - 356/2009

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

WORKS CONTRACT	DESIGNATED PROJECT INVOLVED	CONSTRUCTION COMMENCEMENT
CEDD CONTRACT NO. HK/2009/01	DP1, DP3, DP6	APRIL 2010
CEDD CONTRACT NO. HK/2009/02	DP1, DP3, DP5	APRIL 2010
CEDD CONTRACT 3	DP1, DP3	END 2011
CEDD CONTRACT 4	DP1, DP3	END 2012
CEDD CONTRACT 5	DP2	2013
HyD CONTRACT NO. HY/2009/11	DP3	18 MARCH 2010
HyD CONTRACT NO. HY/2009/15	DP1, DP3	SEPTEMBER 2010
HyD CONTRACT NO. HY/2009/18	DP1	OCTOBER 2010
HyD CONTRACT NO. HY/2009/19	DP1	NOVEMBER 2010
HyD CONTRACT T2	DP1, DP3	MID 2012

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Plot File By : 2010-3-17

土木工程拓展署
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

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

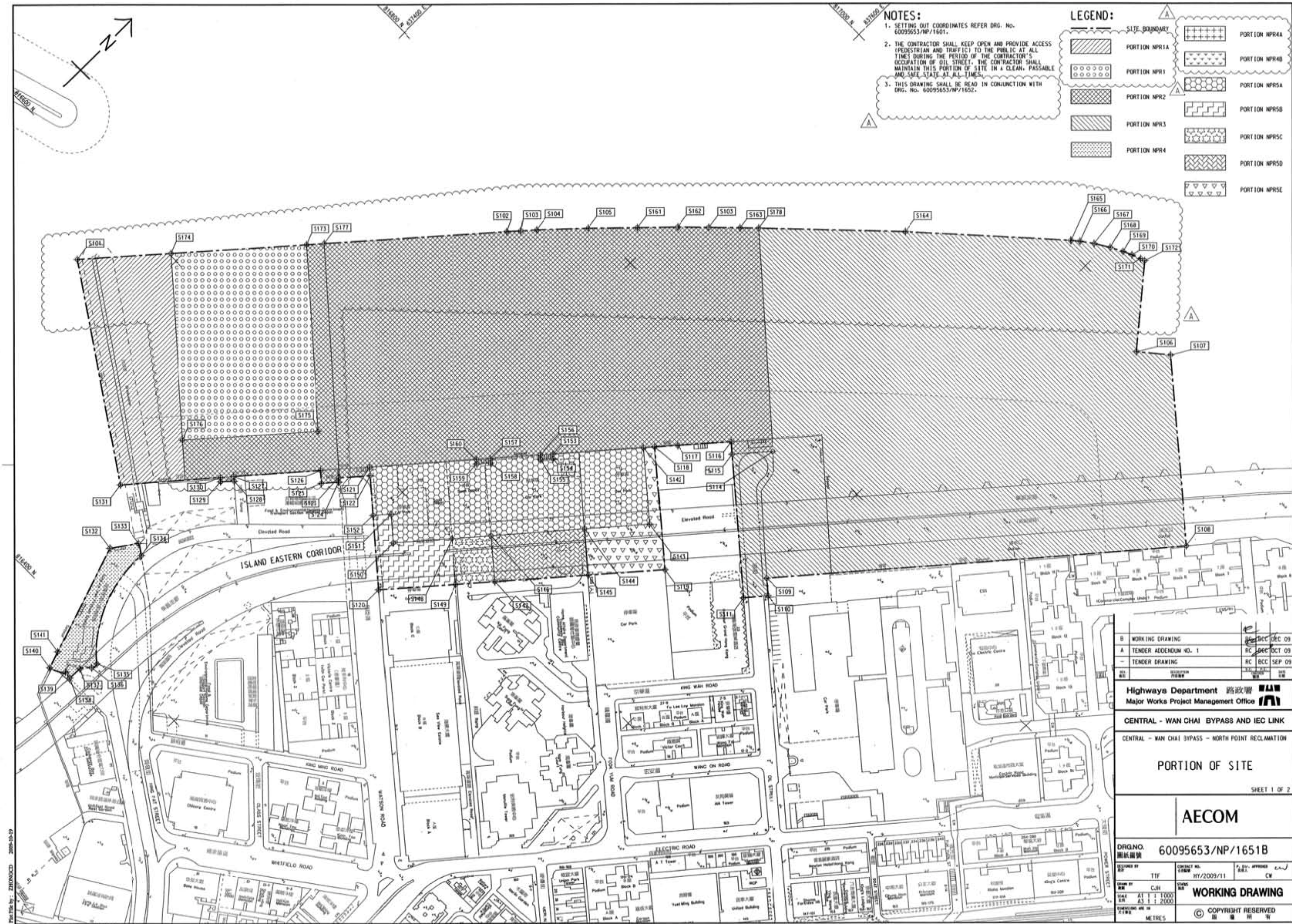
LOCATIONS OF WATER QUALITY MONITORING STATIONS

AECOM

DRG NO. 60041297/C5/SK001

SCALE A1 1:20000

DIMENSIONS IN METRES



NOTES:

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

LEGEND:

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

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

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION

PORTION OF SITE

SHEET 1 OF 2

AECOM

DRG.NO. 60095653/NP/1651B

DESIGNED BY: TTF | CONTRACT NO.: HY/2009/11 | APPROVED: CW

DRAWN BY: CJH | STATUS: WORKING DRAWING

SCALE: A1 1 : 1000, A3 1 : 2000

DIMENSIONS ARE IN METRES

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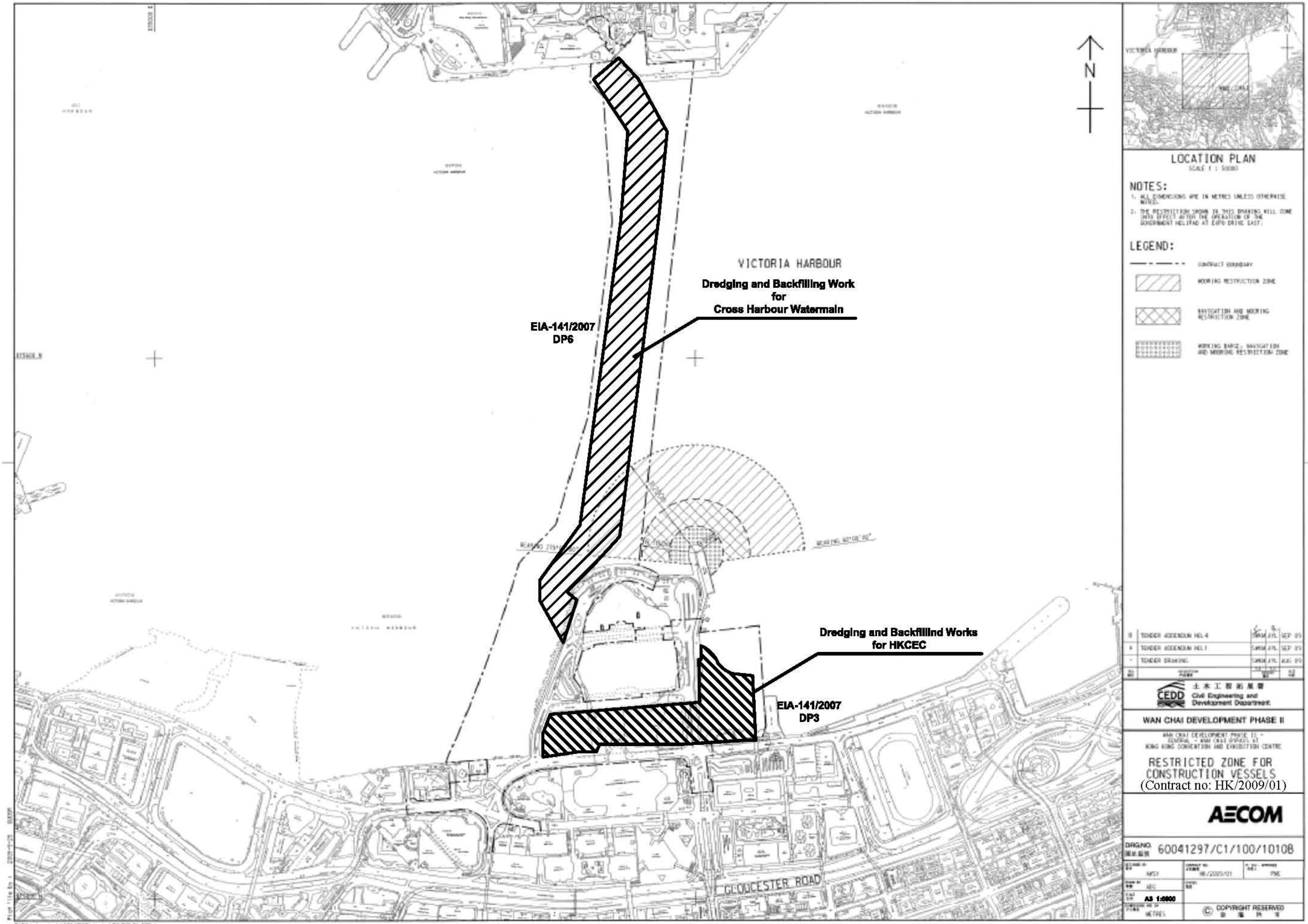

N
VICTORIA HARBOUR
Dredging and Backfilling Work
for
Cross Harbour Watermain
EIA-141/2007
DP6
Dredging and Backfillind Works
for HKCEC
EIA-141/2007
DP3
GLOUCESTER ROAD
LOCATION PLAN
NOTES:
LEGEND:
CEDD Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
RESTRICTED ZONE FOR
CONSTRUCTION VESSELS
(Contract no: HK/2009/01)
AECOM
DRG.NO.
60041297/C1/100/10108
A3 1:6000
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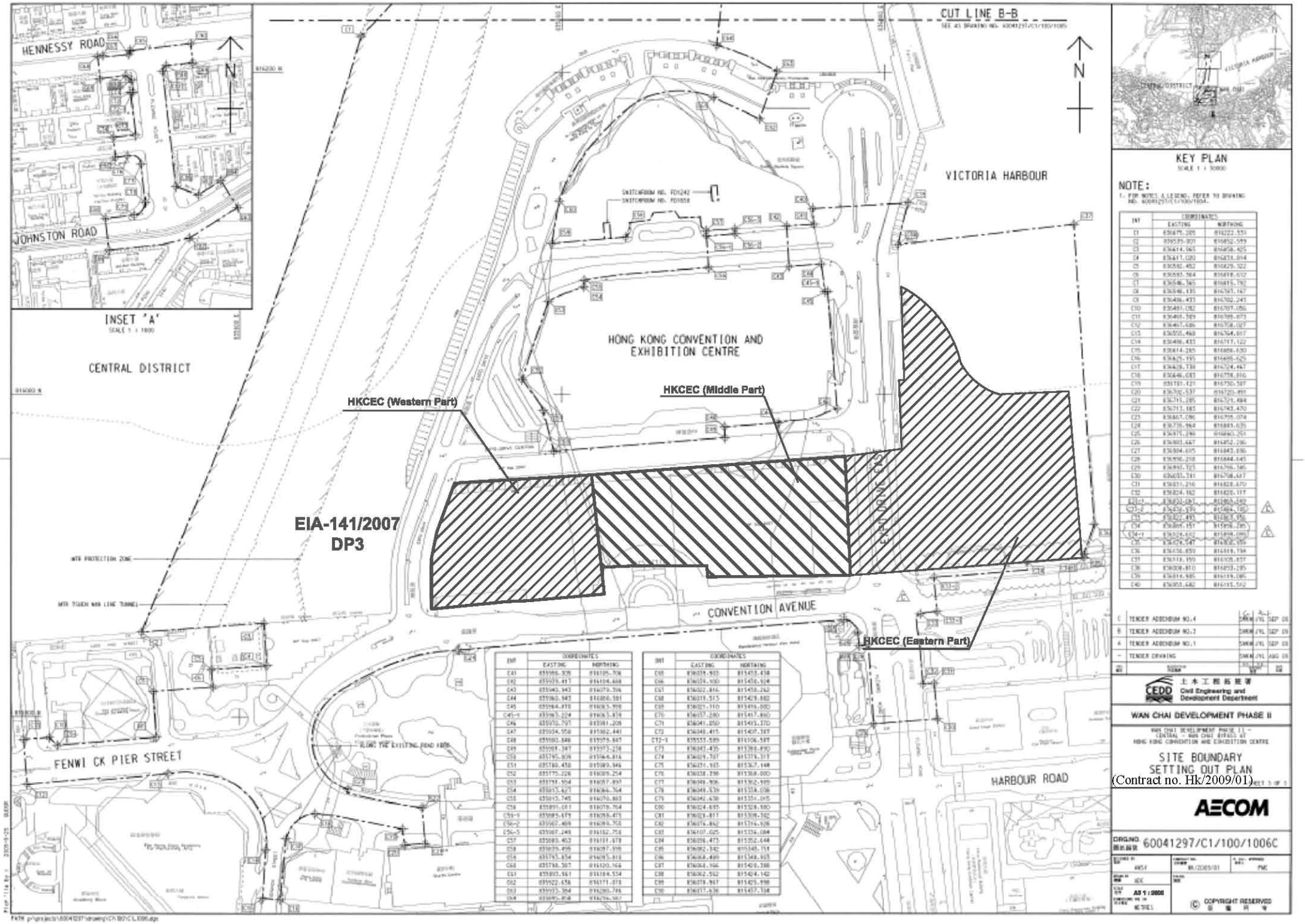
HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
CUT LINE B-B
SEE A3 DRAWING NO. 60041297/C1/100/1005
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
MTR TSUEN WAN LINE TUNNEL
CONVENTION AVENUE
FENWI CK PIER STREET
HARBOUR ROAD
KEY PLAN
SCALE 1 : 50000
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1004.
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
Civil Engineering and Development Department
AECOM
DRG.NO. 60041297/C1/100/1006C
AS 1:2000
METRES
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OVERALL WORKING SCHEDULE

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

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

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

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

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

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

N

N 816230

N 816030

N 815830

GOLDEN BAUHINIA SQUARE

VICTORIA HARBOUR

RECLAMATION WORKS BY OTHERS

TUNNEL WORKS BY OTHERS

35m CLEAR SPACE

P7 P8 P9

DIRECTION OF TUNNEL WORKS

EXISTING WATER INTAKES

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

DRAINAGE DIVERSION OF 1800 PIPE

B1 B2 B3 B4 B5 B6 B7 B8

A1 A2 A3 A4 A5 A6

C1 C2 C3 C4 C6 C7

D1

0 20 40 60m

1 : 2000 SCALE BAR

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

CLIENT

ENGINEER'S REPRESENTATIVE

CONTRACTOR

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

PROJECT

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

DRAWING TITLE

DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

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

DRAWING NO. CWCRJV/HK200902/SK0031

REV C

SCALE 1 : 2000 (A3)

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

LEGEND:

WORKS AREA

DREDGING AREA FOR
MITGATION OF ODOUR(DP3)

SITE BOUNDARY

TCBR1E

TCBR2
AND
TCBR3

TCBR4

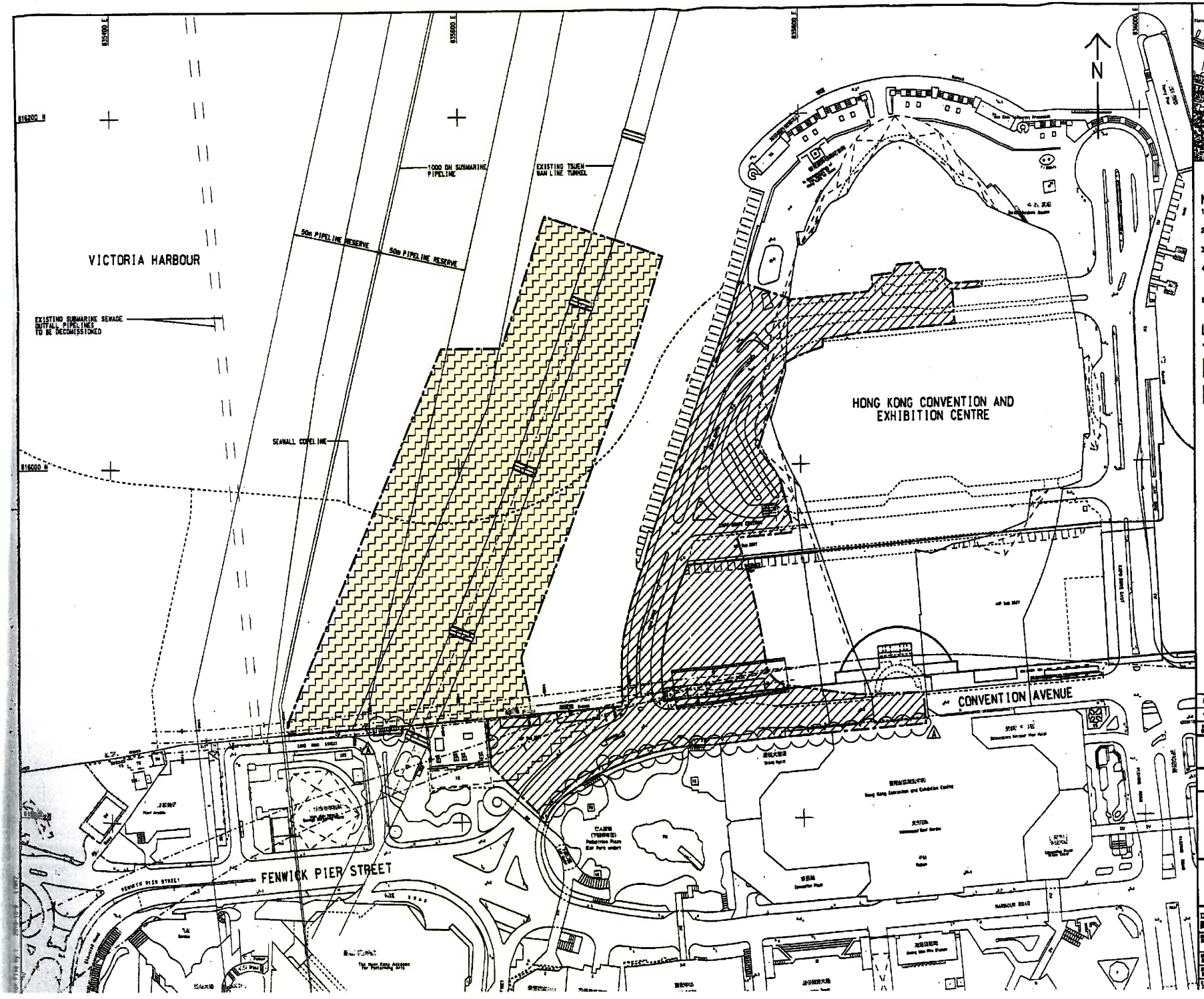
TCBR1W

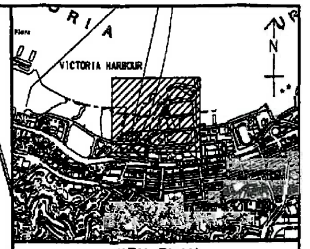
TPCWAE

TPCWAW

DP3

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





KEY PLAN
SCALE 1 : 20000

NOTES:

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

LEGEND:

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

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

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

WAN CHAI DEVELOPMENT PHASE II

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

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

AECOM

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

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

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

Civil Engineering & Development Department

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

Project Proponent

Highways Department

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

Environmental Protection Department

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

Engineer's Representative for WDII

AECOM

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

Engineer's Representative for CWB

AECOM

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

Independent Environmental Checker

ENVIRON Hong Kong Limited

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

HK/2009/01 Contractor

Chun Wo – Leader JV

Mr. Paul Yu
Site Agent

HK/2009/02 Contractor

Chun Wo – CRGL JV

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

HK/2010/06 Contractor

Gamme – Leader JV

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

HY/2009/11 Contractor

CHEC-CRBC JV

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

HY/2009/15 Contractor

China State Co. Engineering Ltd.

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

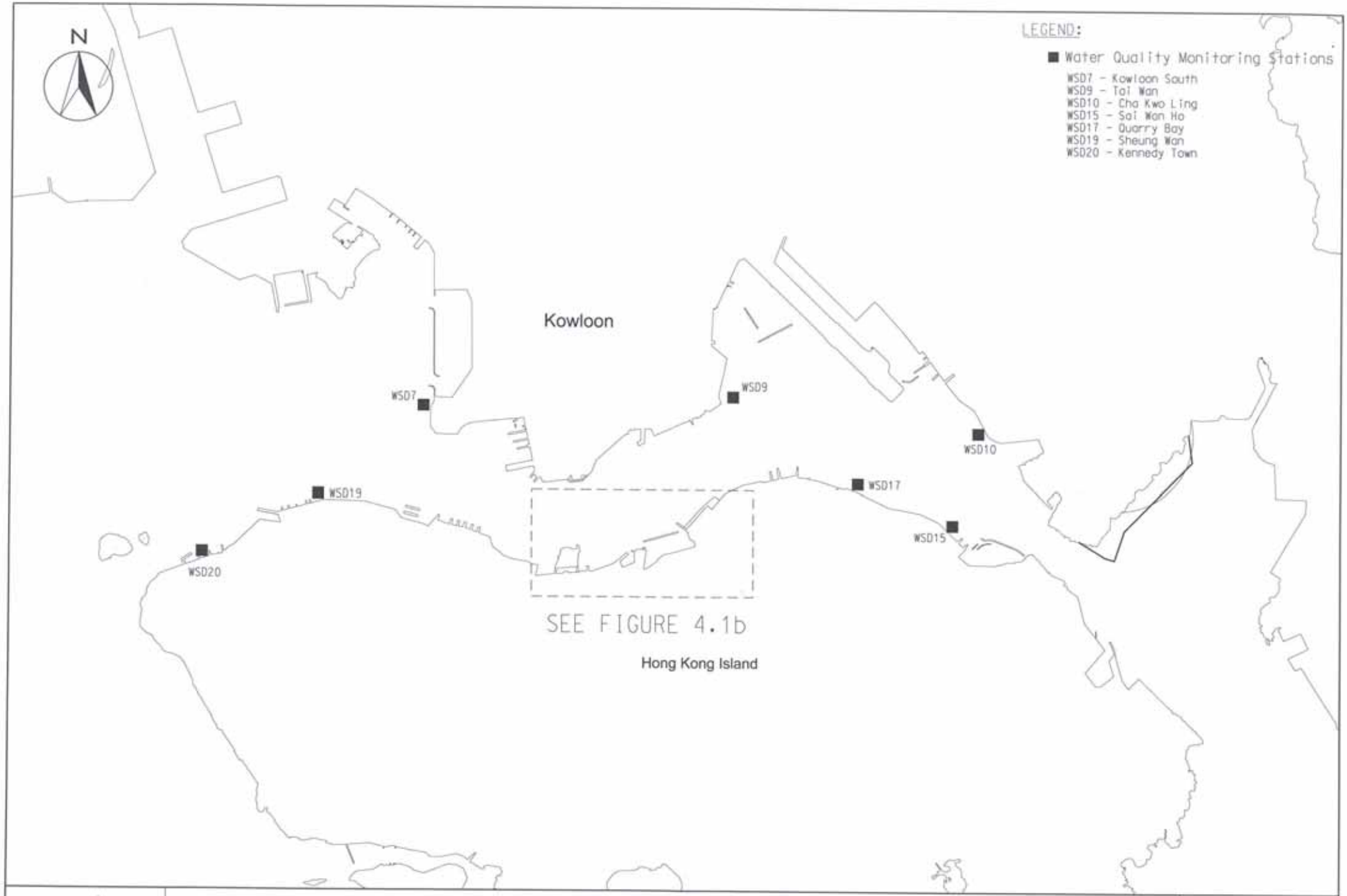
Environmental Team

Lam Geotechnics Limited

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

Figure 4.1

Locations of Monitoring Stations



MAUNSELL AECOM
Maunsell Consultants Asia Ltd

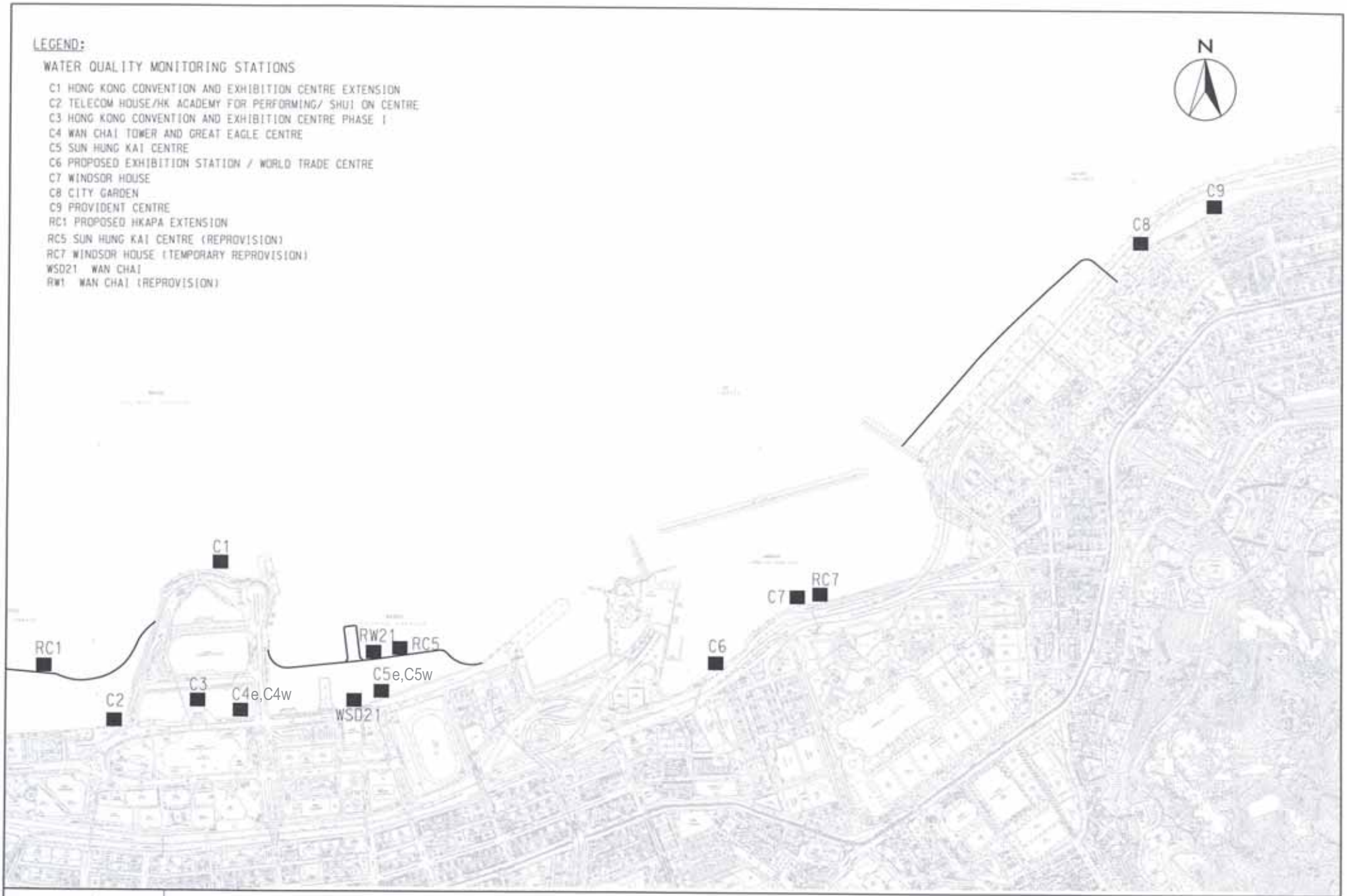
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

(SHEET 1 OF 2)

FIGURE 4.1a

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



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Maunsell Consultants Asia Ltd

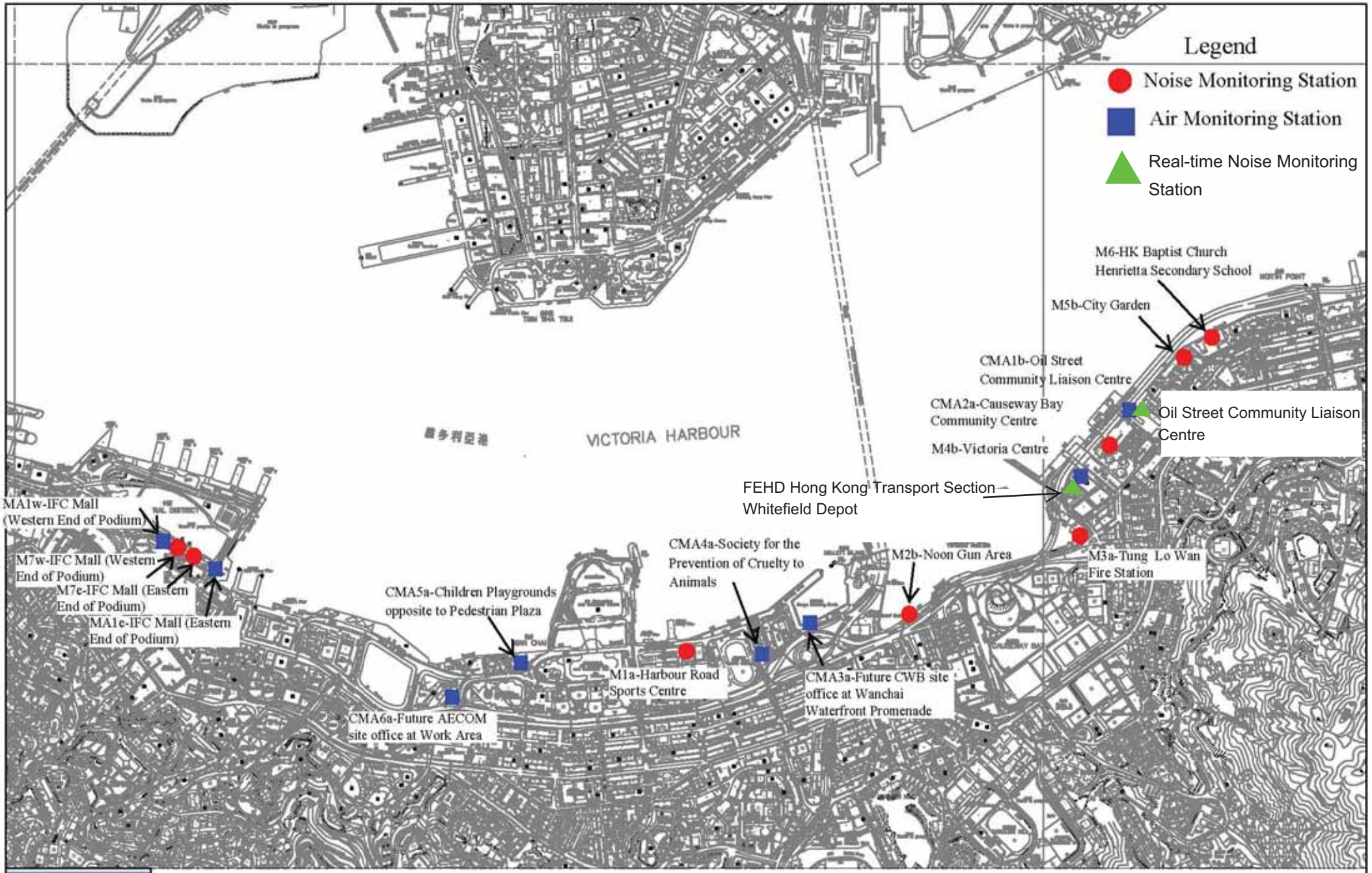
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

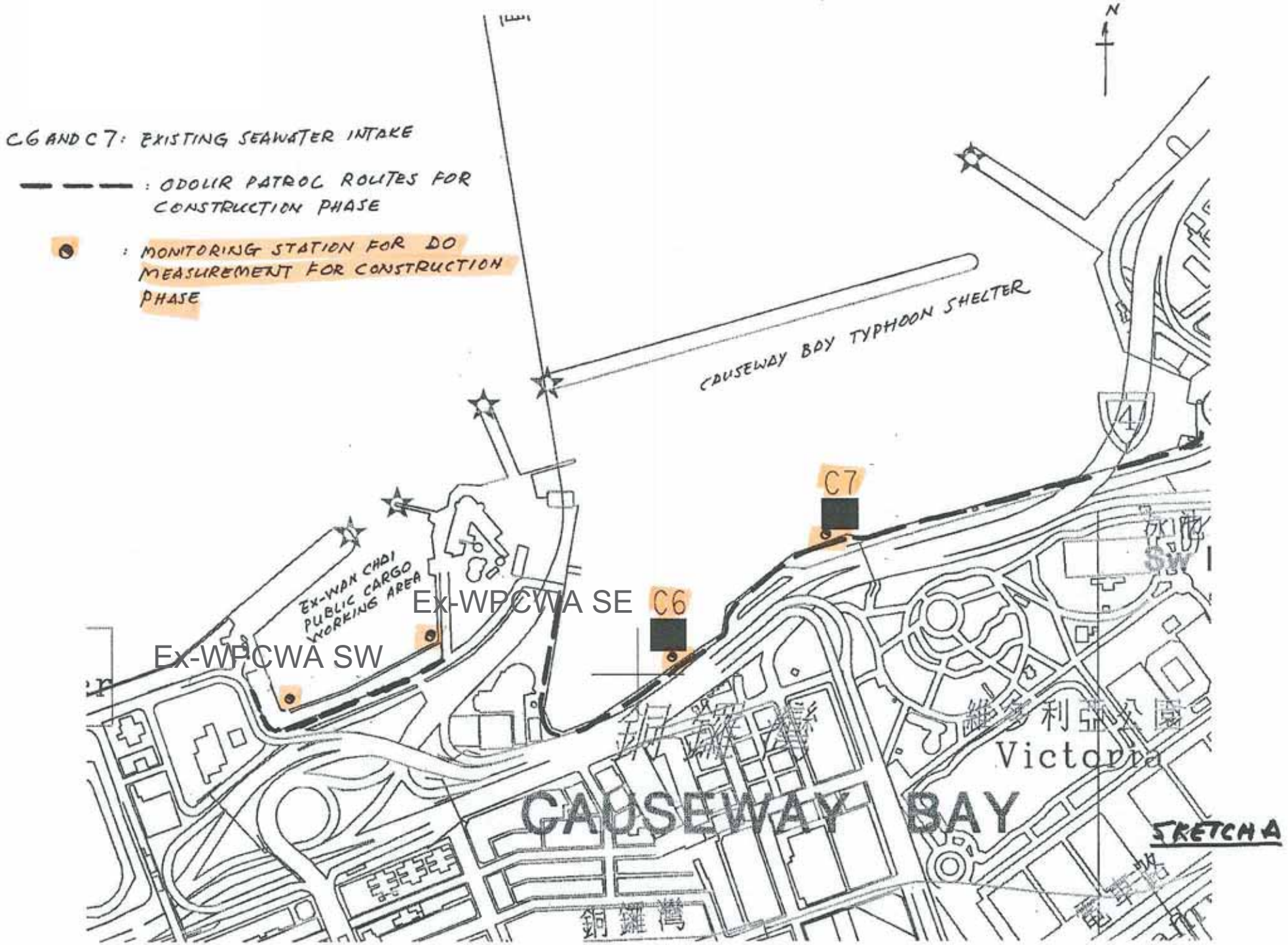
(SHEET 2 OF 2)

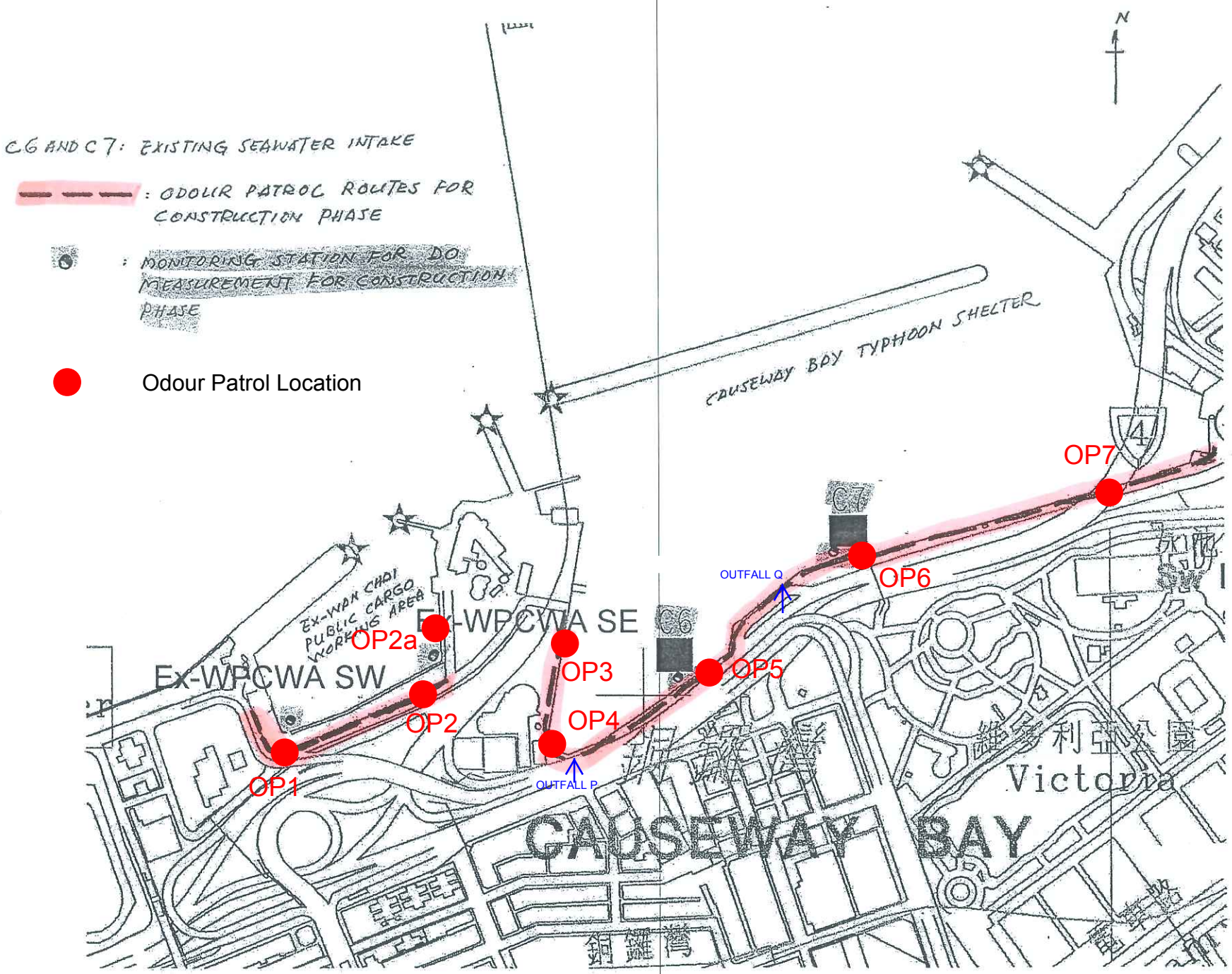
FIGURE 4.1b

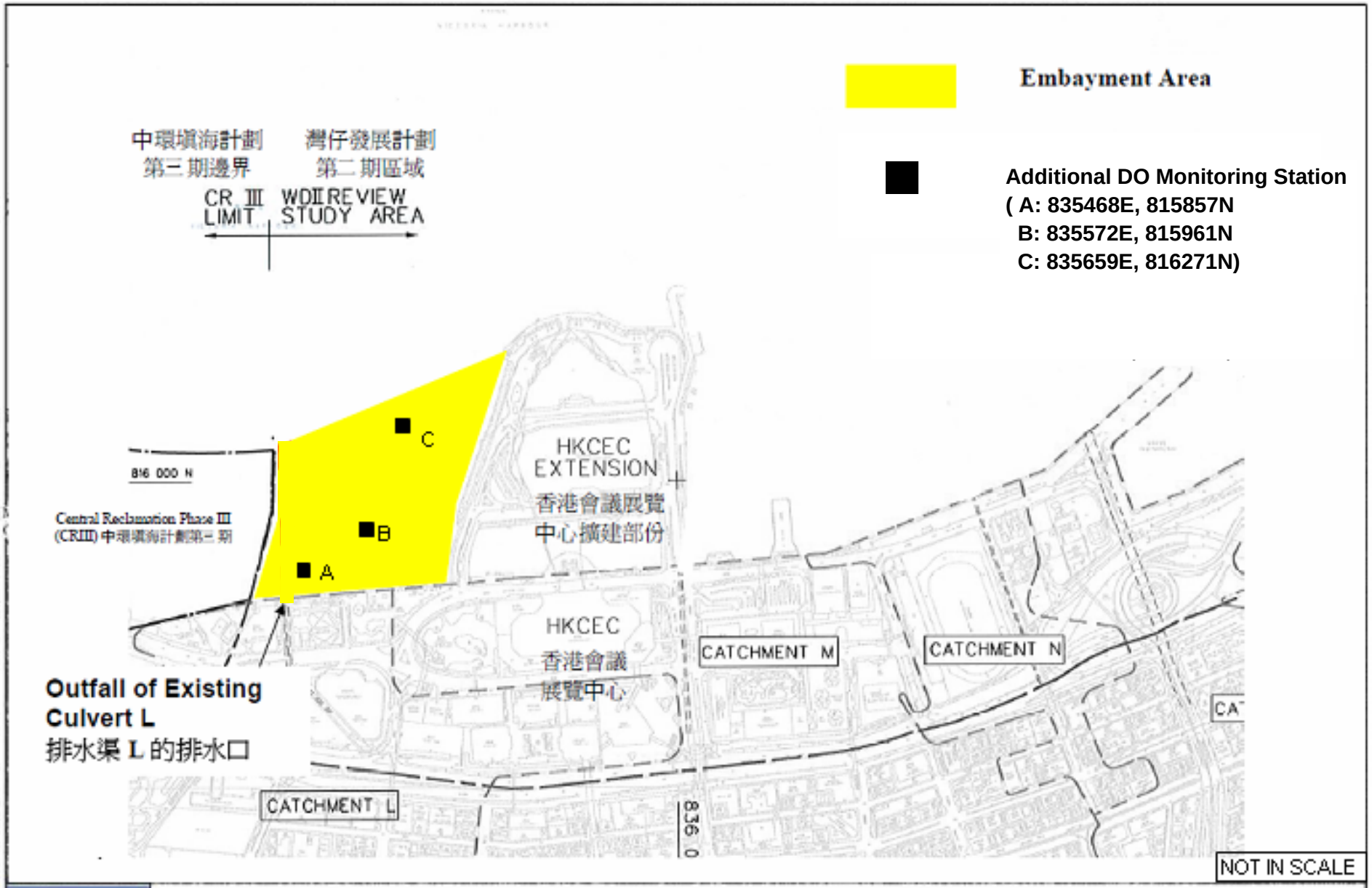
P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



Location plan of Environmental Monitoring Stations


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


C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHOI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP2a
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL Q
C6
C7
CAUSEWAY BAY
Victoria



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

Appendix 3.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD[1]		√			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD[2]		√			EIAO-TM
Operation Phase								
For the Whole Project								

[1] CEDD will identify an implementation agent.

[2] CEDD will identify an implementation agent.

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

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

Table A13.2 Implementation Schedule for Noise Control

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S4.8.3 – S4.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Slip road 8 tunnel • Construction of diaphragm wall and substructures of the tunnel approach ramp • Excavation • Construction of slabs • Backfill • Demolition and construction of substructures for the IEC • Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: • At-grade road construction • Substructure for IECL connection	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP2 – WDII Major Roads (Road P2)								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO
For DP3 – Reclamation Works								
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: • Filling behind seawall • Seawall construction	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

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

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

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

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

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

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For DP3 – Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui), DP1 – CWB (within the Project Boundary)								
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	Dredging shall be carried out by closed grab dredger for the following works: • Seawall construction in all the reclamation areas; • Construction of the CWB Tunnel • Construction of the proposed WSD water mains; and • Construction of the proposed Wan Chai East sewage outfall pipelines.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: • Dredging along the proposed cross-harbour water mains; • Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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

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

Contract No: HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass -
Sampling, Field Measurement and Testing Works (Stage 1)
Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	Other mitigation measures include: • mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used; • all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; • loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and	Work site / During the construction period	Contractor		√			ProPECC PN 1/94; WPCO (TM-DSS)

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

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

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

[3] CEDD will identify an implementation agent.

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	*Storm Water Discharges* Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	√			WPCO
Operation Phase								
DP1 – CWB (within the Project Boundary)								
S5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. • Petrol interceptors shall be regularly cleaned and maintained in good working condition. • Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. • Sewage arising from ancillary facilities of CWB (for examples, car park,	CWB/During design and operational period	HyD/TD[3]	√		√		WPCO

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

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

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

Table A13.4 Implementation Schedule for Waste Management

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: • Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.							

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

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.10	*General Refuse* General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	*Chemical Wastes* After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		√			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	*Construction and Demolition Material* C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		√			ETWB TCW No. 31/2004
S6.7.14	*Bentonite Slurry* The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: • If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. • If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. • If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94

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

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
For the Whole Project								
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re-provisioned Tin Hau Temple	√				"*Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops*" published by EPD, HKSAR EPD ProPECC Note No. 3/94
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: • Excavation profiles must be properly designed and executed; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; • Quantities of soil to be excavated must be estimated; • It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. • Temporary storage of soil at intermediate depot or on-site	A King Marine / During soil remediation works	Contractor	√				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	Air Quality Mitigation Measures • The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. • The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. • All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. • Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.							
	Noise Mitigation Measures • The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. • Simultaneous operation of mixing facilities and other equipment shall be avoided. • Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. • Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).							

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

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

Table A13.6 Implementation Schedule for Marine Ecology

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

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

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP6 – Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui								
Refer to EIA-058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Refer to EIA-058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
Operation Phase								
For the Whole Project - Schedule 3 DP								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD/	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD[4]	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	CEDD/HyD	√	√	√		ETWB TCW 2/2004
For DP1 – CWB (Within the Project Boundary)								
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas.	Work site / During Design Stage and Operation Phases	HyD	√	√	√		ETWB TCW 2/2004
For DP2 – WDII Major Roads (Road P2)								

[4] CEDD will identify an implementation agent

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Table 10.6, Figure 10.5.1-10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM3 Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM5 Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1-10.5.5	OM6 Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		√	√		ETWB TCW 2/2004
For DP3 – Reclamation Works								
Table 10.6, Figure 10.5.1-10.5.5	OM4 Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD[5]	√	√	√		ETWB TCW 2/2004

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

[5] CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

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

Action and Limit Level for Air Monitoring

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

Note 2:

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

Action and Limit Level for Water Monitoring

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

Remarks:

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

Action and Limit Levels for Odour Patrol

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

Appendix 4.2

Copies of Calibration Certificates

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 12888 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-14 **Serial No. :** 10303242

Test Conditions

Date of Test : 26-May-11 **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 or IEC 804 Type 1 specification after adjustment.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	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 : Alan Chu

Date: 26-May-11

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

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)	
Level Range (dB)	Filter	Weight	Time Const.		Before adjust.	After adjust.
40 – 100	OFF	L_P	Fast	94.00	--	94.1
		L_{PA}	Fast		*95.0	94.1
			Slow		--	94.1
		L_{PC}	Fast		--	94.1
60 – 120	OFF	L_P	Fast	94.00	--	94.1
		L_{PA}	Fast		--	94.0
			Slow		--	94.0
		L_{PC}	Fast		--	94.0
60 – 120	OFF	L_P	Fast	114.00	--	114.0
		L_{PA}	Fast		--	113.9
			Slow		--	113.9
		L_{PC}	Fast		--	113.9

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. Level Stability : 0.1 dB

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

Calibration Certificate

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	-0.1	± 0.7 dB
130	104.0	103.8	-0.2	
120	94.0	94.0 (Ref.)	--	
110	84.0	83.9	-0.1	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.3	+0.3	

Uncertainty : ± 0.1 dB

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 dB
	94.0	94.0 (Ref.)	--	
	95.0	95.0	0.0	± 0.2 dB

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	-25.9	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	- 16.1 dB, ± 1 dB
250 Hz	-8.4	- 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	+1.3	+ 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	-7.1	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

Calibration Certificate

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
$1/10^2$	40.0	39.6	
$1/10^3$	40.0	39.2	± 1.0 dB
$1/10^4$	40.0	39.4	

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 : 1 004 hPa.
4. *Out of Specification

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 12889 Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q10982 **Date of receipt :** 25-May-11

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73 **Serial No. :** 10465798

Test Conditions

Date of Test : 26-May-11 **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 manufacturer's specification after adjustment.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR

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

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

Calibrated by : P. F. Wong **Approved by :** Alan Chu

Date: 26-May-11

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 8601 Fax: 2425 8646

Calibration Certificate

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value		Mfr's Spec.
	Before Adjust.	After Adjust.	
94 dB	*95.20 dB	93.94 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.994 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB
Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.5 %
Mfr's Spec. : < 3 %
Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. The above measured values are the mean of 3 measurement.
4. Atmospheric Pressure : 1 004 hPa
5. *Out of Specification

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 13813 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q11569 **Date of receipt :** 7-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250 **Serial No. :** 2722310

Test Conditions

Date of Test : 8-Jul-11 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 1260 Class 1 specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017A	Multi-Function Generator	07279	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 8-Jul-11

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

Calibration Certificate

Results :

1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
20 - 140	A (SPL)	Fast	--	94.0	93.8
		Slow	--		93.8
	C (SPL)	Fast	--	94.0	93.9
	A (SPL)	Fast	--	114.0	113.7
		Slow	--		113.7
	C (SPL)	Fast	--	114.0	113.7
	--	1/1 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7
	--	1/3 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

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

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.8	0.0	± 0.4 dB
	94.0	93.8 (Ref.)	- -	
	95.0	94.8	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB

Calibration Certificate

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 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	+1.4	+ 1.2 dB, ± 1 dB
4 kHz	+1.2	+ 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

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Calibration Certificate

6. Filter Characteristics

6.1 1/1 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec. (dB)
125 Hz	-64.2	< - 61
250 Hz	-44.9	< - 42
500 Hz	-21.0	< - 17.5
707 Hz	-3.8	- 2 ~ - 5
1 kHz (Ref)	--	--
1.414 kHz	-3.5	- 2 ~ - 5
2 kHz	-20.8	< - 17.5
4 kHz	-55.9	< - 42
8 kHz	-85.7	< - 61

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-63.6	< - 61
530 Hz	-47.9	< - 42
772 Hz	-23.5	< - 17.5
891 Hz	-3.7	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.6	+ 0.3 ~ - 5.0
1.296 kHz	-23.4	< - 17.5
1.887 kHz	-48.1	< - 42
3.070 kHz	-69.8	< - 61

Uncertainty : ± 0.25 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.

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

Hong Kong Calibration Ltd.
香港校正有限公司

Calibration Certificate

Certificate No. 13784

Customer : Lam Geotechnics Limited

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

Order No. : Q11569 **Date of receipt :** 6-Jul-11

Item Tested

Description : Sound Level Meter

Manufacturer : B&K

Model : 2250 **Serial No. :** 2722311

Test Conditions

Date of Test : 6-Jul-11 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1, IEC 804 Type 1 & IEC 1260 Class 1 specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

Calibrated by : P. F. Wong

Approved by : Dorothy Cheuk

Date: 6-Jul-11

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

Calibration Certificate

Results :

1. SPL

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Freq. Wgt.	Time Const.	Center Freq.		
20 - 140	A (SPL)	Fast	--	94.0	93.9
		Slow	--		93.9
	C (SPL)	Fast	--	94.0	93.9
	A (SPL)	Fast	--	114.0	113.8
		Slow	--		113.8
	C (SPL)	Fast	--	114.0	113.8
	--	1/1 – Oct/Fast	1 kHz	94.0	93.8
				114.0	113.7
	--	1/3 – Oct/Fast	1 kHz	94.0	93.7
				114.0	113.6

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

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
20~140	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	- -	
	95.0	95.0	+0.1	± 0.2 dB

Uncertainty : ± 0.1 dB

Calibration Certificate

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- 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	+1.1	+ 1.2 dB, ± 1 dB
4 kHz	+1.1	+ 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

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	--	--
1/10	40.0	40.1	± 0.5 dB
$1/10^2$	40.0	40.0	
$1/10^3$	40.0	40.0	± 1.0 dB
$1/10^4$	40.0	40.0	

Uncertainty : ± 0.1 dB

Calibration Certificate

6. Filter Characteristics

6.1 1/1 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec. (dB)
125 Hz	-64.2	< - 61
250 Hz	-44.9	< - 42
500 Hz	-21.1	< - 17.5
707 Hz	-3.8	- 2 ~ - 5
1 kHz (Ref)	--	--
1.414 kHz	-3.6	- 2 ~ - 5
2 kHz	-20.9	< - 17.5
4 kHz	-56.0	< - 42
8 kHz	-86.0	< - 61

Uncertainty : ± 0.25 dB

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-64.9	< - 61
530 Hz	-48.1	< - 42
772 Hz	-23.6	< - 17.5
891 Hz	-3.9	+ 0.3 ~ - 5.0
1 kHz (Ref)	--	--
1.122 kHz	-3.9	+ 0.3 ~ - 5.0
1.296 kHz	-23.7	< - 17.5
1.887 kHz	-48.8	< - 42
3.070 kHz	-70.4	< - 61

Uncertainty : ± 0.25 dB

Remarks : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric pressure : 996 hPa.

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

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1124670
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	19/10/2011
		DATE OF ISSUE:	21/10/2011
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	YSI Sonde
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	10G101955, 11F100421
Equipment No.:	--
Date of Calibration:	20 October, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

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

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1124670
Date of Issue: 21/10/2011
Client: LAM GEOTECHNICS LIMITED

Description: YSI Sonde
Brand Name: YSI
Model No.: YSI Professional Plus
Serial No.: 10G101955, 11F100421
Equipment No.: --
Date of Calibration: 20 October, 2011 Date of next Calibration: 21 January, 2012

Parameters:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.13	3.05	-0.08
5.24	5.24	0.00
7.58	7.55	-0.03
	Tolerance Limit (±mg/L)	0.20

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.00	3.97	-0.03
7.00	7.05	0.05
10.0	9.95	-0.05
	Tolerance Limit (±unit)	0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10.0	10.60	6.0
20.0	20.63	3.2
30.0	30.99	3.3
	Tolerance Limit (±%)	10.0

Temperature

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
9.0	8.8	-0.2
21.0	20.4	-0.6
35.0	34.9	-0.1
	Tolerance Limit (°C)	2.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1124198
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	13/10/2011
		DATE OF ISSUE:	17/10/2011
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	YSI Sonde
Brand Name:	YSI
Model No.:	YSI 600XL Sonde
Serial No.:	05C1607
Equipment No.:	EL424
Date of Calibration:	17 October, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

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

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1124198
Date of Issue: 17/10/2011
Client: LAM GEOTECHNICS LIMITED

Description: YSI Sonde
Brand Name: YSI
Model No.: YSI 600XL Sonde
Serial No.: 05C1607
Equipment No.: EL424
Date of Calibration: 17 October, 2011 Date of next Calibration: 17 January, 2012

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
5.30	5.20	-0.10
6.02	5.98	-0.04
7.78	7.69	-0.09
	Tolerance Limit (±mg/L)	0.20

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.00	3.93	-0.07
7.00	6.91	-0.09
10.0	9.93	-0.07
	Tolerance Limit (±unit)	0.20

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
10.0	10.12	1.2
20.0	20.46	2.3
30.0	30.28	0.9
	Tolerance Limit (±%)	10.0

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
12.0	11.00	-1.0
22.0	21.25	-0.8
38.0	37.73	-0.3
	Tolerance Limit (°C)	2.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager – Hong Kong

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1122327
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	22/09/2011
		DATE OF ISSUE:	28/09/2011
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P
Serial No.:	930300002705
Equipment No.:	--
Date of Calibration:	28 September, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

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

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1122327
Date of Issue: 28/09/2011
Client: LAM GEOTECHNICS LIMITED

Description: Turbidimeter
Brand Name: HACH
Model No.: 2100P
Serial No.: 930300002705
Equipment No.: --
Date of Calibration: 28 September, 2011 Date of next Calibration: 28 December, 2011

Parameters:

Turbidity

Method Ref: ALPHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.00	0.35	--
4.00	4.25	6.3
40.0	38.5	-3.8
80.0	80.3	0.4
400	413	3.3
800	851	6.4
	Tolerance Limit (±%)	10.0

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

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS CHERRY MAK	**WORK ORDER:**	HK1126440
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	09/11/2011
		DATE OF ISSUE:	17/11/2011
PROJECT:	--		

COMMENTS

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.
Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P
Serial No.:	000032935
Equipment No.:	--
Date of Calibration:	16 November, 2011

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

11/F Chung Shun Knitting Centre
1-3 Wing Yip Street
Kwai Chung
HONG KONG

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

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1126440
Date of Issue: 17/11/2011
Client: LAM GEOTECHNICS LIMITED

Description: Turbidimeter
Brand Name: HACH
Model No.: 2100P
Serial No.: 000032935
Equipment No.: --
Date of Calibration: 16 November, 2011 Date of next Calibration: 16 February, 2012

Parameters:

Turbidity

Method Ref: ALPHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0.00	0.19	--
4.00	3.78	-5.5
40.0	39.1	-2.3
80.0	79.3	-0.9
400	410	2.5
800	828	3.5
	Tolerance Limit (±%)	10.0

Mr Chan Kwok Fai, Godfrey
Laboratory Manager - Hong Kong

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 11, 2011 Rootsmeter S/N 0438320 Ta (K) - 298
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3710	3.2	2.00
2	NA	NA	1.00	0.9730	6.4	4.00
3	NA	NA	1.00	0.8690	7.9	5.00
4	NA	NA	1.00	0.8300	8.8	5.50
5	NA	NA	1.00	0.6860	12.8	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817	0.7160	1.4042		0.9957	0.7263	0.8919
0.9775	1.0046	1.9859		0.9915	1.0190	1.2613
0.9754	1.1225	2.2203		0.9894	1.1385	1.4101
0.9743	1.1739	2.3286		0.9882	1.1907	1.4790
0.9690	1.4126	2.8084		0.9829	1.4328	1.7837
Qstd slope (m) =		2.01593		Qa slope (m) =		1.26234
intercept (b) =		-0.03978		intercept (b) =		-0.02526
coefficient (r) =		0.99999		coefficient (r) =		0.99999
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

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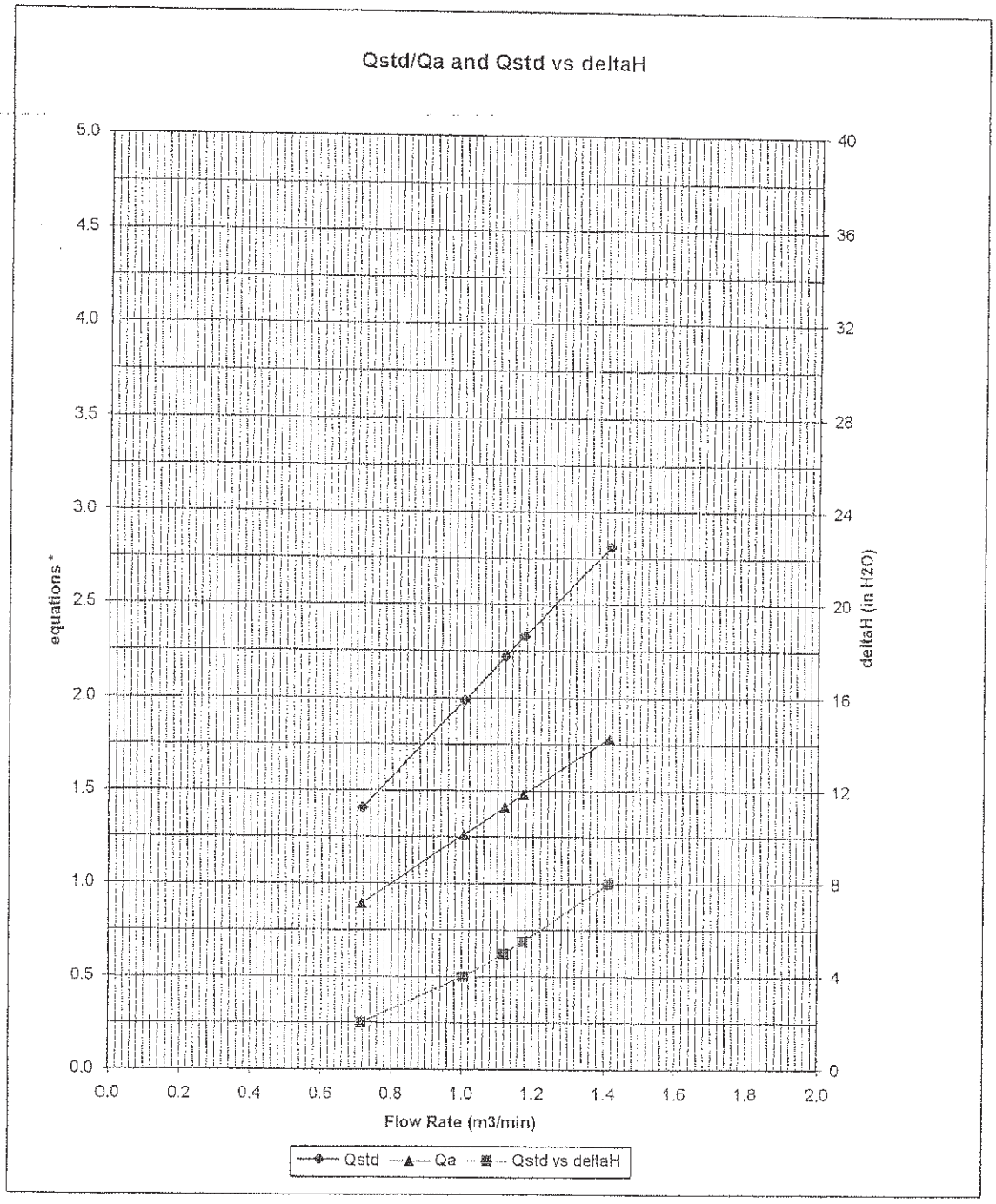
AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

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

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

H0005

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	12-Nov-11
Equipment no.	:	EL452	**Calbration Due Dat**	:	12-Jan-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	297	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration of RSP

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) **Y-axis**
1	6.1	6.1	12.2	1.7524	60	60.0030
2	4.8	4.8	9.6	1.5568	52	52.0026
3	3.8	3.8	7.6	1.3873	45	45.0022
4	2.5	2.5	5.0	1.1290	34	34.0017
5	1.5	1.5	3.0	0.8790	24	24.0012

By Linear Regression of Y on X

Slope, m = 41.3859 Intercept, b = -12.4919

Correlation Coefficient* = 1.0000

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

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

Remarks : _____

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	12-Nov-11	**Date**	:	12-Nov-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	25-Oct-11
Equipment no.	:	EL449	**Calbration Due Date**	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298 Kelvin	**Pressure, P_a**	1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	5.9	5.9	11.8	1.7209	50	49.9185
2	4.8	4.8	9.6	1.5542	43	42.9299
3	3.5	3.5	7.0	1.3300	37	36.9397
4	2.5	2.5	5.0	1.1271	29	28.9527
5	1.4	1.4	2.8	0.8484	17	16.9723

By Linear Regression of Y on X

Slope, m	=	36.8863	Intercept, b	=	-13.4049
Correlation Coefficient*	=	0.9968			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	25-Oct-11	**Date**	:	25-Oct-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration D**	:	25-Oct-11
Equipment no.	:	EL888	**Calbration D**	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	298	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31$
	(up)	(down)	(difference	**X-axis**		**Y-axis**
1	5.6	5.6	11.2	1.6771	47	46.9234
2	4.5	4.5	9.0	1.5055	41	40.9332
3	3.5	3.5	7.0	1.3300	35	34.9430
4	2.2	2.2	4.4	1.0586	26	25.9576
5	1.4	1.4	2.8	0.8484	16	15.9739

By Linear Regression of Y on X

Slope, m = 36.5792 Intercept, b = -14.0184

Correlation Coefficient* = 0.9976

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

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

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	25-Oct-11	**Date**	:	25-Oct-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	25-Oct-11
Equipment no.	:	EL390	**Calbration Due Date**	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298 Kelvin	**Pressure, P_a**	1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$ **Y-axis**
1	5.8	5.8	11.6	1.7065	58	57.9055
2	4.6	4.6	9.2	1.5219	50	49.9185
3	3.7	3.7	7.4	1.3669	44	43.9283
4	2.3	2.3	4.6	1.0819	31	30.9495
5	1.5	1.5	3.0	0.8775	24	23.9609

By Linear Regression of Y on X

Slope, m = 41.4483 Intercept, b = -13.0036

Correlation Coefficient* = 0.9992

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

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	25-Oct-11	**Date**	:	25-Oct-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	25-Oct-11
Equipment no.	:	EL380	**Calbration Due Date**	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	298	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
1	6.2	6.2	12.4	1.7637	56	55.9087
2	4.9	4.9	9.8	1.5701	51	50.9169
3	3.8	3.8	7.6	1.3850	44	43.9283
4	2.5	2.5	5.0	1.1271	35	34.9430
5	1.5	1.5	3.0	0.8775	26	25.9576

By Linear Regression of Y on X

Slope, m = 34.3328 Intercept, b = -3.8356

Correlation Coefficient* = 0.9987

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

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	25-Oct-11	**Date**	:	25-Oct-11

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	25-Oct-11
Equipment no.	:	EL448	**Calbration Due Date**	:	25-Dec-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	298 Kelvin	**Pressure, P_a**	1010 mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01593	**Intercept, bc**	-0.03978
Last Calibration Date	11-Jul-11	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	11-Jul-12	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$) **Y-axis**
1	6.2	6.2	12.4	1.7637	60	59.9022
2	5.0	5.0	10.0	1.5858	52	51.9153
3	3.8	3.8	7.6	1.3850	46	45.9250
4	2.4	2.4	4.8	1.1048	37	36.9397
5	1.5	1.5	3.0	0.8775	29	28.9527

By Linear Regression of Y on X

Slope, m = 33.9988 Intercept, b = -0.9453

Correlation Coefficient* = 0.9983

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

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Sam Lam	**Checked by**	:	Cherry Mak
Date	:	25-Oct-11	**Date**	:	25-Oct-11

Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

Tentative Environmental Monitoring Schedule
December 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec
		Noise (Day time)	24hr TSP	1hr TSP x 3		
		Noise (Restricted hr) 1900-2300		Noise (Restricted hr) 1900-2300		
	Impact WQM		Impact WQM		Impact WQM	Impact WQM
	Mid-ebb: 1:59		Mid-ebb: 3:31		Mid-flood: 12:44	Mid-ebb: 5:47
	Mid-flood: 9:16		Mid-flood: 10:59			
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec
		24hr TSP	1hr TSP x 3		24hr TSP for CMA5a	
		Noise (Day time)				
		Noise (Restricted hr) 1900-2300		Noise (Restricted hr) 1900-2300		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood: 14:47		Mid-flood: 15:45		Mid-flood: 16:37	
	Mid-ebb: 21:53		Mid-ebb: 22:58		Mid-ebb: 23:52	
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec	17-Dec
	24hr TSP	1hr TSP x 3			Noise (Day time)	24hr TSP
				Noise (Restricted hr) 1900-2300		
		24hr TSP for CMA2a				
		Impact WQM		Impact WQM		Impact WQM
		Mid-ebb: 1:21		Mid-ebb: 2:26		Mid-ebb: 3:49
		Mid-flood: 8:41		Mid-flood: 10:09		Mid-flood: 11:45
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec
	1hr TSP x 3	Noise (Day time)	Noise (Restricted hr)		24hr TSP	1hr TSP x 3
		Noise (Restricted hr) 1900-2300				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood: 13:20		Mid-flood: 14:53		Mid-flood: 16:27	
	Mid-ebb: 19:58		Mid-ebb: 21:54		Mid-ebb: 23:30	
25-Dec	**26-Dec**	**27-Dec**	28-Dec	29-Dec	30-Dec	31-Dec
			Noise (Day time)	24hr TSP	1hr TSP x 3	
			Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300		
	Impact WQM		Impact WQM	Impact WQM		Impact WQM
	Mid-ebb: 1:03		Mid-flood: 20:11	Mid-ebb: 3:00		Mid-ebb: 4:01
	Mid-flood: 8:17					Mid-flood: 11:34

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

Tentative Environmental Monitoring Schedule
January 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Dec	**26-Dec**	**27-Dec**	28-Dec	29-Dec	30-Dec	31-Dec
			Noise (Day time)	24hr TSP	1hr TSP x 3	
			Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300		
			Impact WQM	Impact WQM		Impact WQM
			Mid-flood: 20:11	Mid-ebb: 3:00		Mid-ebb: 4:01
						Mid-flood: 11:34
1-Jan	**2-Jan**	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
			24hr TSP	1hr TSP x 3		
		Noise (Restricted hr) 1900-2300	Noise (Day time)	Noise (Restricted hr) 1900-2300		
		Impact WQM		Impact WQM		Impact WQM
		Mid-flood: 13:29		Mid-flood: 14:37		Mid-flood: 16:02
		Mid-ebb: 21:27		Mid-ebb: 22:32		Mid-ebb: 23:34
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
		24hr TSP	1hr TSP x 3			
		Noise (Day time)		Noise (Restricted hr) 1900-2300		
		Noise (Restricted hr) 1900-2300				
	Impact WQM	Impact WQM		Impact WQM		Impact WQM
	Mid-flood: 17:34			Mid-ebb: 14:22		Mid-flood: 10:09
		Mid-ebb: 0:46		Mid-flood: 19:57		Mid-ebb: 16:00
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	24hr TSP	1hr TSP x 3			24hr TSP	1hr TSP x 3
				Noise (Day time)		
		Noise (Restricted hr) 1900-2300		Noise (Restricted hr) 1900-2300		
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood: 11:38		Mid-flood: 13:17		Mid-flood: 15:16	
	Mid-ebb: 18:04		Mid-ebb: 20:49		Mid-ebb: 22:42	
22-Jan	**23-Jan**	**24-Jan**	**25-Jan**	26-Jan	27-Jan	28-Jan
				24hr TSP	1hr TSP x 3	
				Noise (Day time)		
				Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300	
		Impact WQM		Impact WQM		
		Mid-ebb: 13:22		Mid-ebb: 14:36		
		Mid-flood: 18:39		Mid-flood: 20:01		

Remarks: If there is no marine works conducted between 22-25 January 2012, the water quality monitoring on 24 January will be cancelled.

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

Tentative Environmental Monitoring Schedule
February 2012

22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
						Impact WQM Mid-flood: 9:49 Mid-ebb: 15:49
29-Jan	**30-Jan**	**31-Jan**	**1-Feb**	**2-Feb**	**3-Feb**	**4-Feb**
		Noise (Daytime)	24hr TSP	1 hr TSP x 3 Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300	
	Impact WQM Mid-flood: 10:49 Mid-ebb: 17:24		Impact WQM Mid-flood: 11:44 Mid-ebb: 20:28		Impact WQM Mid-flood: 9:39 Mid-ebb: 21:56	
5-Feb	**6-Feb**	**7-Feb**	**8-Feb**	**9-Feb**	**10-Feb**	**11-Feb**
		24hr TSP Noise (Daytime)	1 hr TSP x 3	Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300	
	Impact WQM Mid-flood: 6:28 Mid-ebb: 16:43		Impact WQM Mid-ebb: 12:43 Mid-flood: 18:25		Impact WQM Mid-ebb: 14:01 Mid-flood: 20:01	
12-Feb	**13-Feb**	**14-Feb**	**15-Feb**	**16-Feb**	**17-Feb**	**18-Feb**
	24hr TSP	1 hr TSP x 3		Noise (Daytime) Noise (Restricted hr) 1900-2300	Noise (Restricted hr) 1900-2300	24hr TSP
	Impact WQM Mid-ebb: 3:51 Mid-flood: 10:01		Impact WQM Mid-flood: 11:38 Mid-ebb: 19:04		Impact WQM Mid-flood: 13:47 Mid-ebb: 21:47	
19-Feb	**20-Feb**	**21-Feb**	**22-Feb**	**23-Feb**	**24-Feb**	**25-Feb**
	1 hr TSP x 3	Noise (Daytime) Noise (Restricted hr) 1900-2300		Noise (Restricted hr) 1900-2300	24hr TSP	1 hr TSP x 3
	Impact WQM Mid-ebb: 11:45 Mid-flood: 17:03		Impact WQM Mid-ebb: 12:57 Mid-flood: 18:33		Impact WQM Mid-ebb: 13:57 Mid-flood: 19:51	
26-Feb	**27-Feb**	**28-Feb**	**29-Feb**	**1-Mar**	**2-Mar**	**3-Mar**
		Noise (Daytime) Noise (Restricted hr) 1900-2300		24hr TSP Noise (Restricted hr) 1900-2300	1 hr TSP x 3	
	Impact WQM Mid-flood: 9:13 Mid-ebb: 15:40		Impact WQM Mid-flood: 9:53 Mid-ebb: 17:18		Impact WQM Mid-ebb: 20:23	Impact WQM Mid-flood: 8:55

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

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/2010/06 share station C2 from 23 Mar 2011
   - Contract HK/2009/02: WSD21, C5e, C5w (Commenced on 8 July 2010)

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
   - Contract HK/2009/01: CMA5a and CMA6a (Commenced and reported in Apr 2011)
   - Contract HK/2009/02: (Commenced and reported in Feb 2011)
   - Contract HY/2009/11: CMA1b and CMA2a (Commenced on 17 Jun 2010, To be reported in Monthly report on 11 Aug 2010) and CMA2a (Commenced on 12 May 2010, To be reported in Monthly report on 11 Aug 2
     Due to the changing of land ownship at Oil Street Community Liaison Centre from Contractor to FEHD, the air quality monitoring at CMA1b was suspended on 18 September 2011. The permissic
     installation of HVS at temporary FEHD depot was obtained from the premises owner on early November 2011 and TSP monitoring at CMA1b was resumed on 14 November 2011.
   - Contract HY/2009/15: CMA3a (Commenced and reported on 15 Mar 2011)

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, HK/2009/01, HK/2009/02 and HY/2009/15

Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	10:04	Fine	73.9	76.6	69.9	69.2	72	75
06/12/11	10:02	Cloudy	75.1	77.7	70.8	69.2	74	75
16/12/11	10:56	Fine	74.5	77.7	69.5	69.2	73	75
20/12/11	16:11	Cloudy	73.5	76.7	68.6	69.2	71	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	10:51	Fine	69.9	70.9	67.9	-	70	75
06/12/11	10:45	Cloudy	70.4	71.6	69.0	-	70	75
16/12/11	10:45	Fine	73.2	75.0	68.5	-	73	75
20/12/11	8:25	Cloudy	74.8	77.6	70.2	-	75	75

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
29/11/11	13:00	Fine	68.4	70.3	66.2	-	68	75
06/12/11	11:25	Cloudy	67.7	69.7	65.1	-	68	75
16/12/11	13:38	Fine	67.3	69.3	64.6	-	67	75
20/12/11	9:15	Cloudy	70.1	73.1	67.7	-	70	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/11	13:43	Fine	69.4	71.1	66.8	-	69	75
06/12/11	13:00	Cloudy	70.5	72.4	67.8	-	71	75
16/12/11	14:26	Fine	70.9	72.6	68.5	-	71	75
20/12/11	9:57	Cloudy	71.7	73.1	69.7	-	72	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
29/11/11	15:14	Fine	74.0	77.2	69.8	-	74	75
06/12/11	14:08	Cloudy	72.7	74.4	69.9	-	73	75
16/12/11	11:30	Fine	68.2	70.0	64.5	-	68	75
20/12/11	13:02	Cloudy	70.9	73.1	65.4	-	71	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)						
01/12/11	19:01	Cloudy	66.8	68.0	65.2	66.3	-	66	70
	19:06		66.1	66.7	65.0				
	19:12		66.0	66.8	65.1				
08/12/11	19:56	Fine	66.5	68.3	64.2	66.8	-	67	70
	20:01		67.0	68.9	64.7				
	20:07		66.8	68.3	64.9				
15/12/11	19:48	Fine	65.9	67.5	64.0	66.0	-	66	70
	19:53		66.1	67.7	64.2				
	19:59		66.0	67.5	64.4				
21/12/11	21:00	Fine	65.5	66.9	63.3	64.5	-	65	70
	21:05		64.1	65.6	61.8				
	21:11		63.8	65.2	61.6				

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)						
01/12/11	20:13	Cloudy	65.4	67.1	63.5	65.7	-	66	70
	20:18		65.3	66.7	63.4				
	20:24		66.2	68.2	63.3				
08/12/11	20:24	Fine	66.5	68.6	63.4	66.8	-	67	70
	20:29		66.8	68.9	63.8				
	20:35		67.2	69.3	63.3				
15/12/11	20:02	Fine	67.6	67.8	65.3	67.8	-	68	70
	20:07		68.6	69.3	65.3				
	20:12		67.1	68.6	65.0				
21/12/11	19:52	Fine	66.3	68.1	64.4	66.2	-	66	70
	20:00		66.4	68.4	64.0				
	20:07		65.8	67.5	63.4				

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)						
29/11/11	20:10	Fine	75.0	78.0	69.9	74.8	61.1	**75**	70
	20:15		75.3	78.8	70.1				
	20:20		74.0	76.9	68.5				
06/12/11	20:15	Fine	74.0	76.6	67.8	73.4	61.1	**73**	70
	20:20		72.8	76.1	67.3				
	20:25		73.4	76.6	67.6				
15/12/11	21:01	Fine	70.0	73.7	62.8	69.1	61.1	68	70
	21:06		67.4	70.6	62.0				
	21:12		69.6	72.7	63.0				
20/12/11	21:00	Cloudy	70.4	74.6	65.8	70.3	61.1	70	70
	21:05		70.0	73.0	65.1				
	21:10		70.5	73.7	63.8				

Noise Monitoring Result

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

Location: M2b -Noon-day gun area

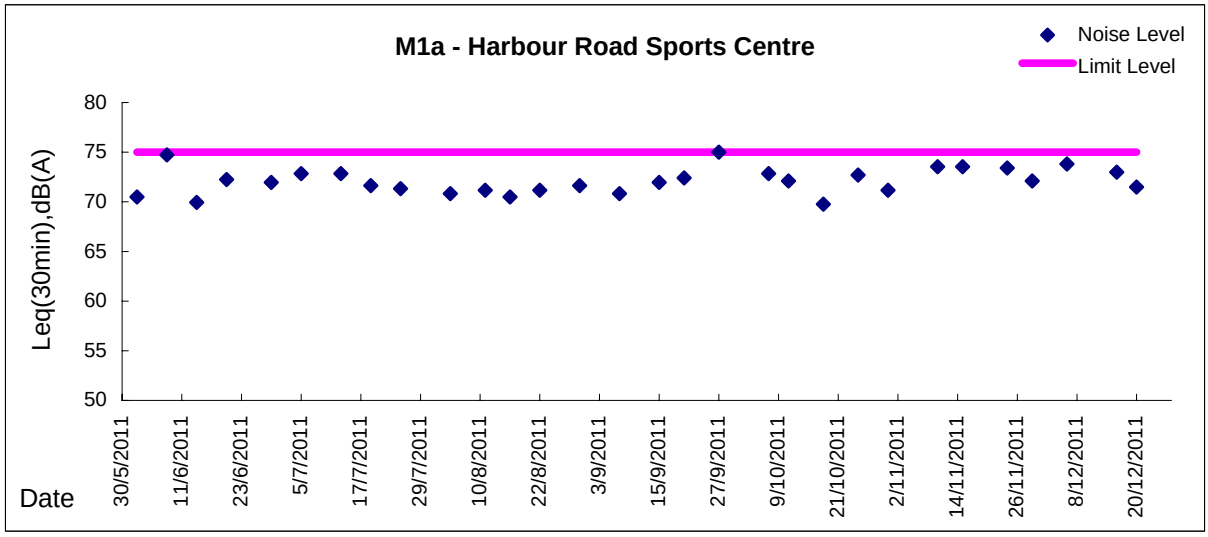
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
29/11/11	20:54	Fine	69.7	72.5	65.9	69.0	-	69	70
	20:59		68.8	70.5	66.6				
	21:04		68.3	69.8	66.4				
06/12/11	21:00	Fine	67.2	68.8	64.8	67.2	-	67	70
	21:05		67.2	68.7	64.8				
	21:10		67.1	68.9	64.9				
15/12/11	19:21	Fine	66.8	68.6	64.8	67.1	-	67	70
	19:26		67.4	69.5	64.8				
	19:31		67.1	68.7	65.0				
20/12/11	21:29	Cloudy	69.3	71.6	65.5	68.1	-	68	70
	21:34		67.8	69.8	65.3				
	21:39		67.0	68.9	63.8				

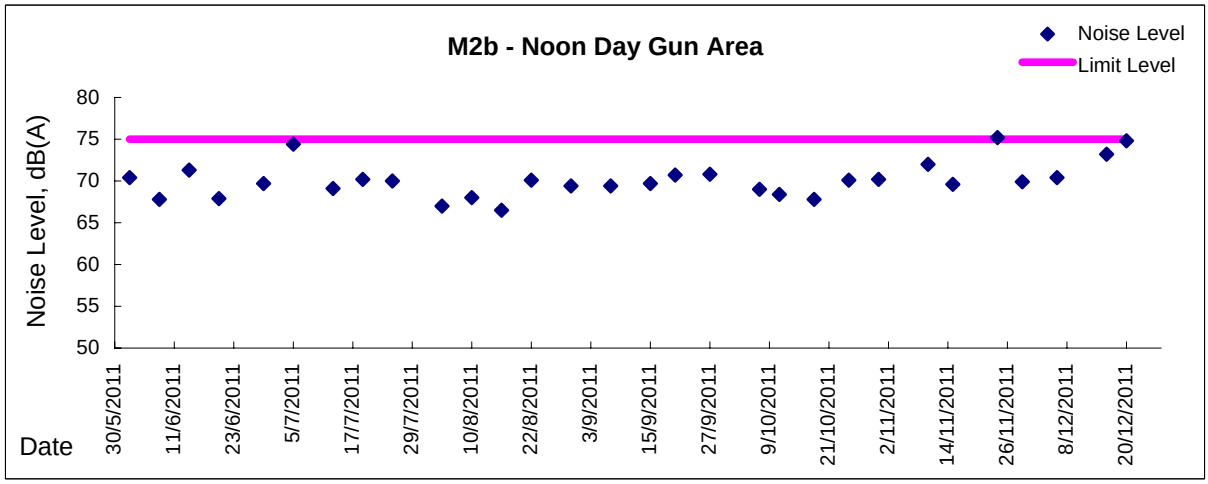
Location: M3a - Tung Lo Wan Fire Station

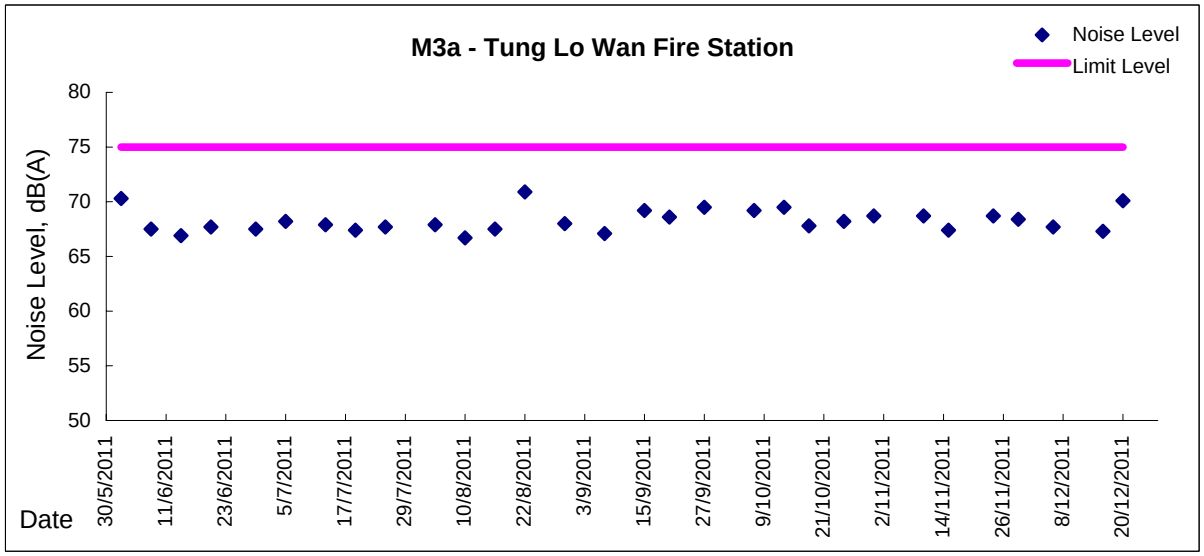
Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)						
01/12/11	19:32	Cloudy	66.8	68.4	64.3	67.0	-	67	70
	19:37		67.0	69.2	64.1				
	19:43		67.1	68.6	65.5				
08/12/11	19:25	Fine	65.9	68.2	63.3	65.9	-	66	70
	19:30		65.4	67.9	62.3				
	19:36		66.3	68.3	63.7				
15/12/11	19:13	Fine	64.5	67.0	61.2	65.2	-	65	70
	19:18		65.7	68.0	61.5				
	19:24		65.2	67.7	61.3				
21/12/11	20:23	Fine	68.1	70.5	64.9	67.4	-	67	70
	20:28		67.0	68.8	64.2				
	20:35		67.1	68.9	64.9				

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

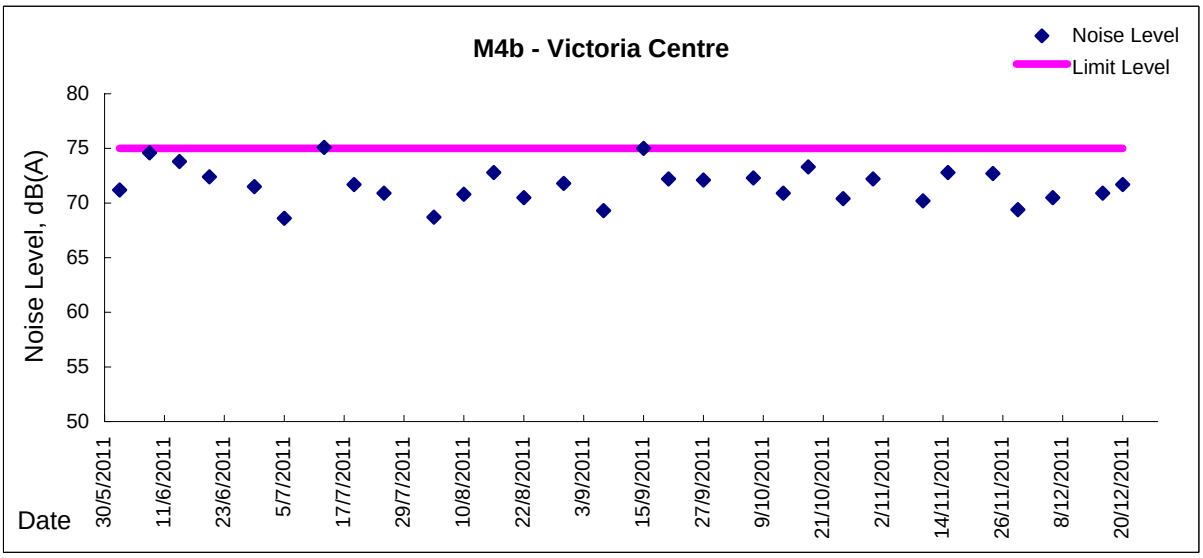


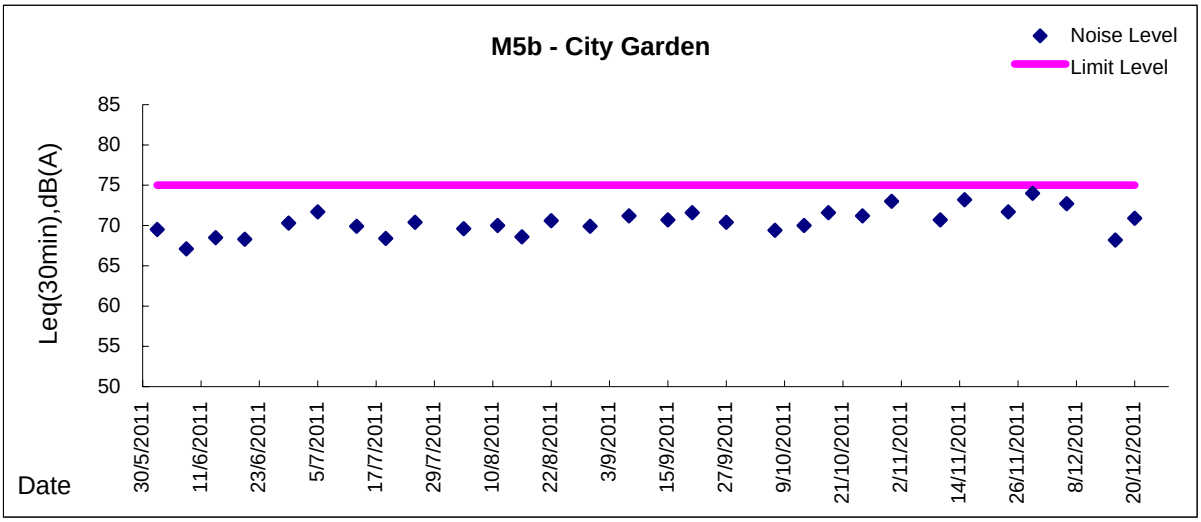




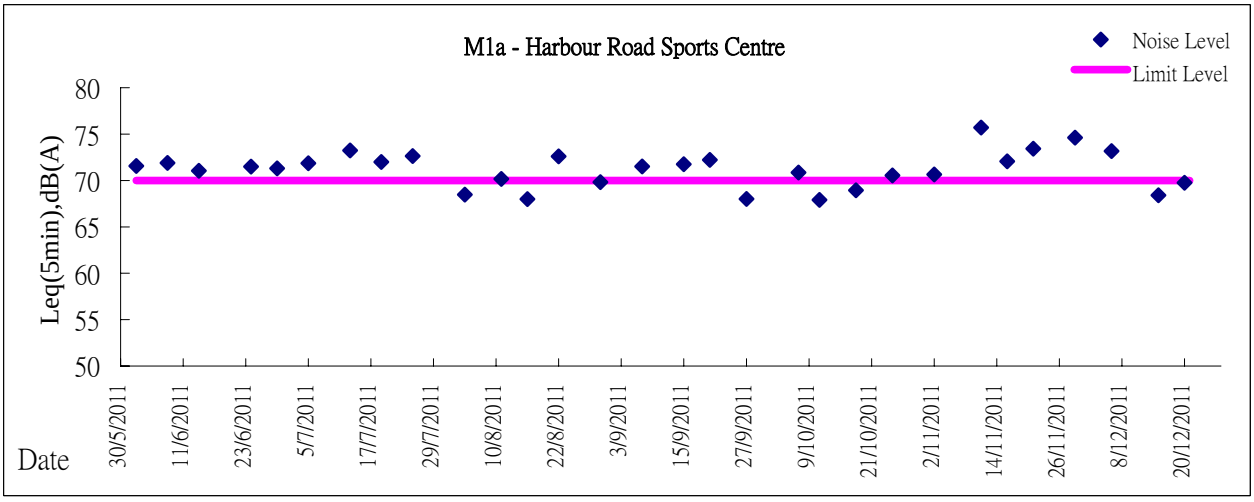
Graphic Presentation of Noise Monitoring Result

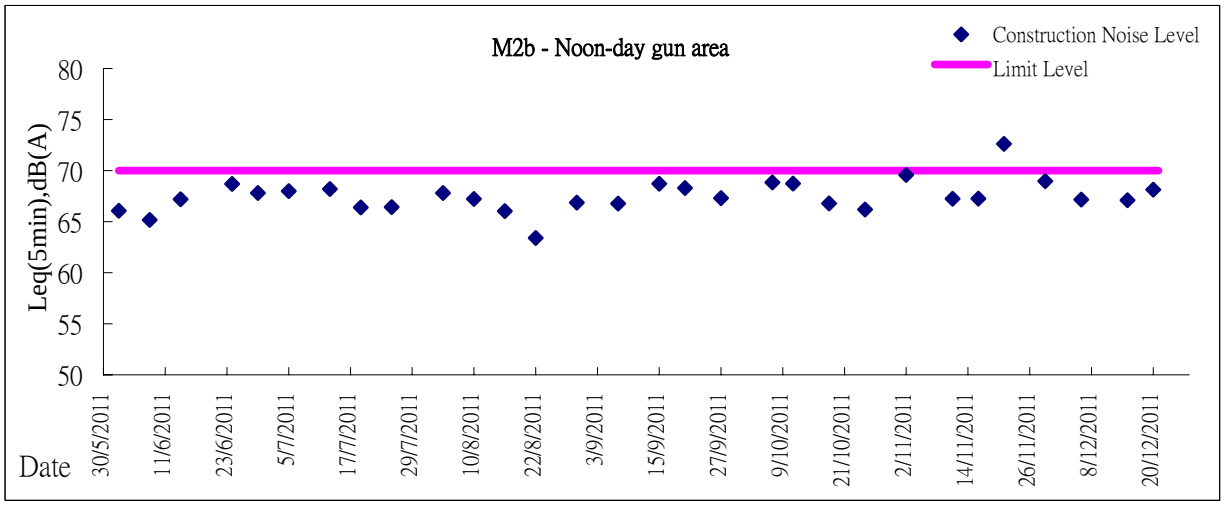
Day Time (0700 - 1900hrs on normal weekdays)

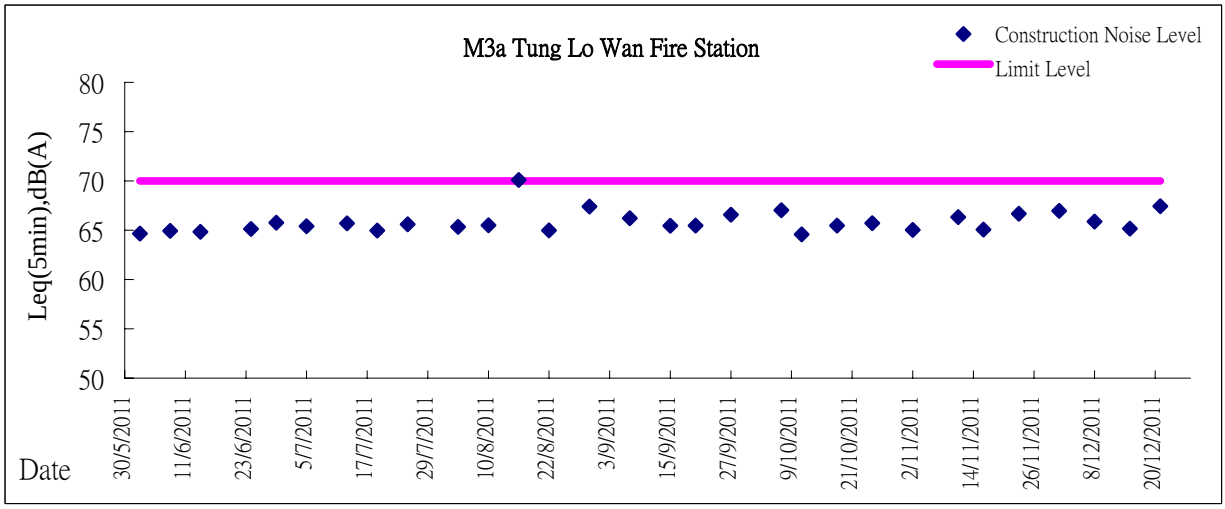




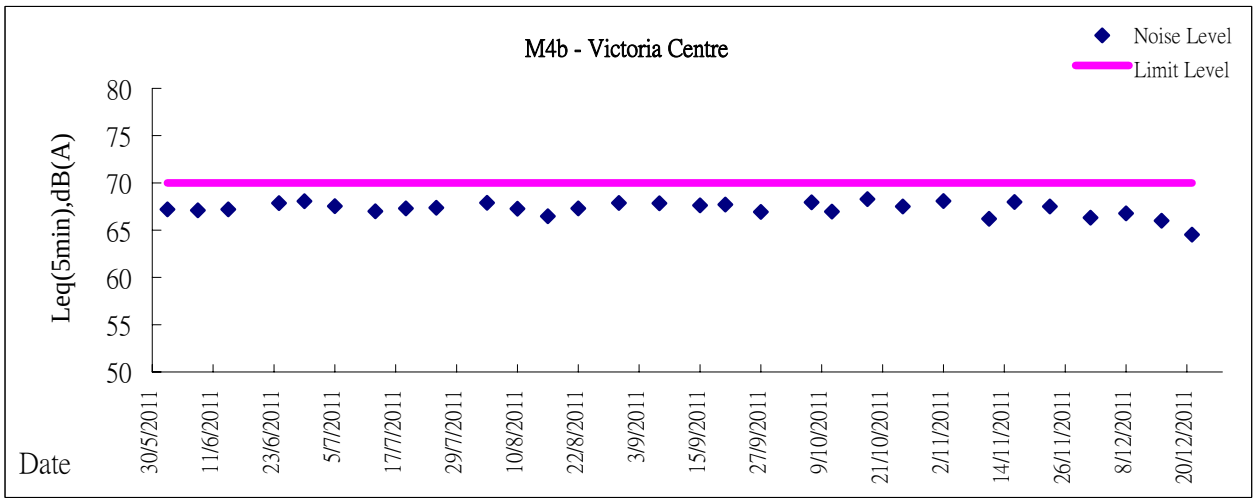
Graphic Presentation of Noise Monitoring Result
Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

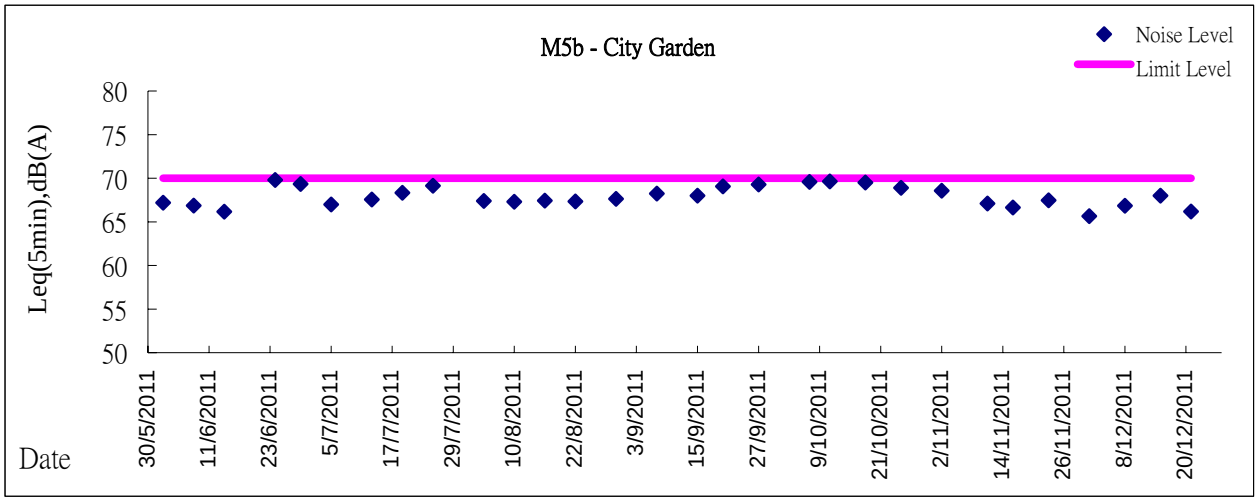






Graphic Presentation of Noise Monitoring Result
Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)





Appendix 5.3

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

Location: CMA1b - Oil St Community Liaison Centre

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001638	2.7561	2.9760	128.08	152.08	24.00	1.19	1.19	1.19	1714	128
6-Dec-11	8:00	Fine	001708	2.7453	2.8985	155.08	179.08	24.00	1.22	1.21	1.21	1749	88
12-Dec-11	8:00	Fine	001698	2.7617	3.0281	182.08	206.08	24.00	1.20	1.20	1.20	1727	154
17-Dec-11	8:00	Fine	001726	2.7825	3.0740	209.07	233.09	24.02	1.20	1.20	1.20	1732	168
23-Dec-11	8:00	Fine	001793	2.7520	3.0197	236.08	260.08	24.00	1.20	1.21	1.20	1733	154

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:45	Fine	001682	2.7235	2.7347	152.08	153.08	1.00	1.33	1.33	1.33	80	141
1-Dec-11	10:40	Fine	001714	2.7651	2.7766	153.08	154.08	1.00	1.37	1.37	1.37	82	139
1-Dec-11	13:00	Fine	001712	2.7567	2.7737	154.08	155.08	1.00	1.37	1.37	1.37	82	206
7-Dec-11	8:55	Fine	001652	2.7541	2.7615	179.08	180.08	1.00	1.32	1.32	1.32	79	93
7-Dec-11	10:00	Fine	001653	2.7372	2.7437	180.08	181.08	1.00	1.37	1.37	1.37	82	79
7-Dec-11	13:00	Fine	001655	2.7677	2.7885	181.08	182.08	1.00	1.34	1.34	1.34	81	258
13-Dec-11	13:00	Fine	001668	2.7685	2.7747	206.07	207.07	1.00	1.20	1.20	1.20	72	86
13-Dec-11	14:00	Fine	001729	2.7633	2.7694	207.07	208.07	1.00	1.24	1.24	1.24	75	82
13-Dec-11	15:00	Fine	001727	2.7676	2.7746	208.07	209.07	1.00	1.24	1.24	1.24	75	94
19-Dec-11	13:00	Fine	001741	2.7589	2.7741	233.09	234.09	1.00	1.20	1.20	1.20	72	211
19-Dec-11	14:00	Fine	001796	2.7566	2.7712	234.09	235.09	1.00	1.25	1.25	1.25	75	195
19-Dec-11	15:00	Fine	001794	2.7497	2.7649	235.07	236.07	1.00	1.25	1.25	1.25	75	203
24-Dec-11	8:50	Fine	001749	2.7532	2.7755	260.08	261.08	1.00	1.25	1.25	1.25	75	297
24-Dec-11	10:55	Fine	001777	2.7841	2.7962	261.08	262.08	1.00	1.21	1.21	1.21	72	167
24-Dec-11	13:00	Fine	001813	2.7708	2.7890	262.08	263.08	1.00	1.25	1.25	1.25	75	242

Location: CMA2a - Causeway Bay Community Centre

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001639	2.7363	2.9248	9954.86	9978.86	24.00	1.33	1.34	1.33	1921	98
6-Dec-11	8:00	Fine	001684	2.7682	2.9096	9981.86	10005.86	24.00	1.42	1.41	1.41	2035	69
13-Dec-11*	15:00	Fine	001728	2.7705	2.9945	10011.88	10035.88	24.00	1.43	1.42	1.42	2050	109
17-Dec-11	8:00	Fine	001759	2.7600	3.0628	10035.90	10059.90	24.00	1.45	1.45	1.45	2092	145
23-Dec-11	8:00	Fine	001812	2.7638	3.0468	10065.90	10089.90	24.00	1.43	1.43	1.43	2056	138
*The 24-hr TSP for CMA2a has been re-scheduled to 13 Dec 2011 from 12 Dec 2011 due to the power failure													

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:35	Fine	001681	2.7657	2.7756	9978.86	9979.86	1.00	1.39	1.39	1.39	83	119
1-Dec-11	10:30	Fine	001715	2.7763	2.7901	9979.86	9980.86	1.00	1.39	1.39	1.39	83	165
1-Dec-11	13:00	Fine	001713	2.7622	2.7758	9980.86	9981.86	1.00	1.42	1.42	1.42	85	160
7-Dec-11	8:46	Fine	001651	2.7507	2.7563	10005.88	10006.88	1.00	1.41	1.41	1.41	85	66
7-Dec-11	9:51	Fine	001685	2.7585	2.7672	10006.88	10007.88	1.00	1.41	1.41	1.41	85	103
7-Dec-11	10:57	Fine	001654	2.7552	2.7680	10007.88	10008.88	1.00	1.41	1.41	1.41	85	151
13-Dec-11	8:00	Fine	001699	2.7486	2.7685	10008.88	10009.88	1.00	1.39	1.39	1.39	84	238
13-Dec-11	9:45	Fine	001723	2.7768	2.7901	10009.88	10010.88	1.00	1.39	1.39	1.39	84	159
13-Dec-11	13:10	Fine	001730	2.7872	2.7963	10010.88	10011.88	1.00	1.42	1.42	1.42	85	107
19-Dec-11	8:00	Fine	001798	2.7551	2.7698	10059.90	10060.90	1.00	1.40	1.40	1.40	84	175
19-Dec-11	9:45	Fine	001797	2.7477	2.7609	10060.90	10061.90	1.00	1.40	1.40	1.40	84	157
19-Dec-11	13:10	Fine	001795	2.7681	2.7804	10061.90	10062.90	1.00	1.43	1.43	1.43	86	144
24-Dec-11	8:41	Fine	001792	2.7430	2.7641	10062.90	10063.90	1.00	1.46	1.46	1.46	87	241
24-Dec-11	10:55	Fine	001788	2.7478	2.7607	10063.90	10064.90	1.00	1.27	1.27	1.27	76	169
24-Dec-11	13:00	Fine	001814	2.7867	2.8045	10064.90	10065.90	1.00	1.46	1.46	1.46	87	204

Location: CMA3a - CWB PRE Site Office Area

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001608	2.7548	3.0437	10522.41	10546.41	24.00	1.44	1.45	1.44	2076	139
6-Dec-11	8:00	Fine	001551	2.7722	2.9455	10549.41	10573.41	24.00	1.52	1.52	1.52	2194	79
12-Dec-11	8:00	Fine	001680	2.7591	3.0525	10576.41	10600.41	24.00	1.53	1.53	1.53	2207	133
17-Dec-11	8:00	Fine	001738	2.7456	3.1088	10603.41	10627.41	24.00	1.53	1.51	1.52	2191	166
23-Dec-11	8:00	Fine	001735	2.7733	3.1101	10630.42	10654.42	24.00	1.53	1.54	1.54	2214	152

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	10:10	Fine	001630	2.7789	2.8003	10546.41	10547.41	1.00	1.47	1.47	1.47	88	242
1-Dec-11	13:00	Fine	001683	2.7479	2.7606	10547.41	10548.41	1.00	1.39	1.39	1.39	84	152
1-Dec-11	14:35	Fine	001553	2.7698	2.7892	10548.41	10549.41	1.00	1.50	1.50	1.50	90	216
7-Dec-11	10:20	Fine	001700	2.7506	2.7628	10573.41	10574.41	1.00	1.47	1.47	1.47	88	139
7-Dec-11	14:00	Fine	001676	2.7748	2.7935	10574.41	10575.41	1.00	1.47	1.47	1.47	88	213
7-Dec-11	15:15	Fine	001678	2.7739	2.7958	10575.41	10576.41	1.00	1.39	1.39	1.39	83	263
13-Dec-11	9:24	Fine	001662	2.7587	2.7725	10600.41	10601.41	1.00	1.48	1.48	1.48	89	156
13-Dec-11	10:54	Fine	001666	2.7879	2.8012	10601.41	10602.41	1.00	1.40	1.40	1.40	84	159
13-Dec-11	13:00	Fine	001669	2.7836	2.7950	10602.41	10603.41	1.00	1.50	1.50	1.50	90	127
19-Dec-11	8:25	Fine	001799	2.7649	2.7857	10627.41	10628.41	1.00	1.48	1.48	1.48	89	234
19-Dec-11	13:00	Fine	001613	2.7465	2.7624	10628.41	10629.41	1.00	1.40	1.40	1.40	84	189
19-Dec-11	14:05	Fine	001612	2.7565	2.7728	10629.41	10630.41	1.00	1.51	1.51	1.51	91	180
24-Dec-11	9:55	Fine	001775	2.7813	2.8050	10654.42	10655.42	1.00	1.49	1.49	1.49	89	266
24-Dec-11	11:00	Fine	001787	2.7524	2.7756	10655.42	10656.42	1.00	1.41	1.41	1.41	84	275
24-Dec-11	13:00	Fine	001805	2.7560	2.7743	10656.42	10657.42	1.00	1.51	1.51	1.51	91	202

Location: CMA4a - SPCA

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001607	2.7610	2.9639	14173.30	14197.30	24.00	1.15	1.16	1.15	1662	122
6-Dec-11	8:00	Fine	001552	2.7672	2.8791	14200.30	14224.30	24.00	1.16	1.15	1.15	1663	67
12-Dec-11	8:00	Fine	001679	2.7582	2.9618	14227.30	14251.30	24.00	1.16	1.16	1.16	1675	122
17-Dec-11	8:00	Fine	001766	2.7771	3.0328	14254.30	14278.30	24.00	1.16	1.17	1.16	1677	152
23-Dec-11	8:00	Fine	001736	2.7683	2.9677	14281.31	14305.31	24.00	1.16	1.17	1.17	1680	119

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	9:55	Fine	001631	2.7609	2.7706	14197.30	14198.30	1.00	1.16	1.16	1.16	69	140
1-Dec-11	13:00	Fine	001711	2.7419	2.7519	14198.30	14199.30	1.00	1.16	1.16	1.16	69	144
1-Dec-11	14:22	Fine	001554	2.7755	2.7839	14199.30	14200.30	1.00	1.16	1.16	1.16	69	121
7-Dec-11	10:05	Fine	001701	2.7508	2.7574	14224.30	14225.30	1.00	1.15	1.15	1.15	69	95
7-Dec-11	13:50	Fine	001675	2.7849	2.7984	14225.30	14226.30	1.00	1.15	1.15	1.15	69	195
7-Dec-11	15:07	Fine	001677	2.7542	2.7684	14226.30	14227.30	1.00	1.15	1.15	1.15	69	205
13-Dec-11	9:38	Fine	001663	2.7497	2.7594	14251.30	14252.30	1.00	1.16	1.16	1.16	70	139
13-Dec-11	10:40	Fine	001664	2.7752	2.7835	14252.30	14253.30	1.00	1.16	1.16	1.16	70	119
13-Dec-11	15:07	Fine	001671	2.7537	2.7620	14253.30	14254.30	1.00	1.16	1.16	1.16	70	119
19-Dec-11	8:15	Fine	001800	2.7757	2.7858	14278.30	14279.30	1.00	1.17	1.19	1.18	71	143
19-Dec-11	13:00	Fine	001661	2.7386	2.7468	14279.30	14280.30	1.00	1.19	1.19	1.19	71	115
19-Dec-11	14:24	Fine	001611	2.7490	2.7583	14280.30	14281.30	1.00	1.19	1.19	1.19	71	130
24-Dec-11	9:53	Fine	001790	2.7675	2.7745	14305.31	14306.31	1.00	1.17	0.61	0.89	53	131
24-Dec-11	11:00	Fine	001786	2.7699	2.7800	14306.31	14307.31	1.00	1.17	1.17	1.17	70	144
24-Dec-11	13:00	Fine	001806	2.7680	2.7775	14307.31	14308.31	1.00	1.17	1.17	1.17	70	136

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 181 181

Limit Level (μg/m3) - 260 260

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001604	2.7509	2.9644	15156.17	15180.17	24.00	1.18	1.19	1.18	1703	125
9-Dec-11	8:00	Fine	001658	2.7405	2.9017	15196.82	15220.89	24.07	1.23	1.23	1.23	1770	91
12-Dec-11	8:00	Fine	001657	2.7503	2.9596	15220.89	15244.89	24.00	1.22	1.22	1.22	1760	119
17-Dec-11	8:00	Fine	001765	2.7708	3.0481	15247.89	15271.89	24.00	1.22	1.23	1.22	1764	157
23-Dec-11	8:00	Fine	001733	2.7579	2.9812	15274.90	15298.90	24.00	1.22	1.23	1.23	1767	126

Report on 1-hour TSP monitoring

Action Level (μg/m3) - 332

Limit Level (μg/m3) - 500

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:10	Fine	001716	2.7526	2.7630	15180.17	15181.17	1.00	1.22	1.22	1.22	73	143
1-Dec-11	9:40	Fine	001632	2.7530	2.7654	15181.17	15182.17	1.00	1.22	1.22	1.22	73	170
1-Dec-11	13:00	Fine	001650	2.7505	2.7618	15182.17	15183.17	1.00	1.22	1.22	1.22	73	155
7-Dec-11	8:15	Fine	001703	2.7445	2.7507	15193.82	15194.82	1.00	1.21	1.21	1.21	73	85
7-Dec-11	9:20	Fine	001686	2.7525	2.7594	15194.82	15195.82	1.00	1.21	1.21	1.21	73	95
7-Dec-11	13:00	Fine	001656	2.7541	2.7677	15195.82	15196.82	1.00	1.21	1.21	1.21	73	187
13-Dec-11	10:57	Fine	001752	2.7475	2.7589	15244.89	15245.89	1.00	1.22	1.22	1.22	73	156
13-Dec-11	13:00	Fine	001769	2.7825	2.7894	15245.89	15246.89	1.00	1.22	1.22	1.22	73	94
13-Dec-11	14:10	Fine	001767	2.7688	2.7821	15246.89	15247.89	1.00	1.22	1.22	1.22	73	182
19-Dec-11	8:00	Fine	001739	2.7470	2.7564	15271.89	15272.89	1.00	1.23	1.23	1.23	74	128
19-Dec-11	9:30	Fine	001743	2.7533	2.7633	15272.89	15273.89	1.00	1.23	1.23	1.23	74	136
19-Dec-11	10:48	Fine	001744	2.7428	2.7529	15273.89	15274.89	1.00	1.23	1.23	1.23	74	137
24-Dec-11	8:03	Fine	001771	2.7776	2.7923	15298.90	15299.90	1.00	1.23	0.50	0.87	52	283
24-Dec-11	9:08	Fine	001773	2.7663	2.7811	15299.90	15300.90	1.00	1.23	1.23	1.23	74	201
24-Dec-11	10:10	Fine	001789	2.7541	2.7693	15300.90	15301.90	1.00	1.23	1.23	1.23	74	206

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3 µg/m3

Limit Level - 260 µg/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Nov-11	8:00	Fine	001603	2.7490	2.9409	13455.57	13479.57	24.00	1.19	1.20	1.19	1721	112
6-Dec-11	8:00	Fine	001710	2.7636	2.8808	13482.57	13506.57	24.00	1.23	1.22	1.22	1763	66
12-Dec-11	8:00	Fine	001660	2.7665	2.9927	13509.57	13533.57	24.00	1.24	1.23	1.24	1779	127
17-Dec-11	8:00	Fine	001764	2.7727	3.0156	13536.70	13560.70	24.00	1.18	1.18	1.18	1700	143
23-Dec-11	8:00	Fine	001734	2.7644	3.0018	13563.72	13587.72	24.00	1.24	1.24	1.24	1786	133

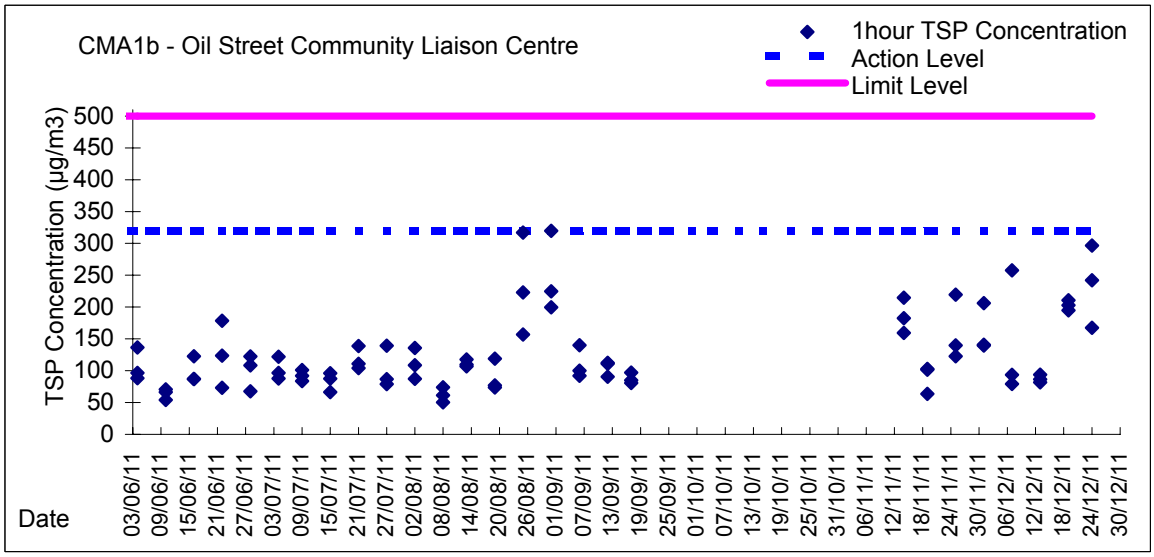
Report on 1-hour TSP monitoring

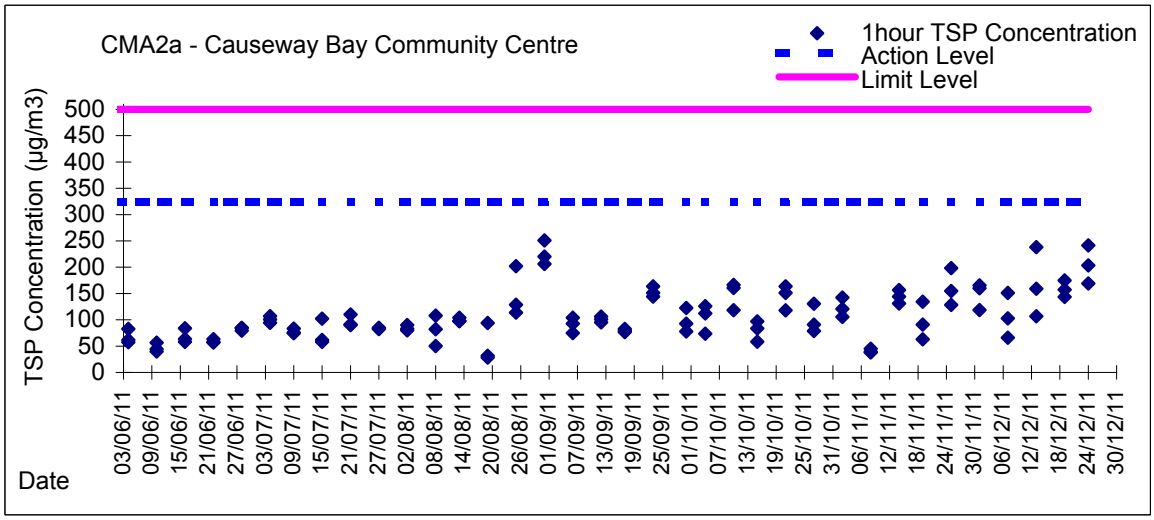
Action Level - 300.1 μ g/m^3

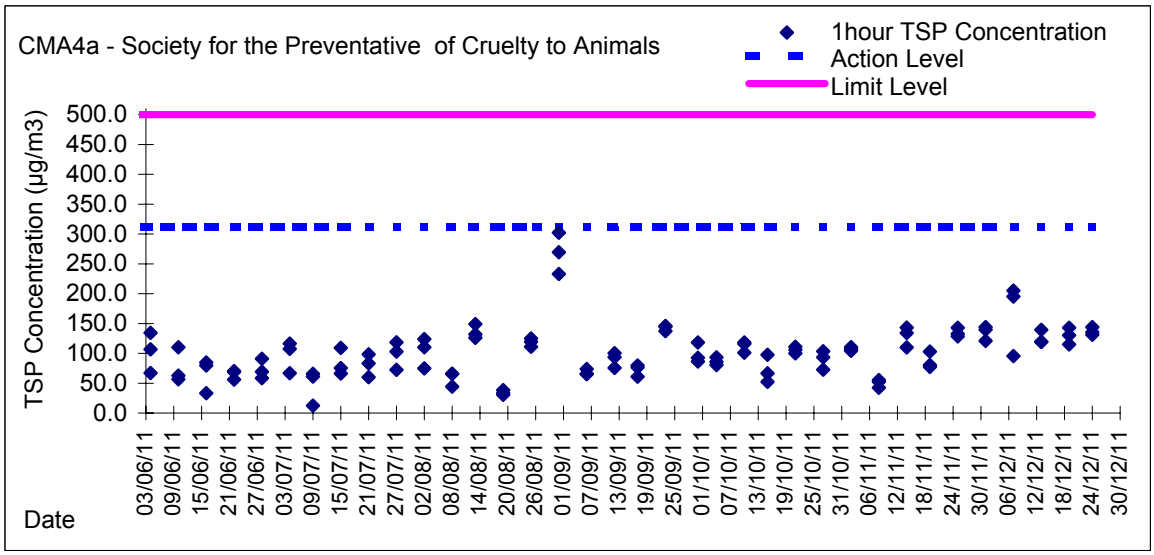
Limit Level - 500 μ g/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
1-Dec-11	8:25	Fine	001634	2.7384	2.7471	13479.57	13480.57	1.00	1.23	1.23	1.23	74	118
1-Dec-11	9:28	Fine	001633	2.7582	2.7697	13480.57	13481.57	1.00	1.20	1.20	1.20	72	160
1-Dec-11	13:00	Fine	001649	2.7680	2.7763	13481.57	13482.57	1.00	1.17	1.17	1.17	70	118
7-Dec-11	8:23	Fine	001702	2.7315	2.7377	13506.57	13507.57	1.00	1.22	1.22	1.22	73	85
7-Dec-11	9:30	Fine	001687	2.7525	2.7583	13507.57	13508.57	1.00	1.25	1.25	1.25	75	77
7-Dec-11	13:00	Fine	001659	2.7386	2.7485	13508.57	13509.57	1.00	1.19	1.19	1.19	72	138
13-Dec-11	8:10	Fine	001737	2.7600	2.7709	13533.57	13534.70	1.13	1.23	1.23	1.23	83	131
13-Dec-11	9:20	Fine	001770	2.7816	2.7889	13534.70	13535.70	1.00	1.20	1.20	1.20	72	101
13-Dec-11	10:58	Fine	001768	2.7607	2.7694	13535.70	13536.70	1.00	1.17	1.17	1.17	70	124
19-Dec-11	8:10	Fine	001740	2.7602	2.7703	13560.70	13561.70	1.00	1.24	1.24	1.24	74	136
19-Dec-11	9:20	Fine	001742	2.7495	2.7591	13561.70	13562.70	1.00	1.21	1.21	1.21	73	132
19-Dec-11	10:58	Fine	001745	2.7604	2.7691	13562.70	13563.70	1.00	1.18	1.18	1.18	71	123
24-Dec-11	8:10	Fine	001772	2.7738	2.7884	13587.72	13588.72	1.00	1.24	1.24	1.24	75	196
24-Dec-11	9:20	Fine	001774	2.7763	2.7925	13588.72	13589.72	1.00	1.21	1.21	1.21	73	222
24-Dec-11	10:23	Fine	001776	2.7810	2.7940	13589.72	13590.72	1.00	1.19	1.19	1.19	71	183

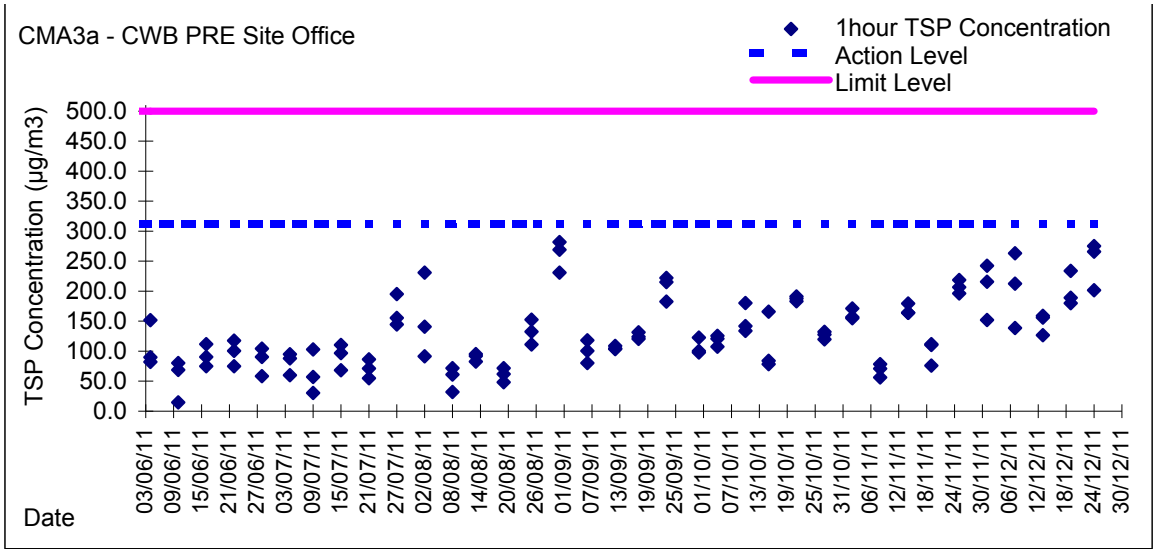
Graphic Presentation of 1 hour TSP Result

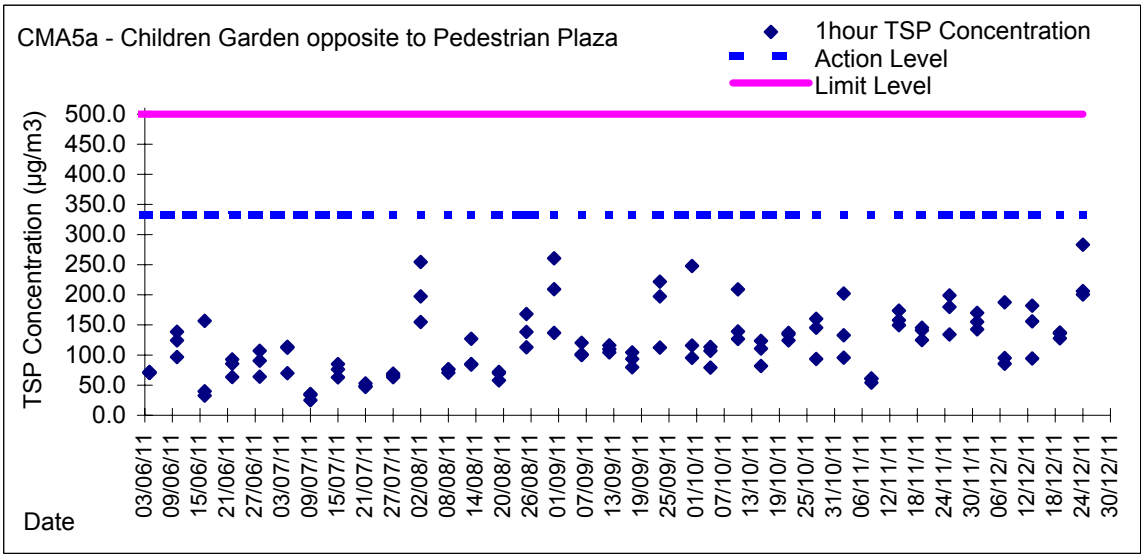


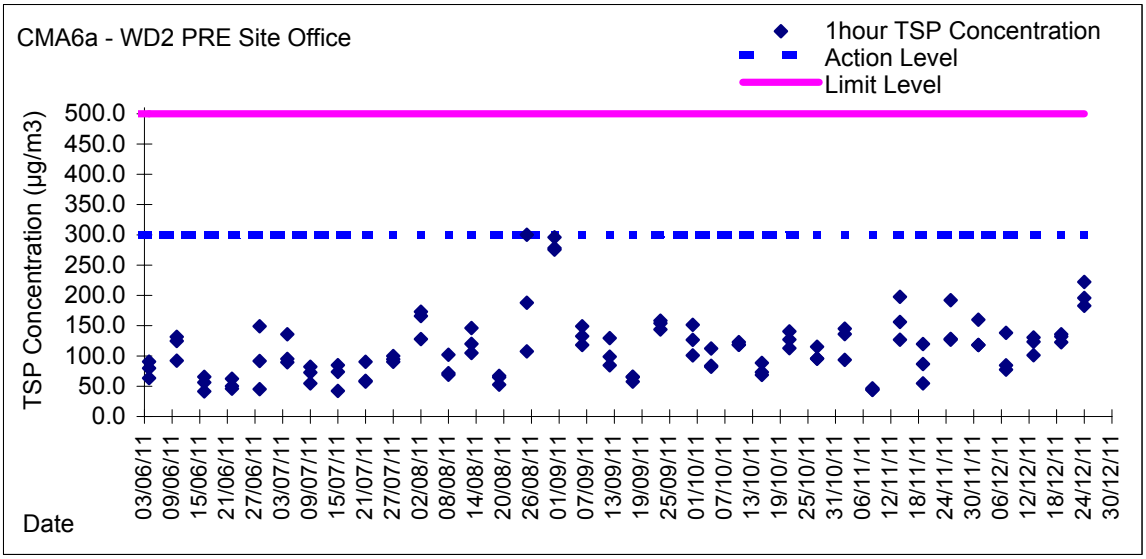




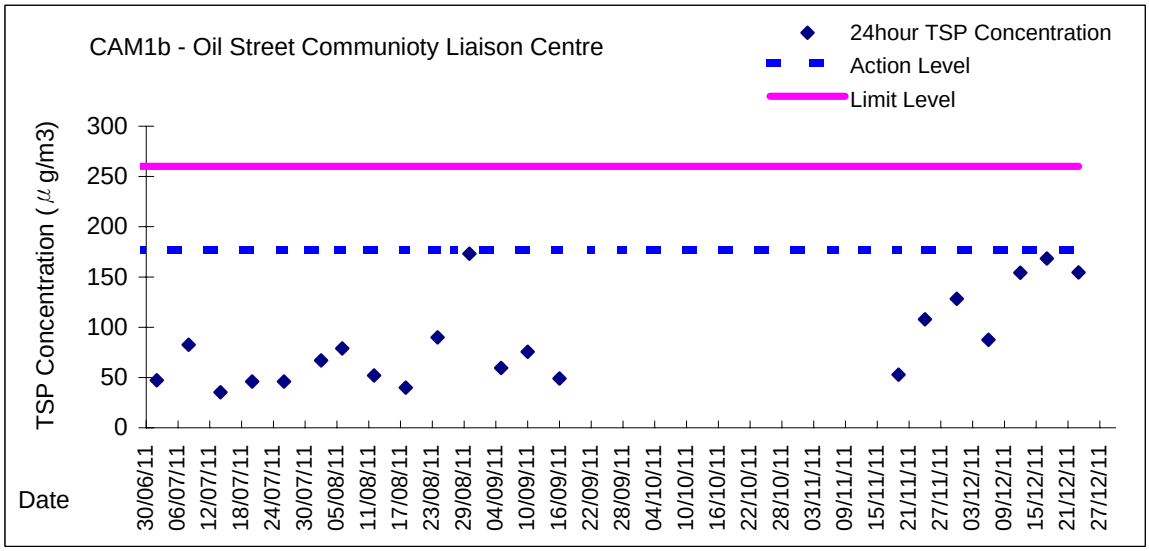
Graphic Presentation of 1 hour TSP Result

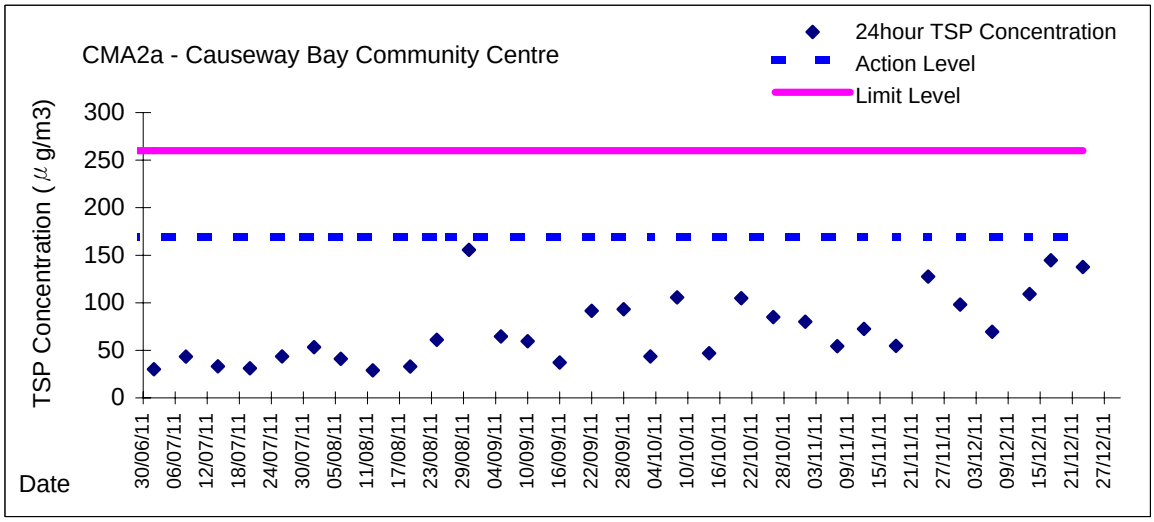


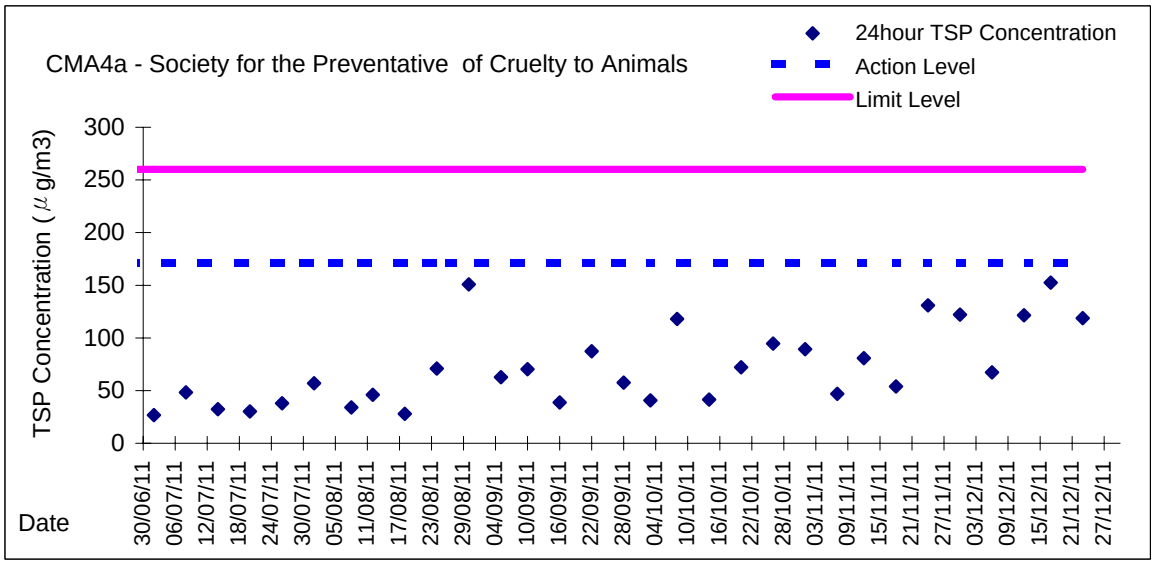




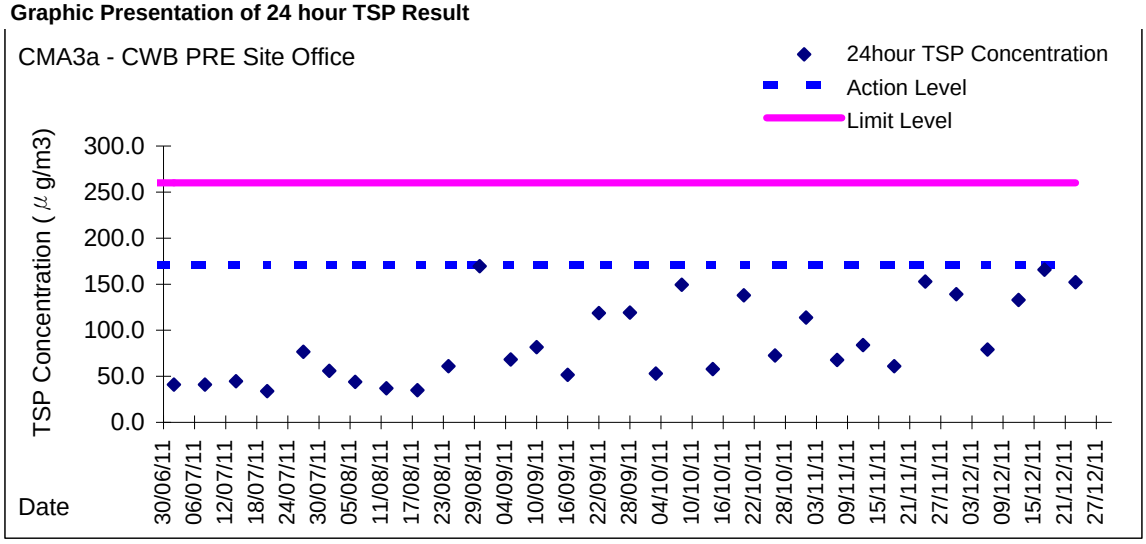
Graphic Presentation of 24 hour TSP Result

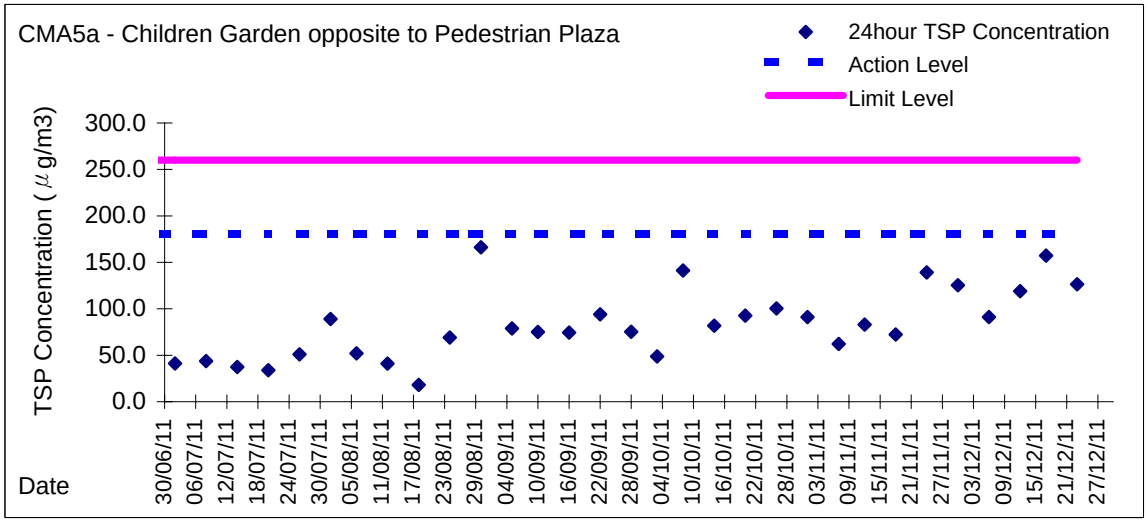


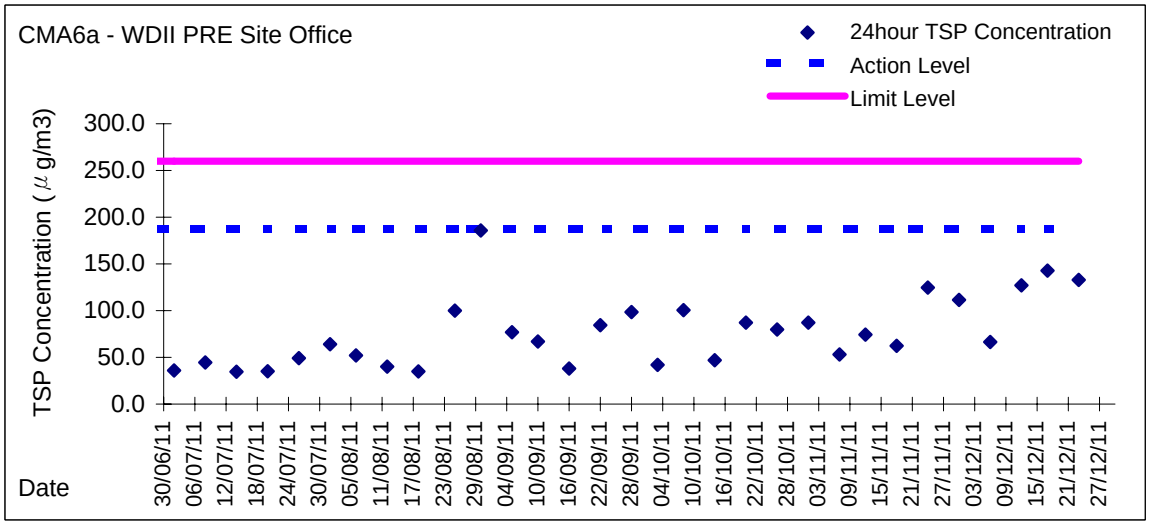




Graphic Presentation of 24 hour TSP Result







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	9:22	Cloudy	Middle	2.0	22.90	22.90	22.90	7.99	7.99	7.99	32.82	32.82	32.84	83.0	82.1	82.8	5.90	5.84	5.89	4.57	4.15	4.31	6	6.50
	9:25		Middle	2.0	22.90	22.90		7.99	7.99		32.85	32.85		83.3	82.6		5.92	5.88		4.42	4.08		7	
30/11/2011	9:18	Fine	Middle	2.5	23.20	23.20	23.20	7.98	7.98	7.97	32.77	32.77	32.79	81.3	80.3	80.8	5.75	5.68	5.72	5.68	5.76	5.58	11	11.50
	9:21		Middle	2.5	23.20	23.20		7.96	7.96		32.80	32.80		81.7	80.0		5.78	5.66		5.44	5.45		12	
2/12/2011	14:22	Fine	Middle	2.5	21.30	21.30	21.20	8.02	8.02	8.03	32.80	32.80	32.80	88.0	86.8	87.8	6.47	6.39	6.47	4.59	4.53	4.15	6	6.00
	14:25		Middle	2.5	21.10	21.10		8.03	8.03		32.80	32.80		89.4	86.8		6.60	6.40		3.76	3.71		6	
5/12/2011	14:50	Cloudy	Middle	3.0	20.40	20.40	20.35	8.12	8.12	8.13	32.71	32.71	32.71	93.5	91.5	92.9	6.97	6.82	6.93	3.35	3.23	3.25	5	5.00
	14:53		Middle	3.0	20.30	20.30		8.13	8.13		32.71	32.71		94.2	92.5		7.03	6.90		3.21	3.19		5	
7/12/2011	16:10	Cloudy	Middle	2.5	22.00	22.00	22.05	8.08	8.08	8.08	32.66	32.66	32.66	91.8	92.5	92.1	6.62	6.67	6.63	3.39	3.61	3.62	6	5.50
	16:13		Middle	2.5	22.10	22.10		8.07	8.07		32.65	32.65		92.2	91.7		6.60	6.61		3.58	3.88		5	
9/12/2011	16:13	Cloudy	Middle	2.5	19.30	19.30	19.20	8.13	8.13	8.13	32.49	32.49	32.50	91.0	89.2	90.5	6.96	6.85	6.93	4.04	4.22	4.20	6	6.50
	16:17		Middle	2.5	19.10	19.10		8.13	8.13		32.50	32.50		91.4	90.2		7.00	6.92		4.48	4.07		7	
13/12/2011	9:13	Fine	Middle	2.5	19.20	19.20	19.20	8.06	8.06	8.07	32.29	32.29	32.29	88.6	87.4	87.9	6.78	6.69	6.73	3.35	3.21	3.10	2	2.00
	9:15		Middle	2.5	19.20	19.20		8.07	8.07		32.29	32.29		88.5	87.1		6.78	6.68		2.89	2.93		2	
15/12/2011	9:19	Fine	Middle	2.0	20.00	20.00	20.00	8.11	8.11	8.11	32.10	32.10	32.11	94.8	91.7	93.1	7.13	6.89	7.00	3.91	3.84	3.69	7	7.00
	9:22		Middle	2.0	20.00	20.00		8.10	8.10		32.11	32.11		93.5	92.2		7.03	6.93		3.56	3.46		7	
17/12/2011	9:35	Fine	Middle	2.5	18.60	18.60	18.55	8.03	8.03	8.04	32.21	32.21	32.22	87.1	85.5	86.5	6.73	6.61	6.69	2.92	3.26	2.89	3	4.00
	9:38		Middle	2.5	18.50	18.50		8.04	8.04		32.22	32.22		87.0	86.3		6.73	6.68		2.73	2.65		5	
19/12/2011	15:35	Fine	Middle	2.5	19.00	19.00	19.00	8.08	8.80	8.47	32.17	32.17	32.18	93.4	91.9	93.2	7.16	7.05	7.15	3.67	3.18	3.28	5	5.50
	15:38		Middle	2.5	19.00	19.00		8.09	8.90		32.18	32.18		94.6	93.0		7.25	7.13		3.27	3.00		6	
21/12/2011	15:20	Cloudy	Middle	2.5	19.90	19.90	19.95	8.10	8.10	8.10	32.07	32.07	32.05	98.2	96.7	97.7	7.38	7.26	7.32	1.60	1.49	1.40	4	3.50
	15:23		Middle	2.5	20.00	20.00		8.10	8.10		32.03	32.03		98.4	97.5		7.35	7.28		1.26	1.24		3	
23/12/2011	16:40	Fine	Middle	2.5	18.70	18.70	18.65	8.09	8.09	8.09	32.13	32.13	32.13	93.4	91.2	92.4	7.21	7.04	7.13	3.12	3.30	3.09	8	9.00
	16:42		Middle	2.5	18.60	18.60		8.09	8.09		32.13	32.13		93.7	91.3		7.23	7.05		2.99	2.96		10	
26/12/2011	9:43	Cloudy	Middle	2.5	17.61	17.61	17.61	7.87	7.87	7.87	31.57	31.57	31.57	64.1	64.2	64.2	5.06	5.70	5.23	2.57	2.38	2.47	3	3.50
	9:44		Middle	2.5	17.61	17.61		7.87	7.87		31.57	31.57		64.2	64.2		5.07	5.07		2.48	2.43		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	9:52	Cloudy	Middle	2.5	23.20	23.20	23.25	7.99	7.99	7.99	32.87	32.87	32.88	84.0	82.9	83.7	5.93	5.85	5.90	5.69	5.36	5.59	9	8.50
	9:54		Middle	2.5	23.30	23.30		7.99	7.99		32.89	32.89		85.0	82.9		6.00	5.82		5.75	5.56		8	
30/11/2011	9:48	Fine	Middle	2.0	23.20	23.20	23.25	7.96	7.96	7.96	32.76	32.76	32.78	79.1	76.5	78.3	5.58	5.40	5.52	3.94	4.01	3.89	8	10.50
	9:51		Middle	2.0	23.30	23.30		7.96	7.96		32.79	32.79		79.4	78.0		5.60	5.51		3.84	3.77		13	
2/12/2011	13:51	Fine	Middle	2.5	21.80	21.80	21.75	8.10	8.10	8.10	32.81	32.81	32.81	93.1	91.4	92.0	6.76	6.64	6.69	4.70	4.31	4.55	8	8.00
	13:54		Middle	2.5	21.70	21.70		8.10	8.10		32.81	32.81		92.8	90.6		6.75	6.59		4.66	4.51		8	
5/12/2011	14:03	Cloudy	Middle	2.5	20.80	20.80	20.80	8.14	8.14	8.14	32.85	32.85	32.85	93.9	91.8	93.1	6.95	6.79	6.89	3.50	3.37	3.34	5	5.50
	14:05		Middle	2.5	20.80	20.80		8.14	8.14		32.85	32.85		94.2	92.4		6.97	6.84		3.31	3.19		6	
7/12/2011	15:40	Cloudy	Middle	2.0	22.10	22.10	22.15	8.12	8.12	8.12	32.80	32.80	32.81	92.8	93.0	93.0	6.67	6.69	6.69	3.28	3.69	3.76	7	6.50
	15:43		Middle	2.0	22.20	22.20		8.12	8.12		32.81	32.81		92.9	93.2		6.68	6.70		3.36	4.70		6	
9/12/2011	15:27	Cloudy	Middle	3.0	20.00	20.00	19.95	8.13	8.13	8.14	32.50	32.50	32.50	94.6	93.7	94.5	7.12	7.02	7.12	3.83	4.04	4.04	7	6.50
	15:30		Middle	3.0	19.90	19.90		8.14	8.14		32.50	32.50		95.4	94.4		7.20	7.13		4.20	4.07		6	
13/12/2011	8:17	Fine	Middle	2.5	19.10	19.10	19.05	8.07	8.07	8.07	32.31	32.31	32.31	89.3	86.9	88.5	6.82	6.65	6.76	3.88	3.65	3.45	3	3.00
	8:20		Middle	2.5	19.00	19.00		8.07	8.07		32.31	32.31		89.7	87.9		6.86	6.72		3.11	3.16		3	
15/12/2011	9:53	Fine	Middle	2.0	20.00	20.00	20.05	8.02	8.02	8.03	32.18	32.18	32.19	84.9	83.1	84.4	6.38	6.25	6.34	4.65	4.74	4.80	9	8.50
	9:55		Middle	2.0	20.10	20.10		8.03	8.03		32.19	32.19		85.7	83.7		6.44	6.28		5.08	4.73		8	
17/12/2011	10:08	Fine	Middle	2.5	19.00	19.00	18.95	8.12	8.12	8.12	32.25	32.25	32.25	88.8	89.5	89.0	6.81	6.86	6.82	2.83	2.89	3.05	7	9.50
	10:10		Middle	2.5	18.90	18.90		8.12	8.12		32.24	32.24		89.3	88.3		6.85	6.77		3.33	3.16		12	
19/12/2011	14:43	Fine	Middle	2.5	19.50	19.50	19.50	8.21	8.21	8.20	32.34	32.34	32.35	98.5	97.7	97.3	7.46	7.40	7.37	3.07	3.19	3.20	5	5.50
	14:45		Middle	2.5	19.50	19.50		8.19	8.19		32.35	32.35		97.6	95.3		7.39	7.22		3.52	3.02		6	
21/12/2011	14:45	Cloudy	Middle	2.5	19.40	19.40	19.45	8.15	8.15	8.15	32.22	32.22	32.22	98.4	97.5	97.9	7.46	7.38	7.42	1.68	1.62	1.65	5	5.50
	14:48		Middle	2.5	19.50	19.50		8.14	8.14		32.22	32.22		98.8	96.9		7.48	7.34		1.65	1.66		6	
23/12/2011	16:10	Fine	Middle	3.0	18.90	18.90	18.85	8.13	8.13	8.13	32.15	32.15	32.15	96.5	95.1	95.3	7.42	7.31	7.33	3.14	3.18	3.08	7	8.00
	16:12		Middle	3.0	18.80	18.80		8.13	8.13		32.15	32.15		95.7	94.0		7.36	7.23		3.11	2.87		9	
26/12/2011	11:20	Cloudy	Middle	2.5	17.52	17.52	17.50	7.82	7.82	7.83	31.51	31.51	31.51	60.9	60.9	60.5	4.82	4.82	4.76	3.89	4.23	4.20	3	3.50
	11:21		Middle	2.5	17.47	17.47		7.83	7.83		31.51	31.51		60.1	60.0		4.70	4.70		4.27	4.42		4	

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

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	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	10:25	Cloudy	Middle	2.5	22.50	22.50	22.50	8.04	8.04	8.05	32.98	32.98	32.99	87.7	85.6	87.0	6.28	6.12	6.22	7.84	7.51	7.47	9	11.00
	10:27		Middle	2.5	22.50	22.50		8.05	8.05		32.99	32.99		88.3	86.2		6.32	6.17		7.44	7.08		13	
30/11/2011	10:15	Fine	Middle	2.5	23.10	23.10	23.15	7.99	7.99	7.99	32.86	32.86	32.86	80.7	79.7	80.4	5.71	5.64	5.69	4.42	4.60	4.44	<2	10.00
	10:17		Middle	2.5	23.20	23.20		7.99	7.99		32.86	32.86		81.3	79.8		5.75	5.64		4.35	4.38		10	
2/12/2011	13:15	Fine	Middle	2.5	20.70	20.70	20.60	8.11	8.11	8.12	32.83	32.83	32.84	90.9	89.6	90.4	6.75	6.65	6.72	5.30	5.11	5.23	12	10.00
	13:17		Middle	2.5	20.50	20.50		8.12	8.12		32.84	32.84		91.2	89.8		6.78	6.68		5.30	5.21		8	
5/12/2011	13:33	Cloudy	Middle	3.0	20.70	20.70	20.65	8.13	8.13	8.13	32.81	32.81	32.81	93.9	93.5	93.7	6.95	6.93	6.95	3.93	3.55	3.63	5	4.50
	13:35		Middle	3.0	20.60	20.60		8.13	8.13		32.81	32.81		94.1	93.4		6.98	6.92		3.47	3.57		4	
7/12/2011	15:15	Cloudy	Middle	2.0	21.90	21.90	21.95	8.11	8.11	8.12	32.84	32.84	32.84	93.2	93.5	93.6	6.72	6.75	6.76	3.67	4.32	3.86	6	5.50
	15:18		Middle	2.0	22.00	22.00		8.12	8.12		32.83	32.83		93.7	94.0		6.76	6.79		3.71	3.72		5	
9/12/2011	14:56	Cloudy	Middle	3.0	19.90	19.90	19.80	8.12	8.12	8.12	32.29	32.29	32.30	92.2	91.3	91.9	6.96	6.89	6.95	2.96	2.79	2.72	3	6.00
	14:59		Middle	3.0	19.70	19.70		8.12	8.12		32.30	32.30		92.6	91.6		7.00	6.93		2.56	2.56		9	
13/12/2011	7:45	Fine	Middle	2.5	18.60	18.60	18.55	8.09	8.09	8.09	32.38	32.38	32.38	88.8	86.9	87.7	6.85	6.71	6.78	4.56	4.46	4.36	10	**19.00**
	7:47		Middle	2.5	18.50	18.50		8.09	8.09		32.38	32.38		88.5	86.7		6.84	6.70		4.34	4.08		28	
15/12/2011	10:22	Fine	Middle	2.5	19.80	19.80	19.85	8.08	8.08	8.08	32.32	32.32	32.32	87.1	84.8	86.4	6.55	6.37	6.50	4.18	4.17	4.07	12	8.50
	10:24		Middle	2.5	19.90	19.90		8.08	8.08		32.32	32.32		87.7	85.9		6.59	6.49		4.01	3.92		5	
17/12/2011	10:45	Fine	Middle	2.5	18.40	18.40	18.35	8.10	8.10	8.10	32.33	32.33	32.33	91.3	89.7	90.3	7.08	6.98	7.01	4.05	4.05	4.01	8	7.00
	10:47		Middle	2.5	18.30	18.30		8.09	8.09		32.33	32.33		91.0	89.1		7.06	6.91		4.29	3.64		6	
19/12/2011	11:45	Fine	Middle	2.5	18.60	18.60	18.60	8.16	8.16	8.15	32.25	32.25	32.25	91.5	89.8	89.9	7.06	6.93	6.94	3.17	3.01	3.10	5	6.00
	11:47		Middle	2.5	18.60	18.60		8.14	8.14		32.25	32.25		90.1	88.3		6.96	6.82		3.25	2.97		7	
21/12/2011	14:15	Cloudy	Middle	2.5	19.90	19.90	19.95	8.13	8.13	8.13	32.27	32.27	32.28	98.7	97.2	98.0	7.42	7.30	7.37	1.84	2.50	2.00	5	5.50
	14:18		Middle	2.5	20.00	20.00		8.12	8.12		32.28	32.28		98.9	97.3		7.43	7.31		1.73	1.92		6	
23/12/2011	15:45	Fine	Middle	3.0	18.90	18.90	18.90	8.12	8.12	8.12	32.17	32.17	32.18	95.2	93.2	94.3	7.30	7.15	7.23	3.62	3.61	3.61	5	5.50
	15:47		Middle	3.0	18.90	18.90		8.11	8.11		32.18	32.18		95.3	93.4		7.31	7.16		3.51	3.69		6	
26/12/2011	8:27	Cloudy	Middle	2.5	16.90	16.90	16.90	8.22	8.22	8.22	31.60	31.60	31.60	64.6	64.6	64.6	5.17	5.17	5.17	2.93	2.97	2.93	4	4.00
	8:28		Middle	2.5	16.90	16.90		8.22	8.22		31.60	31.60		64.6	64.6		5.17	5.17		2.84	2.96		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	10:52	Cloudy	Middle	2.5	22.50	22.50	22.45	8.04	8.04	8.04	32.97	32.97	32.98	87.8	86.2	86.7	6.29	6.17	6.21	4.98	5.20	5.17	7	8.00
	10:55		Middle	2.5	22.40	22.40		8.04	8.04		32.98	32.98		87.5	85.4		6.27	6.12		5.41	5.10		9	
30/11/2011	10:35	Fine	Middle	2.5	23.10	23.10	23.15	7.93	7.93	7.93	32.82	32.82	32.82	72.8	72.3	72.6	5.16	5.12	5.14	5.36	5.72	5.70	<2	10.00
	10:37		Middle	2.5	23.20	23.20		7.93	7.93		32.81	32.81		73.4	71.7		5.20	5.08		5.77	5.95		10	
2/12/2011	12:52	Fine	Middle	2.5	20.80	20.80	20.80	8.27	8.27	8.27	32.94	32.94	32.95	92.6	90.8	91.8	6.83	6.70	6.78	4.68	4.72	4.69	7	7.50
	12:54		Middle	2.5	20.80	20.80		8.26	8.26		32.95	32.95		92.4	91.4		6.82	6.75		4.86	4.51		8	
5/12/2011	13:08	Cloudy	Middle	2.5	21.20	21.20	21.15	8.12	8.12	8.12	32.68	32.68	32.69	93.6	91.9	93.0	6.88	6.75	6.84	5.70	6.06	5.85	8	8.50
	13:10		Middle	2.5	21.10	21.10		8.12	8.12		32.69	32.69		94.0	92.5		6.91	6.80		5.85	5.78		9	
7/12/2011	14:45	Cloudy	Middle	2.0	22.10	22.10	22.15	8.08	8.08	8.07	32.83	32.83	32.83	89.2	89.6	89.6	6.41	6.44	6.44	2.47	2.40	2.40	5	4.50
	14:48		Middle	2.0	22.20	22.20		8.06	8.06		32.82	32.82		90.1	89.5		6.47	6.42		2.32	2.42		4	
9/12/2011	14:30	Cloudy	Middle	2.5	19.90	19.90	19.85	8.30	8.30	8.29	32.32	32.32	32.33	95.3	94.1	93.6	7.18	7.10	7.06	3.32	3.73	3.57	10	9.00
	14:32		Middle	2.5	19.80	19.80		8.28	8.28		32.33	32.33		92.6	92.4		6.99	6.97		3.49	3.73		8	
13/12/2011	7:22	Fine	Middle	2.5	18.60	18.60	18.55	8.04	8.04	8.05	32.31	32.31	32.32	81.9	80.9	81.4	6.34	6.26	6.30	3.94	3.61	3.54	4	4.50
	7:24		Middle	2.5	18.50	18.50		8.05	8.05		32.32	32.32		82.0	80.7		6.35	6.25		3.19	3.41		5	
15/12/2011	10:52	Fine	Middle	2.5	19.50	19.50	19.50	8.07	8.07	8.07	32.32	32.32	32.32	86.4	84.8	85.7	6.56	6.44	6.51	3.44	3.27	3.47	7	6.50
	10:54		Middle	2.5	19.50	19.50		8.07	8.07		32.32	32.32		86.8	84.9		6.59	6.44		3.66	3.50		6	
17/12/2011	11:08	Fine	Middle	3.5	18.50	18.50	18.40	8.04	8.04	8.06	32.16	32.16	32.20	81.6	80.3	81.3	6.34	6.24	6.32	3.60	3.88	3.80	10	9.50
	11:10		Middle	3.5	18.30	18.30		8.08	8.08		32.24	32.24		82.1	81.0		6.39	6.30		4.00	3.70		9	
19/12/2011	12:08	Fine	Middle	2.5	19.00	19.00	19.05	8.10	8.10	8.10	32.20	32.20	32.21	92.1	91.0	91.2	7.04	6.95	6.97	3.69	4.01	4.00	9	9.50
	12:10		Middle	2.5	19.10	19.10		8.09	8.09		32.21	32.21		92.0	89.6		7.03	6.85		4.11	4.18		10	
21/12/2011	13:45	Cloudy	Middle	2.5	20.00	20.10	20.08	8.10	8.10	8.10	32.13	32.13	32.13	93.5	92.0	92.8	6.99	6.88	6.93	1.24	1.45	1.28	7	5.50
	13:47		Middle	2.5	20.10	20.10		8.09	8.09		32.13	32.13		93.2	92.5		6.96	6.90		1.19	1.22		4	
23/12/2011	15:27	Fine	Middle	2.5	19.10	19.10	19.10	8.08	8.08	8.08	32.12	32.12	32.12	91.0	90.1	90.7	6.96	6.90	6.94	2.85	3.15	2.93	4	7.50
	15:29		Middle	2.5	19.10	19.10		8.08	8.08		32.12	32.12		91.7	90.0		7.02	6.88		2.96	2.77		11	
26/12/2011	8:02	Cloudy	Middle	2.5	17.09	17.09	17.09	8.20	8.20	8.20	31.60	31.60	31.60	69.8	69.8	69.8	5.56	5.57	5.57	3.13	3.16	3.15	7	6.50
	8:03		Middle	2.5	17.09	17.09		8.19	8.20		31.60	31.60		69.8	69.8		5.57	5.57		3.15	3.16		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	11:30	Cloudy	Middle	2.5	22.70	22.70	22.65	7.93	7.93	7.94	32.10	32.10	32.05	89.9	89.4	88.3	6.47	6.42	6.35	6.71	6.84	6.76	15	13.50
	11:33		Middle	2.5	22.60	22.60		7.94	7.94		32.00	32.00		86.1	87.8		6.20	6.29		6.76	6.71		12	
30/11/2011	12:38	Fine	Middle	2.5	23.30	23.30	23.35	7.88	7.88	7.88	31.90	31.90	31.90	87.0	86.4	85.9	6.21	6.13	6.13	7.00	6.47	6.52	10	10.50
	12:39		Middle	2.5	23.40	23.40		7.87	7.87		31.90	31.90		85.2	84.8		6.09	6.08		6.45	6.14		11	
2/12/2011	13:10	Fine	Middle	3.0	21.50	21.50	21.50	7.99	7.99	7.99	32.00	32.00	32.00	91.8	91.6	91.6	6.65	6.63	6.61	10.20	8.77	**9.36**	11	10.50
	13:13		Middle	3.0	21.50	21.50		7.99	7.99		32.00	32.00		91.5	91.3		6.59	6.56		9.32	9.13		10	
5/12/2011	13:05	Cloudy	Middle	2.0	21.30	21.30	21.30	8.01	8.01	8.01	31.90	31.90	31.90	92.4	92.1	92.0	6.80	6.75	6.74	8.28	6.97	7.37	10	9.00
	13:07		Middle	2.0	21.30	21.30		8.01	8.01		31.90	31.90		91.8	91.8		6.72	6.69		6.95	7.27		8	
7/12/2011	14:20	Cloudy	Middle	3.0	22.10	22.10	22.10	7.98	7.98	7.98	31.60	31.60	31.60	89.1	88.8	88.7	6.66	6.63	6.61	6.93	6.75	6.76	9	10.00
	14:23		Middle	3.0	22.10	22.10		7.98	7.98		31.60	31.60		88.5	88.4		6.60	6.54		6.32	7.03		11	
9/12/2011	14:28	Cloudy	Middle	2.5	20.20	20.20	20.20	8.06	8.06	8.06	31.50	31.50	31.50	94.2	94.0	94.0	7.12	7.10	7.10	8.30	8.82	8.67	12	13.00
	14:30		Middle	2.5	20.20	20.20		8.06	8.06		31.50	31.50		94.0	93.9		7.10	7.08		8.77	8.77		14	
13/12/2011	10:17	Fine	Middle	2.5	19.00	19.00	19.00	7.97	7.97	7.96	31.90	31.90	31.85	93.1	93.0	92.8	7.16	7.14	7.11	5.27	5.50	5.29	5	5.00
	10:19		Middle	2.5	19.00	19.00		7.94	7.94		31.80	31.80		92.7	92.5		7.08	7.06		4.97	5.42		5	
15/12/2011	11:58	Fine	Middle	3.0	20.10	20.10	20.15	7.92	7.92	7.93	31.80	31.80	31.85	78.8	78.1	78.2	5.98	5.93	5.94	7.68	7.75	7.49	9	9.00
	12:00		Middle	3.0	20.20	20.20		7.93	7.93		31.90	31.90		78.4	77.4		5.95	5.89		7.35	7.16		9	
17/12/2011	11:50	Fine	Middle	2.5	19.00	19.00	19.00	8.00	8.00	7.99	31.70	31.70	31.70	87.9	87.5	87.4	6.88	6.85	6.85	7.59	7.62	7.66	5	5.00
	11:52		Middle	2.5	19.00	19.00		7.97	7.97		31.70	31.70		87.3	87.0		6.84	6.82		7.55	7.87		5	
19/12/2011	12:05	Fine	Middle	2.5	18.90	118.90	43.90	7.99	7.99	7.99	31.60	31.60	31.65	89.3	89.0	88.7	6.90	6.85	6.82	6.23	6.79	6.10	10	9.00
	12:08		Middle	2.5	18.90	18.90		7.98	7.98		31.70	31.70		88.5	88.1		6.79	6.74		5.59	5.79		8	
21/12/2011	14:00	Cloudy	Middle	3.0	20.00	20.00	20.10	7.98	7.98	7.97	31.50	31.50	31.50	90.8	90.6	90.5	6.92	6.88	6.86	7.32	7.30	7.03	11	11.50
	14:02		Middle	3.0	20.20	20.20		7.96	7.96		31.50	31.50		90.4	90.0		6.84	6.78		6.61	6.90		12	
23/12/2011	15:17	Fine	Middle	3.0	19.10	19.10	19.10	8.11	8.11	8.16	30.60	30.60	30.50	80.5	80.8	79.9	6.26	6.21	6.17	4.87	4.41	4.65	10	11.00
	15:19		Middle	3.0	19.10	19.10		8.21	8.21		30.40	30.40		80.1	78.0		6.14	6.05		4.48	4.84		12	
26/12/2011	7:45	Cloudy	Middle	2.0	17.15	17.15	17.15	8.13	8.13	8.13	31.36	31.36	31.36	71.5	71.5	71.5	5.70	5.70	5.70	6.42	5.93	5.99	12	12.50
	7:46		Middle	2.0	17.15	17.15		8.13	8.13		31.36	31.36		71.4	71.4		5.70	5.69		5.94	5.68		13	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	11:20	Cloudy	Middle	2.5	23.10	23.10	23.15	7.91	7.91	7.91	32.10	32.10	32.15	84.1	82.1	82.0	5.99	5.85	5.85	10.20	9.92	**9.78**	14	13.50
	11:23		Middle	2.5	23.20	23.20		7.90	7.90		32.20	32.20		81.0	80.7		5.82	5.75		9.61	9.37		13	
30/11/2011	12:30	Fine	Middle	2.5	23.40	23.40	23.45	7.87	7.87	7.88	31.90	31.90	31.90	78.5	78.0	77.6	5.59	5.56	5.53	6.52	7.60	6.77	8	9.00
	12:32		Middle	2.5	23.50	23.50		7.88	7.88		31.90	31.90		77.2	76.8		5.50	5.45		6.53	6.43		10	
2/12/2011	13:15	Fine	Middle	2.5	21.30	21.30	21.30	7.99	7.99	7.99	32.00	32.00	32.00	92.6	92.4	92.2	6.84	6.82	6.80	8.33	9.54	**9.42**	12	12.00
	13:18		Middle	2.5	21.30	21.30		7.99	7.99		32.00	32.00		91.9	91.8		6.78	6.77		10.02	9.77		12	
5/12/2011	13:10	Cloudy	Middle	2.5	21.00	21.00	21.00	8.03	8.03	8.03	31.90	31.90	31.90	94.6	94.1	94.1	7.07	7.01	6.99	7.70	7.50	7.52	10	10.50
	13:12		Middle	2.5	21.00	21.00		8.03	8.03		31.90	31.90		94.0	93.7		6.95	6.94		7.75	7.11		11	
7/12/2011	14:27	Cloudy	Middle	2.5	21.70	21.70	21.70	7.98	7.98	7.98	31.80	31.80	31.80	89.6	89.4	89.3	6.48	6.46	6.46	7.78	8.00	7.83	10	11.00
	14:29		Middle	2.5	21.70	21.70		7.98	7.98		31.80	31.80		89.1	88.9		6.45	6.44		8.01	7.54		12	
9/12/2011	14:43	Cloudy	Middle	3.0	19.80	19.80	19.80	8.08	8.08	8.08	31.60	31.60	31.61	97.6	97.5	97.4	7.49	7.46	7.45	7.75	8.61	8.00	13	14.00
	14:45		Middle	3.0	19.80	19.80		8.08	8.08		31.61	31.61		97.3	97.1		7.44	7.42		7.58	8.04		15	
13/12/2011	10:22	Fine	Middle	2.5	19.20	19.20	19.15	7.98	7.98	7.97	31.80	31.80	31.80	91.6	91.4	91.4	7.11	7.08	7.07	6.61	6.02	6.03	9	9.00
	10:24		Middle	2.5	19.10	19.10		7.96	7.96		31.80	31.80		91.4	91.0		7.08	7.02		5.61	5.86		9	
15/12/2011	12:05	Fine	Middle	2.5	19.80	19.80	19.85	7.92	7.92	7.93	31.60	31.60	31.60	89.4	88.7	88.4	6.83	6.75	6.74	5.50	5.39	5.41	6	7.00
	12:08		Middle	2.5	19.90	19.90		7.93	7.93		31.60	31.60		87.9	87.6		6.73	6.66		5.33	5.41		8	
17/12/2011	11:58	Fine	Middle	2.0	18.70	18.70	18.60	8.02	8.02	8.02	31.70	31.70	31.70	90.0	89.7	89.6	7.05	6.99	6.98	6.34	7.14	6.94	11	11.00
	12:00		Middle	2.0	18.50	18.50		8.02	8.02		31.70	31.70		89.4	89.1		6.96	6.93		7.13	7.15		11	
19/12/2011	12:17	Fine	Middle	2.5	18.30	18.30	18.40	8.00	8.00	8.00	31.60	31.60	31.50	88.5	88.3	88.2	7.00	6.96	6.95	6.49	6.98	6.52	11	10.00
	12:20		Middle	2.5	18.50	18.50		8.00	8.00		31.40	31.40		88.0	87.8		6.92	6.90		5.96	6.63		9	
21/12/2011	14:07	Cloudy	Middle	2.5	19.40	19.40	19.30	8.02	8.02	8.01	31.50	31.50	31.50	89.1	89.1	88.9	6.82	6.82	6.79	5.85	6.14	6.09	10	10.50
	14:09		Middle	2.5	19.20	19.20		8.00	8.00		31.50	31.50		88.6	88.6		6.76	6.76		6.27	6.09		11	
23/12/2011	15:26	Fine	Middle	2.5	18.80	18.80	18.75	8.29	8.29	8.29	30.60	30.60	30.70	82.4	82.0	82.3	6.42	6.36	6.39	4.52	4.89	4.50	7	8.00
	15:28		Middle	2.5	18.70	18.70		8.29	8.29		30.80	30.80		82.4	82.3		6.38	6.39		4.17	4.40		9	
26/12/2011	7:34	Cloudy	Middle	2.0	17.16	17.16	17.16	8.10	8.10	8.10	31.28	31.28	31.28	71.2	71.2	71.2	5.68	5.68	5.68	5.53	6.02	5.81	2	6.50
	7:35		Middle	2.0	17.16	17.16		8.10	8.10		31.28	31.28		71.2	71.2		5.68	5.68		6.03	5.66		11	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	11:10	Cloudy	Middle	1.5	23.60	23.60	23.65	7.81	7.81	7.82	31.70	31.70	31.75	74.6	73.0	72.9	5.29	5.22	5.18	4.93	4.50	4.61	6	6.50
	11:13		Middle	1.5	23.70	23.70		7.82	7.82		31.80	31.80		72.5	71.4		5.13	5.09		4.73	4.27		7	
30/11/2011	12:16	Fine	Middle	1.5	23.90	23.90	23.90	7.80	7.80	7.80	31.40	31.40	31.40	81.1	80.6	79.2	5.74	5.69	5.60	3.75	3.21	3.30	3	4.00
	12:18		Middle	1.5	23.90	23.90		7.80	7.80		31.40	31.40		77.6	77.3		5.51	5.46		3.10	3.13		5	
2/12/2011	13:30	Fine	Middle	1.5	23.30	23.30	23.30	7.74	7.74	7.74	31.20	31.20	31.20	81.9	80.3	80.6	6.22	6.10	6.12	5.03	5.07	4.99	6	7.00
	13:33		Middle	1.5	23.30	23.30		7.74	7.74		31.20	31.20		80.1	79.9		6.08	6.07		5.01	4.83		8	
5/12/2011	13:22	Cloudy	Middle	1.5	21.20	21.20	21.20	7.90	7.90	7.90	31.40	31.40	31.40	86.7	86.5	86.4	6.32	6.28	6.28	3.72	3.76	3.88	5	5.00
	13:25		Middle	1.5	21.20	21.20		7.90	7.90		31.40	31.40		86.3	86.0		6.25	6.25		4.04	4.01		5	
7/12/2011	13:58	Cloudy	Middle	1.5	22.70	22.70	22.70	7.89	7.89	7.89	31.20	31.20	31.20	88.8	88.6	88.7	6.27	6.23	6.24	4.60	4.55	4.66	7	7.00
	14:00		Middle	1.5	22.70	22.70		7.89	7.89		31.20	31.20		88.8	88.4		6.27	6.19		4.62	4.86		7	
9/12/2011	14:58	Cloudy	Middle	1.5	20.00	20.00	20.00	7.89	7.89	7.89	31.21	31.21	31.21	92.0	91.7	91.7	6.69	6.65	6.65	2.79	3.08	2.85	3	3.50
	15:00		Middle	1.5	20.00	20.00		7.89	7.89		31.20	31.20		91.6	91.5		6.64	6.63		2.89	2.62		4	
13/12/2011	10:00	Fine	Middle	1.5	19.20	19.20	19.20	7.91	7.91	7.91	31.40	31.40	31.40	85.4	85.2	85.1	6.78	6.76	6.74	3.25	3.24	3.24	4	3.50
	10:02		Middle	1.5	19.20	19.20		7.91	7.91		31.40	31.40		85.1	84.8		6.72	6.69		3.30	3.15		3	
15/12/2011	11:32	Fine	Middle	1.5	20.30	20.30	20.35	8.01	8.01	8.00	31.79	31.79	31.80	55.7	54.7	55.6	4.16	4.09	4.15	3.48	3.05	3.28	6	5.50
	11:34		Middle	1.5	20.40	20.40		7.99	7.99		31.80	31.80		56.6	55.2		4.22	4.12		3.36	3.21		5	
17/12/2011	11:37	Fine	Middle	1.5	18.90	18.90	18.95	7.89	7.89	7.89	31.30	31.30	31.35	78.2	77.8	77.8	6.04	6.00	6.00	2.47	2.41	2.45	4	4.50
	11:39		Middle	1.5	19.00	19.00		7.89	7.89		31.40	31.40		77.6	77.5		5.98	5.97		2.49	2.41		5	
19/12/2011	11:47	Fine	Middle	1.5	19.90	19.90	19.80	7.89	7.89	7.90	31.00	31.00	31.10	87.4	87.1	87.0	6.71	6.67	6.67	4.88	3.97	4.21	7	6.50
	11:49		Middle	1.5	19.70	19.70		7.90	7.90		31.20	31.20		86.8	86.5		6.65	6.63		3.96	4.01		6	
21/12/2011	14:17	Cloudy	Middle	1.5	20.10	20.10	20.10	7.90	7.90	7.88	30.80	30.80	30.65	82.2	82.0	81.7	6.21	6.18	6.13	5.09	5.27	5.14	6	9.00
	14:19		Middle	1.5	20.10	20.10		7.86	7.86		30.50	30.50		81.6	81.1		6.10	6.01		5.10	5.08		12	
23/12/2011	15:43	Fine	Middle	1.5	18.80	18.80	18.85	8.46	8.46	8.46	30.40	30.40	30.50	59.3	57.8	58.1	4.60	4.49	4.51	5.75	5.60	5.69	9	8.50
	15:45		Middle	1.5	18.90	18.90		8.45	8.45		30.60	30.60		57.7	57.5		4.47	4.46		6.09	5.31		8	
26/12/2011	7:11	Cloudy	Middle	1.5	17.29	17.29	17.29	8.06	8.06	8.06	31.14	31.14	31.14	62.8	62.7	62.6	5.00	5.00	4.99	2.39	2.66	2.40	4	3.50
	7:12		Middle	1.5	17.29	17.29		8.06	8.06		31.14	31.14		62.5	62.5		4.98	4.98		2.31	2.25		3	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	9:10	Cloudy	Middle	2.0	23.00	23.00	23.00	7.87	7.87	7.87	32.00	32.00	32.00	84.9	84.8	84.7	6.12	6.08	6.06	6.98	6.50	6.82	12	13.00
	9:13		Middle	2.0	23.00	23.00		7.87	7.87		32.00	32.00		84.5	84.4		6.02	6.00		6.50	7.31		14	
30/11/2011	10:40	Fine	Middle	2.0	24.10	24.10	24.15	7.85	7.85	7.85	31.90	31.90	31.90	81.1	80.7	80.5	5.67	5.63	5.62	6.03	5.53	5.50	9	9.50
	10:43		Middle	2.0	24.20	24.20		7.84	7.84		31.90	31.90		80.3	79.7		5.62	5.57		4.92	5.52		10	
2/12/2011	14:57	Fine	Middle	2.0	21.70	21.70	21.70	7.94	7.94	7.94	32.20	32.20	32.20	92.9	92.5	92.5	6.87	6.85	6.85	3.59	4.72	3.88	6	5.50
	15:00		Middle	2.0	21.70	21.70		7.94	7.94		32.20	32.20		92.4	92.0		6.85	6.84		3.67	3.52		5	
5/12/2011	14:11	Cloudy	Middle	2.5	21.40	21.40	21.30	7.96	7.96	7.96	31.70	31.70	31.70	88.2	87.5	87.1	6.54	6.51	6.47	5.76	5.42	5.43	6	6.00
	14:13		Middle	2.5	21.20	21.20		7.96	7.96		31.70	31.70		86.5	86.1		6.42	6.41		5.38	5.15		6	
7/12/2011	15:32	Cloudy	Middle	2.5	22.10	22.10	22.10	7.91	7.91	7.91	31.70	31.70	31.70	92.6	92.4	92.2	6.60	6.59	6.57	3.49	3.11	3.33	6	5.50
	15:34		Middle	2.5	22.10	22.10		7.91	7.91		31.70	31.70		92.0	91.8		6.55	6.55		3.48	3.22		5	
9/12/2011	16:04	Cloudy	Middle	2.5	19.60	19.60	19.60	8.02	8.02	8.02	31.60	31.60	31.60	94.9	94.8	94.6	7.20	7.19	7.18	3.17	2.81	3.00	4	5.50
	16:06		Middle	2.5	19.60	19.60		8.02	8.02		31.60	31.60		94.5	94.3		7.18	7.16		3.06	2.94		7	
13/12/2011	9:11	Fine	Middle	1.5	18.90	18.90	18.90	7.94	7.94	7.94	31.90	31.90	31.90	95.9	95.8	95.7	7.52	7.47	7.48	3.90	3.85	3.83	4	4.00
	9:13		Middle	1.5	18.90	18.90		7.94	7.94		31.90	31.90		95.8	95.4		7.47	7.44		4.08	3.48		4	
15/12/2011	10:40	Fine	Middle	1.5	21.10	21.10	21.05	7.87	7.87	7.88	31.50	31.50	31.60	91.6	90.4	89.5	6.93	6.85	6.78	5.51	4.71	5.28	10	10.50
	10:43		Middle	1.5	21.00	21.00		7.88	7.88		31.70	31.70		88.2	87.6		6.68	6.65		5.88	5.01		11	
17/12/2011	10:36	Fine	Middle	1.5	19.00	19.00	19.00	7.93	7.93	7.94	31.70	31.70	31.60	90.7	90.4	90.4	6.99	6.95	6.96	3.63	3.60	3.63	8	7.50
	10:38		Middle	1.5	19.00	19.00		7.95	7.95		31.50	31.50		90.3	90.1		6.96	6.94		3.46	3.83		7	
19/12/2011	15:40	Fine	Middle	1.0	18.80	18.80	18.70	7.92	7.92	7.91	31.60	31.60	31.60	91.9	91.8	91.7	7.18	7.17	7.16	2.76	2.40	2.65	3	3.00
	15:42		Middle	1.0	18.60	18.60		7.90	7.90		31.60	31.60		91.7	91.5		7.16	7.13		2.79	2.64		3	
21/12/2011	15:18	Cloudy	Middle	1.5	19.70	19.70	19.60	7.94	7.94	7.94	31.60	31.60	31.50	90.4	90.1	90.1	6.88	6.86	6.86	2.71	2.62	2.73	6	5.50
	15:20		Middle	1.5	19.50	19.50		7.93	7.93		31.40	31.40		90.0	89.9		6.85	6.84		2.87	2.70		5	
23/12/2011	16:33	Fine	Middle	2.5	18.70	18.70	18.65	8.12	8.12	8.11	30.60	30.60	30.50	56.1	55.4	55.4	4.35	4.31	4.31	2.17	2.22	2.00	5	9.50
	16:35		Middle	2.5	18.60	18.60		8.10	8.10		30.40	30.40		55.0	55.1		4.28	4.29		1.76	1.85		14	
26/12/2011	7:42	Cloudy	Middle	2.0	16.80	16.80	16.75	7.87	7.87	7.87	30.60	30.60	30.60	72.3	69.5	68.4	5.84	5.62	5.52	3.67	3.12	3.49	5	5.00
	7:44		Middle	2.0	16.70	16.70		7.86	7.86		30.60	30.60		66.6	65.0		5.38	5.25		3.86	3.30		5	

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

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

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	6:50	Cloudy	Middle	0.5	22.40	22.40	22.40	7.86	7.86	7.86	32.10	32.10	32.10	85.7	85.5	85.5	6.13	6.10	6.09	6.87	5.55	5.73	13	12.00
	6:53		Middle	0.5	22.40	22.40		7.86	7.86		32.10	32.10		85.4	85.3		6.08	6.06		5.46	5.02		11	
30/11/2011	9:27	Fine	Middle	1.0	23.30	23.30	23.30	7.42	7.42	7.42	32.00	32.00	32.00	93.8	93.6	93.5	6.44	6.43	6.42	4.83	4.94	4.55	9	8.50
	9:30		Middle	1.0	23.30	23.30		7.42	7.42		32.00	32.00		93.5	93.2		6.41	6.40		4.25	4.18		8	
2/12/2011	15:49	Fine	Middle	1.0	21.90	21.90	21.90	7.93	7.93	7.93	32.00	32.00	32.00	92.3	92.4	92.2	7.03	7.01	6.99	2.93	2.60	2.63	3	3.50
	15:52		Middle	1.0	21.90	21.90		7.93	7.93		32.00	32.00		92.1	91.8		6.96	6.96		2.54	2.43		4	
5/12/2011	14:59	Cloudy	Middle	1.5	21.80	21.80	21.80	7.95	7.95	7.96	31.80	31.80	31.80	86.7	86.5	86.4	6.40	6.38	6.37	3.86	3.48	3.40	7	6.50
	15:02		Middle	1.5	21.80	21.80		7.96	7.96		31.80	31.80		86.2	86.1		6.36	6.35		3.12	3.13		6	
7/12/2011	16:13	Cloudy	Middle	2.5	22.30	22.30	22.30	7.92	7.92	7.92	31.90	31.90	31.90	91.4	91.3	91.2	6.50	6.48	6.47	1.74	1.86	1.83	4	4.50
	16:15		Middle	2.5	22.30	22.30		7.92	7.92		31.90	31.90		91.2	91.0		6.45	6.45		2.04	1.68		5	
9/12/2011	17:24	Cloudy	Middle	1.5	19.20	19.20	19.20	8.03	8.03	8.03	31.60	31.60	31.60	89.9	89.9	89.7	7.04	7.04	7.03	2.16	2.46	2.29	8	9.00
	17:26		Middle	1.5	19.20	19.20		8.03	8.03		31.60	31.60		89.5	89.4		7.03	7.02		2.23	2.31		10	
13/12/2011	7:56	Fine	Middle	1.0	19.60	19.60	19.60	8.05	8.05	8.05	31.50	31.50	31.50	92.4	92.2	92.1	7.03	7.02	7.02	4.44	4.00	4.12	10	9.50
	7:58		Middle	1.0	19.60	19.60		8.05	8.05		31.50	31.50		92.0	91.9		7.01	7.00		4.23	3.81		9	
15/12/2011	9:25	Fine	Middle	1.0	20.20	20.20	20.15	7.81	7.81	7.83	31.70	31.70	31.65	88.2	87.8	87.4	6.71	6.68	6.65	3.86	3.57	3.91	10	9.00
	9:27		Middle	1.0	20.10	20.10		7.85	7.85		31.60	31.60		87.0	86.6		6.62	6.58		4.01	4.19		8	
17/12/2011	9:28	Fine	Middle	1.5	18.80	18.80	18.80	7.95	7.95	7.95	31.80	31.80	31.80	94.8	94.6	94.6	7.24	7.22	7.22	3.07	3.32	3.28	4	4.00
	9:30		Middle	1.5	18.80	18.80		7.95	7.95		31.80	31.80		94.5	94.5		7.20	7.20		3.69	3.03		4	
19/12/2011	14:12	Fine	Middle	1.0	20.00	20.00	20.00	7.89	7.89	7.89	31.20	31.20	31.15	90.9	90.7	90.5	6.89	6.87	6.86	2.23	2.25	2.37	4	5.00
	14:15		Middle	1.0	20.00	20.00		7.89	7.89		31.10	31.10		90.4	90.0		6.85	6.82		2.37	2.61		6	
21/12/2011	16:22	Cloudy	Middle	1.5	19.70	19.70	19.80	7.92	7.92	7.93	31.30	31.30	31.30	89.3	89.2	89.0	6.89	6.87	6.82	2.09	1.97	2.11	4	3.50
	16:25		Middle	1.5	19.90	19.90		7.93	7.93		31.30	31.30		88.8	88.8		6.76	6.76		2.04	2.34		3	
23/12/2011	17:25	Fine	Middle	1.5	18.60	18.60	18.75	8.01	8.01	8.01	30.70	30.70	30.70	61.2	60.0	58.6	4.75	4.62	4.57	1.79	1.63	1.78	11	10.50
	17:27		Middle	1.5	18.90	18.90		8.00	8.00		30.70	30.70		57.9	55.3		4.59	4.31		2.05	1.66		10	
26/12/2011	6:50	Cloudy	Middle	0.5	17.00	17.00	17.05	7.73	7.73	7.73	30.60	30.60	30.60	74.2	71.8	70.5	6.00	5.80	5.70	1.97	2.25	2.10	7	7.50
	6:52		Middle	0.5	17.10	17.10		7.73	7.73		30.60	30.60		69.0	67.0		5.58	5.42		2.10	2.06		8	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:22	Cloudy	Middle	1.0	22.30	22.30	22.30	7.82	7.82	7.82	30.10	30.10	30.10	62.6	62.2	62.1	4.72	4.70	4.69	8.10	8.64	8.29	18	13.50
	7:25		Middle	1.0	22.30	22.30		7.82	7.82		30.10	30.10		61.8	61.6		4.68	4.66		8.09	8.31		9	
30/11/2011	9:52	Fine	Middle	2.5	23.20	23.20	23.20	7.81	7.81	7.82	31.70	31.70	31.65	81.1	80.3	79.7	5.82	5.73	5.71	5.26	5.09	5.07	11	12.00
	9:54		Middle	2.5	23.20	23.20		7.82	7.82		31.60	31.60		79.1	78.2		5.68	5.60		4.82	5.09		13	
2/12/2011	15:32	Fine	Middle	1.5	21.60	21.60	21.60	7.89	7.89	7.89	31.70	31.70	31.70	86.4	86.2	85.6	6.11	6.08	6.07	3.62	3.43	3.49	4	4.00
	15:34		Middle	1.5	21.60	21.60		7.89	7.89		31.70	31.70		85.3	84.5		6.05	6.04		3.28	3.62		4	
5/12/2011	14:45	Cloudy	Middle	3.0	21.30	21.30	21.30	7.93	7.93	7.93	31.60	31.60	31.55	79.6	78.9	78.5	5.91	5.85	5.82	5.01	4.65	5.13	6	7.00
	14:47		Middle	3.0	21.30	21.30		7.93	7.93		31.50	31.50		77.9	77.5		5.78	5.75		5.64	5.21		8	
7/12/2011	15:53	Cloudy	Middle	2.5	22.00	22.00	22.00	7.93	7.93	7.93	31.60	31.60	31.60	85.5	85.2	85.2	6.33	6.31	6.30	2.15	2.38	2.34	4	4.00
	15:55		Middle	2.5	22.00	22.00		7.93	7.93		31.60	31.60		85.1	85.0		6.29	6.28		2.38	2.45		4	
9/12/2011	17:14	Cloudy	Middle	1.5	20.70	20.70	20.70	7.94	7.94	7.94	31.50	31.50	31.50	86.9	86.6	86.5	6.45	6.43	6.43	5.29	6.17	5.58	6	6.50
	17:16		Middle	1.5	20.70	20.70		7.94	7.94		31.50	31.50		86.4	86.2		6.42	6.41		5.44	5.43		7	
13/12/2011	8:20	Fine	Middle	2.0	19.10	19.10	19.10	7.97	7.97	7.97	31.50	31.50	31.45	88.1	87.8	87.8	6.88	6.84	6.84	2.95	2.51	2.68	2	2.00
	8:22		Middle	2.0	19.10	19.10		7.96	7.96		31.40	31.40		87.6	87.5		6.82	6.80		2.67	2.57		<2	
15/12/2011	9:54	Fine	Middle	2.5	19.60	19.60	19.70	7.85	7.85	7.87	31.70	31.70	31.60	88.2	87.5	86.8	6.79	6.69	6.65	6.06	5.95	5.90	4	4.50
	9:56		Middle	2.5	19.80	19.80		7.88	7.88		31.50	31.50		86.2	85.2		6.61	6.52		5.78	5.82		5	
17/12/2011	10:00	Fine	Middle	1.5	18.30	18.30	18.30	7.76	7.76	7.75	29.80	29.80	29.85	54.9	54.7	54.6	4.45	4.43	4.43	4.18	4.48	4.22	18	**17.50**
	10:02		Middle	1.5	18.30	18.30		7.74	7.74		29.90	29.90		54.5	54.2		4.42	4.40		4.41	3.79		17	
19/12/2011	14:51	Fine	Middle	1.5	18.40	18.40	18.40	7.91	7.91	7.92	31.00	31.00	31.10	82.2	81.9	81.9	6.60	6.55	6.54	2.83	2.62	2.86	3	4.00
	14:53		Middle	1.5	18.40	18.40		7.92	7.92		31.20	31.20		81.8	81.5		6.52	6.47		2.90	3.10		5	
21/12/2011	16:08	Cloudy	Middle	2.5	19.40	19.40	19.40	7.94	7.94	7.94	31.50	31.50	31.45	88.2	88.2	88.0	6.80	6.80	6.78	2.39	2.39	2.49	5	5.50
	16:10		Middle	2.5	19.40	19.40		7.94	7.94		31.40	31.40		87.8	87.6		6.77	6.76		2.93	2.23		6	
23/12/2011	17:10	Fine	Middle	3.0	18.70	18.70	18.60	8.13	8.13	8.12	30.40	30.40	30.40	51.1	50.4	50.2	3.97	3.91	3.90	5.21	5.71	5.45	9	8.50
	17:12		Middle	3.0	18.50	18.50		8.11	8.11		30.40	30.40		49.9	49.3		3.88	3.83		5.56	5.31		8	
26/12/2011	8:42	Cloudy	Middle	1.0	16.51	16.51	16.51	7.45	7.45	7.45	28.93	28.96	28.95	59.1	59.1	58.1	4.78	4.78	4.70	2.87	2.89	2.96	4	6.00
	8:44		Middle	1.0	16.51	16.51		7.45	7.45		28.96	28.96		57.1	57.1		4.61	4.61		3.23	2.86		8	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:55	Cloudy	Middle	0.5	22.10	22.10	22.10	7.82	7.82	7.82	31.30	31.30	31.30	75.0	74.8	74.7	5.68	5.64	5.62	6.79	6.99	6.88	8	13.50
	7:57		Middle	0.5	22.10	22.10		7.82	7.82		31.30	31.30		74.6	74.3		5.60	5.57		6.71	7.01		19	
30/11/2011	9:41	Fine	Middle	1.0	23.50	23.50	23.50	7.80	7.80	7.81	31.50	31.50	31.50	80.1	79.6	79.4	5.73	5.68	5.67	4.45	4.13	4.28	5	5.00
	9:43		Middle	1.0	23.50	23.50		7.81	7.81		31.50	31.50		79.1	78.8		5.65	5.62		4.48	4.04		5	
2/12/2011	15:18	Fine	Middle	1.0	21.50	21.50	21.50	7.88	7.88	7.88	31.70	31.70	31.70	88.9	88.2	87.9	6.29	6.25	6.24	3.04	3.41	3.42	5	5.50
	15:20		Middle	1.0	21.50	21.50		7.88	7.88		31.70	31.70		87.5	87.0		6.23	6.19		4.33	2.90		6	
5/12/2011	14:26	Cloudy	Middle	2.0	21.20	21.20	21.25	7.91	7.91	7.92	31.60	31.60	31.55	86.6	85.3	84.5	6.41	6.34	6.27	5.44	5.13	5.11	7	8.00
	14:28		Middle	2.0	21.30	21.30		7.92	7.92		31.50	31.50		83.6	82.4		6.19	6.13		5.08	4.79		9	
7/12/2011	15:45	Cloudy	Middle	1.0	22.40	22.40	22.40	7.90	7.90	7.90	31.60	31.60	31.60	83.5	83.4	83.4	6.40	6.38	6.38	2.06	2.73	2.44	5	4.50
	15:47		Middle	1.0	22.40	22.40		7.90	7.90		31.60	31.60		83.3	83.2		6.38	6.37		2.45	2.50		4	
9/12/2011	17:00	Cloudy	Middle	2.5	19.40	19.40	19.40	7.96	7.96	7.96	31.50	31.50	31.50	87.6	87.4	87.3	6.67	6.66	6.66	4.21	4.42	4.39	6	6.00
	17:02		Middle	2.5	19.40	19.40		7.96	7.96		31.50	31.50		87.2	87.0		6.65	6.64		4.34	4.58		6	
13/12/2011	8:08	Fine	Middle	1.0	19.00	19.00	19.00	7.95	7.95	7.95	31.70	31.70	31.70	90.1	90.0	89.9	7.06	7.05	7.03	3.14	3.75	3.48	3	3.00
	8:10		Middle	1.0	19.00	19.00		7.95	7.95		31.70	31.70		89.8	89.5		7.02	6.99		3.41	3.60		3	
15/12/2011	9:42	Fine	Middle	1.5	20.00	20.00	19.95	7.85	7.85	7.86	31.20	31.20	31.30	76.2	75.7	75.3	5.82	5.77	5.74	4.30	3.95	4.09	2	4.00
	9:44		Middle	1.5	19.90	19.90		7.86	7.86		31.40	31.40		75.1	74.3		5.72	5.65		3.96	4.14		6	
17/12/2011	9:45	Fine	Middle	2.0	17.70	17.70	17.65	7.87	7.87	7.87	31.00	31.00	31.00	85.1	84.8	84.6	6.88	6.84	6.82	2.06	2.42	2.37	9	9.00
	9:47		Middle	2.0	17.60	17.60		7.87	7.87		31.00	31.00		84.5	84.1		6.80	6.76		2.54	2.46		9	
19/12/2011	14:32	Fine	Middle	2.5	19.30	19.30	19.35	7.89	7.89	7.89	31.00	31.00	31.00	78.1	77.8	77.7	6.09	6.05	6.04	2.95	2.84	2.80	6	5.50
	14:35		Middle	2.5	19.40	19.40		7.89	7.89		31.00	31.00		77.5	77.2		6.03	6.00		2.82	2.59		5	
21/12/2011	15:54	Cloudy	Middle	2.0	19.60	19.60	19.50	7.91	7.91	7.93	31.40	31.40	31.30	84.9	84.7	84.6	6.51	6.50	6.48	2.35	2.47	2.15	8	8.00
	15:56		Middle	2.0	19.40	19.40		7.94	7.94		31.20	31.20		84.4	84.2		6.47	6.45		1.86	1.90		8	
23/12/2011	16:52	Fine	Middle	1.5	18.70	18.70	18.60	8.01	8.01	8.02	30.40	30.40	30.30	51.4	50.8	50.7	4.02	3.96	3.96	4.09	3.70	3.82	6	6.50
	16:54		Middle	1.5	18.50	18.50		8.03	8.03		30.20	30.20		50.6	50.0		3.95	3.90		3.61	3.87		7	
26/12/2011	8:35	Cloudy	Middle	1.0	16.83	16.90	16.91	7.42	7.42	7.42	30.21	30.21	30.21	64.3	64.3	64.3	5.18	5.18	5.18	2.55	2.65	2.71	4	3.50
	8:37		Middle	1.0	16.95	16.94		7.42	7.42		30.21	30.21		64.2	64.2		5.17	5.17		2.85	2.77		3	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:40	Cloudy	Middle	1.0	22.40	22.40	22.40	7.70	7.70	7.70	31.40	31.40	31.40	71.4	71.1	70.9	5.03	5.00	4.99	2.11	2.19	2.14	8	10.50
	7:42		Middle	1.0	22.40	22.40		7.70	7.70		31.40	31.40		70.6	70.4		4.98	4.96		2.44	1.80		13	
30/11/2011	9:46	Fine	Middle	1.5	23.40	23.40	23.35	7.73	7.73	7.73	31.60	31.60	31.60	63.2	62.8	62.6	4.53	4.48	4.47	6.94	5.37	5.46	8	8.50
	9:48		Middle	1.5	23.30	23.30		7.73	7.73		31.60	31.60		62.4	62.1		4.46	4.42		4.77	4.76		9	
2/12/2011	15:24	Fine	Middle	1.0	21.90	21.90	21.90	7.76	7.76	7.76	31.70	31.70	31.70	73.0	72.9	72.9	5.44	5.42	5.42	1.13	1.06	1.05	4	3.50
	15:27		Middle	1.0	21.90	21.90		7.76	7.76		31.70	31.70		72.8	72.8		5.41	5.40		1.00	1.02		3	
5/12/2011	14:35	Cloudy	Middle	2.0	21.40	21.40	21.25	7.83	7.83	7.83	31.60	31.60	31.60	71.6	70.8	70.6	5.30	5.26	5.23	1.59	1.85	1.95	6	6.00
	14:37		Middle	2.0	21.10	21.10		7.83	7.83		31.60	31.60		70.4	69.6		5.20	5.17		2.08	2.29		6	
7/12/2011	15:51	Cloudy	Middle	2.5	22.10	22.10	22.10	7.87	7.87	7.87	31.60	31.60	31.60	84.0	83.7	83.7	6.03	6.01	6.01	2.83	2.83	2.79	7	7.00
	15:53		Middle	2.5	22.10	22.10		7.87	7.87		31.60	31.60		83.6	83.4		6.00	5.99		3.33	2.16		7	
9/12/2011	17:04	Cloudy	Middle	2.0	20.30	20.30	20.30	7.93	7.93	7.93	31.50	31.50	31.50	78.6	78.4	78.3	6.05	6.03	6.02	2.76	2.77	2.62	3	3.00
	17:06		Middle	2.0	20.30	20.30		7.93	7.93		31.50	31.50		78.3	78.0		6.01	6.00		2.58	2.37		3	
13/12/2011	8:14	Fine	Middle	1.0	19.40	19.40	19.40	7.91	7.91	7.91	31.80	31.80	31.80	88.8	88.6	88.5	6.82	6.80	6.79	1.44	1.22	1.35	4	3.00
	8:16		Middle	1.0	19.40	19.40		7.91	7.91		31.80	31.80		88.5	88.2		6.79	6.75		1.57	1.17		2	
15/12/2011	9:48	Fine	Middle	1.5	20.00	20.00	20.00	7.79	7.79	7.79	31.60	31.60	31.55	80.9	80.4	79.9	6.18	6.12	6.09	2.13	1.82	2.05	6	7.00
	9:50		Middle	1.5	20.00	20.00		7.79	7.79		31.50	31.50		79.5	78.9		6.07	6.00		2.61	1.65		8	
17/12/2011	9:50	Fine	Middle	2.0	18.60	18.60	18.70	7.94	7.94	7.94	31.40	31.40	31.30	83.5	83.2	83.1	6.53	6.49	6.49	3.70	3.03	3.13	9	8.50
	9:52		Middle	2.0	18.80	18.80		7.94	7.94		31.20	31.20		83.0	82.7		6.47	6.45		2.96	2.84		8	
19/12/2011	14:43	Fine	Middle	2.0	19.00	19.00	19.00	7.81	7.81	7.81	31.00	31.00	31.00	74.5	74.5	74.3	5.60	5.60	5.57	1.22	1.30	1.12	5	4.50
	14:45		Middle	2.0	19.00	19.00		7.81	7.81		31.00	31.00		74.2	74.0		5.56	5.52		0.94	1.02		4	
21/12/2011	15:58	Cloudy	Middle	2.0	19.30	19.30	19.35	7.86	7.86	7.85	31.40	31.40	31.40	91.2	91.1	90.8	6.93	6.92	6.88	1.23	1.21	1.22	6	5.00
	15:59		Middle	2.0	19.40	19.40		7.84	7.84		31.40	31.40		90.6	90.4		6.85	6.82		1.06	1.38		4	
23/12/2011	16:56	Fine	Middle	1.0	18.80	18.80	18.75	7.93	7.93	7.93	30.40	30.40	30.40	53.0	52.7	52.4	4.11	4.08	4.08	2.05	2.16	2.16	3	3.50
	16:58		Middle	1.0	18.70	18.70		7.93	7.93		30.40	30.40		52.2	51.8		4.07	4.04		2.14	2.29		4	
26/12/2011	8:56	Cloudy	Middle	1.0	16.86	16.86	16.87	7.41	7.41	7.41	30.45	30.45	30.45	68.2	68.2	68.1	6.60	6.60	6.60	1.29	1.36	1.38	<2	2.00
	8:58		Middle	1.0	16.88	16.88		7.41	7.41		30.45	30.45		68.0	68.1		6.60	6.59		1.43	1.42		2	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	8:35	Cloudy	Middle	0.5	22.90	22.90	22.90	7.88	7.88	7.88	31.70	31.70	31.70	78.6	78.4	78.4	5.71	5.69	5.69	3.63	3.73	3.62	6	5.50
	8:38		Middle	0.5	22.90	22.90		7.88	7.88		31.70	31.70		78.3	78.1		5.68	5.66		3.42	3.70		5	
30/11/2011	10:19	Fine	Middle	1.0	24.10	24.10	24.10	7.83	7.83	7.83	31.60	31.60	31.60	83.4	83.3	83.2	6.47	6.46	6.45	6.76	7.90	7.19	11	10.50
	10:21		Middle	1.0	24.10	24.10		7.83	7.83		31.60	31.60		83.1	82.9		6.44	6.43		6.99	7.11		10	
2/12/2011	10:52	Fine	Middle	1.5	22.00	22.00	22.05	7.84	7.84	7.84	31.60	31.60	31.55	73.3	72.3	72.0	5.34	5.29	5.26	2.17	2.46	2.30	9	6.00
	10:55		Middle	1.5	22.10	22.10		7.83	7.83		31.50	31.50		71.5	70.8		5.21	5.19		2.35	2.21		3	
5/12/2011	11:35	Cloudy	Middle	1.5	21.90	21.90	21.90	7.97	7.98	7.98	31.40	31.40	31.40	87.7	87.5	87.6	6.39	6.38	6.37	2.74	2.83	2.65	4	4.00
	11:38		Middle	1.5	21.90	21.90		7.99	7.99		31.40	31.40		87.5	87.5		6.36	6.35		2.55	2.46		4	
7/12/2011	13:15	Cloudy	Middle	1.5	23.10	23.10	23.15	7.97	7.97	7.98	31.00	31.00	31.05	84.1	83.5	83.3	6.04	6.01	5.99	3.42	2.92	3.19	5	5.00
	13:18		Middle	1.5	23.20	23.20		7.98	7.98		31.10	31.10		83.1	82.4		5.96	5.95		3.28	3.15		5	
9/12/2011	16:36	Cloudy	Middle	2.0	19.90	19.90	19.90	7.99	7.99	7.99	31.60	31.60	31.60	90.4	80.0	87.5	6.82	6.75	6.76	2.49	2.63	2.74	3	4.00
	16:38		Middle	2.0	19.90	19.90		7.99	7.99		31.60	31.60		89.8	89.7		6.73	6.72		2.76	3.06		5	
13/12/2011	8:50	Fine	Middle	1.0	19.00	19.00	19.05	7.93	7.93	7.94	31.30	31.30	31.30	89.3	89.2	89.0	6.98	6.96	6.95	1.60	1.58	1.67	2	2.00
	8:52		Middle	1.0	19.10	19.10		7.94	7.94		31.30	31.30		89.0	88.6		6.94	6.90		1.70	1.79		2	
15/12/2011	10:09	Fine	Middle	1.5	20.10	20.10	20.15	7.87	7.87	7.87	31.60	31.60	31.55	85.5	85.1	85.0	6.52	6.49	6.48	2.60	2.35	2.37	4	5.50
	10:11		Middle	1.5	20.20	20.20		7.86	7.86		31.50	31.50		84.9	84.5		6.46	6.44		2.35	2.17		7	
17/12/2011	10:17	Fine	Middle	1.0	19.30	19.30	19.30	7.98	7.98	7.98	31.30	31.30	31.25	88.8	88.8	88.7	6.76	6.76	6.75	2.02	2.51	2.11	6	5.50
	10:19		Middle	1.0	19.30	19.30		7.98	7.98		31.20	31.20		88.6	88.6		6.73	6.73		1.87	2.05		5	
19/12/2011	14:05	Fine	Middle	1.5	19.80	19.80	19.85	7.95	7.95	7.96	31.87	31.87	31.87	68.8	69.7	70.5	5.20	5.27	5.33	2.10	2.02	2.08	6	4.50
	14:08		Middle	1.5	19.90	19.90		7.96	7.96		31.86	31.86		72.5	70.8		5.48	5.35		2.14	2.07		3	
21/12/2011	13:10	Cloudy	Middle	1.5	20.20	20.20	20.25	7.94	7.94	7.94	31.20	31.20	31.25	78.0	77.2	77.1	5.87	5.82	5.81	2.09	2.13	2.05	7	5.00
	13:13		Middle	1.5	20.30	20.30		7.93	7.93		31.30	31.30		76.9	76.4		5.79	5.75		1.92	2.04		3	
23/12/2011	14:20	Fine	Middle	1.5	19.70	19.70	19.65	7.99	7.99	7.99	30.90	30.90	30.95	85.1	84.6	84.4	6.53	6.49	6.48	1.88	1.79	1.82	4	4.50
	14:23		Middle	1.5	19.60	19.60		7.98	7.98		31.00	31.00		84.3	83.6		6.45	6.43		1.78	1.83		5	
26/12/2011	6:30	Cloudy	Middle	1.5	17.53	17.52	17.52	8.11	8.11	8.11	30.93	30.93	30.93	57.1	57.1	57.1	4.53	4.53	4.53	2.64	2.47	2.34	4	3.50
	6:31		Middle	1.5	17.52	17.52		8.11	8.11		30.93	30.93		57.1	57.1		4.53	4.53		2.29	1.95		3	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	8:42	Cloudy	Middle	1.5	23.00	23.00	23.00	7.89	7.89	7.89	31.90	31.90	31.90	86.8	86.5	86.4	6.09	6.07	6.07	4.32	4.14	4.22	8	11.00
	8:46		Middle	1.5	23.00	23.00		7.89	7.89		31.90	31.90		86.2	86.0		6.06	6.04		4.41	4.00		14	
30/11/2011	10:28	Fine	Middle	1.0	24.10	24.10	24.10	7.82	7.82	7.82	31.70	31.70	31.70	89.1	88.9	88.8	6.04	6.02	6.00	8.44	8.18	8.31	12	14.00
	10:30		Middle	1.0	24.10	24.10		7.82	7.82		31.70	31.70		88.6	88.5		5.98	5.97		8.82	7.78		16	
2/12/2011	10:45	Fine	Middle	1.5	22.20	22.20	22.25	7.85	7.85	7.86	31.40	31.40	31.35	69.0	68.0	68.0	5.05	4.99	4.99	2.58	2.47	2.68	6	8.00
	10:48		Middle	1.5	22.30	22.30		7.86	7.86		31.30	31.30		67.7	67.3		4.96	4.94		2.67	2.98		10	
5/12/2011	11:42	Cloudy	Middle	1.5	21.90	21.90	21.90	7.99	7.99	7.99	31.00	31.00	31.00	88.6	88.2	88.1	6.72	6.68	6.65	2.78	2.78	2.64	5	5.00
	11:45		Middle	1.5	21.90	21.90		7.99	7.99		31.00	31.00		87.9	87.8		6.61	6.58		2.39	2.61		5	
7/12/2011	13:22	Cloudy	Middle	1.5	22.60	22.60	22.55	7.92	7.92	7.93	31.60	31.60	31.55	85.1	84.4	84.2	6.15	6.10	6.09	2.21	2.09	2.02	4	4.00
	13:25		Middle	1.5	22.50	22.50		7.93	7.93		31.50	31.50		83.7	83.5		6.07	6.03		1.96	1.81		4	
9/12/2011	16:42	Cloudy	Middle	2.0	19.20	19.20	19.20	7.99	7.99	7.99	31.60	31.60	31.60	93.8	93.7	93.7	7.28	7.26	7.26	5.54	5.10	5.07	38	**30.50**
	16:44		Middle	2.0	19.20	19.20		7.99	7.99		31.60	31.60		93.6	93.6		7.24	7.24		5.04	4.59		23	
13/12/2011	8:54	Fine	Middle	1.0	19.20	19.20	19.15	7.94	7.94	7.94	31.60	31.60	31.65	95.3	95.0	95.0	7.31	7.28	7.27	2.11	1.72	1.76	<2	<2
	8:56		Middle	1.0	19.10	19.10		7.93	7.93		31.70	31.70		94.9	94.6		7.25	7.22		1.73	1.49		<2	
15/12/2011	10:15	Fine	Middle	1.5	20.30	20.30	20.30	7.89	7.89	7.89	31.50	31.50	31.50	89.1	88.3	88.1	6.74	6.70	6.68	3.48	4.16	3.58	5	6.00
	10:17		Middle	1.5	20.30	20.30		7.89	7.89		31.50	31.50		87.8	87.3		6.68	6.61		3.39	3.30		7	
17/12/2011	10:23	Fine	Middle	1.0	19.20	19.20	19.10	7.89	7.89	7.89	31.30	31.30	31.30	86.2	86.6	86.3	6.77	6.79	6.77	1.99	1.80	1.86	5	5.50
	10:25		Middle	1.0	19.00	19.00		7.89	7.89		31.30	31.30		86.2	86.0		6.77	6.75		1.87	1.76		6	
19/12/2011	14:12	Fine	Middle	1.5	19.70	19.70	19.65	7.94	7.94	7.94	31.85	31.85	31.86	68.7	68.9	69.1	5.20	5.22	5.23	2.28	2.47	2.52	10	7.50
	14:15		Middle	1.5	19.60	19.60		7.93	7.93		31.86	31.86		69.7	69.2		5.25	5.25		2.65	2.66		5	
21/12/2011	13:15	Cloudy	Middle	1.5	20.10	20.10	20.05	7.97	7.97	7.98	31.40	31.40	31.35	87.6	87.1	86.9	6.61	6.59	6.57	4.22	3.71	3.76	9	10.00
	13:18		Middle	1.5	20.00	20.00		7.98	7.98		31.30	31.30		86.8	86.2		6.55	6.51		3.66	3.45		11	
23/12/2011	14:26	Fine	Middle	1.5	19.10	19.10	19.15	7.98	7.98	7.98	30.90	30.90	30.85	89.2	88.2	87.8	6.98	6.83	6.81	1.56	1.57	1.63	9	9.50
	14:29		Middle	1.5	19.20	19.20		7.97	7.97		30.80	30.80		87.3	86.6		6.72	6.70		1.76	1.64		10	
26/12/2011	6:34	Cloudy	Middle	1.5	17.71	17.71	17.71	8.10	8.10	8.10	30.83	30.83	30.83	57.0	57.0	57.0	4.51	4.51	4.51	2.04	1.73	1.96	4	3.50
	6:35		Middle	1.5	17.71	17.71		8.10	8.10		30.83	30.83		57.0	57.0		4.51	4.51		1.99	2.07		3	

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

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

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	8:20	Cloudy	Middle	1.0	22.00	22.00	22.00	7.89	7.89	7.89	31.90	31.90	31.90	86.8	86.4	86.4	6.19	6.17	6.16	3.41	3.91	3.74	12	9.00
	8:23		Middle	1.0	22.00	22.00		7.89	7.89		31.90	31.90		86.3	86.2		6.14	6.13		3.81	3.81		6	
30/11/2011	10:07	Fine	Middle	1.0	23.60	23.60	23.60	7.84	7.84	7.84	31.80	31.80	31.80	82.2	81.8	81.6	5.86	5.83	5.82	5.69	5.60	5.65	11	11.50
	10:09		Middle	1.0	23.60	23.60		7.84	7.84		31.80	31.80		81.3	81.1		5.80	5.77		5.79	5.52		12	
2/12/2011	11:00	Fine	Middle	2.0	22.10	22.10	22.05	7.88	7.88	7.89	31.70	31.70	31.75	84.1	83.1	82.9	6.16	6.10	6.08	5.43	5.15	5.23	7	6.00
	11:03		Middle	2.0	22.00	22.00		7.89	7.89		31.80	31.80		82.6	81.8		6.04	6.02		5.50	4.84		5	
5/12/2011	11:50	Cloudy	Middle	1.5	21.50	21.50	21.50	7.93	7.93	7.93	31.40	31.40	31.40	91.3	91.2	91.1	6.62	6.60	6.59	4.75	5.15	4.99	9	9.00
	11:52		Middle	1.5	21.50	21.50		7.93	7.93		31.40	31.40		90.9	90.8		6.57	6.56		4.78	5.28		9	
7/12/2011	13:35	Cloudy	Middle	2.0	22.30	22.30	22.35	7.95	7.95	7.96	31.70	31.70	31.75	85.2	85.1	84.9	6.18	6.17	6.16	2.95	3.50	3.35	7	7.00
	13:38		Middle	2.0	22.40	22.40		7.96	7.96		31.80	31.80		84.8	84.5		6.15	6.13		3.47	3.49		7	
9/12/2011	16:21	Cloudy	Middle	2.0	19.60	19.60	19.60	8.00	8.00	8.00	31.60	31.60	31.60	87.1	86.9	86.8	6.70	6.68	6.65	3.90	3.40	3.60	6	6.50
	16:23		Middle	2.0	19.60	19.60		8.00	8.00		31.60	31.60		86.6	86.5		6.64	6.59		3.82	3.29		7	
13/12/2011	8:30	Fine	Middle	1.5	18.80	18.80	18.70	7.94	7.94	7.95	31.80	31.80	31.85	91.7	91.4	91.2	7.03	7.00	6.98	2.99	2.83	2.77	4	4.00
	8:32		Middle	1.5	18.60	18.60		7.95	7.95		31.90	31.90		91.0	90.8		6.96	6.94		2.66	2.58		4	
15/12/2011	10:25	Fine	Middle	1.0	20.00	20.00	20.00	7.90	7.90	7.90	31.20	31.20	31.20	86.4	86.1	85.9	6.60	6.58	6.56	6.58	5.23	5.85	11	11.50
	10:27		Middle	1.0	20.00	20.00		7.90	7.90		31.20	31.20		85.7	85.5		6.54	6.53		5.79	5.78		12	
17/12/2011	10:12	Fine	Middle	1.5	18.60	18.60	18.70	7.93	7.93	7.92	31.50	31.50	31.55	85.0	84.9	84.7	6.65	6.64	6.63	3.46	4.43	3.99	7	6.00
	10:14		Middle	1.5	18.80	18.80		7.91	7.91		31.60	31.60		84.8	84.2		6.63	6.60		4.43	3.62		5	
19/12/2011	15:13	Fine	Middle	1.5	19.00	19.00	18.90	7.92	7.92	7.91	31.40	31.40	31.40	86.9	85.7	85.9	6.66	6.64	6.63	2.88	2.61	2.72	5	4.50
	15:15		Middle	1.5	18.80	18.80		7.90	7.90		31.40	31.40		85.5	85.3		6.63	6.59		2.68	2.72		4	
21/12/2011	15:38	Cloudy	Middle	1.5	19.70	19.70	19.80	7.94	7.94	7.94	31.30	31.30	31.30	89.6	89.4	89.3	6.85	6.82	6.81	4.46	5.46	5.02	11	10.50
	15:40		Middle	1.5	19.90	19.90		7.93	7.93		31.30	31.30		89.2	89.0		6.79	6.76		5.03	5.11		10	
23/12/2011	16:46	Fine	Middle	2.0	18.50	18.50	18.60	8.12	8.12	8.11	30.60	30.60	30.55	69.0	65.2	64.5	5.33	5.07	5.02	3.19	2.95	3.04	5	5.50
	16:48		Middle	2.0	18.70	18.70		8.10	8.10		30.50	30.50		62.6	61.0		4.87	4.80		3.08	2.95		6	
26/12/2011	8:10	Cloudy	Middle	1.0	16.80	16.80	16.85	8.34	8.34	8.34	30.20	30.20	30.20	64.6	63.2	63.2	5.24	5.13	5.17	2.86	2.69	2.94	10	10.00
	8:12		Middle	1.0	16.90	16.90		8.34	8.34		30.20	30.20		62.3	62.6		5.14	5.15		3.10	3.09		10	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:21	Cloudy	Middle	1.5	22.60	22.60	22.55	7.86	7.86	7.86	32.84	32.84	32.85	83.2	81.3	82.4	5.96	5.82	5.90	11.30	10.60	**11.13**	12	12.00
	7:23		Middle	1.5	22.50	22.50		7.86	7.86		32.85	32.85		83.7	81.2		5.99	5.82		11.10	11.50		12	
30/11/2011	11:20	Fine	Middle	1.5	23.50	23.50	23.45	7.88	7.88	7.88	32.69	32.69	32.70	67.5	67.6	67.8	4.74	4.75	4.76	5.30	5.49	5.11	6	7.00
	11:23		Middle	1.5	23.40	23.40		7.87	7.87		32.70	32.70		68.0	68.2		4.77	4.78		5.01	4.65		8	
2/12/2011	9:30	Fine	Middle	2.0	20.40	20.40	20.35	7.89	7.89	7.89	32.61	32.61	32.61	70.1	72.3	72.0	5.25	5.44	5.41	4.28	5.19	4.58	10	9.00
	9:33		Middle	2.0	20.30	20.30		7.88	7.88		32.60	32.60		72.5	72.9		5.46	5.49		4.36	4.48		8	
5/12/2011	11:17	Cloudy	Middle	1.5	21.20	21.20	21.20	7.93	7.93	7.93	32.57	32.57	32.58	82.9	79.7	81.6	6.08	5.85	5.99	3.86	3.17	3.56	6	6.00
	11:19		Middle	1.5	21.20	21.20		7.93	7.93		32.58	32.58		82.3	81.5		6.04	5.98		3.41	3.78		6	
7/12/2011	12:20	Cloudy	Middle	1.5	21.90	21.90	21.95	7.96	7.96	7.96	32.65	32.65	32.65	83.3	79.7	81.5	6.03	5.76	5.89	5.32	5.35	5.01	8	7.50
	12:22		Middle	1.5	22.00	22.00		7.96	7.96		32.65	32.65		82.8	80.1		5.99	5.79		4.67	4.68		7	
9/12/2011	13:30	Cloudy	Middle	1.5	19.80	19.80	19.75	8.02	8.02	8.02	32.36	32.36	32.37	82.9	83.6	83.5	6.25	6.32	6.31	3.58	3.50	3.67	9	9.50
	13:32		Middle	1.5	19.70	19.70		8.02	8.02		32.37	32.37		83.0	84.4		6.27	6.39		3.58	4.03		10	
13/12/2011	6:58	Fine	Middle	1.5	18.90	18.90	18.85	8.07	8.07	8.07	32.19	32.19	32.19	82.9	81.7	82.6	6.38	6.28	6.36	3.44	3.33	3.46	4	4.00
	7:00		Middle	1.5	18.80	18.80		8.06	8.06		32.19	32.19		83.9	81.9		6.46	6.30		3.50	3.58		4	
15/12/2011	7:11	Fine	Middle	1.5	19.60	19.60	19.60	7.97	7.97	7.97	32.13	32.13	32.13	86.7	85.1	86.1	6.57	6.45	6.52	5.34	5.55	5.44	11	11.00
	7:13		Middle	1.5	19.60	19.60		7.97	7.97		32.13	32.13		87.0	85.5		6.59	6.48		5.39	5.49		11	
17/12/2011	11:47	Fine	Middle	1.5	18.90	18.90	18.85	8.07	8.07	8.08	32.31	32.31	32.31	87.4	85.7	86.9	6.72	6.59	6.68	6.04	6.29	6.14	8	8.00
	11:48		Middle	1.5	18.80	18.80		8.08	8.08		32.31	32.31		88.3	86.1		6.79	6.63		6.04	6.18		8	
19/12/2011	10:35	Fine	Middle	1.5	18.90	18.90	18.85	7.89	7.89	7.89	32.10	32.10	32.11	83.4	81.7	83.1	6.42	6.29	6.40	4.17	4.19	4.19	8	8.00
	10:36		Middle	1.5	18.80	18.80		7.89	7.89		32.12	32.12		84.5	82.6		6.51	6.36		3.98	4.41		8	
21/12/2011	11:58	Cloudy	Middle	1.5	19.90	19.90	19.95	7.90	7.90	7.90	32.04	32.04	32.05	84.3	83.4	83.8	6.34	6.27	6.30	2.76	2.99	2.66	7	7.00
	12:00		Middle	1.5	20.00	20.00		7.90	7.90		32.05	32.05		84.6	82.8		6.37	6.23		2.46	2.44		7	
23/12/2011	13:55	Fine	Middle	1.5	18.80	18.80	18.75	7.93	7.93	7.93	32.08	32.08	32.08	80.7	78.0	79.7	6.22	6.01	6.14	3.62	4.20	3.96	11	10.50
	13:57		Middle	1.5	18.70	18.70		7.93	7.93		32.08	32.08		80.9	79.0		6.23	6.08		3.82	4.18		10	
26/12/2011	5:45	Cloudy	Middle	1.5	17.10	17.10	17.10	8.09	8.09	8.09	31.54	31.54	31.54	73.0	73.0	72.8	5.82	5.82	5.81	3.28	3.10	3.02	6	6.00
	5:46		Middle	1.5	17.10	17.10		8.09	8.09		31.54	31.54		72.6	72.6		5.79	5.79		2.92	2.78		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:01	Cloudy	Middle	1.0	23.00	23.00	23.00	7.82	7.82	7.84	33.01	33.01	33.02	83.9	82.6	83.6	5.95	5.86	5.93	14.20	15.20	**14.60**	22	**23.00**
	7:03		Middle	1.0	23.00	23.00		7.85	7.85		33.02	33.02		84.4	83.3		5.99	5.91		14.60	14.40		24	
30/11/2011	10:59	Fine	Middle	1.5	23.30	23.30	23.35	7.96	7.96	7.97	32.70	32.70	32.70	82.9	80.5	82.0	5.85	5.69	5.79	12.50	12.60	**12.28**	19	**20.00**
	11:01		Middle	1.5	23.40	23.40		7.97	7.97		32.69	32.69		83.1	81.5		5.87	5.75		11.80	12.20		21	
2/12/2011	9:12	Fine	Middle	1.5	19.90	19.90	19.85	7.92	7.92	7.93	32.66	32.66	32.67	79.7	79.9	80.0	6.02	6.04	6.05	8.02	8.37	**8.38**	14	**14.50**
	9:15		Middle	1.5	19.80	19.80		7.93	7.93		32.67	32.67		80.0	80.3		6.05	6.08		8.38	8.75		15	
5/12/2011	11:00	Cloudy	Middle	1.5	21.80	21.80	21.80	8.03	8.03	8.04	32.85	32.85	32.88	90.5	88.2	89.2	6.56	6.40	6.48	5.79	4.83	5.21	6	7.00
	11:02		Middle	1.5	21.80	21.80		8.05	8.05		32.90	32.90		90.2	87.9		6.55	6.39		5.00	5.22		8	
7/12/2011	12:05	Cloudy	Middle	1.5	21.90	21.90	21.95	7.98	7.98	7.99	32.65	32.65	32.67	85.4	84.7	85.2	6.17	6.11	6.15	3.71	3.66	3.72	8	7.00
	12:06		Middle	1.5	22.00	22.00		7.99	7.99		32.69	32.69		86.3	84.3		6.22	6.08		3.58	3.93		6	
9/12/2011	13:12	Cloudy	Middle	1.5	20.10	20.10	20.05	7.98	7.98	7.98	31.84	31.84	31.88	85.7	84.5	85.5	6.45	6.37	6.45	5.70	5.84	5.90	9	11.00
	13:14		Middle	1.5	20.00	20.00		7.97	7.97		31.92	31.92		86.5	85.3		6.53	6.44		5.97	6.08		13	
13/12/2011	6:41	Fine	Middle	1.5	19.30	19.30	19.25	8.00	8.00	8.01	32.58	32.58	32.59	93.2	91.6	92.2	7.09	6.97	7.02	7.84	7.52	7.43	13	13.00
	6:42		Middle	1.5	19.20	19.20		8.02	8.02		32.59	32.59		93.1	91.0		7.09	6.93		7.05	7.29		13	
15/12/2011	6:52	Fine	Middle	1.5	19.90	19.90	19.90	8.09	8.09	8.08	32.31	32.31	32.31	92.0	91.2	91.2	6.92	6.87	6.86	5.67	5.97	5.88	13	11.50
	6:54		Middle	1.5	19.90	19.90		8.07	8.07		32.31	32.31		91.4	90.1		6.88	6.78		5.90	5.98		10	
17/12/2011	12:22	Fine	Middle	1.5	19.00	19.00	18.90	7.96	7.96	7.96	32.15	32.15	32.15	80.5	79.0	79.8	6.20	6.09	6.15	4.98	4.91	5.14	10	10.50
	12:24		Middle	1.5	18.80	18.80		7.96	7.96		32.14	32.14		80.3	79.3		6.20	6.12		5.28	5.39		11	
19/12/2011	10:12	Fine	Middle	1.5	18.90	18.90	18.90	7.82	7.82	7.83	32.29	32.29	32.29	89.3	87.4	88.7	6.85	6.71	6.81	6.33	6.28	6.31	11	12.00
	10:13		Middle	1.5	18.90	18.90		7.84	7.84		32.29	32.29		89.7	88.2		6.89	6.77		6.26	6.35		13	
21/12/2011	11:40	Cloudy	Middle	1.5	20.00	20.00	20.00	8.02	8.02	8.02	32.29	32.29	32.29	91.2	90.2	90.5	6.85	6.77	6.79	4.13	4.18	4.10	9	9.00
	11:42		Middle	1.5	20.00	20.00		8.02	8.02		32.29	32.29		90.9	89.6		6.81	6.71		4.01	4.06		9	
23/12/2011	13:40	Fine	Middle	1.5	18.90	18.90	18.90	8.03	8.03	8.03	32.23	32.23	32.25	93.8	92.8	92.7	7.20	7.12	7.12	4.67	4.89	4.74	10	9.00
	13:42		Middle	1.5	18.90	18.90		8.03	8.03		32.26	32.26		92.9	91.3		7.13	7.01		4.81	4.57		8	
26/12/2011	6:10	Cloudy	Middle	1.5	16.87	16.87	16.87	8.17	8.17	8.17	31.81	31.81	31.81	68.7	68.6	68.6	5.49	5.48	5.48	6.70	6.46	6.47	5	5.50
	6:11		Middle	1.5	16.87	16.87		8.17	8.17		31.81	31.81		68.5	68.5		5.48	5.48		6.43	6.27		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	7:58	Cloudy	Middle	1.5	22.80	22.80	22.75	7.90	7.90	7.91	32.91	32.91	32.93	80.1	78.9	79.9	5.71	5.63	5.70	9.95	10.20	**10.22**	16	**16.50**
	8:00		Middle	1.5	22.70	22.70		7.91	7.91		32.95	32.95		80.8	79.7		5.76	5.68		10.80	9.94		17	
30/11/2011	8:00	Fine	Middle	1.5	23.40	23.40	23.50	7.83	7.83	7.84	32.85	32.85	32.87	89.5	86.5	88.3	6.27	6.07	6.19	9.16	9.34	**9.08**	<2	7.00
	8:02		Middle	1.5	23.60	23.60		7.85	7.85		32.93	32.83		89.9	87.4		6.30	6.13		9.59	8.22		7	
2/12/2011	15:20	Fine	Middle	1.5	21.90	21.90	21.80	7.91	7.91	7.92	32.70	32.70	32.72	80.8	79.9	80.2	5.88	5.82	5.85	4.81	4.20	4.20	6	6.50
	15:22		Middle	1.5	21.70	21.70		7.92	7.92		32.73	32.73		80.9	79.3		5.91	5.79		3.96	3.82		7	
5/12/2011	16:00	Cloudy	Middle	1.5	21.10	21.10	21.05	8.07	8.07	8.07	32.67	32.67	32.68	82.3	81.1	82.2	6.07	5.97	6.07	4.65	4.36	4.66	16	12.00
	16:01		Middle	1.5	21.00	21.00		8.06	8.06		32.69	32.69		83.1	82.2		6.14	6.08		4.68	4.95		8	
7/12/2011	17:20	Cloudy	Middle	1.5	22.00	22.00	22.00	7.95	7.95	7.95	32.66	32.66	32.67	79.5	79.8	79.6	5.76	5.77	5.76	3.32	3.43	3.48	5	5.50
	17:25		Middle	1.5	22.00	22.00		7.94	7.94		32.67	32.67		79.7	79.4		5.76	5.74		3.74	3.41		6	
9/12/2011	17:13	Cloudy	Middle	1.5	19.60	19.60	19.55	7.99	7.99	8.00	32.58	32.58	32.59	86.1	84.5	85.9	6.53	6.41	6.52	4.16	3.41	3.86	6	7.00
	17:15		Middle	1.5	19.50	19.50		8.00	8.00		32.59	32.59		87.4	85.7		6.64	6.51		3.68	4.17		8	
13/12/2011	10:20	Fine	Middle	1.5	19.40	19.40	19.40	8.08	8.08	8.07	32.36	32.36	32.37	89.0	88.0	88.7	6.75	6.68	6.73	4.25	4.15	4.14	5	5.50
	10:22		Middle	1.5	19.40	19.40		8.06	8.06		32.37	32.37		89.3	88.4		6.78	6.71		4.13	4.02		6	
15/12/2011	8:02	Fine	Middle	1.5	19.70	19.70	19.70	8.08	8.08	8.07	32.36	32.36	32.37	95.3	94.3	94.4	7.18	7.12	7.13	5.90	6.13	5.91	16	**15.50**
	8:04		Middle	1.5	19.70	19.70		8.06	8.06		32.37	32.37		94.7	93.3		7.15	7.05		5.57	6.04		15	
17/12/2011	8:38	Fine	Middle	1.5	18.60	18.60	18.60	7.90	7.90	7.90	32.26	32.26	32.26	90.8	88.8	90.0	7.02	6.86	6.95	4.56	4.63	4.55	6	6.00
	8:40		Middle	1.5	18.60	18.60		7.90	7.90		32.26	32.26		90.6	89.6		7.00	6.92		4.45	4.55		6	
19/12/2011	16:38	Fine	Middle	1.5	19.10	19.10	19.15	7.97	7.97	7.97	32.10	32.10	32.10	85.5	84.1	85.2	6.58	6.43	6.53	4.19	4.18	4.19	4	4.00
	16:40		Middle	1.5	19.20	19.20		7.97	7.97		32.10	32.10		86.6	84.6		6.62	6.49		4.00	4.39		4	
21/12/2011	16:12	Cloudy	Middle	1.5	19.50	19.50	19.55	7.93	7.93	7.93	32.18	32.18	32.17	80.1	78.8	79.7	6.07	5.97	6.03	1.74	1.91	1.88	3	4.00
	16:13		Middle	1.5	19.60	19.60		7.93	7.93		32.15	32.15		80.5	79.2		6.09	6.00		1.92	1.95		5	
23/12/2011	17:25	Fine	Middle	1.5	18.80	18.80	18.75	7.97	7.97	7.97	32.09	32.09	32.09	79.7	77.9	79.1	6.14	6.01	6.10	3.23	3.34	3.26	5	5.00
	17:27		Middle	1.5	18.70	18.70		7.97	7.97		32.09	32.09		80.1	78.7		6.18	6.08		3.21	3.26		5	
26/12/2011	10:29	Cloudy	Middle	1.5	17.88	17.88	17.88	7.89	7.89	7.89	31.49	31.49	31.49	60.0	60.0	60.0	4.72	4.72	4.72	3.02	3.05	2.96	4	5.00
	10:30		Middle	1.5	17.87	17.87		7.89	7.89		31.49	31.49		60.0	60.0		4.72	4.72		2.80	2.97		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	0:08	Fine	Middle	2.0	23.11	23.11	23.11	7.80	7.80	7.80	32.42	32.42	32.42	104.0	104.0	104.0	7.37	7.37	7.37	3.43	2.95	3.01	8	7.00
	0:09		Middle	2.0	23.11	23.11		7.80	7.80		32.41	32.41		104.0	103.9		7.37	7.36		2.83	2.84		6	
30/11/2011	0:25	Cloudy	Middle	2.5	22.81	22.81	22.81	7.73	7.73	7.73	31.97	31.97	31.97	92.8	92.9	92.9	6.64	6.65	6.65	4.16	3.97	3.98	6	6.00
	0:26		Middle	2.5	22.81	22.81		7.73	7.72		31.97	31.97		92.8	92.9		6.64	6.65		3.86	3.94		6	
3/12/2011	2:39	Fine	Middle	2.0	19.93	19.93	19.91	8.31	8.31	8.32	31.42	31.42	31.43	70.0	70.1	70.1	5.30	5.30	5.30	2.50	3.09	2.85	6	6.50
	2:40		Middle	2.0	19.89	19.89		8.33	8.33		31.43	31.43		70.1	70.1		5.30	5.31		2.94	2.88		7	
5/12/2011	19:53	Cloudy	Middle	2.5	20.66	20.66	20.66	7.90	7.90	7.90	32.21	32.21	32.22	77.9	77.9	78.1	5.79	5.79	5.80	2.57	2.60	2.55	7	8.00
	19:54		Middle	2.5	20.66	20.66		7.90	7.90		32.23	32.23		78.2	78.2		5.81	5.81		2.50	2.54		9	
7/12/2011	20:05	Cloudy	Middle	2.5	22.01	22.01	22.01	7.54	7.54	7.54	32.02	32.02	32.02	82.7	82.7	82.7	6.00	6.00	6.00	2.14	2.10	2.25	6	5.00
	20:06		Middle	2.5	22.01	22.01		7.54	7.54		32.02	32.02		82.7	82.8		6.00	6.01		2.34	2.41		4	
9/12/2011	20:50	Cloudy	Middle	2.5	18.20	18.20	18.20	8.39	8.39	8.38	31.66	31.66	31.66	90.2	90.0	90.1	7.04	7.03	7.02	2.84	2.96	2.82	7	7.50
	20:51		Middle	2.5	18.20	18.20		8.36	8.36		31.66	31.66		90.0	90.0		7.01	7.00		2.75	2.72		8	
13/12/2011	22:05	Fine	Middle	2.5	18.79	18.79	18.79	8.12	8.12	8.12	31.65	31.65	31.66	73.7	73.7	73.7	5.69	5.69	5.69	2.57	2.56	2.64	3	2.50
	22:06		Middle	2.5	18.78	18.78		8.12	8.12		31.66	31.66		73.8	73.6		5.69	5.68		2.65	2.77		2	
15/12/2011	22:56	Fine	Middle	2.5	19.52	19.52	19.55	7.67	7.67	7.67	31.64	31.64	31.63	73.3	73.3	73.3	5.57	5.58	5.57	2.43	2.46	2.32	5	4.50
	22:57		Middle	2.5	19.57	19.57		7.66	7.66		31.62	31.62		73.3	73.3		5.57	5.57		2.14	2.24		4	
17/12/2011	0:33	Cloudy	Middle	2.5	18.60	18.60	18.60	7.97	7.97	7.97	31.49	31.49	31.49	72.5	72.5	72.5	5.62	5.62	5.62	2.11	2.17	2.27	12	9.00
	0:34		Middle	2.5	18.60	18.60		7.97	7.97		31.49	31.49		72.5	72.5		5.62	5.62		2.36	2.45		6	
19/12/2011	18:56	Fine	Middle	2.0	18.73	18.73	18.74	8.06	8.06	8.06	31.57	31.57	31.57	67.5	67.4	67.4	5.22	5.21	5.21	2.15	1.91	2.06	8	8.50
	18:57		Middle	2.0	18.74	18.74		8.06	8.06		31.57	31.57		67.3	67.4		5.21	5.21		2.08	2.11		9	
21/12/2011	0:11	Cloudy	Middle	2.0	18.97	18.97	18.98	7.82	7.82	7.82	31.60	31.60	31.61	71.0	70.9	70.9	5.45	5.45	5.45	1.87	1.96	2.01	6	6.00
	0:12		Middle	2.0	18.98	18.98		7.82	7.82		31.61	31.61		70.8	70.8		5.44	5.44		1.98	2.22		6	
23/12/2011	20:50	Cloudy	Middle	2.5	17.60	17.60	17.60	8.04	8.04	8.04	31.15	31.15	31.15	58.9	58.6	58.6	4.66	4.64	4.64	2.64	2.43	2.57	6	5.00
	20:51		Middle	2.5	17.59	17.59		8.04	8.04		31.15	31.15		58.5	58.5		4.63	4.63		2.51	2.71		4	
26/12/2011	22:45	Cloudy	Middle	2.5	17.09	17.09	17.09	8.10	8.10	8.10	31.38	31.38	31.38	67.3	67.0	67.1	5.37	5.35	5.36	2.19	2.21	2.24	6	5.00
	22:46		Middle	2.5	17.08	17.08		8.10	8.10		31.38	31.38		67.0	67.0		5.35	5.35		2.26	2.28		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	23:45	Fine	Middle	2.0	23.77	23.77	23.78	8.02	8.02	8.02	32.66	32.66	32.66	95.1	95.0	95.0	6.65	6.64	6.64	5.28	4.82	5.00	7	6.50
	23:46		Middle	2.0	23.78	23.78		8.02	8.02		32.66	32.66		95.0	94.9		6.64	6.63		4.84	5.04		6	
30/11/2011	0:05	Cloudy	Middle	2.5	22.89	22.89	22.91	7.74	7.74	7.74	31.75	31.75	31.75	92.7	92.7	92.7	6.60	6.60	6.60	3.30	3.65	3.53	5	6.00
	0:06		Middle	2.5	22.92	22.92		7.74	7.74		31.75	31.75		92.7	92.6		6.60	6.59		3.71	3.45		7	
3/12/2011	2:20	Fine	Middle	2.0	19.11	19.11	19.11	8.25	8.25	8.26	31.15	31.15	31.15	70.4	70.3	70.3	5.41	5.41	5.41	4.34	4.32	4.17	7	6.50
	2:21		Middle	2.0	19.10	19.10		8.26	8.26		31.15	31.15		70.3	70.3		5.41	5.41		3.85	4.15		6	
5/12/2011	19:10	Cloudy	Middle	2.5	20.36	20.36	20.36	7.96	7.96	7.96	31.90	31.90	31.91	82.2	82.1	82.1	6.14	6.14	6.14	3.53	4.03	3.73	11	8.00
	19:11		Middle	2.5	20.36	20.36		7.96	7.96		31.91	31.91		81.9	82.0		6.13	6.13		3.61	3.73		5	
7/12/2011	19:50	Cloudy	Middle	2.0	22.02	22.02	22.01	7.51	7.51	7.51	31.63	31.63	31.62	83.3	83.1	83.2	6.02	6.01	6.02	3.07	3.05	3.01	7	5.50
	19:51		Middle	2.0	21.98	22.00		7.51	7.51		31.61	31.61		83.1	83.2		6.01	6.02		2.91	3.01		4	
9/12/2011	20:30	Cloudy	Middle	2.5	19.32	19.32	19.30	8.03	8.03	8.06	31.09	31.11	31.11	94.0	93.6	93.4	7.20	7.17	7.16	2.87	2.87	2.81	7	7.00
	20:31		Middle	2.5	19.27	19.27		8.09	8.09		31.11	31.13		93.1	93.0		7.14	7.12		2.74	2.76		7	
13/12/2011	21:52	Fine	Middle	2.5	18.87	18.87	18.86	8.02	8.02	8.03	31.32	31.32	31.32	84.6	84.2	84.2	6.54	6.51	6.51	3.57	3.70	3.63	4	3.50
	21:53		Middle	2.5	18.85	18.85		8.04	8.04		31.32	31.33		84.1	84.0		6.50	6.49		3.63	3.63		3	
15/12/2011	22:39	Fine	Middle	2.5	19.59	19.59	19.57	7.74	7.74	7.75	31.11	31.11	31.12	81.7	81.7	81.6	6.24	6.23	6.23	2.65	2.70	2.63	7	5.50
	22:40		Middle	2.5	19.55	19.55		7.75	7.75		31.12	31.12		81.5	81.4		6.22	6.21		2.75	2.40		4	
17/12/2011	0:10	Cloudy	Middle	2.0	18.90	18.90	18.93	7.80	7.80	7.80	31.28	31.28	31.27	87.6	87.4	87.3	6.76	6.75	6.74	3.13	3.04	3.10	8	10.50
	0:11		Middle	2.0	18.96	18.96		7.80	7.80		31.26	31.26		87.1	87.1		6.73	6.73		3.15	3.09		13	
19/12/2011	18:15	Fine	Middle	2.0	19.32	19.32	19.31	8.00	8.00	8.00	31.31	31.31	31.31	70.0	70.0	70.0	5.36	5.36	5.36	4.33	4.35	4.33	8	8.00
	18:16		Middle	2.0	19.29	19.29		8.00	8.00		31.31	31.31		70.0	70.0		5.36	5.36		4.38	4.27		8	
21/12/2011	23:33	Cloudy	Middle	2.0	19.13	19.13	19.17	7.84	7.84	7.84	31.68	31.68	31.69	91.2	91.2	91.2	6.98	6.98	6.98	2.04	1.94	2.00	7	7.00
	23:34		Middle	2.0	19.20	19.20		7.84	7.84		31.69	31.69		91.2	91.2		6.98	6.98		2.03	2.00		7	
23/12/2011	20:22	Cloudy	Middle	2.5	18.05	18.05	18.07	7.82	7.82	7.84	31.15	31.15	31.15	85.1	85.1	84.7	6.68	6.68	6.64	2.35	2.40	2.46	5	6.00
	20:23		Middle	2.5	18.08	18.08		7.85	7.85		31.15	31.15		84.3	84.1		6.61	6.60		2.56	2.54		7	
26/12/2011	22:15	Cloudy	Middle	2.5	17.35	17.35	17.35	7.90	7.90	7.91	31.09	31.09	31.09	70.1	70.0	69.9	5.61	5.60	5.59	2.13	2.15	2.13	4	4.00
	22:16		Middle	2.5	17.34	17.34		7.91	7.91		31.09	31.09		70.0	69.5		5.59	5.56		2.13	2.11		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	3:50	Fine	Middle	3	22.40	22.40	22.41	7.83	7.83	7.83	32.19	32.19	32.19	106.5	106.3	106.4	7.66	7.65	7.65	2.27	2.38	2.32	4	4.00
	3:53		Middle	3	22.42	22.42		7.83	7.83		32.19	32.19		106.3	106.3		7.65	7.65		2.29	2.32		4	
30/11/2011	3:15	Cloudy	Middle	3	22.85	22.85	22.86	7.74	7.74	7.74	32.24	32.24	32.24	102.3	102.3	102.3	7.29	7.29	7.29	2.38	2.21	2.28	2	4.00
	3:16		Middle	3	22.87	22.87		7.74	7.74		32.24	32.24		102.2	102.2		7.29	7.28		2.40	2.13		6	
3/12/2011	5:15	Fine	Middle	3	20.00	20.00	20.00	8.51	8.51	8.51	32.34	32.34	32.35	82.7	82.7	82.8	6.22	6.22	6.22	2.98	3.40	3.07	5	5.50
	5:16		Middle	3	20.00	20.00		8.51	8.51		32.35	32.35		82.8	82.8		6.22	6.22		2.90	3.01		6	
5/12/2011	23:20	Cloudy	Middle	3	20.70	20.70	20.72	7.93	7.93	7.94	32.38	32.38	32.38	82.1	82.2	82.1	6.09	6.09	6.09	3.15	2.65	2.79	5	4.50
	23:21		Middle	3	20.74	20.74		7.94	7.94		32.38	32.38		82.1	82.1		6.09	6.08		2.68	2.68		4	
7/12/2011	23:55	Cloudy	Middle	2	21.70	21.70	21.76	7.57	7.57	7.57	32.11	32.11	32.11	91.0	91.1	91.1	6.63	6.63	6.63	2.41	2.70	2.37	7	5.00
	23:56		Middle	2	21.82	21.82		7.56	7.56		32.11	32.11		91.1	91.0		6.63	6.62		2.14	2.21		3	
9/12/2011	0:22	Cloudy	Middle	3	18.86	18.86	18.85	8.35	8.35	8.35	31.89	31.89	31.93	71.6	71.6	71.6	5.51	5.51	5.52	1.83	1.88	1.84	5	5.50
	0:23		Middle	3	18.83	18.83		8.35	8.35		31.96	31.97		71.6	71.6		5.52	5.52		1.82	1.81		6	
13/12/2011	0:55	Fine	Middle	3	18.70	18.70	18.71	8.07	8.07	8.08	31.83	31.83	31.83	83.3	83.2	83.2	6.43	6.42	6.42	1.85	1.65	1.74	<2	<2
	0:56		Middle	3	18.71	18.71		8.08	8.08		31.83	31.83		83.2	83.0		6.42	6.41		1.71	1.75		<2	
15/12/2011	2:20	Fine	Middle	3	19.59	19.59	19.56	7.75	7.75	7.75	31.68	31.68	31.68	79.6	79.7	79.7	6.06	6.06	6.06	1.70	1.46	1.61	5	3.50
	2:21		Middle	3	19.53	19.54		7.75	7.75		31.68	31.68		79.7	79.7		6.06	6.06		1.56	1.70		2	
17/12/2011	4:12	Cloudy	Middle	3	18.21	18.21	18.23	8.07	8.07	8.07	31.32	31.32	31.31	81.3	81.3	81.3	6.35	6.36	6.36	1.83	2.08	2.02	<2	4.00
	4:13		Middle	3	18.24	18.24		8.07	8.07		31.30	31.30		81.3	81.4		6.36	6.36		2.11	2.07		4	
19/12/2011	22:48	Fine	Middle	2	18.53	18.53	18.54	8.07	8.07	8.07	31.79	31.79	31.79	74.9	74.8	74.8	5.80	5.79	5.79	2.36	2.35	2.17	7	6.00
	22:49		Middle	2	18.54	18.54		8.07	8.07		31.79	31.79		74.8	74.8		5.79	5.79		1.96	2.01		5	
21/12/2011	20:06	Cloudy	Middle	3	18.91	18.91	18.99	7.74	7.74	7.74	31.39	31.39	31.41	71.6	71.6	71.6	5.50	5.51	5.51	2.47	2.40	2.37	6	6.50
	20:07		Middle	3	19.08	19.05		7.74	7.74		31.42	31.42		71.6	71.6		5.51	5.51		2.30	2.32		7	
23/12/2011	1:17	Cloudy	Middle	2	16.84	16.84	16.84	8.33	8.33	8.33	31.49	31.49	31.49	66.6	66.7	66.7	5.34	5.35	5.35	1.76	1.52	1.55	5	8.00
	1:18		Middle	2	16.83	16.83		8.33	8.33		31.49	31.49		66.7	66.7		5.35	5.35		1.63	1.28		11	
26/12/2011	3:24	Cloudy	Middle	3	17.17	17.17	17.17	8.04	8.04	8.04	31.59	31.59	31.59	64.5	64.6	64.5	5.14	5.14	5.14	1.18	1.22	1.22	3	6.50
	3:25		Middle	3	17.17	17.17		8.04	8.04		31.59	31.59		64.5	64.5		5.14	5.14		1.18	1.29		10	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	3:30	Fine	Middle	3	22.63	22.63	22.64	7.80	7.80	7.80	32.32	32.32	32.33	108.9	108.8	108.7	7.80	7.80	7.79	3.27	3.34	3.27	4	4.50
	3:31		Middle	3	22.64	22.64		7.80	7.80		32.33	32.33		108.6	108.6		7.78	7.78		3.23	3.22		5	
30/11/2011	2:50	Cloudy	Middle	3	22.89	22.89	22.90	7.68	7.68	7.68	32.20	32.20	32.20	99.9	99.9	99.9	7.10	7.10	7.10	2.75	2.65	2.69	4	4.50
	2:51		Middle	3	22.90	22.90		7.68	7.68		32.20	32.19		99.9	99.9		7.10	7.10		2.63	2.74		5	
3/12/2011	4:52	Fine	Middle	2	20.23	20.23	20.23	8.52	8.52	8.53	32.20	32.20	32.20	91.2	91.2	91.4	6.83	6.83	6.85	3.22	3.40	3.26	5	6.00
	4:53		Middle	2	20.23	20.23		8.53	8.53		32.20	32.20		91.7	91.5		6.86	6.86		3.31	3.11		7	
5/12/2011	22:55	Cloudy	Middle	3	20.81	20.81	20.81	7.87	7.87	7.87	32.29	32.29	32.29	87.0	87.0	86.9	6.44	6.44	6.43	2.76	2.70	2.85	4	3.50
	22:56		Middle	3	20.81	20.81		7.87	7.87		32.29	32.29		86.8	86.8		6.43	6.42		2.80	3.13		3	
7/12/2011	23:25	Cloudy	Middle	2	21.45	21.44	21.44	7.50	7.50	7.50	32.11	32.11	32.11	98.0	98.0	98.0	7.17	7.17	7.17	3.00	2.68	2.72	6	5.00
	23:26		Middle	2	21.44	21.44		7.50	7.50		32.11	32.11		97.9	97.9		7.16	7.16		2.54	2.65		4	
9/12/2011	23:55	Cloudy	Middle	3	19.06	19.06	19.03	8.31	8.31	8.31	31.65	31.65	31.67	74.1	74.1	74.1	5.69	5.70	5.69	3.41	4.05	3.83	7	8.00
	23:56		Middle	3	18.99	19.00		8.31	8.31		31.68	31.68		74.0	74.0		5.69	5.69		4.20	3.66		9	
13/12/2011	0:39	Fine	Middle	2	18.64	18.65	18.65	8.07	8.07	8.08	31.83	31.83	31.83	79.5	79.6	79.6	6.14	6.15	6.15	2.42	2.47	2.55	4	3.50
	0:40		Middle	2	18.66	18.66		8.09	8.09		31.82	31.82		79.7	79.7		6.16	6.16		2.93	2.37		3	
15/12/2011	2:00	Fine	Middle	2	19.35	19.35	19.38	7.69	7.69	7.69	31.75	31.75	31.74	88.0	88.1	88.1	6.72	6.73	6.72	2.52	2.49	2.43	5	5.50
	2:01		Middle	2	19.40	19.40		7.69	7.69		31.73	31.73		88.1	88.1		6.72	6.72		2.50	2.19		6	
17/12/2011	3:45	Cloudy	Middle	2	18.28	18.28	18.28	7.95	7.95	7.95	31.23	31.23	31.23	76.3	76.1	76.2	5.96	5.94	5.95	2.82	2.91	2.87	5	4.00
	3:46		Middle	2	18.28	18.28		7.95	7.95		31.23	31.23		76.2	76.0		5.95	5.93		2.78	2.95		3	
19/12/2011	22:35	Fine	Middle	2	18.70	18.70	18.77	7.92	7.92	7.92	31.59	31.59	31.59	83.9	83.9	83.9	6.47	6.47	6.47	3.36	3.46	3.41	9	8.00
	22:36		Middle	2	18.84	18.84		7.91	7.91		31.59	31.60		83.8	83.8		6.46	6.47		3.47	3.36		7	
21/12/2011	19:40	Cloudy	Middle	3	19.08	19.08	19.10	7.56	7.56	7.56	31.11	31.11	31.11	73.8	73.7	73.7	5.68	5.67	5.67	3.13	3.07	3.09	7	6.50
	19:41		Middle	3	19.11	19.11		7.56	7.56		31.11	31.11		73.5	73.6		5.67	5.67		2.89	3.27		6	
23/12/2011	0:54	Cloudy	Middle	2	16.95	16.95	16.95	8.25	8.25	8.25	30.90	30.90	30.90	65.4	65.3	65.4	5.25	5.25	5.25	3.41	3.46	3.52	5	5.50
	0:55		Middle	2	16.94	16.94		8.25	8.25		30.90	30.90		65.4	65.4		5.25	5.25		3.68	3.54		6	
26/12/2011	2:55	Cloudy	Middle	2	17.23	17.23	17.23	7.96	7.96	7.97	31.49	31.49	31.49	65.6	65.5	65.5	5.22	5.21	5.21	3.08	2.52	2.77	4	5.00
	2:56		Middle	2	17.23	17.23		7.97	7.97		31.49	31.49		65.5	65.4		5.21	5.21		2.82	2.65		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	5:15	Fine	Middle	2	22.12	22.12	22.11	8.07	8.07	8.07	32.32	32.32	32.33	89.5	89.5	89.5	6.47	6.47	6.47	3.96	3.94	4.04	6	6.00
	5:16		Middle	2	22.09	22.09		8.07	8.07		32.33	32.33		89.5	89.4		6.47	6.47		4.08	4.18		6	
30/11/2011	5:00	Cloudy	Middle	2	22.42	22.42	22.42	7.95	7.95	7.96	32.14	32.14	32.14	89.1	89.3	89.3	6.42	6.43	6.43	3.14	3.14	3.30	<2	<2
	5:01		Middle	2	22.41	22.41		7.96	7.96		32.15	32.14		89.3	89.3		6.43	6.43		3.63	3.27		<2	
3/12/2011	4:35	Fine	Middle	2	20.33	20.32	20.32	8.47	8.47	8.47	31.88	31.88	31.88	96.7	96.9	96.8	7.25	7.26	7.26	3.58	3.63	3.68	6	5.00
	4:36		Middle	2	20.31	20.31		8.47	8.47		31.88	31.89		96.7	96.8		7.28	7.26		3.74	3.75		4	
5/12/2011	22:35	Cloudy	Middle	2	20.86	20.86	20.87	7.84	7.84	7.84	32.05	32.05	32.05	94.1	94.1	94.2	6.97	6.97	6.98	3.34	3.39	3.37	8	7.00
	22:36		Middle	2	20.87	20.87		7.84	7.84		32.05	32.05		94.2	94.2		6.98	6.98		3.60	3.13		6	
7/12/2011	23:00	Cloudy	Middle	2	21.70	21.70	21.72	7.48	7.48	7.48	31.74	31.74	31.72	97.1	97.1	97.1	7.08	7.08	7.07	2.72	3.12	2.85	7	6.00
	23:01		Middle	2	21.73	21.73		7.48	7.48		31.70	31.70		97.0	97.0		7.07	7.06		2.86	2.68		5	
9/12/2011	23:31	Cloudy	Middle	2	18.40	18.40	18.39	8.23	8.23	8.23	31.82	31.82	31.83	88.4	88.4	88.4	6.86	6.86	6.86	3.35	3.15	3.35	8	8.00
	23:32		Middle	2	18.38	18.38		8.23	8.24		31.84	31.84		88.3	88.4		6.86	6.86		3.61	3.28		8	
13/12/2011	0:24	Fine	Middle	2	18.41	18.41	18.41	8.02	8.02	8.02	31.78	31.78	31.78	80.2	80.0	80.1	6.23	6.21	6.22	2.99	3.24	3.15	3	7.50
	0:25		Middle	2	18.41	18.41		8.02	8.02		31.78	31.78		80.0	80.0		6.21	6.21		3.21	3.15		12	
15/12/2011	1:40	Fine	Middle	2	19.68	19.68	19.70	7.66	7.66	7.66	31.55	31.55	31.57	88.9	88.8	88.8	6.74	6.74	6.74	2.51	2.70	2.51	9	9.00
	1:41		Middle	2	19.71	19.71		7.66	7.66		31.59	31.58		88.8	88.8		6.74	6.74		2.48	2.34		9	
17/12/2011	3:28	Cloudy	Middle	2	18.61	18.61	18.61	8.00	8.00	8.00	31.72	31.72	31.72	93.0	92.6	92.6	7.20	7.17	7.17	2.48	2.43	2.45	5	4.50
	3:29		Middle	2	18.61	18.61		8.00	7.99		31.72	31.72		92.5	92.3		7.16	7.15		2.46	2.42		4	
19/12/2011	22:24	Fine	Middle	2	18.79	18.79	18.80	7.84	7.84	7.84	31.37	31.37	31.37	92.5	92.5	92.5	7.13	7.12	7.13	2.79	2.72	2.76	5	5.50
	22:25		Middle	2	18.80	18.80		7.84	7.84		31.37	31.37		92.6	92.5		7.13	7.12		2.80	2.72		6	
21/12/2011	19:10	Cloudy	Middle	2	19.85	19.85	19.85	7.52	7.52	7.52	31.10	31.10	31.10	86.0	86.0	83.5	6.46	6.46	6.46	4.26	3.99	3.98	10	9.00
	19:11		Middle	2	19.85	19.85		7.52	7.52		31.10	31.10		86.0	76.0		6.46	6.46		3.87	3.81		8	
23/12/2011	0:31	Cloudy	Middle	2	17.17	17.17	17.17	8.24	8.24	8.24	31.48	31.48	31.48	69.4	69.5	69.5	5.53	5.54	5.54	3.56	3.80	3.74	7	6.00
	0:32		Middle	2	17.16	17.16		8.24	8.24		31.49	31.48		69.5	69.5		5.53	5.54		3.52	4.07		5	
26/12/2011	2:28	Cloudy	Middle	2	17.50	17.50	17.50	8.00	8.00	8.00	31.40	31.40	31.40	71.0	71.0	70.9	5.62	5.62	5.62	2.58	2.45	2.59	7	7.50
	2:29		Middle	2	17.50	17.50		8.00	8.00		31.40	31.40		70.9	70.8		5.61	5.61		2.55	2.78		8	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	3:15	Fine	Middle	2	22.83	22.83	22.88	7.80	7.80	7.80	32.32	32.32	32.32	109.0	108.8	108.9	7.77	7.76	7.76	3.63	3.70	3.74	4	5.00
	3:16		Middle	2	22.92	22.92		7.80	7.80		32.31	32.31		108.7	108.9		7.75	7.76		3.68	3.93		6	
30/11/2011	5:10	Cloudy	Middle	2	22.41	22.41	22.41	7.95	7.95	7.95	32.30	32.30	32.30	88.3	88.3	88.3	6.35	6.35	6.36	4.10	3.67	3.74	7	7.00
	5:11		Middle	2	22.41	22.41		7.95	7.95		32.30	32.30		88.3	88.3		6.36	6.36		3.48	3.70		<2	
3/12/2011	4:20	Fine	Middle	2	20.33	20.32	20.32	8.41	8.41	8.41	31.75	31.75	31.76	92.5	92.5	92.5	6.96	6.96	6.96	3.31	3.29	3.28	5	4.00
	4:21		Middle	2	20.31	20.31		8.41	8.41		31.75	31.77		92.5	92.5		6.96	6.96		3.21	3.29		3	
5/12/2011	22:25	Cloudy	Middle	2	21.11	21.11	21.12	7.84	7.84	7.84	31.66	31.66	31.66	99.5	99.6	99.4	7.36	7.36	7.34	4.17	4.21	3.89	5	4.50
	22:26		Middle	2	21.12	21.12		7.84	7.84		31.66	31.66		99.2	99.1		7.33	7.32		3.68	3.49		4	
7/12/2011	22:50	Cloudy	Middle	2	21.72	21.72	21.72	7.46	7.46	7.46	31.73	31.73	31.73	95.5	95.5	95.5	6.96	6.95	6.95	3.40	3.50	3.46	6	5.50
	22:51		Middle	2	21.72	21.72		7.46	7.46		31.73	31.73		95.5	95.4		6.95	6.95		3.46	3.47		5	
9/12/2011	23:18	Cloudy	Middle	2	18.63	18.63	18.63	8.16	8.16	8.16	31.44	31.44	31.44	89.1	89.0	89.0	6.90	6.90	6.90	3.65	3.66	3.74	6	7.00
	23:19		Middle	2	18.62	18.62		8.16	8.16		31.44	31.44		89.0	89.0		6.90	6.89		3.62	4.04		8	
13/12/2011	0:11	Fine	Middle	2	18.91	18.91	18.91	8.00	8.00	8.01	31.56	31.56	31.56	89.3	89.4	89.4	6.88	6.89	6.89	3.62	4.05	3.64	3	3.50
	0:12		Middle	2	18.90	18.90		8.01	8.01		31.56	31.56		89.4	89.5		6.89	6.90		3.43	3.45		4	
15/12/2011	1:26	Fine	Middle	2	19.66	19.66	19.66	7.61	7.61	7.61	31.44	31.44	31.44	88.1	88.1	88.1	6.67	6.67	6.67	3.47	3.43	3.38	8	6.50
	1:27		Middle	2	19.66	19.66		7.61	7.61		31.44	31.44		88.1	88.1		6.67	6.67		3.27	3.35		5	
17/12/2011	3:08	Cloudy	Middle	2	18.76	18.76	18.76	7.98	7.98	7.98	31.64	31.64	31.64	98.6	98.8	99.2	7.63	7.64	7.66	2.08	2.05	2.06	7	6.00
	3:09		Middle	2	18.76	18.76		7.97	7.97		31.64	31.64		99.6	99.6		7.68	7.68		2.26	1.83		5	
19/12/2011	22:18	Fine	Middle	2	19.08	19.08	19.11	7.74	7.74	7.74	30.42	30.42	30.41	84.4	84.4	84.4	6.52	6.52	6.52	5.85	5.91	5.93	7	6.50
	22:19		Middle	2	19.13	19.13		7.74	7.74		30.40	30.40		84.4	84.4		6.52	6.52		6.06	5.90		6	
21/12/2011	19:18	Cloudy	Middle	2	19.31	19.31	19.38	7.47	7.47	7.47	31.15	31.15	31.13	77.3	77.0	77.1	5.92	5.90	5.91	3.74	3.25	3.43	9	9.00
	19:19		Middle	2	19.44	19.44		7.47	7.47		31.11	31.11		77.0	77.0		5.90	5.90		3.43	3.30		9	
23/12/2011	0:18	Cloudy	Middle	2	17.46	17.46	17.46	8.15	8.15	8.15	31.02	31.02	31.02	66.5	66.5	66.5	5.28	5.28	5.29	6.02	5.36	5.73	6	6.50
	0:19		Middle	2	17.46	17.46		8.15	8.15		31.02	31.02		66.6	66.5		5.29	5.29		5.45	6.07		7	
26/12/2011	2:10	Cloudy	Middle	2	17.59	17.59	17.59	7.95	7.95	7.95	31.27	31.27	31.27	70.0	70.0	69.9	5.54	5.54	5.53	3.74	3.24	3.41	5	6.00
	2:11		Middle	2	17.59	17.59		7.95	7.95		31.27	31.27		69.7	69.7		5.52	5.51		3.30	3.36		7	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:56	Fine	Middle	2	22.96	22.96	22.97	7.75	7.75	7.75	32.13	32.13	32.13	78.7	78.7	78.7	5.61	5.61	5.61	1.99	1.89	1.89	6	5.00
	2:57		Middle	2	22.97	22.97		7.75	7.75		32.13	32.13		78.6	78.6		5.60	5.60		1.89	1.80		4	
30/11/2011	4:55	Cloudy	Middle	2	22.95	22.95	22.95	7.88	7.88	7.88	31.80	31.80	31.80	114.3	114.6	114.7	8.17	8.19	8.20	1.71	1.59	1.65	6	6.00
	4:56		Middle	2	22.95	22.95		7.88	7.88		31.80	31.80		114.8	114.9		8.21	8.21		1.63	1.68		<2	
3/12/2011	3:49	Fine	Middle	2	20.50	20.50	20.49	8.33	8.33	8.33	31.87	31.87	31.87	89.4	89.5	89.5	6.68	6.68	6.69	2.93	2.78	2.80	6	5.00
	3:50		Middle	2	20.47	20.47		8.33	8.33		31.87	31.87		89.5	89.5		6.69	6.69		2.74	2.76		4	
5/12/2011	21:55	Cloudy	Middle	2	21.17	21.17	21.17	7.72	7.72	7.72	31.53	31.53	31.53	96.9	96.9	96.9	7.16	7.16	7.16	3.78	3.82	3.82	6	5.50
	21:56		Middle	2	21.17	21.17		7.72	7.72		31.53	31.53		96.9	96.9		7.16	7.16		3.87	3.81		5	
7/12/2011	22:20	Cloudy	Middle	2	21.84	21.84	21.84	7.42	7.42	7.42	31.64	31.64	31.64	80.0	80.0	79.9	5.83	5.83	5.82	2.41	2.44	2.40	8	7.00
	22:21		Middle	2	21.84	21.84		7.42	7.42		31.64	31.64		79.8	79.7		5.81	5.81		2.40	2.33		6	
9/12/2011	22:45	Cloudy	Middle	2	19.27	19.27	19.21	8.19	8.19	8.19	31.62	31.62	31.64	62.8	62.8	62.9	4.80	4.80	4.81	1.78	1.90	1.77	7	4.50
	22:46		Middle	2	19.15	19.16		8.19	8.19		31.66	31.66		62.9	63.1		4.82	4.83		1.74	1.67		2	
13/12/2011	23:57	Fine	Middle	2	18.82	18.82	18.83	7.92	7.92	7.92	31.36	31.36	31.36	73.6	73.5	73.6	5.68	5.68	5.68	4.39	4.20	4.02	4	3.00
	23:58		Middle	2	18.83	18.83		7.92	7.92		31.36	31.36		73.6	73.6		5.68	5.69		3.80	3.68		2	
15/12/2011	0:55	Fine	Middle	2	19.89	19.89	19.92	7.58	7.58	7.58	31.37	31.37	31.37	65.8	65.9	66.0	4.98	4.99	4.99	1.56	1.64	1.56	5	3.50
	0:56		Middle	2	19.94	19.94		7.58	7.58		31.36	31.36		66.0	66.1		5.00	5.00		1.51	1.54		2	
17/12/2011	2:35	Cloudy	Middle	2	18.87	18.87	18.87	7.88	7.88	7.88	31.42	31.42	31.42	69.5	69.4	69.4	5.36	5.35	5.35	1.21	1.03	1.06	6	5.50
	2:36		Middle	2	18.87	18.87		7.88	7.88		31.42	31.42		69.3	69.3		5.34	5.35		0.97	1.02		5	
19/12/2011	22:06	Fine	Middle	2	18.98	18.99	18.99	7.78	7.78	7.78	31.16	31.16	31.16	70.0	70.0	70.1	5.39	5.39	5.40	1.62	1.21	1.31	4	3.50
	22:07		Middle	2	19.00	19.00		7.78	7.78		31.16	31.16		70.1	70.2		5.40	5.40		1.11	1.30		3	
21/12/2011	22:08	Cloudy	Middle	2	19.37	19.37	19.38	7.75	7.75	7.75	31.03	31.03	31.03	84.6	84.5	84.5	6.46	6.46	6.43	2.18	1.98	1.99	8	8.00
	22:09		Middle	2	19.38	19.38		7.74	7.74		31.03	31.03		84.4	84.4		6.40	6.40		1.95	1.85		8	
23/12/2011	23:52	Cloudy	Middle	2	17.33	17.33	17.33	8.19	8.19	8.19	30.95	30.95	30.95	68.7	68.6	68.4	5.48	5.47	5.46	4.54	4.93	4.79	9	8.00
	23:53		Middle	2	17.32	17.33		8.19	8.19		30.95	30.95		68.3	68.1		5.44	5.43		4.91	4.79		7	
26/12/2011	1:30	Cloudy	Middle	2	17.56	17.56	17.57	7.95	7.95	7.95	31.19	31.19	31.19	60.7	60.7	60.7	4.81	4.81	4.81	1.47	1.56	1.52	13	8.50
	1:31		Middle	2	17.57	17.57		7.95	7.95		31.19	31.19		60.6	60.6		4.80	4.80		1.58	1.48		4	

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

Water Monitoring Result at C1 - HKCEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	4:27	Fine	Middle	0.5	22.20	22.20	22.20	7.91	7.91	7.91	32.10	32.10	32.10	86.8	86.5	86.4	6.51	6.46	6.46	4.09	4.32	4.16	8	8.00
	4:30		Middle	0.5	22.20	22.20		7.91	7.91		32.10	32.10		86.0	86.4		6.45	6.41		4.08	4.16		8	
30/11/2011	4:25	Cloudy	Middle	1.0	22.60	22.60	22.60	7.89	7.89	7.89	32.10	32.10	32.10	93.0	92.8	92.7	6.36	6.33	6.32	2.52	2.31	2.42	6	7.00
	4:28		Middle	1.0	22.60	22.60		7.89	7.89		32.10	32.10		92.6	92.5		6.30	6.29		2.52	2.33		8	
3/12/2011	5:00	Fine	Middle	2.0	19.20	19.20	19.20	7.99	7.99	7.99	32.30	32.30	32.30	91.9	91.8	91.5	6.96	6.95	6.94	2.18	2.05	2.30	7	6.00
	5:03		Middle	2.0	19.20	19.20		7.99	7.99		32.30	32.30		91.2	90.9		6.93	6.91		2.32	2.66		5	
5/12/2011	21:18	Cloudy	Middle	2.5	20.70	20.70	20.70	7.98	7.98	7.98	32.00	32.00	32.00	92.6	92.4	92.4	6.96	6.96	6.95	2.52	2.66	2.72	4	4.50
	21:20		Middle	2.5	20.70	20.70		7.98	7.98		32.00	32.00		92.3	92.1		6.95	6.94		2.88	2.81		5	
7/12/2011	21:45	Cloudy	Middle	2.0	21.60	21.60	21.60	7.92	7.92	7.92	31.80	31.80	31.80	83.8	83.8	83.8	6.19	6.19	6.19	2.65	2.00	2.23	5	8.50
	21:47		Middle	2.0	21.60	21.60		7.92	7.92		31.80	31.80		83.7	83.7		6.18	6.18		2.12	2.15		12	
9/12/2011	22:17	Cloudy	Middle	2.0	18.90	18.90	18.90	8.01	8.01	8.01	32.10	32.10	32.10	92.3	92.1	92.0	7.22	7.20	7.19	2.75	2.45	2.69	6	5.00
	22:19		Middle	2.0	18.90	18.90		8.01	8.01		32.10	32.10		91.8	91.7		7.18	7.17		2.61	2.94		4	
13/12/2011	0:54	Fine	Middle	1.5	18.60	18.60	18.60	7.95	7.95	7.95	31.90	31.90	31.90	86.8	86.2	86.3	6.76	6.70	6.71	1.50	1.22	1.38	3	3.00
	0:56		Middle	2.0	18.60	18.60		7.95	7.95		31.90	31.90		86.2	86.1		6.70	6.69		1.32	1.46		<2	
15/12/2011	1:52	Fine	Middle	2.0	19.20	19.20	19.30	7.92	7.92	7.91	31.80	31.80	31.75	91.8	91.6	91.5	7.12	7.10	7.09	2.85	2.72	2.79	4	4.00
	1:54		Middle	2.0	19.40	19.40		7.90	7.90		31.70	31.70		91.4	91.2		7.08	7.07		2.70	2.90		4	
17/12/2011	4:48	Cloudy	Middle	1.5	17.90	17.90	17.95	7.98	7.98	7.98	32.00	32.00	31.90	93.3	93.2	93.2	7.44	7.44	7.43	2.26	2.12	2.18	6	8.00
	4:50		Middle	1.5	18.00	18.00		7.98	7.98		31.80	31.80		93.1	93.0		7.43	7.42		2.06	2.28		10	
19/12/2011	20:05	Fine	Middle	1.5	18.30	18.30	18.30	7.97	7.97	7.97	31.60	31.60	31.60	91.9	91.8	91.8	7.20	7.18	7.17	2.85	2.60	2.62	7	6.00
	20:07		Middle	1.5	18.30	18.30		7.97	7.97		31.60	31.60		91.8	91.5		7.18	7.11		2.34	2.69		5	
21/12/2011	20:06	Cloudy	Middle	1.0	19.30	19.30	19.40	7.93	7.93	7.93	31.50	31.50	31.50	92.1	92.1	91.9	7.10	7.10	7.08	1.90	1.39	1.84	6	5.00
	20:08		Middle	1.0	19.50	19.50		7.93	7.93		31.50	31.50		91.7	91.7		7.06	7.06		2.12	1.96		4	
23/12/2011	21:56	Cloudy	Middle	2.5	18.00	18.00	18.00	8.05	8.05	8.04	30.50	30.50	30.30	71.1	70.2	67.0	5.62	5.59	5.30	2.01	1.78	1.93	4	4.50
	21:58		Middle	2.5	18.00	18.00		8.03	8.03		30.10	30.10		64.5	62.2		5.08	4.92		1.92	2.01		5	
26/12/2011	3:00	Cloudy	Middle	1.5	16.90	16.90	16.95	7.99	7.99	7.99	30.70	30.70	30.65	81.1	77.7	75.2	6.52	6.24	6.04	2.94	2.76	2.75	6	6.50
	3:02		Middle	1.5	17.00	17.00		7.98	7.98		30.60	30.60		75.5	66.4		6.07	5.31		2.77	2.52		7	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:20	Fine	Middle	1.0	23.00	23.00	23.00	7.89	7.89	7.89	32.00	32.00	32.00	88.6	88.2	88.1	6.18	6.15	6.14	1.79	1.78	1.80	4	4.00
	2:23		Middle	1.0	23.00	23.00		7.89	7.89		32.00	32.00		88.1	87.3		6.13	6.11		1.78	1.85		4	
30/11/2011	2:10	Cloudy	Middle	2.5	23.20	23.20	23.20	7.83	7.83	7.83	32.00	32.00	32.00	84.1	84.0	83.9	5.90	5.85	5.85	1.59	1.50	1.52	4	4.50
	2:14		Middle	2.5	23.20	23.20		7.83	7.83		32.00	32.00		83.9	83.7		5.83	5.81		1.48	1.49		5	
3/12/2011	2:41	Fine	Middle	1.5	20.80	20.80	20.80	7.97	7.97	7.97	32.00	32.00	32.00	83.8	83.6	83.5	6.17	6.16	6.15	2.03	1.62	1.83	4	3.50
	2:44		Middle	1.5	20.80	20.80		7.97	7.97		32.00	32.00		83.5	83.0		6.14	6.11		1.67	2.01		3	
5/12/2011	19:28	Cloudy	Middle	1.5	21.40	21.40	21.40	7.97	7.97	7.97	31.90	31.90	31.90	91.0	90.8	90.7	6.66	6.64	6.64	2.37	2.51	2.58	9	7.50
	19:30		Middle	1.5	21.40	21.40		7.97	7.97		31.90	31.90		90.6	90.5		6.64	6.63		2.42	3.03		6	
7/12/2011	20:03	Cloudy	Middle	1.5	21.90	21.90	21.90	7.92	7.92	7.92	31.80	31.80	31.80	79.6	79.5	79.4	5.80	5.78	5.77	2.06	1.88	1.99	3	5.50
	20:05		Middle	1.5	21.90	21.90		7.92	7.92		31.80	31.80		79.3	79.1		5.76	5.75		1.94	2.08		8	
9/12/2011	20:28	Cloudy	Middle	2.0	19.90	19.90	19.90	8.04	8.04	8.04	31.70	31.70	31.70	93.0	92.8	92.8	7.01	6.98	6.97	2.21	2.17	2.30	4	4.00
	20:30		Middle	2.0	19.90	19.90		8.04	8.04		31.70	31.70		92.6	92.6		6.95	6.95		2.40	2.42		4	
13/12/2011	22:40	Fine	Middle	1.5	19.80	19.80	19.80	8.05	8.05	8.05	31.50	31.50	31.50	90.2	90.0	90.0	6.81	6.79	6.78	2.33	2.57	2.44	3	2.50
	22:42		Middle	1.5	19.80	19.80		8.05	8.05		31.50	31.50		90.0	89.8		6.78	6.75		2.54	2.31		2	
15/12/2011	23:46	Fine	Middle	2.0	20.40	20.40	20.40	7.94	7.94	7.94	31.40	31.40	31.40	90.1	90.1	90.0	6.74	6.74	6.72	1.96	1.89	1.99	5	4.00
	23:48		Middle	2.0	20.40	20.40		7.93	7.93		31.40	31.40		89.8	89.8		6.69	6.69		2.20	1.91		3	
17/12/2011	3:05	Cloudy	Middle	1.5	19.30	19.30	19.30	7.89	7.89	7.89	31.80	31.80	31.80	87.9	87.5	87.5	6.71	6.68	6.67	2.03	1.24	1.55	7	6.50
	3:07		Middle	1.5	19.30	19.30		7.88	7.88		31.80	31.80		87.4	87.3		6.65	6.63		1.51	1.41		6	
19/12/2011	20:17	Fine	Middle	1.5	18.60	18.60	18.60	7.92	7.92	7.92	31.50	31.50	31.50	82.7	82.5	82.5	6.51	6.48	6.47	1.67	1.91	1.96	5	5.00
	20:19		Middle	1.5	18.60	18.60		7.92	7.92		31.50	31.50		82.4	82.2		6.46	6.44		2.25	2.00		5	
21/12/2011	22:06	Cloudy	Middle	1.0	19.20	19.20	19.20	7.91	7.91	7.92	31.30	31.30	31.25	89.9	89.6	89.4	6.96	6.92	6.92	0.88	1.23	1.02	5	4.50
	22:08		Middle	1.0	19.20	19.20		7.92	7.92		31.20	31.20		89.3	88.9		6.90	6.88		0.97	0.99		4	
23/12/2011	21:42	Cloudy	Middle	1.5	18.10	18.10	18.20	8.12	8.12	8.12	30.80	30.80	30.70	65.0	63.9	63.5	5.06	5.03	4.98	1.73	1.40	1.54	3	3.00
	21:44		Middle	1.5	18.30	18.30		8.12	8.12		30.60	30.60		63.0	62.2		4.93	4.89		1.37	1.64		3	
26/12/2011	1:15	Cloudy	Middle	1.0	17.50	17.50	17.50	7.91	7.91	7.92	30.60	30.60	30.50	72.0	70.4	68.3	5.73	5.60	5.44	1.16	1.11	1.17	3	3.00
	1:17		Middle	1.0	17.50	17.50		7.93	7.93		30.40	30.40		66.7	64.2		5.30	5.11		1.16	1.26		3	

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

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

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:57	Fine	Middle	2.0	22.40	22.40	22.40	7.92	7.92	7.92	31.60	31.60	31.60	76.2	75.8	75.6	5.63	5.61	5.60	3.03	2.65	2.91	3	3.50
	3:00		Middle	2.0	22.40	22.40		7.92	7.92		31.60	31.60		75.3	75.0		5.59	5.58		3.07	2.89		4	
30/11/2011	2:50	Cloudy	Middle	2.0	22.80	22.80	22.80	7.85	7.85	7.85	31.60	31.60	31.60	80.8	80.5	80.5	5.64	5.60	5.60	3.97	4.10	4.11	<2	<2
	2:53		Middle	2.0	22.80	22.80		7.85	7.85		31.60	31.60		80.4	80.3		5.58	5.57		4.19	4.17		<2	
3/12/2011	3:20	Fine	Middle	1.5	20.50	20.50	20.50	7.92	7.92	7.92	31.70	31.70	31.70	83.4	83.0	83.0	6.12	6.10	6.09	3.03	3.10	3.13	5	5.00
	3:23		Middle	1.5	20.50	20.50		7.92	7.92		31.70	31.70		82.9	82.5		6.08	6.07		3.24	3.14		5	
5/12/2011	19:47	Cloudy	Middle	2.0	21.20	21.20	21.20	7.95	7.95	7.95	31.80	31.80	31.80	80.5	80.3	80.3	5.90	5.88	5.87	6.91	6.77	6.71	10	10.00
	19:50		Middle	2.0	21.20	21.20		7.95	7.95		31.80	31.80		80.2	80.1		5.86	5.85		6.51	6.63		10	
7/12/2011	20:18	Cloudy	Middle	3.0	21.90	21.90	21.90	7.91	7.91	7.91	31.60	31.60	31.60	77.5	77.3	77.3	5.72	5.71	5.70	2.38	2.19	2.33	4	4.50
	20:20		Middle	3.0	21.90	21.90		7.91	7.91		31.60	31.60		77.2	77.0		5.70	5.68		2.13	2.60		5	
9/12/2011	20:43	Cloudy	Middle	3.5	20.30	20.30	20.30	7.95	7.95	7.95	31.60	31.60	31.60	85.7	85.5	85.5	6.57	6.54	6.54	5.68	6.30	5.90	7	7.50
	20:45		Middle	3.5	20.30	20.30		7.95	7.95		31.60	31.60		85.4	85.3		6.53	6.52		6.20	5.40		8	
13/12/2011	23:37	Fine	Middle	2.0	18.90	18.90	18.90	7.98	7.98	7.98	32.10	32.10	32.10	88.3	87.8	87.7	7.09	7.03	7.02	3.04	3.04	3.18	2	2.00
	23:39		Middle	2.0	18.90	18.90		7.98	7.98		32.10	32.10		87.5	87.2		6.99	6.97		3.19	3.44		2	
15/12/2011	0:30	Fine	Middle	1.5	19.60	19.60	19.60	7.84	7.84	7.84	31.40	31.40	31.40	86.1	85.8	85.6	6.67	6.64	6.60	3.09	3.12	3.14	5	5.50
	0:32		Middle	1.5	19.60	19.60		7.84	7.84		31.40	31.40		85.3	85.0		6.57	6.53		3.22	3.11		6	
17/12/2011	3:18	Cloudy	Middle	2.5	18.60	18.60	18.60	7.82	7.82	7.82	31.10	31.10	31.10	69.6	69.5	69.5	5.55	5.53	5.52	2.60	2.81	2.71	6	6.00
	3:20		Middle	2.5	18.60	18.60		7.82	7.82		31.10	31.10		69.4	69.3		5.51	5.49		3.06	2.38		<2	
19/12/2011	18:25	Fine	Middle	2.0	18.40	18.40	18.50	7.89	7.89	7.90	31.10	31.10	31.20	79.9	79.6	79.5	6.10	6.06	6.06	3.71	3.66	3.56	6	6.00
	18:27		Middle	2.0	18.60	18.60		7.90	7.90		31.30	31.30		79.5	79.1		6.05	6.02		3.50	3.36		6	
21/12/2011	21:43	Cloudy	Middle	1.5	19.20	19.20	19.10	7.94	7.94	7.93	31.00	31.00	31.00	83.5	83.3	83.2	6.40	6.37	6.36	1.56	1.61	1.60	5	4.50
	21:45		Middle	1.5	19.00	19.00		7.92	7.92		31.00	31.00		83.0	82.8		6.34	6.31		1.56	1.66		4	
23/12/2011	23:27	Cloudy	Middle	1.5	17.80	17.80	17.80	7.88	7.88	7.88	30.50	30.50	30.55	63.3	60.3	59.4	5.18	4.85	4.80	2.91	3.20	3.24	5	6.00
	23:29		Middle	1.5	17.80	17.80		7.88	7.88		30.60	30.60		58.0	55.9		4.66	4.49		3.92	2.92		7	
26/12/2011	1:53	Cloudy	Middle	2.5	17.40	17.40	17.40	8.09	8.09	8.08	30.10	30.10	30.25	65.0	62.0	60.5	5.25	5.01	4.89	4.80	5.08	4.79	8	9.50
	1:54		Middle	2.5	17.40	17.40		8.06	8.06		30.40	30.40		59.0	55.9		4.77	4.52		4.45	4.83		11	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:37	Fine	Middle	2.0	22.60	22.60	22.60	7.89	7.89	7.89	32.00	32.00	32.00	80.9	80.6	80.6	6.26	6.23	6.22	5.91	5.47	5.65	30	**25.00**
	2:40		Middle	2.0	22.60	22.60		7.89	7.89		32.00	32.00		80.5	80.4		6.20	6.18		5.11	6.09		20	
30/11/2011	2:32	Cloudy	Middle	2.5	22.20	22.20	22.20	7.82	7.82	7.82	31.80	31.80	31.80	90.0	89.8	89.7	6.88	6.85	6.84	3.54	3.26	3.31	<2	8.00
	2:35		Middle	2.5	22.20	22.20		7.82	7.82		31.80	31.80		89.5	89.3		6.84	6.80		3.06	3.36		8	
3/12/2011	3:06	Fine	Middle	2.5	20.30	20.30	20.30	7.91	7.91	7.91	31.60	31.60	31.60	81.4	81.0	81.0	6.26	6.25	6.23	2.91	2.66	2.72	4	4.00
	3:09		Middle	2.5	20.30	20.30		7.91	7.91		31.60	31.60		80.8	80.7		6.22	6.19		2.64	2.65		4	
5/12/2011	20:02	Cloudy	Middle	2.5	20.90	20.90	20.90	7.93	7.93	7.93	31.70	31.70	31.70	84.1	84.0	83.9	6.42	6.41	6.39	6.25	6.97	6.50	9	8.00
	20:05		Middle	2.5	20.90	20.90		7.93	7.93		31.70	31.70		84.0	83.4		6.37	6.35		6.49	6.28		7	
7/12/2011	20:38	Cloudy	Middle	2.5	21.90	21.90	21.90	7.91	7.91	7.91	31.70	31.70	31.70	87.6	87.5	87.4	6.50	6.49	6.48	2.37	1.87	2.07	6	6.00
	20:40		Middle	2.5	21.90	21.90		7.91	7.91		31.70	31.70		87.4	87.2		6.47	6.45		1.99	2.05		6	
9/12/2011	21:03	Cloudy	Middle	2.0	19.30	19.30	19.30	7.97	7.97	7.97	32.20	32.20	32.20	90.1	89.7	89.7	6.96	6.89	6.89	3.35	3.59	3.55	8	6.00
	21:05		Middle	2.0	19.30	19.30		7.97	7.97		32.20	32.20		89.6	89.4		6.87	6.85		3.45	3.82		4	
13/12/2011	23:08	Fine	Middle	2.5	18.70	18.70	18.70	7.95	7.95	7.95	31.90	31.90	31.90	89.3	89.2	89.0	6.80	6.78	6.76	2.59	2.58	2.59	2	2.00
	23:10		Middle	2.5	18.70	18.70		7.95	7.95		31.90	31.90		89.0	88.5		6.76	6.70		2.58	2.61		<2	
15/12/2011	0:10	Fine	Middle	2.5	19.80	19.80	19.80	7.83	7.83	7.82	31.50	31.50	31.60	77.1	76.8	76.8	5.95	5.93	5.92	2.60	2.85	2.70	3	3.00
	0:12		Middle	2.5	19.80	19.80		7.81	7.81		31.70	31.70		76.6	76.5		5.91	5.88		2.69	2.67		3	
17/12/2011	3:38	Cloudy	Middle	1.5	18.30	18.30	18.25	7.78	7.78	7.77	31.40	31.40	31.40	72.1	71.8	71.8	5.96	5.94	5.93	1.66	2.29	1.81	5	4.50
	3:40		Middle	1.5	18.20	18.20		7.75	7.75		31.40	31.40		71.6	71.5		5.91	5.90		1.61	1.66		4	
19/12/2011	18:00	Fine	Middle	2.5	18.80	18.80	18.85	7.91	7.91	7.91	31.20	31.20	31.20	79.2	79.0	78.8	6.09	6.05	6.05	3.64	3.34	3.33	6	5.50
	18:02		Middle	2.5	18.90	18.90		7.91	7.91		31.20	31.20		78.7	78.2		6.03	6.01		3.23	3.09		5	
21/12/2011	21:34	Cloudy	Middle	2.0	18.40	18.40	18.40	7.83	7.83	7.82	31.20	31.20	31.30	84.3	84.0	84.0	6.60	6.58	6.58	1.33	1.28	1.32	12	8.50
	21:36		Middle	2.0	18.40	18.40		7.81	7.81		31.40	31.40		84.0	83.8		6.58	6.56		1.35	1.33		5	
23/12/2011	23:17	Cloudy	Middle	1.5	17.00	17.00	17.10	8.02	8.02	8.02	30.50	30.50	30.50	63.4	62.2	61.1	5.31	5.04	4.99	2.87	2.98	2.89	6	6.00
	23:19		Middle	1.5	17.20	17.20		8.02	8.02		30.50	30.50		60.4	58.4		4.89	4.73		2.88	2.81		6	
26/12/2011	1:39	Cloudy	Middle	1.0	17.40	17.40	17.30	7.99	7.99	7.99	30.40	30.40	30.30	61.1	59.0	57.5	4.88	4.72	4.60	5.69	5.32	5.07	12	11.00
	1:41		Middle	1.0	17.20	17.20		7.98	7.98		30.20	30.20		55.6	54.4		4.44	4.35		4.84	4.41		10	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:45	Fine	Middle	2.0	22.70	22.70	22.70	7.83	7.83	7.83	32.00	32.00	32.00	70.7	70.6	70.5	4.94	4.93	4.92	1.09	1.06	1.02	2	2.00
	2:48		Middle	2.0	22.70	22.70		7.83	7.83		32.00	32.00		70.4	70.2		4.90	4.89		0.95	0.98		<2	
30/11/2011	2:57	Cloudy	Middle	2.5	23.10	23.10	23.10	7.79	7.79	7.79	31.90	31.90	31.90	76.0	75.6	75.5	5.75	5.72	5.72	1.85	1.47	1.53	2	2.50
	3:00		Middle	2.5	23.10	23.10		7.79	7.79		31.90	31.90		75.3	75.1		5.71	5.70		1.39	1.41		3	
3/12/2011	3:32	Fine	Middle	2.0	20.10	20.10	20.10	7.84	7.84	7.84	31.80	31.80	31.80	76.3	76.2	76.0	5.86	5.85	5.85	1.35	1.12	1.14	3	2.50
	3:35		Middle	2.0	20.10	20.10		7.84	7.84		31.80	31.80		75.8	75.7		5.84	5.83		1.03	1.06		2	
5/12/2011	19:37	Cloudy	Middle	2.5	21.20	21.20	21.20	7.90	7.90	7.90	31.70	31.70	31.70	80.7	80.5	80.2	6.32	6.28	6.24	2.71	2.16	2.41	6	5.00
	19:40		Middle	2.5	21.20	21.20		7.90	7.90		31.70	31.70		80.1	79.5		6.18	6.16		2.05	2.70		4	
7/12/2011	20:28	Cloudy	Middle	2.0	21.90	21.90	21.90	7.86	7.86	7.86	31.60	31.60	31.60	80.0	79.5	79.5	5.71	5.62	5.63	0.98	1.61	1.14	2	2.50
	20:30		Middle	2.0	21.90	21.90		7.86	7.86		31.60	31.60		79.3	79.1		5.60	5.59		1.02	0.96		3	
9/12/2011	20:56	Cloudy	Middle	1.5	19.90	19.90	19.90	7.89	7.89	7.89	31.50	31.50	31.50	81.9	81.7	81.7	6.13	6.10	6.10	1.87	1.77	1.91	7	5.00
	20:58		Middle	1.5	19.90	19.90		7.89	7.89		31.50	31.50		81.6	81.5		6.08	6.07		2.02	1.96		3	
13/12/2011	23:20	Fine	Middle	2.5	18.80	18.80	18.80	7.96	7.96	7.96	31.90	31.90	31.90	87.5	87.0	87.2	6.68	6.62	6.65	1.84	1.93	1.93	2	2.50
	23:22		Middle	2.5	18.80	18.80		7.96	7.96		31.90	31.90		87.3	87.0		6.67	6.62		1.97	1.99		3	
15/12/2011	0:20	Fine	Middle	1.5	19.60	19.60	19.60	7.88	7.88	7.84	31.50	31.50	31.50	87.1	87.1	87.0	6.56	6.56	6.55	1.74	1.75	1.78	3	4.00
	0:22		Middle	1.5	19.60	19.60		7.80	7.80		31.50	31.50		87.1	86.8		6.56	6.50		1.81	1.82		5	
17/12/2011	3:28	Cloudy	Middle	1.5	18.60	18.60	18.55	7.76	7.76	7.78	31.20	31.20	31.10	73.6	73.5	73.4	5.54	5.53	5.52	1.95	1.88	2.03	3	3.00
	3:30		Middle	1.5	18.50	18.50		7.79	7.79		31.00	31.00		73.3	73.1		5.51	5.49		2.09	2.21		3	
19/12/2011	18:08	Fine	Middle	2.5	18.80	18.80	18.70	7.84	7.84	7.85	31.10	31.10	31.10	78.0	78.8	78.3	6.23	6.20	6.20	1.66	1.72	1.76	3	3.50
	18:10		Middle	2.5	18.60	18.60		7.86	7.86		31.10	31.10		78.3	78.1		6.19	6.18		1.84	1.83		4	
21/12/2011	21:19	Cloudy	Middle	2.0	19.30	19.30	19.30	7.86	7.86	7.86	31.30	31.30	31.20	84.0	83.6	83.6	6.52	6.42	6.43	0.93	0.85	0.83	4	4.00
	21:21		Middle	2.0	19.30	19.30		7.86	7.86		31.10	31.10		83.5	83.3		6.40	6.37		0.79	0.75		4	
23/12/2011	23:38	Cloudy	Middle	1.5	17.40	17.40	17.50	7.73	7.73	7.74	30.40	30.40	30.25	61.2	59.2	61.9	4.93	5.29	5.12	1.34	1.35	1.46	11	8.50
	23:40		Middle	1.5	17.60	17.60		7.75	7.75		30.10	30.10		64.3	63.0		5.18	5.07		1.68	1.48		6	
26/12/2011	2:07	Cloudy	Middle	1.0	17.50	17.50	17.65	7.98	7.98	7.98	30.40	30.40	30.30	59.3	55.1	54.9	4.69	4.43	4.40	2.77	3.04	3.14	40	**30.00**
	2:09		Middle	1.0	17.80	17.80		7.97	7.97		30.20	30.20		53.4	51.9		4.29	4.18		3.14	3.59		20	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	3:47	Fine	Middle	0.8	22.60	22.70	22.68	7.84	7.84	7.84	31.30	31.30	31.30	65.1	64.8	64.6	4.93	4.92	4.91	9.95	9.79	9.99	20	**19.00**
	3:50		Middle	0.8	22.70	22.70		7.84	7.84		31.30	31.30		64.3	64.2		4.90	4.87		10.20	10.00		18	
30/11/2011	3:42	Cloudy	Middle	0.5	23.00	23.00	23.00	7.84	7.84	7.84	30.90	30.90	30.90	82.6	82.3	82.2	5.70	5.68	5.67	1.84	1.80	1.98	<2	8.00
	3:45		Middle	0.5	23.00	23.00		7.84	7.84		30.90	30.90		82.0	81.7		5.66	5.65		2.24	2.02		8	
3/12/2011	4:18	Fine	Middle	1.0	19.70	19.70	19.70	7.94	7.94	7.94	31.90	31.90	31.90	83.4	83.2	83.1	6.10	6.08	6.08	1.96	1.99	1.93	3	3.00
	4:22		Middle	1.0	19.70	19.70		7.94	7.94		31.90	31.90		82.9	82.8		6.08	6.06		1.82	1.94		3	
5/12/2011	20:38	Cloudy	Middle	1.5	21.00	21.00	21.00	7.95	7.95	7.95	31.80	31.80	31.80	87.0	86.8	86.7	6.74	6.72	6.71	3.57	3.67	3.61	15	12.00
	20:40		Middle	1.5	21.00	21.00		7.95	7.95		31.80	31.80		86.5	86.3		6.70	6.68		3.63	3.56		9	
7/12/2011	21:10	Cloudy	Middle	1.5	21.80	21.80	21.80	7.90	7.90	7.90	31.80	31.80	31.80	88.8	88.2	88.2	6.62	6.61	6.60	4.19	4.67	4.28	6	9.50
	21:13		Middle	1.5	21.80	21.80		7.90	7.90		31.80	31.80		88.0	87.9		6.60	6.58		4.18	4.06		13	
9/12/2011	21:22	Cloudy	Middle	2.0	19.60	19.60	19.60	8.01	8.01	8.01	31.60	31.60	31.60	90.4	90.2	90.1	7.02	7.00	6.99	2.85	2.56	2.72	7	6.50
	21:24		Middle	2.0	19.60	19.60		8.01	8.01		31.60	31.60		90.0	89.7		6.97	6.95		2.72	2.73		6	
13/12/2011	0:10	Fine	Middle	1.5	19.30	19.30	19.30	7.95	7.95	7.95	31.60	31.60	31.60	89.3	89.0	89.4	6.92	6.89	6.87	2.93	2.73	2.83	3	3.50
	0:12		Middle	1.5	19.30	19.30		7.95	7.95		31.60	31.60		89.7	89.5		6.85	6.83		2.72	2.92		4	
15/12/2011	1:10	Fine	Middle	2.0	19.50	19.50	19.50	7.89	7.88	7.88	31.30	31.30	31.30	84.5	84.3	84.2	6.53	6.50	6.49	2.39	2.37	2.30	4	9.50
	1:12		Middle	2.0	19.50	19.50		7.88	7.88		31.30	31.30		84.1	83.9		6.47	6.46		2.36	2.08		15	
17/12/2011	4:05	Cloudy	Middle	1.5	18.50	18.50	18.50	7.94	7.94	7.94	32.00	32.00	32.00	87.2	87.2	87.2	6.90	6.90	6.89	1.44	1.63	1.55	5	3.50
	4:07		Middle	1.5	18.50	18.50		7.94	7.94		32.00	32.00		87.1	87.1		6.88	6.88		1.58	1.56		2	
19/12/2011	21:04	Fine	Middle	1.0	18.00	18.00	18.05	7.95	7.95	7.95	31.20	31.20	31.10	81.2	81.1	81.1	6.54	6.52	6.53	3.11	3.69	3.35	5	4.50
	21:06		Middle	1.0	18.20	18.00		7.95	7.95		31.00	31.00		81.0	81.0		6.54	6.50		3.48	3.11		4	
21/12/2011	21:39	Cloudy	Middle	1.5	19.30	19.30	19.30	7.62	7.62	7.62	30.80	30.80	30.80	78.3	78.2	78.3	6.00	6.00	6.00	1.58	1.64	1.63	4	3.50
	21:40		Middle	1.5	19.30	19.30		7.61	7.61		30.80	30.80		78.3	78.2		6.01	5.99		1.61	1.68		3	
23/12/2011	23:00	Cloudy	Middle	1.5	17.60	17.60	17.58	8.16	8.16	8.16	30.37	30.37	30.38	57.6	57.7	57.7	4.59	4.59	4.60	1.97	1.90	2.09	12	8.00
	23:01		Middle	1.5	17.55	17.55		8.16	8.16		30.39	30.39		57.8	57.8		4.60	4.60		2.28	2.21		4	
26/12/2011	0:40	Cloudy	Middle	1.5	17.69	17.69	17.68	7.93	7.93	7.94	30.90	30.90	30.89	62.3	62.3	62.3	4.93	4.93	4.93	2.83	2.59	2.56	6	5.00
	0:41		Middle	1.5	17.66	17.66		7.94	7.94		30.87	30.88		62.3	62.3		4.93	4.93		2.53	2.29		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	4:02	Fine	Middle	0.8	22.70	22.70	22.70	7.87	7.87	7.87	30.70	30.70	30.70	79.3	79.2	79.0	5.58	5.57	5.55	4.89	5.06	5.05	8	7.50
	4:06		Middle	0.8	22.70	22.70		7.87	7.87		30.70	30.70		78.9	78.4		5.55	5.48		5.19	5.06		7	
30/11/2011	3:53	Cloudy	Middle	1.0	23.00	23.00	23.00	7.84	7.84	7.84	30.90	30.90	30.90	80.0	78.8	78.8	6.14	6.02	6.00	2.69	2.63	2.76	10	10.00
	3:55		Middle	1.0	23.00	23.00		7.84	7.84		30.90	30.90		78.4	78.0		5.95	5.90		3.04	2.66		<2	
3/12/2011	4:27	Fine	Middle	0.5	19.90	19.90	19.90	7.96	7.96	7.96	32.10	32.10	32.10	87.4	87.4	87.1	6.78	6.78	6.76	2.49	2.10	2.18	7	6.00
	4:30		Middle	0.5	19.90	19.90		7.96	7.96		32.10	32.10		87.0	86.7		6.76	6.72		2.09	2.02		5	
5/12/2011	20:45	Cloudy	Middle	1.5	20.80	20.80	20.80	7.97	7.97	7.97	31.00	31.00	31.00	83.8	83.5	83.3	6.05	6.03	6.03	8.64	8.42	8.38	12	11.00
	20:48		Middle	1.5	20.80	20.80		7.97	7.97		31.00	31.00		83.1	82.9		6.02	6.01		8.19	8.26		10	
7/12/2011	21:18	Cloudy	Middle	1.5	21.80	21.80	21.80	7.92	7.92	7.92	31.80	31.80	31.80	88.0	88.2	87.9	6.20	6.23	6.17	3.92	3.10	3.33	4	5.00
	21:20		Middle	1.5	21.80	21.80		7.92	7.92		31.80	31.80		87.6	87.9		6.08	6.16		3.08	3.23		6	
9/12/2011	21:50	Cloudy	Middle	2.0	19.20	19.20	19.20	8.00	8.00	8.00	32.40	32.40	32.40	89.6	89.4	89.4	6.90	6.87	6.87	4.49	3.82	4.00	8	7.00
	21:52		Middle	2.0	19.20	19.20		8.00	8.00		32.40	32.40		89.4	89.1		6.87	6.82		3.96	3.73		6	
13/12/2011	0:23	Fine	Middle	1.5	18.80	18.80	18.80	7.89	7.89	7.89	32.00	32.00	32.00	91.8	91.5	91.7	7.03	7.00	7.02	4.02	3.67	3.86	10	11.00
	0:25		Middle	1.5	18.80	18.80		7.89	7.89		32.00	32.00		91.7	91.6		7.02	7.01		3.82	3.94		12	
15/12/2011	1:17	Fine	Middle	1.5	19.20	19.20	19.15	7.92	7.92	7.92	31.80	31.80	31.90	89.0	89.0	88.8	6.64	6.64	6.62	3.49	3.38	3.49	6	7.00
	1:19		Middle	1.5	19.10	19.10		7.92	7.92		32.00	32.00		88.7	88.6		6.60	6.58		3.56	3.54		8	
17/12/2011	4:13	Cloudy	Middle	1.5	18.20	18.20	18.25	7.96	7.96	7.96	30.50	30.50	30.55	86.9	86.5	86.4	6.81	6.75	6.75	2.81	1.95	2.06	8	7.00
	4:15		Middle	1.5	18.30	18.30		7.95	7.95		30.60	30.60		86.2	86.1		6.73	6.71		1.68	1.79		6	
19/12/2011	21:12	Fine	Middle	1.0	18.50	18.50	18.50	8.01	8.01	8.02	30.00	30.00	30.00	82.7	82.5	82.5	6.62	6.60	6.60	2.49	2.24	2.33	6	5.00
	21:14		Middle	1.0	18.50	18.50		8.03	8.03		30.00	30.00		82.5	82.1		6.60	6.57		2.37	2.20		4	
21/12/2011	21:32	Cloudy	Middle	1.5	20.00	20.00	20.00	7.63	7.63	7.63	31.50	31.50	31.50	81.4	81.5	81.5	6.14	6.50	6.23	2.42	2.23	2.26	4	4.00
	21:33		Middle	1.5	20.00	20.00		7.63	7.63		31.50	31.50		81.5	81.4		6.15	6.14		2.32	2.08		4	
23/12/2011	23:06	Cloudy	Middle	1.5	17.88	17.88	17.88	8.19	8.19	8.19	30.54	30.54	30.54	56.6	56.6	56.5	4.47	4.47	4.47	2.24	2.28	2.37	3	2.50
	23:07		Middle	1.5	17.88	17.88		8.19	8.19		30.54	30.54		56.4	56.4		4.46	4.46		2.51	2.46		2	
26/12/2011	0:46	Cloudy	Middle	1.5	17.79	17.79	17.79	7.96	7.96	7.96	30.76	30.76	30.76	61.6	61.6	61.6	4.87	4.87	4.87	2.12	2.12	2.20	4	4.00
	0:47		Middle	1.5	17.79	17.79		7.96	7.96		30.76	30.76		61.5	61.5		4.86	4.86		2.33	2.21		4	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	3:30	Fine	Middle	0.5	22.60	22.60	22.60	7.82	7.82	7.82	32.00	32.00	32.00	84.7	84.2	84.1	5.96	5.93	5.92	2.54	2.65	2.74	7	5.50
	3:34		Middle	0.5	22.60	22.60		7.82	7.82		32.00	32.00		83.9	83.6		5.90	5.89		3.13	2.64		4	
30/11/2011	3:27	Cloudy	Middle	1.5	23.10	23.10	23.10	7.78	7.78	7.78	31.70	31.70	31.70	84.7	84.5	84.4	5.87	5.84	5.84	2.43	2.03	2.41	5	6.00
	3:30		Middle	1.5	23.10	23.10		7.78	7.78		31.70	31.70		84.3	84.1		5.83	5.81		2.28	2.89		7	
3/12/2011	4:03	Fine	Middle	1.0	19.80	19.80	19.80	8.04	8.04	8.04	32.00	32.00	32.00	84.3	84.0	84.0	6.51	6.48	6.47	2.66	2.69	2.73	4	4.50
	4:05		Middle	1.0	19.80	19.80		8.04	8.04		32.00	32.00		84.0	83.6		6.47	6.42		2.80	2.78		5	
5/12/2011	20:18	Cloudy	Middle	1.5	21.20	21.20	21.20	7.96	7.96	7.96	31.70	31.70	31.70	92.9	92.8	92.6	6.81	6.80	6.78	3.44	4.03	3.70	6	5.50
	20:20		Middle	1.5	21.20	21.20		7.96	7.96		31.70	31.70		92.5	92.1		6.75	6.74		3.67	3.64		5	
7/12/2011	21:05	Cloudy	Middle	1.5	21.70	21.70	21.70	7.94	7.94	7.94	31.70	31.70	31.70	85.6	85.4	85.4	6.24	6.23	6.23	2.52	2.42	2.66	6	7.00
	21:07		Middle	1.5	21.70	21.70		7.94	7.94		31.70	31.70		85.3	85.3		6.22	6.22		3.08	2.61		8	
9/12/2011	21:28	Cloudy	Middle	1.5	19.50	19.50	19.50	8.03	8.03	8.03	31.80	31.80	31.80	95.8	95.6	95.5	7.37	7.34	7.33	2.96	2.90	2.87	6	6.00
	21:30		Middle	1.5	19.50	19.50		8.03	8.03		31.80	31.80		95.4	95.2		7.32	7.30		2.94	2.68		6	
13/12/2011	0:00	Fine	Middle	1.5	18.90	18.90	18.90	7.96	7.96	7.96	32.10	32.10	32.10	94.4	94.0	94.3	7.23	7.20	7.22	3.54	3.23	3.44	9	6.50
	0:02		Middle	1.5	18.90	18.90		7.96	7.96		32.10	32.10		94.6	94.0		7.25	7.20		3.73	3.26		4	
15/12/2011	0:56	Fine	Middle	1.5	19.40	19.40	19.50	7.92	7.92	7.92	31.70	31.70	31.65	92.0	91.9	91.9	6.99	6.97	6.97	3.71	3.71	3.75	5	6.00
	0:58		Middle	1.5	19.60	19.60		7.92	7.92		31.60	31.60		91.9	91.7		6.97	6.94		3.78	3.80		7	
17/12/2011	3:48	Cloudy	Middle	1.5	18.90	18.90	18.85	7.87	7.87	7.88	28.10	28.10	28.05	83.1	83.1	83.0	6.58	6.58	6.56	4.58	4.89	4.87	4	4.00
	3:50		Middle	1.5	18.80	18.80		7.88	7.88		28.00	28.00		82.8	82.8		6.53	6.53		4.51	5.50		4	
19/12/2011	18:52	Fine	Middle	1.5	18.40	18.40	18.40	7.95	7.95	7.96	31.40	31.40	31.30	87.5	87.2	87.0	6.88	6.85	6.84	3.91	2.81	3.05	7	6.00
	18:54		Middle	1.5	18.40	18.40		7.97	7.97		31.20	31.20		86.9	86.4		6.83	6.80		2.80	2.67		5	
21/12/2011	21:06	Cloudy	Middle	1.5	19.30	19.30	19.20	7.91	7.91	7.91	31.20	31.20	31.20	88.5	88.3	88.2	6.81	6.80	6.80	2.00	1.52	1.67	8	7.50
	21:07		Middle	1.5	19.10	19.10		7.91	7.91		31.20	31.20		88.1	88.0		6.79	6.78		1.65	1.49		7	
23/12/2011	23:00	Cloudy	Middle	1.5	17.20	17.20	17.10	7.98	7.98	7.98	30.60	30.60	30.60	71.8	75.3	70.9	6.15	6.01	5.80	2.70	2.90	2.78	12	9.50
	23:02		Middle	1.5	17.00	17.00		7.98	7.98		30.60	30.60		70.2	66.3		5.66	5.36		3.00	2.51		7	
26/12/2011	2:36	Cloudy	Middle	1.0	17.20	17.20	17.10	8.06	8.06	8.06	30.50	30.50	30.45	60.8	64.6	62.3	4.85	5.17	4.99	1.74	1.68	1.68	7	6.50
	2:38		Middle	1.0	17.00	17.00		8.05	8.05		30.40	30.40		62.8	61.1		5.03	4.89		1.62	1.66		6	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	2:15	Fine	Middle	1.5	22.93	22.93	22.95	7.69	7.69	7.69	32.20	32.20	32.20	87.2	87.1	87.1	6.21	6.20	6.20	5.32	5.32	5.36	8	8.00
	2:16		Middle	1.5	22.97	22.98		7.69	7.69		32.20	32.20		87.0	87.0		6.19	6.19		5.41	5.38		8	
30/11/2011	2:25	Cloudy	Middle	1.5	23.18	23.18	23.18	7.59	7.59	7.59	32.32	32.32	32.32	102.5	102.6	102.5	7.27	7.28	7.27	5.91	6.07	5.93	8	8.50
	2:26		Middle	1.5	23.18	23.18		7.59	7.59		32.32	32.32		102.5	102.5		7.27	7.27		5.82	5.93		9	
3/12/2011	6:45	Fine	Middle	1.5	20.15	20.15	20.15	8.40	8.40	8.40	32.14	32.14	32.14	81.5	81.5	81.5	6.11	6.12	6.12	3.72	4.33	3.88	6	6.00
	6:46		Middle	1.5	20.14	20.14		8.40	8.40		32.14	32.14		81.5	81.5		6.12	6.12		3.66	3.81		6	
5/12/2011	0:20	Cloudy	Middle	1.5	20.81	20.81	20.82	7.87	7.87	7.87	32.10	32.10	32.10	78.8	78.7	78.8	5.84	5.83	5.84	3.10	2.84	2.95	5	5.00
	0:21		Middle	1.5	20.83	20.83		7.87	7.87		32.10	32.10		78.9	78.9		5.85	5.85		2.93	2.91		5	
7/12/2011	1:10	Cloudy	Middle	1.5	21.54	21.54	21.59	7.51	7.51	7.51	31.95	31.95	31.94	91.3	91.3	91.4	6.68	6.68	6.69	3.77	3.15	3.47	6	6.50
	1:11		Middle	1.5	21.64	21.64		7.51	7.51		31.93	31.93		91.4	91.5		6.69	6.69		3.73	3.23		7	
9/12/2011	1:21	Cloudy	Middle	1.5	18.57	18.57	18.57	8.38	8.38	8.38	32.06	32.06	32.06	74.1	74.1	74.1	5.73	5.73	5.73	4.26	4.30	4.30	7	7.50
	1:22		Middle	1.5	18.57	18.57		8.38	8.38		32.06	32.06		74.1	74.1		5.73	5.73		4.34	4.28		8	
13/12/2011	3:20	Fine	Middle	1.5	18.70	18.70	18.70	8.11	8.11	8.11	31.59	31.59	31.59	75.9	75.9	75.9	5.87	5.87	5.87	2.76	2.84	2.89	4	4.50
	3:21		Middle	1.5	18.70	18.70		8.11	8.11		31.59	31.60		75.9	75.9		5.87	5.87		3.07	2.87		5	
15/12/2011	3:20	Fine	Middle	1.5	19.45	19.45	19.45	7.79	7.79	7.79	31.61	31.61	31.61	75.3	75.2	75.2	5.74	5.72	5.73	3.26	3.28	3.23	7	6.00
	3:21		Middle	1.5	19.45	19.45		7.79	7.79		31.61	31.61		75.1	75.2		5.72	5.73		3.13	3.24		5	
17/12/2011	5:58	Cloudy	Middle	1.5	18.50	18.50	18.50	8.09	8.09	8.09	31.71	31.71	31.71	72.2	72.3	72.3	5.60	5.61	5.61	2.91	2.87	2.94	6	6.00
	5:59		Middle	1.5	18.49	18.49		8.09	8.09		31.71	31.71		72.3	72.3		5.61	5.61		3.13	2.84		6	
19/12/2011	21:47	Fine	Middle	1.5	19.04	19.04	19.04	7.86	7.86	7.86	31.57	31.57	31.57	73.6	73.5	73.5	5.64	5.64	5.64	4.86	4.26	4.48	8	7.50
	21:48		Middle	1.5	19.04	19.04		7.86	7.86		31.56	31.56		73.5	73.5		5.64	5.64		4.61	4.19		7	
21/12/2011	20:57	Cloudy	Middle	1.5	19.44	19.46	19.46	7.58	7.58	7.58	31.36	31.36	31.36	68.6	68.6	68.6	5.23	5.23	5.23	3.74	3.32	3.54	7	7.00
	20:58		Middle	1.5	19.46	19.46		7.58	7.58		31.36	31.36		68.6	68.6		5.23	5.23		3.69	3.41		7	
23/12/2011	2:12	Cloudy	Middle	1.5	16.46	16.46	16.44	8.22	8.22	8.22	31.52	31.52	31.53	63.1	63.0	63.1	5.09	5.09	5.09	4.05	3.71	3.79	7	7.00
	2:13		Middle	1.5	16.42	16.42		8.22	8.22		31.54	31.54		63.1	63.0		5.09	5.08		3.82	3.58		7	
26/12/2011	4:20	Cloudy	Middle	1.5	17.22	17.22	17.22	8.05	8.05	8.05	31.46	31.46	31.46	63.3	63.2	63.2	5.04	5.03	5.03	3.48	3.20	3.36	7	8.00
	4:21		Middle	1.5	17.22	17.22		8.05	8.05		31.46	31.46		63.2	63.2		5.03	5.03		3.22	3.55		9	

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	1:55	Fine	Middle	1.5	22.88	22.88	22.89	7.88	7.88	7.88	32.59	32.59	32.59	97.4	97.4	97.4	6.94	6.94	6.94	7.61	7.79	7.73	12	11.00
	1:56		Middle	1.5	22.90	22.90		7.88	7.88		32.58	32.58		97.5	97.3		6.94	6.93		7.97	7.54		10	
30/11/2011	2:00	Cloudy	Middle	1.5	23.06	23.06	23.06	7.62	7.62	7.62	32.31	32.30	32.30	95.6	95.4	95.3	6.78	6.76	6.76	5.38	5.48	5.30	8	8.00
	2:01		Middle	1.5	23.05	23.05		7.62	7.62		32.30	32.29		95.3	95.0		6.76	6.74		5.17	5.18		8	
3/12/2011	6:25	Fine	Middle	1.5	20.04	20.04	20.03	8.45	8.45	8.45	32.16	32.16	32.16	88.3	88.5	88.5	6.64	6.66	6.66	3.55	3.61	3.71	6	5.50
	6:26		Middle	1.5	20.02	20.02		8.45	8.45		32.16	32.16		88.5	88.6		6.66	6.67		3.77	3.91		5	
5/12/2011	23:56	Cloudy	Middle	1.5	20.99	20.99	20.99	8.00	8.00	8.00	32.35	32.35	32.35	77.7	77.8	77.8	5.73	5.75	5.74	4.36	4.30	4.38	7	8.00
	23:57		Middle	1.5	20.98	20.98		8.00	8.00		32.35	32.35		77.7	77.8		5.74	5.74		4.77	4.08		9	
7/12/2011	0:40	Cloudy	Middle	1.5	21.51	21.51	21.51	7.46	7.46	7.47	32.15	32.15	32.15	83.9	83.9	83.9	6.14	6.14	6.14	4.13	3.72	3.80	10	10.50
	0:41		Middle	1.5	21.51	21.51		7.47	7.47		32.15	32.15		83.9	83.9		6.14	6.14		3.50	3.83		11	
9/12/2011	1:00	Cloudy	Middle	1.5	18.88	18.88	18.86	8.35	8.35	8.36	31.97	31.97	31.98	69.6	69.6	69.6	5.35	5.35	5.35	3.85	4.09	3.78	7	5.50
	1:01		Middle	1.5	18.83	18.83		8.36	8.36		31.98	31.98		69.6	69.7		5.35	5.36		3.69	3.50		4	
13/12/2011	3:00	Fine	Middle	1.5	19.13	19.13	19.12	8.18	8.18	8.18	31.77	31.77	31.77	77.2	77.2	77.2	5.92	5.92	5.92	2.76	2.59	2.70	4	3.50
	3:01		Middle	1.5	19.10	19.10		8.18	8.18		31.77	31.77		77.2	77.2		5.92	5.92		2.51	2.93		3	
15/12/2011	3:00	Fine	Middle	1.5	19.67	19.68	19.68	7.82	7.82	7.82	31.77	31.77	31.77	76.1	76.1	76.1	5.76	5.76	5.76	3.23	3.32	3.42	7	7.50
	3:01		Middle	1.5	19.68	19.68		7.82	7.82		31.77	31.77		76.1	76.1		5.76	5.76		3.50	3.61		8	
17/12/2011	5:28	Cloudy	Middle	1.5	18.64	18.65	18.64	8.13	8.13	8.14	31.67	31.68	31.67	75.0	74.9	74.9	5.80	5.80	5.80	3.22	3.73	3.43	4	4.00
	5:29		Middle	1.5	18.64	18.64		8.14	8.14		31.67	31.67		74.9	74.9		5.80	5.80		3.50	3.28		4	
19/12/2011	21:35	Fine	Middle	1.5	19.24	19.24	19.24	8.00	8.00	8.00	31.67	31.67	31.68	79.6	79.6	79.6	6.09	6.09	6.09	4.72	4.98	4.66	11	10.00
	21:36		Middle	1.5	19.23	19.23		8.00	8.00		31.68	31.68		79.5	79.5		6.09	6.09		4.25	4.69		9	
21/12/2011	20:42	Cloudy	Middle	1.5	19.56	19.56	19.55	7.73	7.73	7.73	31.53	31.53	31.54	65.1	65.0	65.1	4.95	4.95	4.96	3.34	3.30	3.17	7	6.50
	20:43		Middle	1.5	19.54	19.54		7.73	7.73		31.55	31.55		65.1	65.2		4.96	4.96		2.79	3.24		6	
23/12/2011	1:54	Cloudy	Middle	1.5	17.33	17.32	17.32	8.24	8.24	8.24	31.38	31.38	31.39	61.0	61.0	61.1	4.85	4.85	4.86	3.68	3.78	3.82	9	8.00
	1:55		Middle	1.5	17.32	17.32		8.24	8.24		31.39	31.39		61.1	61.1		4.86	4.86		3.97	3.83		7	
26/12/2011	4:00	Cloudy	Middle	1.5	17.61	17.61	17.60	8.07	8.07	8.08	31.46	31.46	31.47	61.4	61.4	61.4	4.85	4.85	4.85	3.67	3.43	3.31	7	6.00
	4:01		Middle	1.5	17.58	17.58		8.08	8.08		31.47	31.47		61.4	61.4		4.85	4.85		3.05	3.09		5	

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

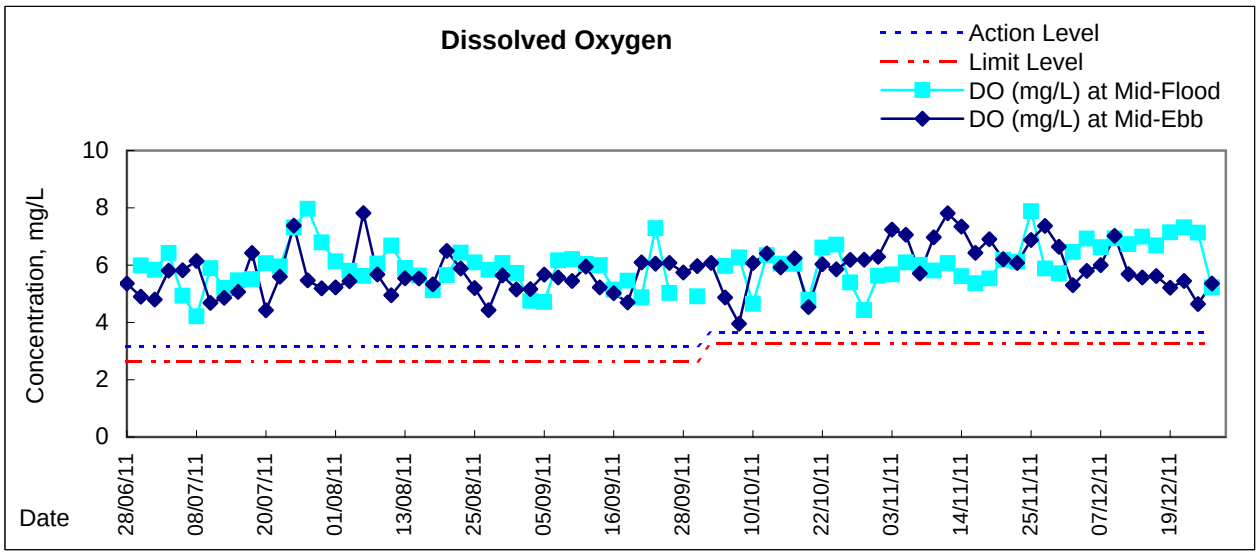
Water Monitoring Result at WSD7 - Kowloon South
Mid-Ebb Tide

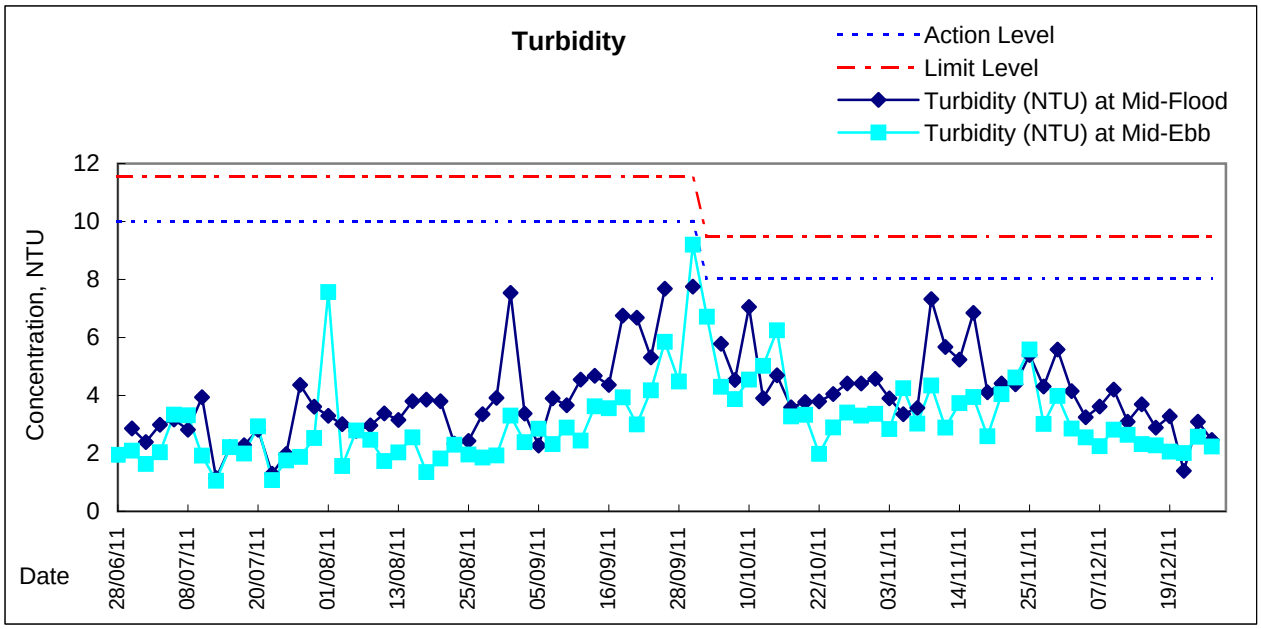
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/11/2011	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
30/11/2011	1:08	Cloudy	Middle	1.5	23.14	23.14	23.14	7.77	7.77	7.77	32.25	32.25	32.25	101.2	101.3	101.3	7.13	7.13	7.13	3.98	3.94	3.92	7	7.50
	1:09		Middle	1.5	23.14	23.14		7.76	7.77		32.25	32.25		101.2	101.3		7.13	7.13		3.97	3.78		8	
3/12/2011	3:15	Fine	Middle	1.5	20.07	20.07	20.07	8.36	8.36	8.36	32.02	32.02	32.02	77.9	78.0	78.0	5.86	5.86	5.87	3.73	4.03	3.90	6	6.50
	3:16		Middle	1.5	20.07	20.07		8.36	8.36		32.02	32.02		78.1	78.1		5.88	5.88		3.98	3.87		7	
5/12/2011	20:50	Cloudy	Middle	1.5	21.20	21.20	21.20	7.82	7.82	7.82	32.02	32.02	32.02	77.1	77.1	77.1	5.68	5.68	5.68	3.80	3.94	3.74	6	6.50
	20:51		Middle	1.5	21.20	21.20		7.82	7.82		32.02	32.02		77.1	77.0		5.68	5.67		3.79	3.43		7	
7/12/2011	21:05	Cloudy	Middle	1.5	22.12	22.12	22.14	7.43	7.43	7.43	31.85	31.85	31.85	90.0	90.0	90.0	6.53	6.53	6.53	4.04	3.28	3.49	5	6.00
	21:06		Middle	1.5	22.15	22.15		7.43	7.43		31.85	31.85		90.0	90.0		6.52	6.52		3.24	3.38		7	
9/12/2011	21:57	Cloudy	Middle	1.5	19.44	19.44	19.41	8.51	8.51	8.51	31.88	31.88	31.89	69.1	69.0	69.0	5.27	5.26	5.26	3.32	3.37	3.30	8	8.00
	21:58		Middle	1.5	19.37	19.37		8.52	8.51		31.89	31.90		69.0	69.0		5.26	5.26		3.16	3.35		8	
13/12/2011	23:10	Fine	Middle	1.5	18.87	18.87	18.89	8.06	8.06	8.06	31.72	31.72	31.71	74.0	74.0	74.0	5.70	5.70	5.70	2.70	2.94	2.80	3	3.00
	23:11		Middle	1.5	18.90	18.90		8.06	8.06		31.70	31.70		74.0	74.0		5.70	5.70		2.81	2.74		3	
15/12/2011	0:05	Fine	Middle	1.5	19.59	19.59	19.62	7.78	7.78	7.78	31.70	31.70	31.69	81.4	81.4	81.4	6.19	6.18	6.18	2.72	2.70	2.66	4	4.00
	0:06		Middle	1.5	19.64	19.64		7.78	7.78		31.68	31.68		81.3	81.3		6.18	6.17		2.57	2.66		4	
17/12/2011	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
19/12/2011	19:50	Fine	Middle	1.5	19.29	19.29	19.29	7.93	7.93	7.93	31.57	31.57	31.57	77.4	77.4	77.5	5.92	5.92	5.92	2.38	2.43	2.41	6	6.00
	19:51		Middle	1.5	19.29	19.29		7.93	7.93		31.56	31.56		77.5	77.5		5.92	5.93		2.51	2.31		6	
21/12/2011	1:15	Cloudy	Middle	1.5	18.94	18.94	18.95	7.85	7.85	7.85	31.61	31.61	31.61	90.6	90.5	90.5	6.97	6.96	6.96	4.04	3.68	3.77	7	7.50
	1:16		Middle	1.5	18.95	18.95		7.84	7.84		31.61	31.61		90.5	90.4		6.96	6.96		3.94	3.43		8	
23/12/2011	22:20	Cloudy	Middle	1.5	17.54	17.54	17.54	8.24	8.24	8.24	31.48	31.48	31.48	61.2	61.2	61.2	4.84	4.84	4.84	2.79	2.34	2.55	6	5.50
	22:21		Middle	1.5	17.54	17.54		8.24	8.24		31.48	31.48		61.2	61.1		4.84	4.83		2.51	2.55		5	
26/12/2011	0:01	Cloudy	Middle	1.5	17.22	17.22	17.25	7.99	7.99	7.99	31.49	31.49	31.48	70.7	70.1	70.1	5.62	5.58	5.57	2.45	2.08	2.23	4	5.00
	0:02		Middle	1.5	17.27	17.27		7.99	7.99		31.47	31.47		70.0	69.7		5.55	5.54		2.32	2.08		6	

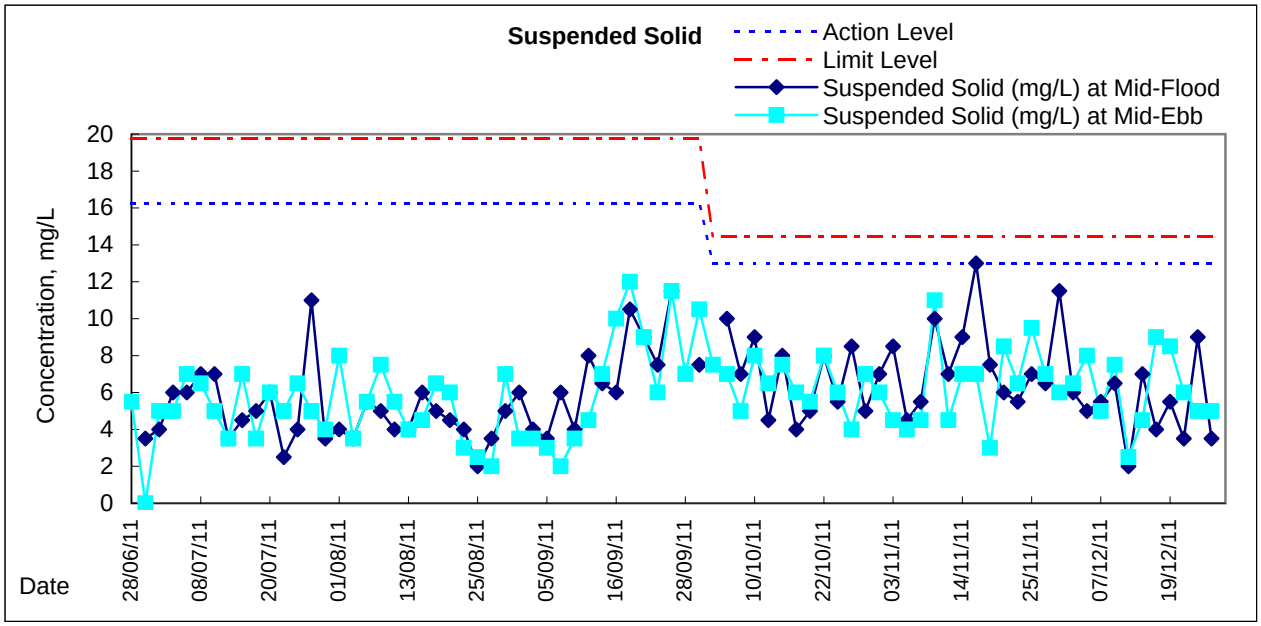
Remarks:
Single underline denotes exceedance over Action Leve
Double underline denotes exceedance over Limit Leve

Due to unavailability of the access of WSD7, no water quality monitoring was conducted on 28 November 2011 at mid-ebb and on 17 December 2011 at mid-ebb.

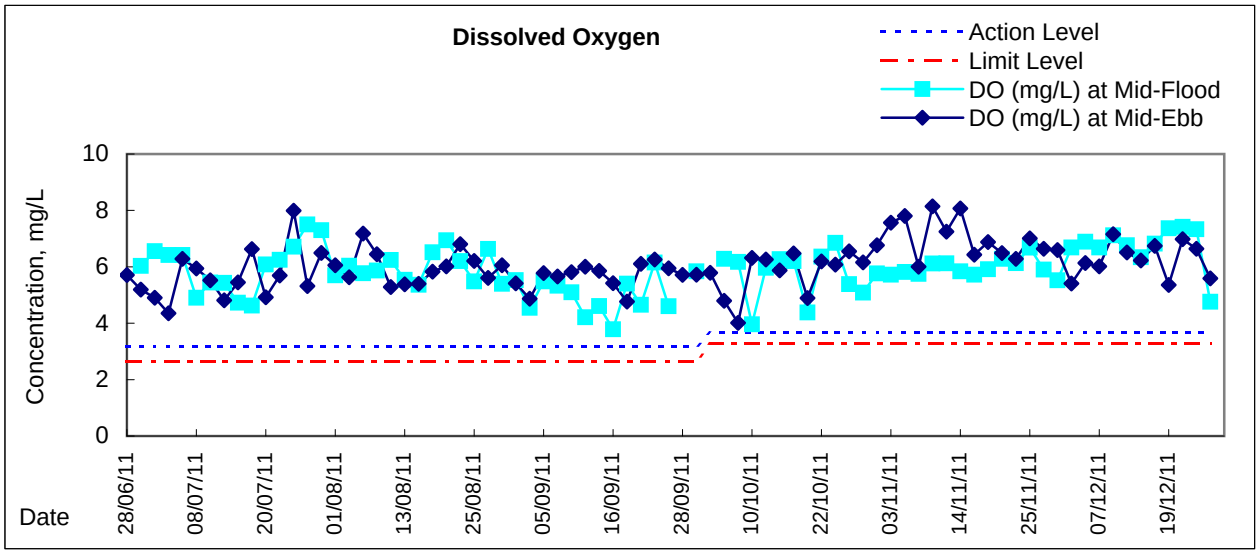
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

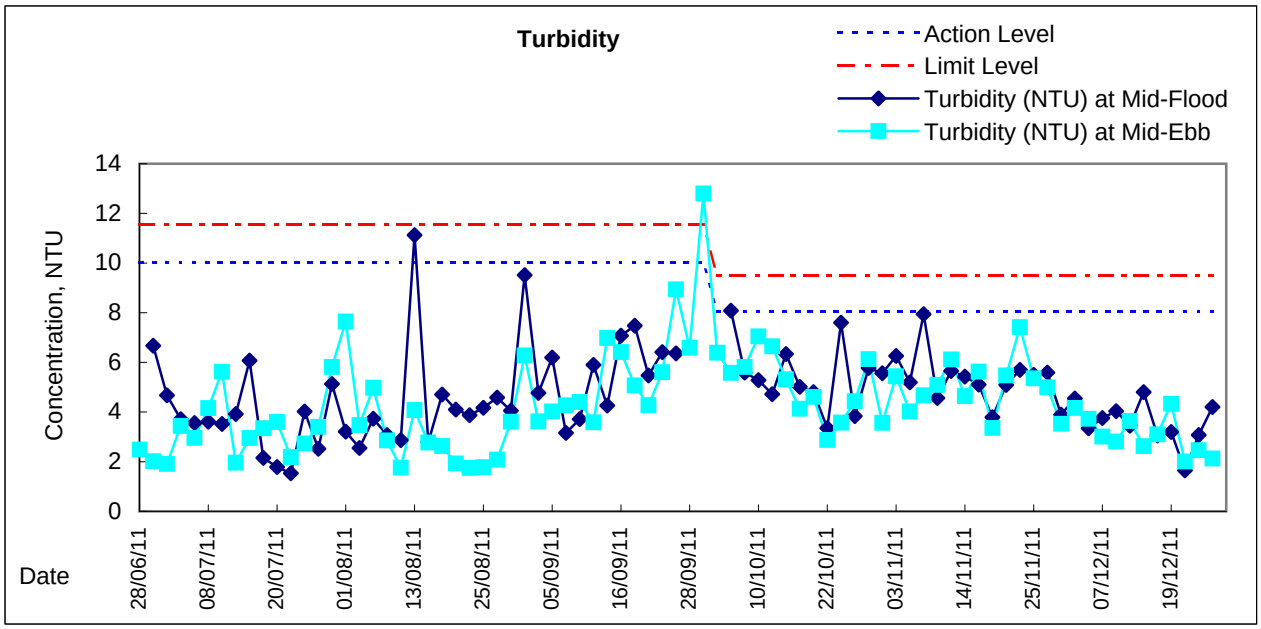


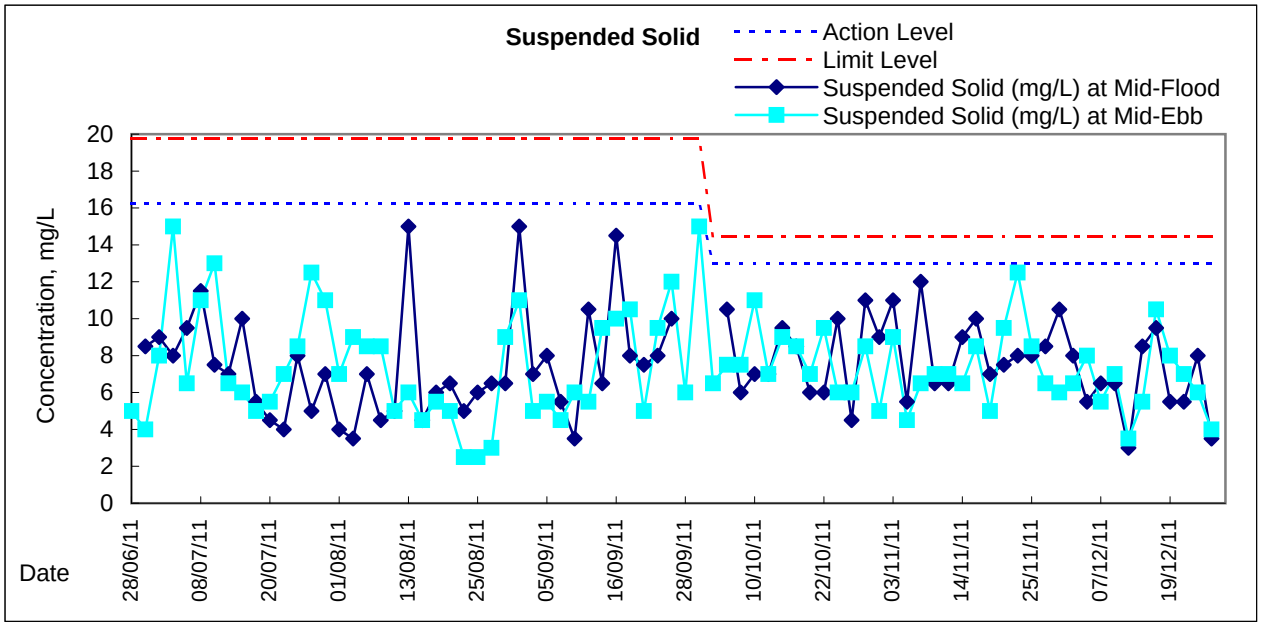




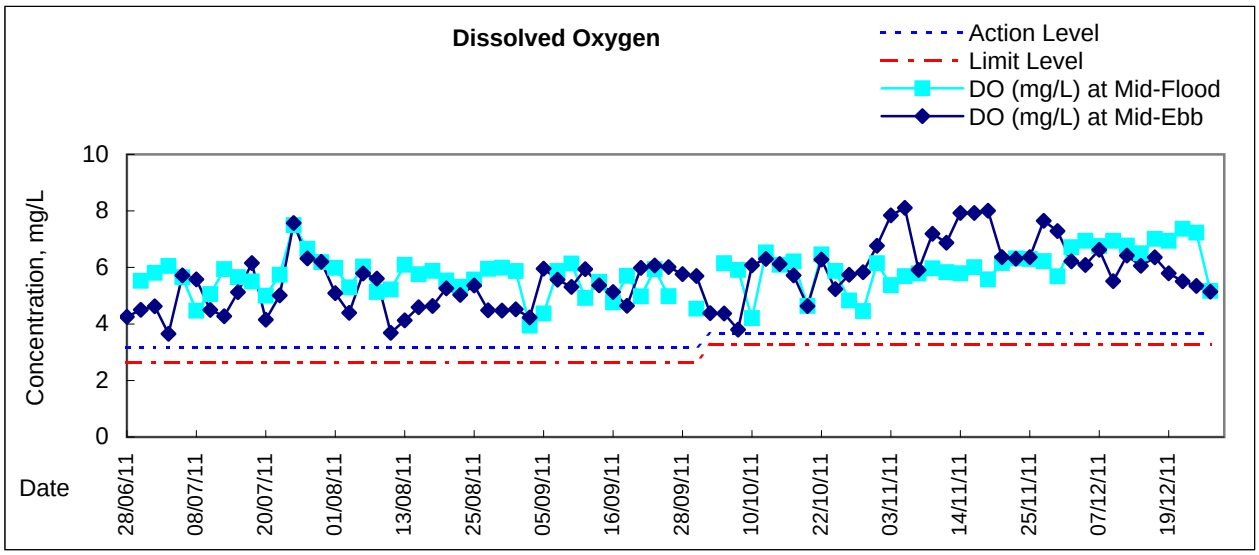
Graphic Presentation of Water Quality Result of WSD10 - Cha Kwo Ling

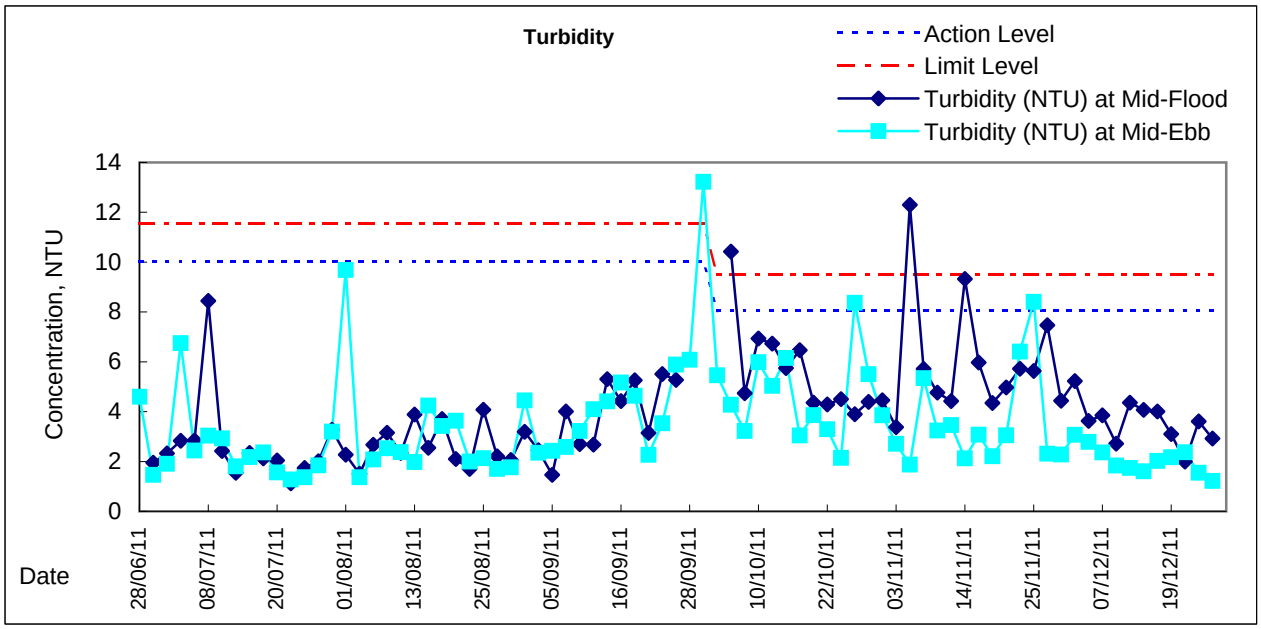


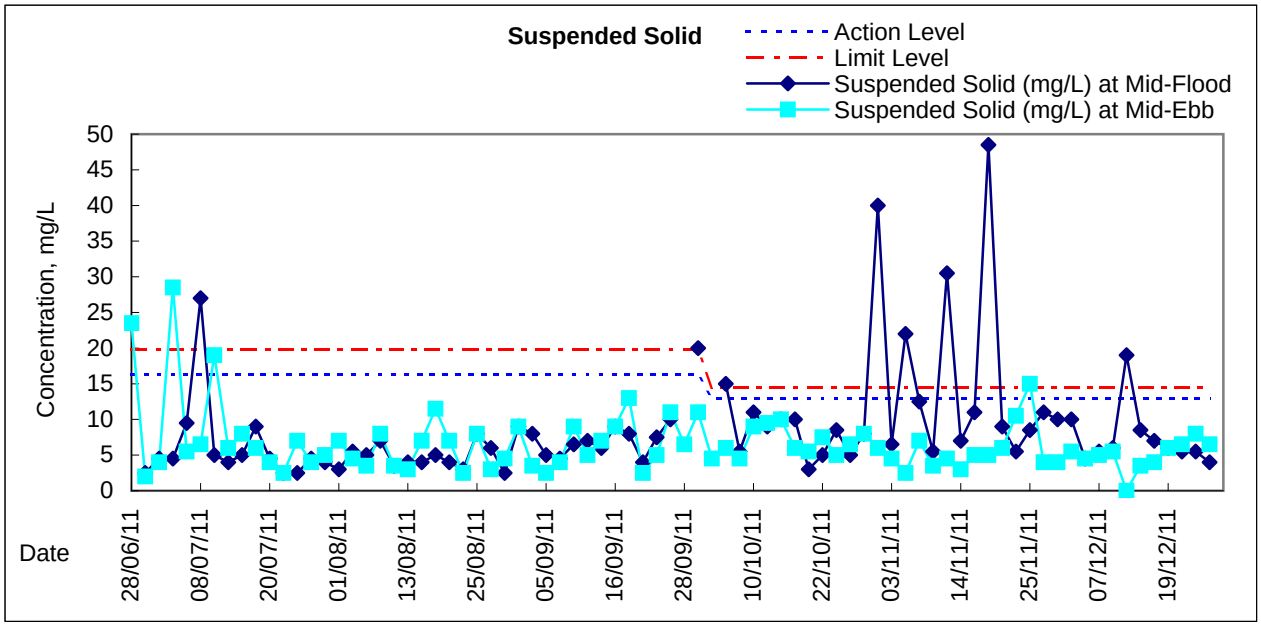




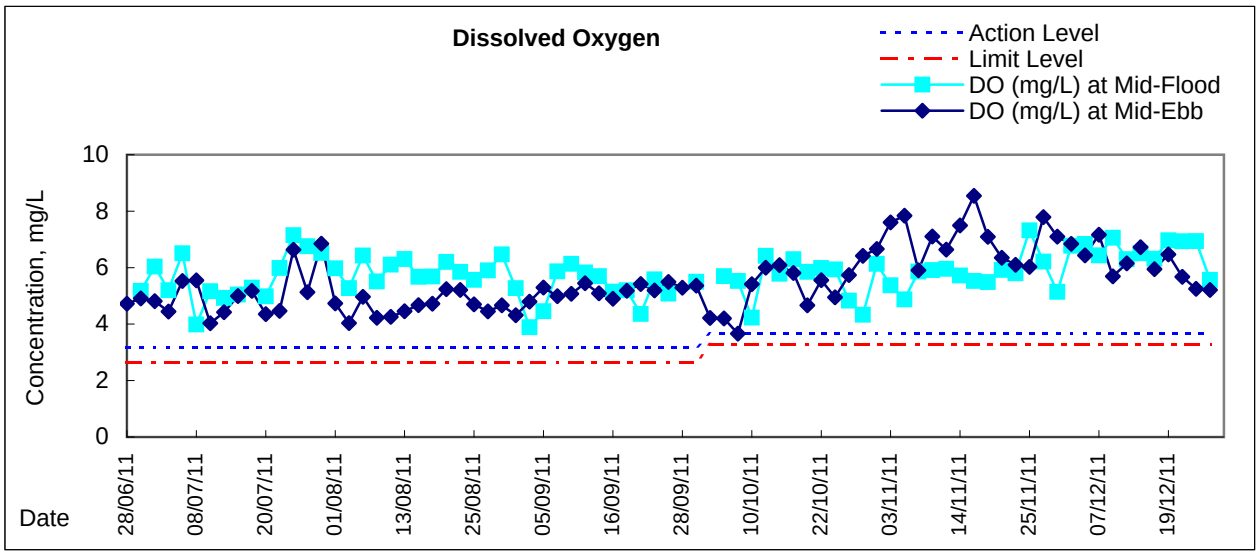
Graphic Presentation of Water Quality Result of WSD15 - Sai Wan Ho

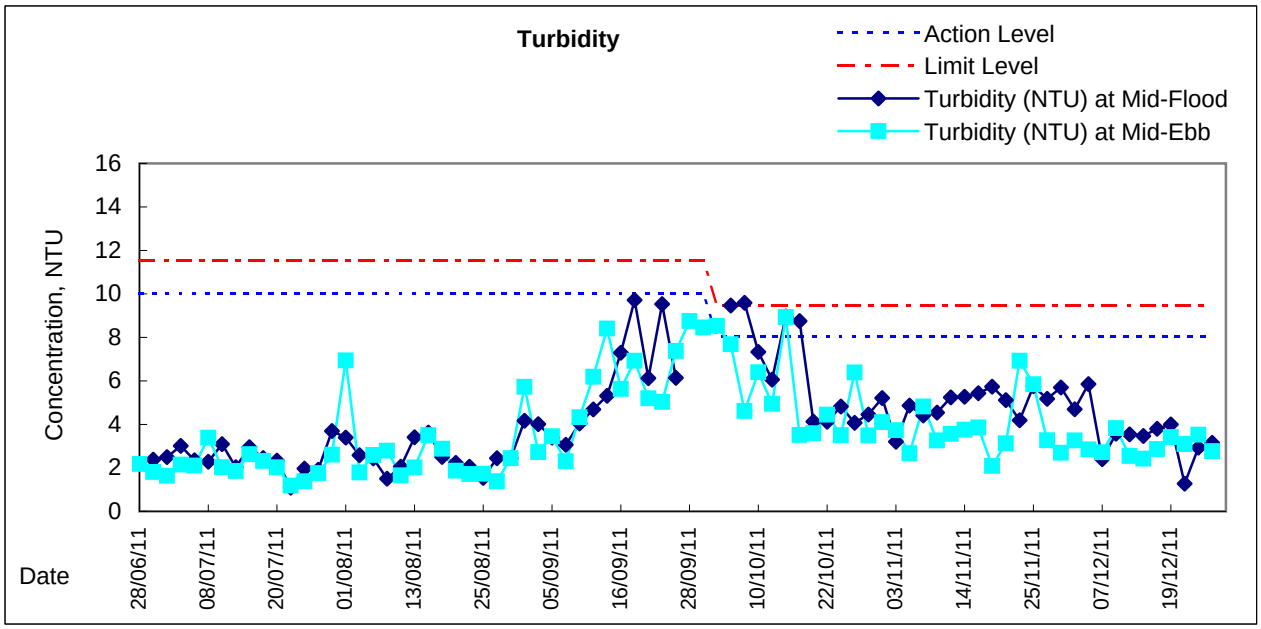


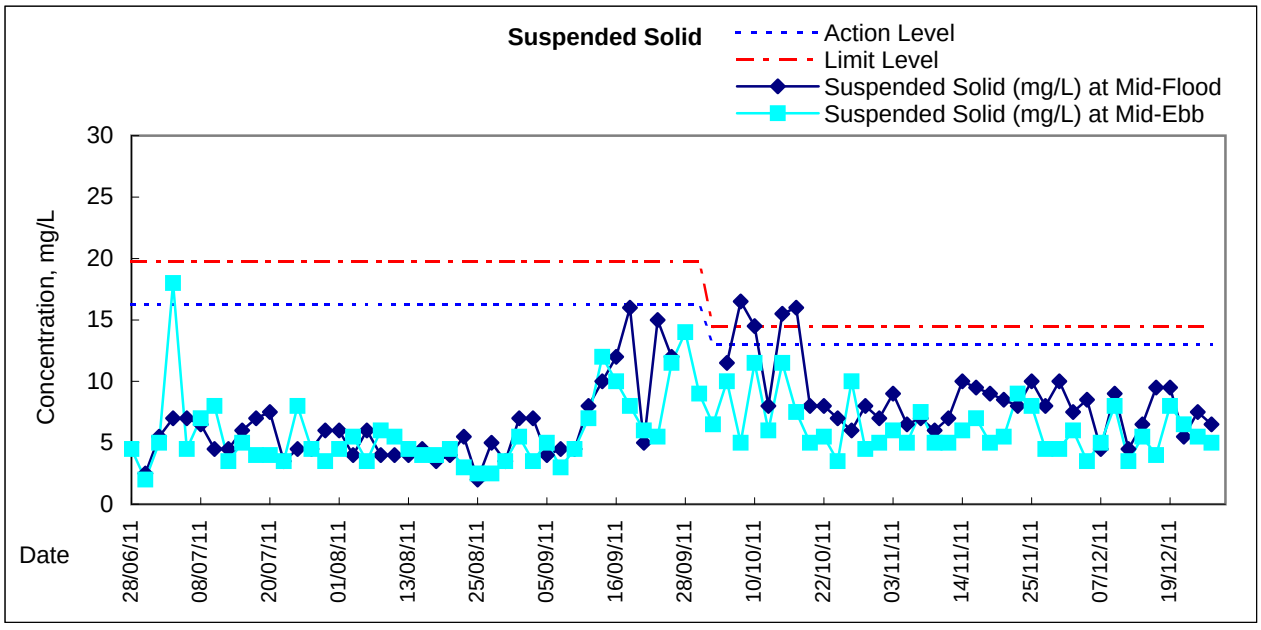




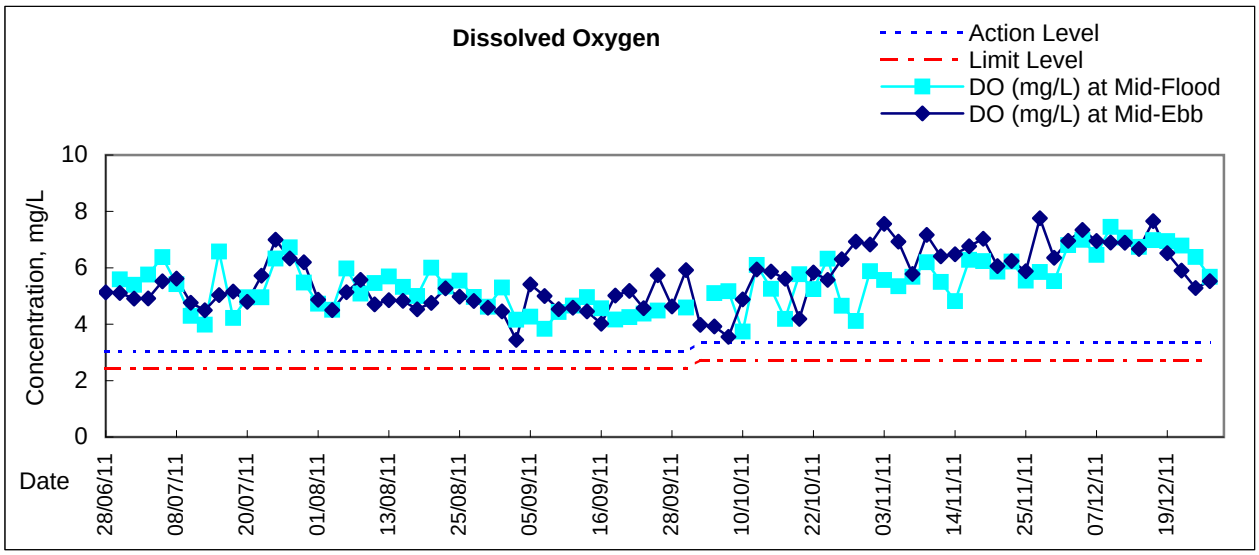
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

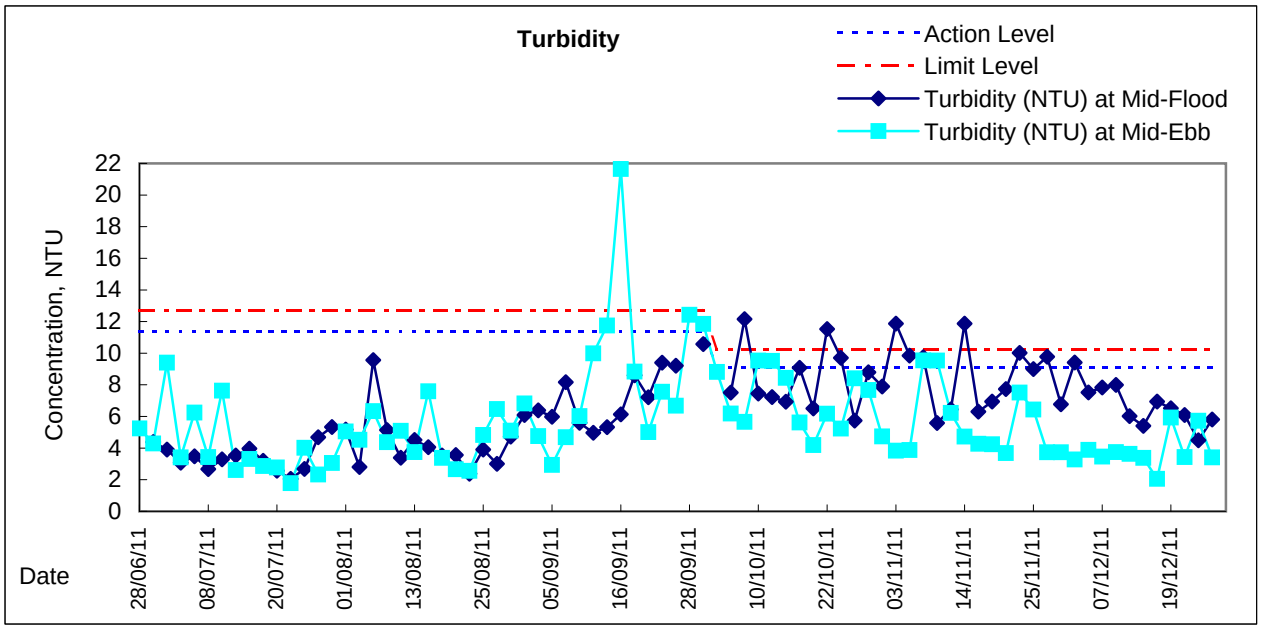


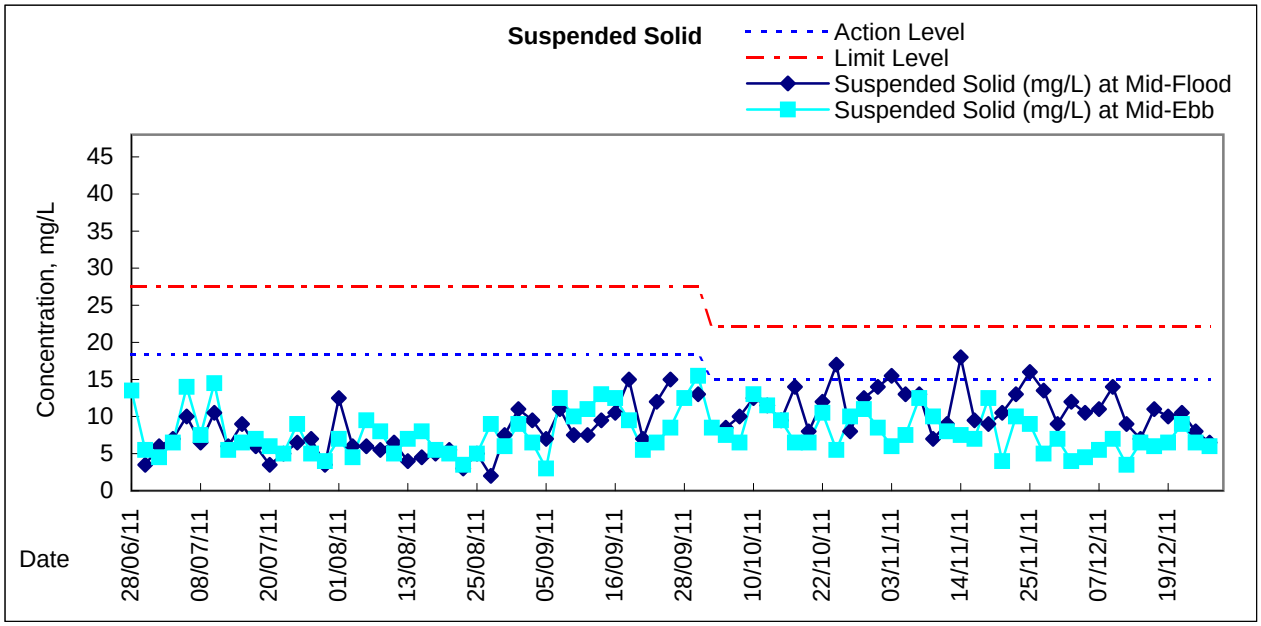




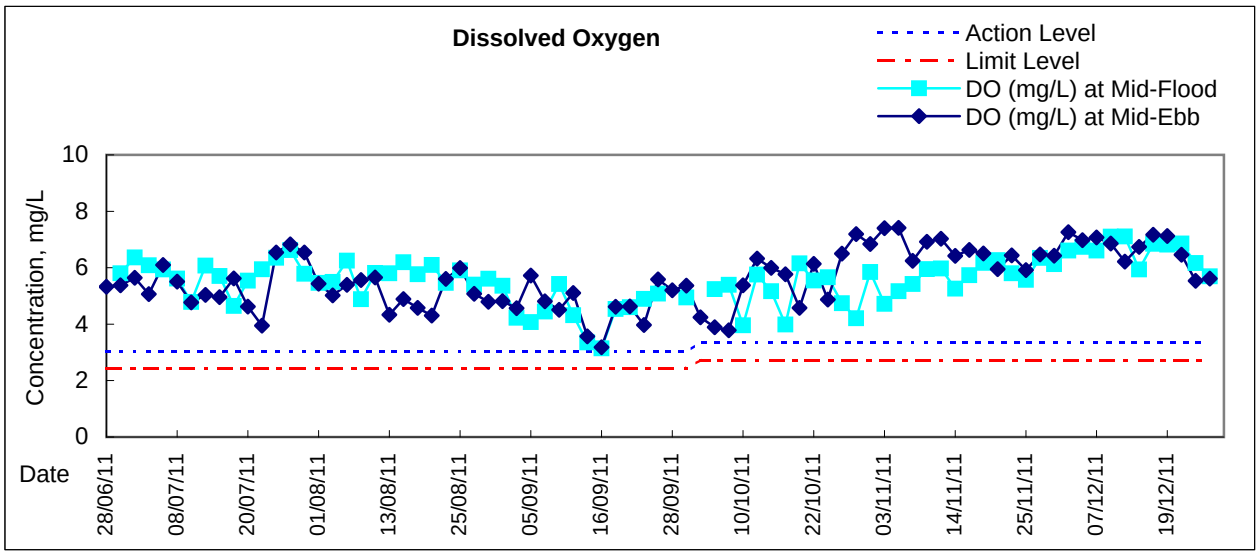
Graphic Presentation of Water Quality Result of C8 - City Garden

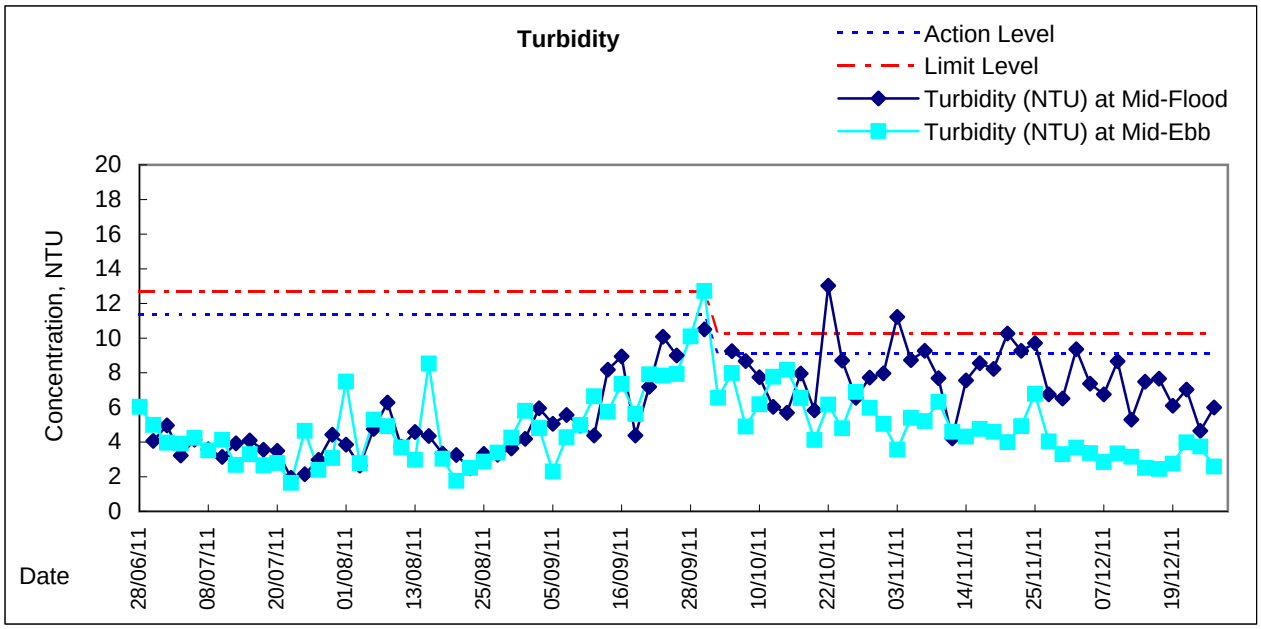


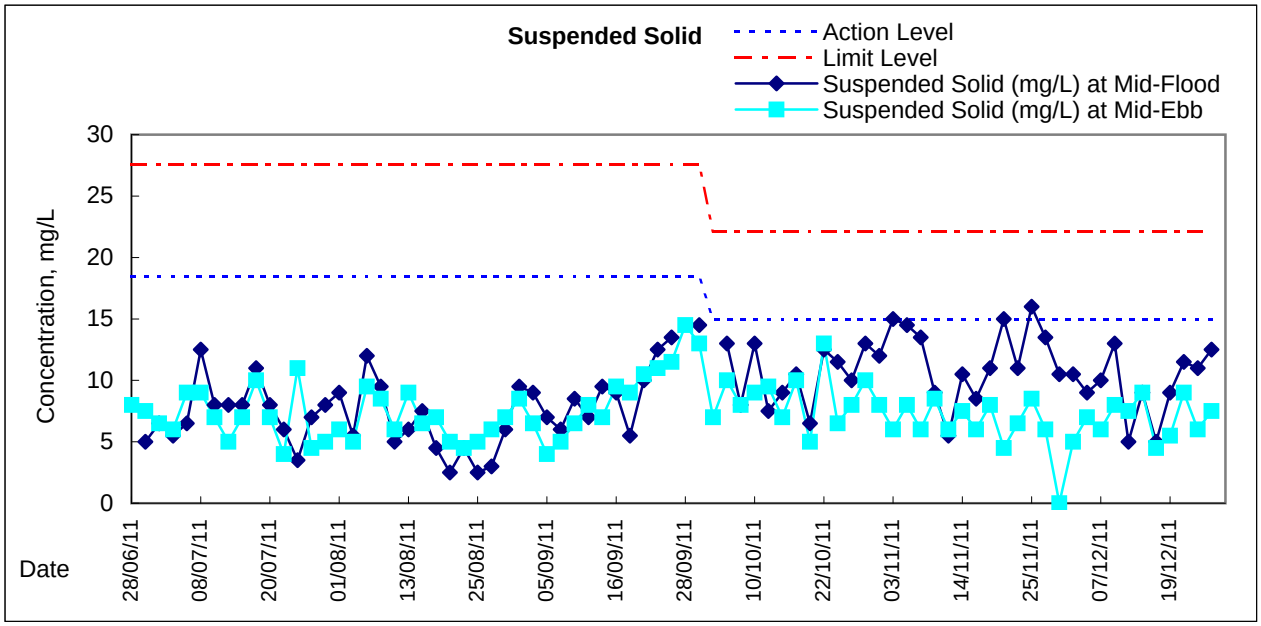




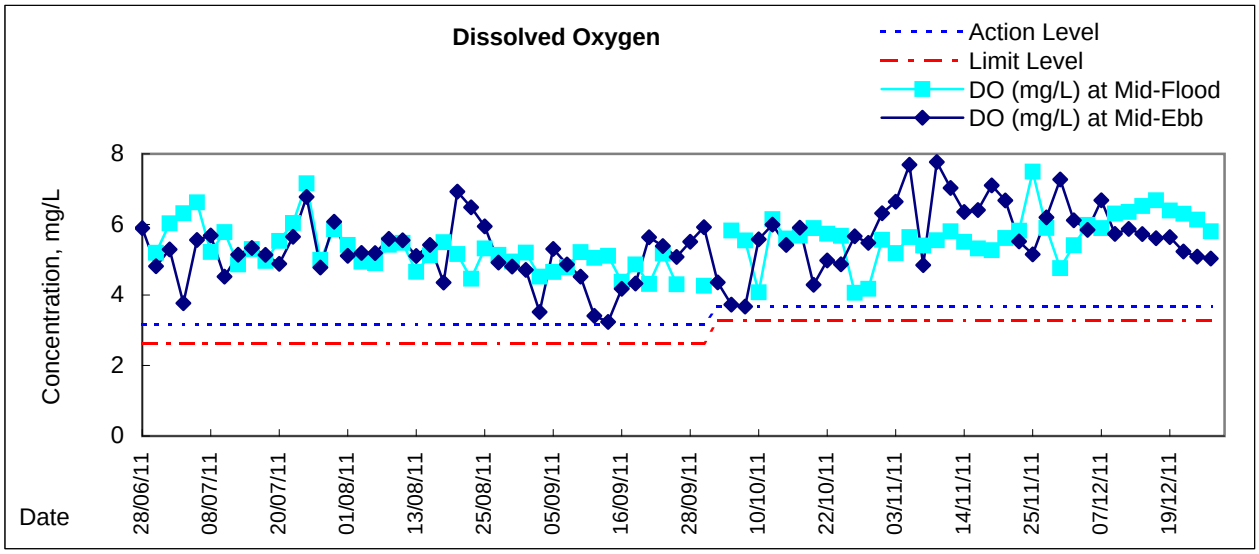
Graphic Presentation of Water Quality Result of C9 - Provident Centre

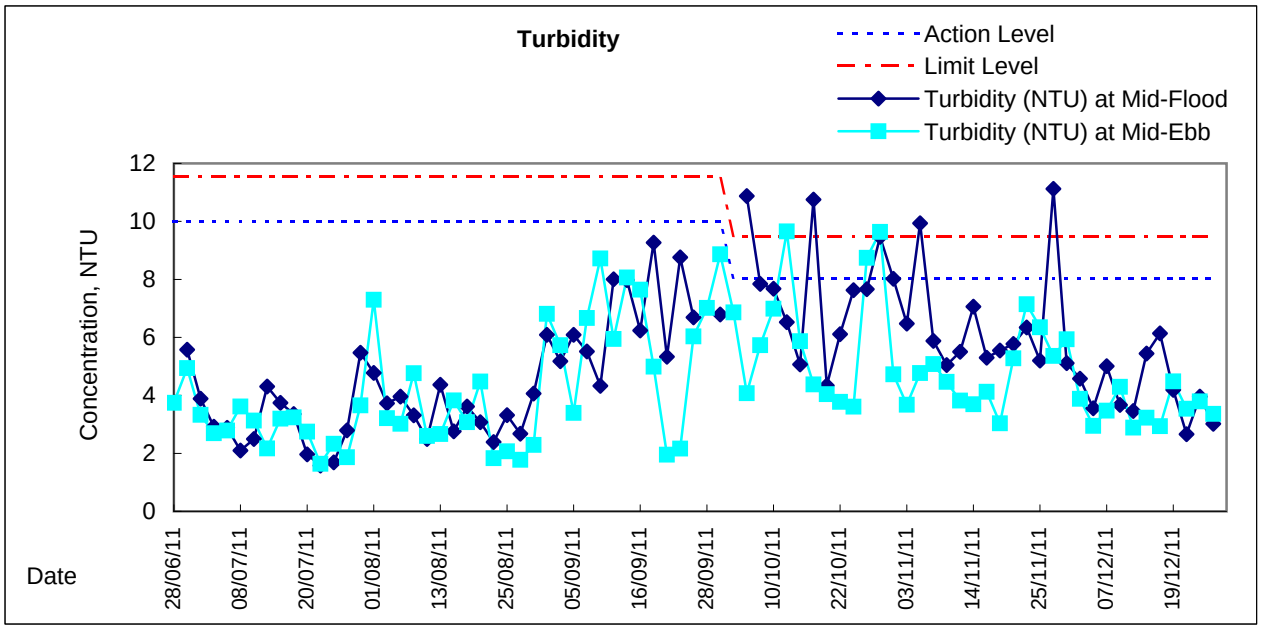


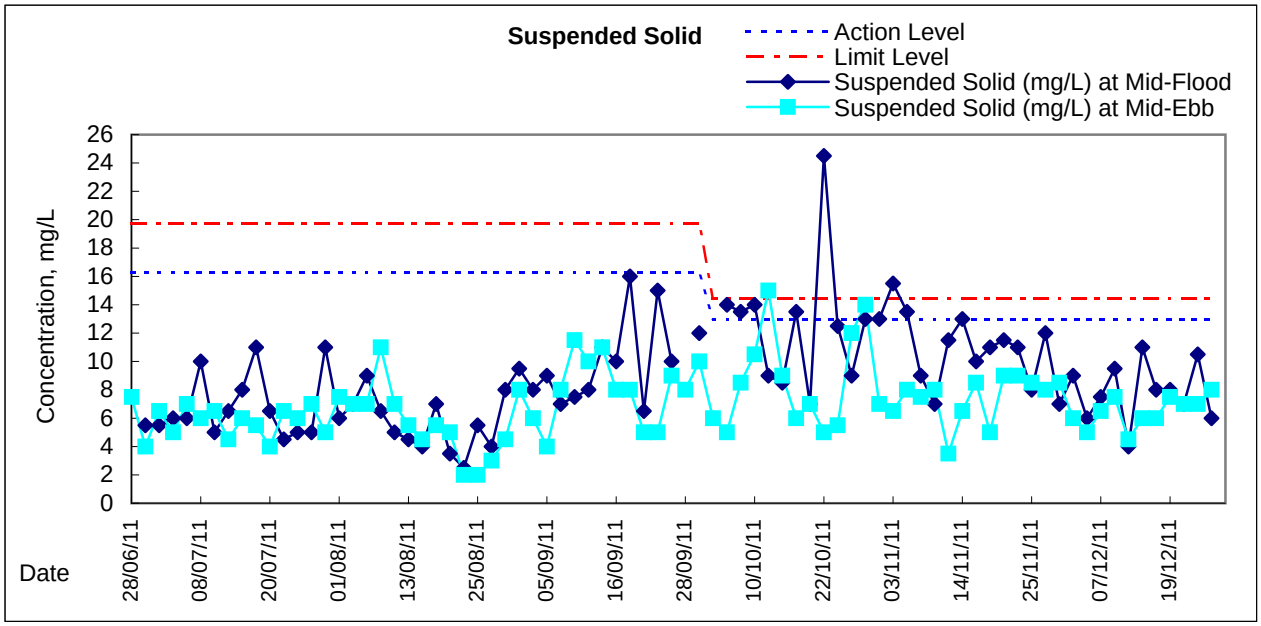




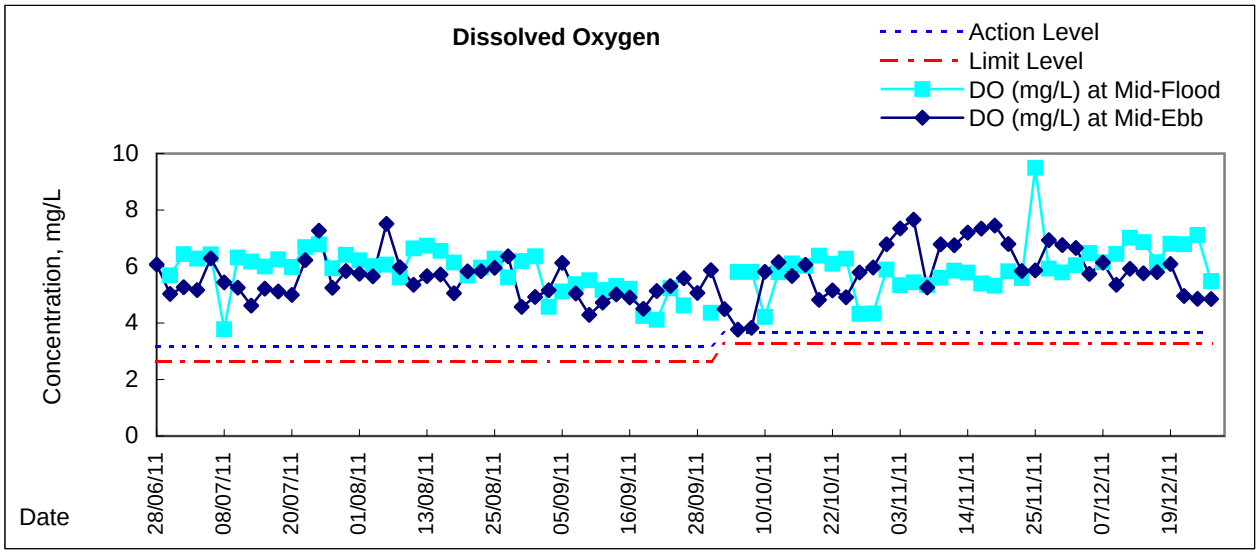
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

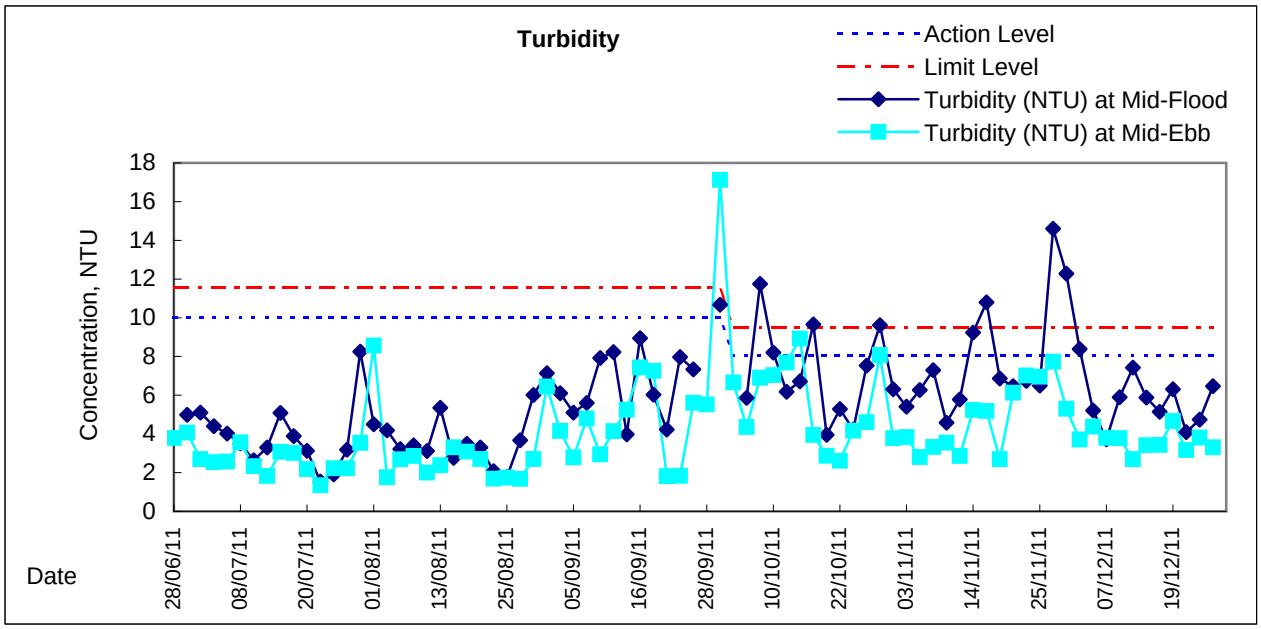


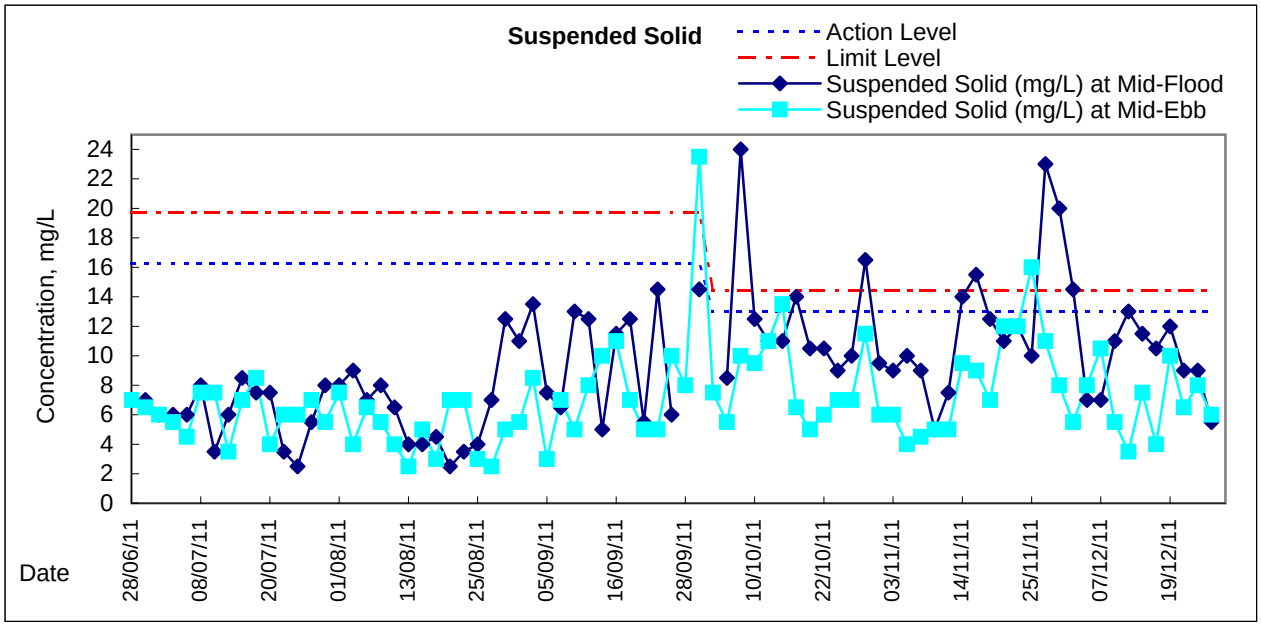




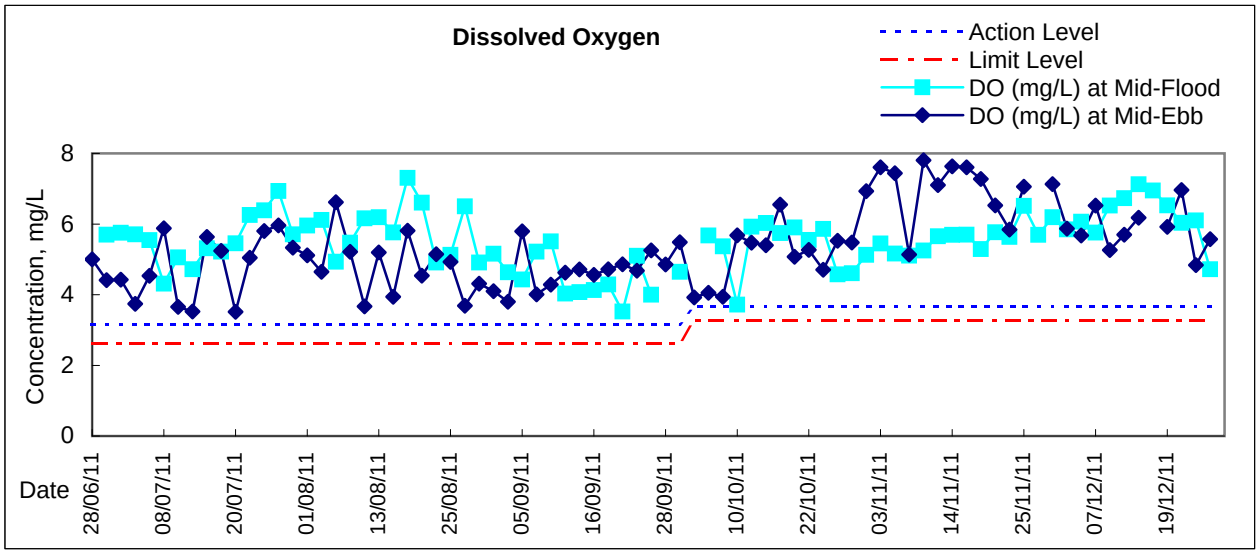
Graphic Presentation of Water Quality Result of WSD20 - Kennedy Town

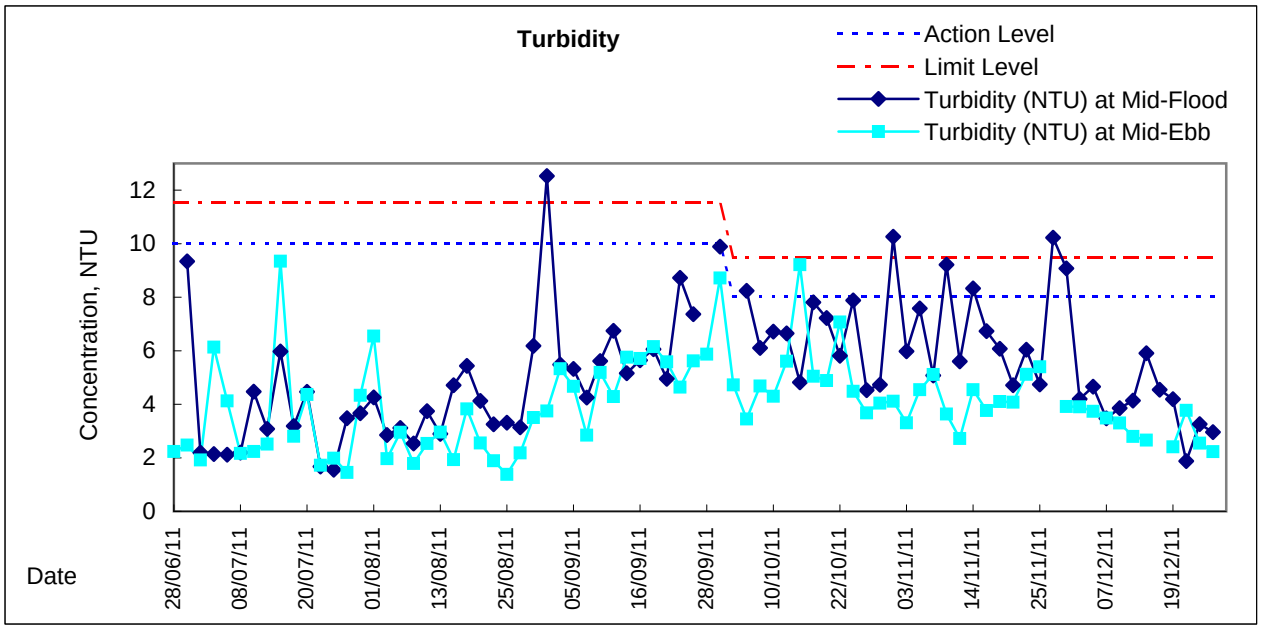


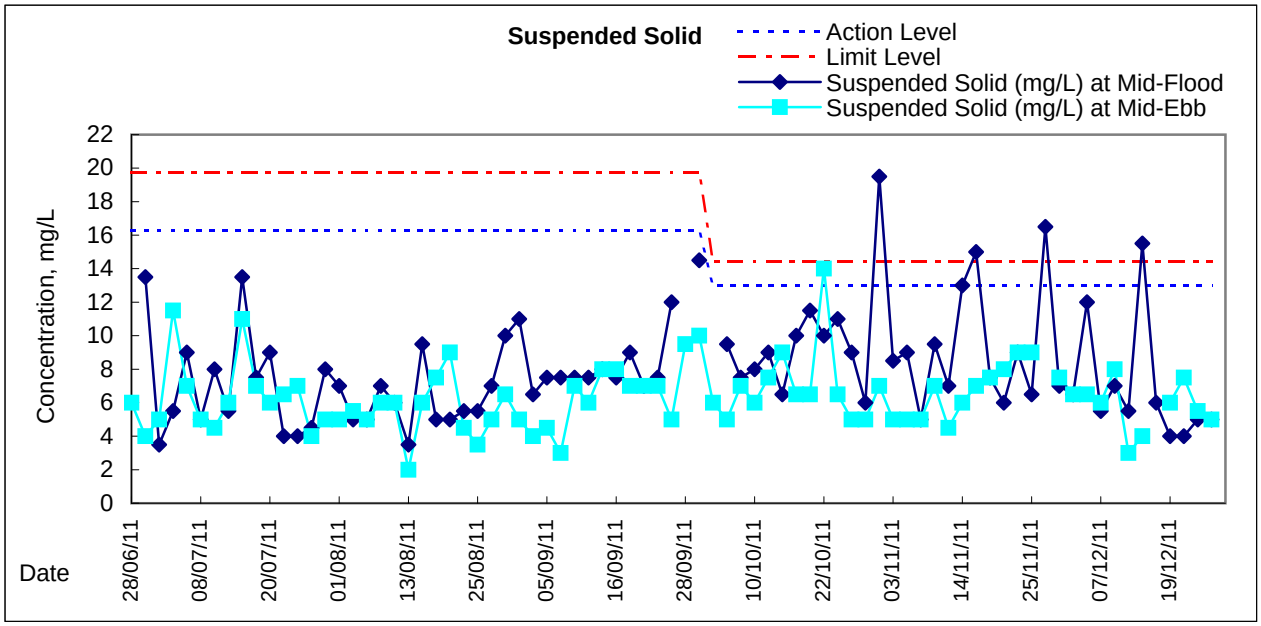




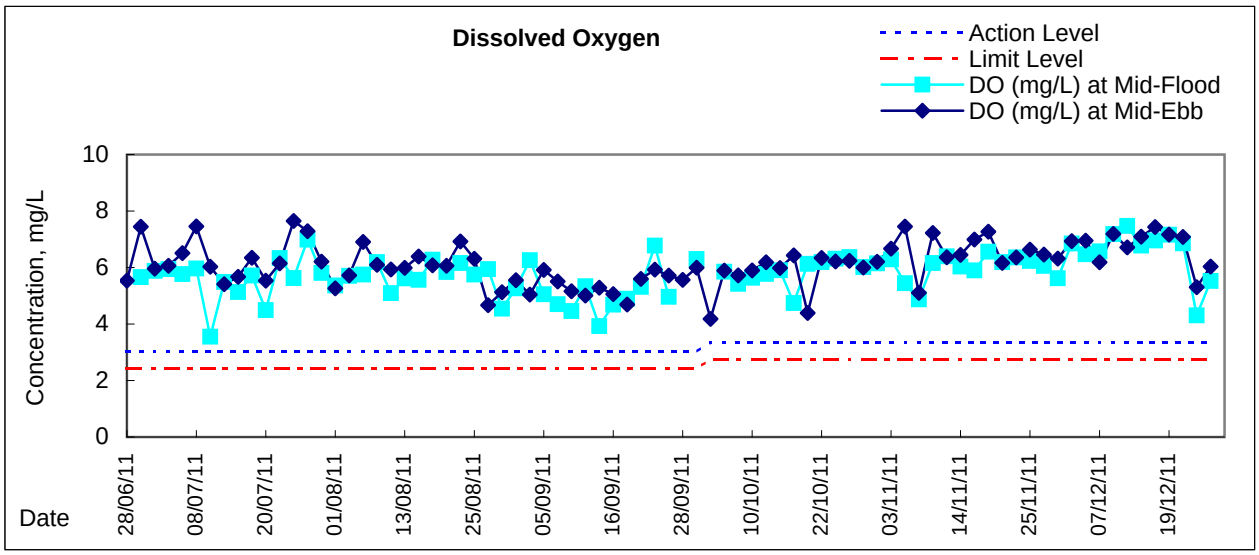
Graphic Presentation of Water Quality Result of WSD7 - Kowloon South

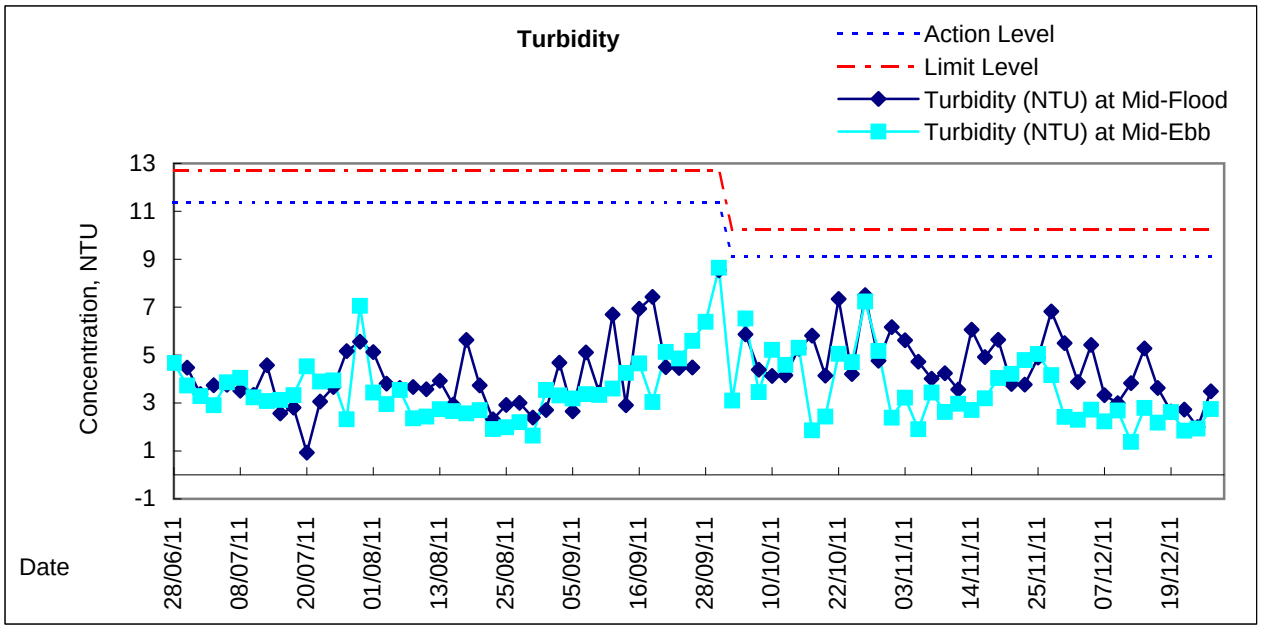


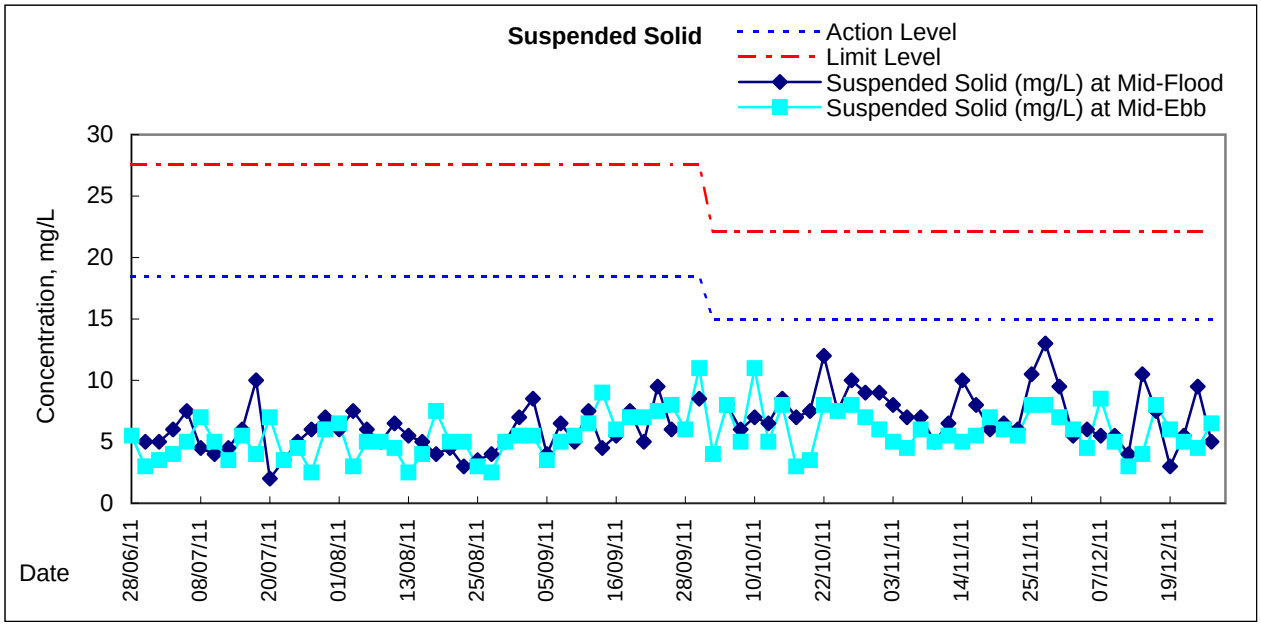




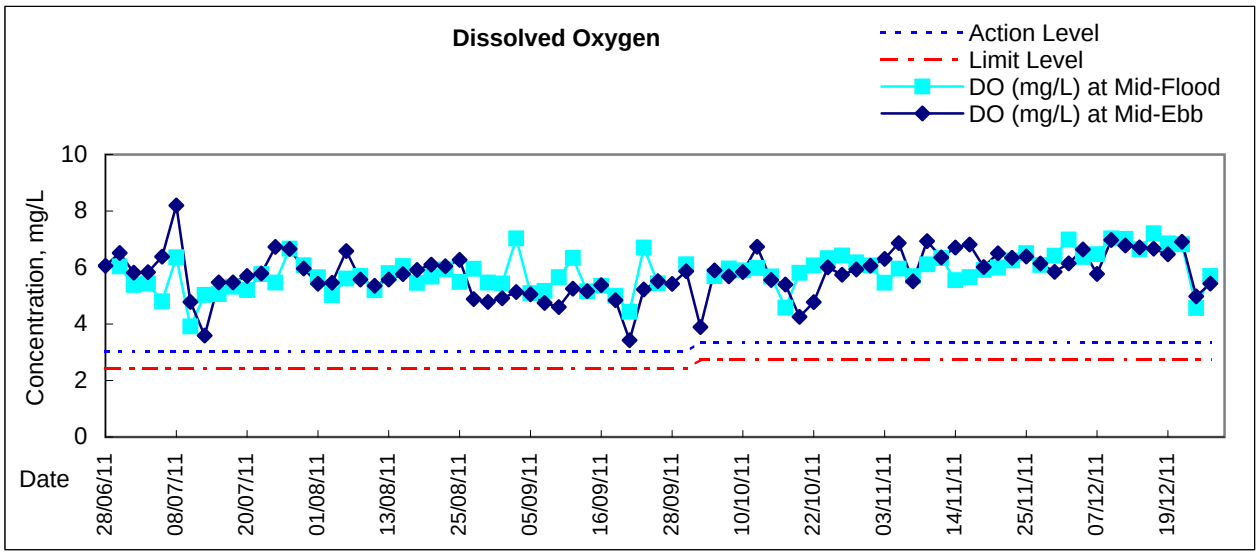
Graphic Presentation of Water Quality Result of C1 - HKCEC

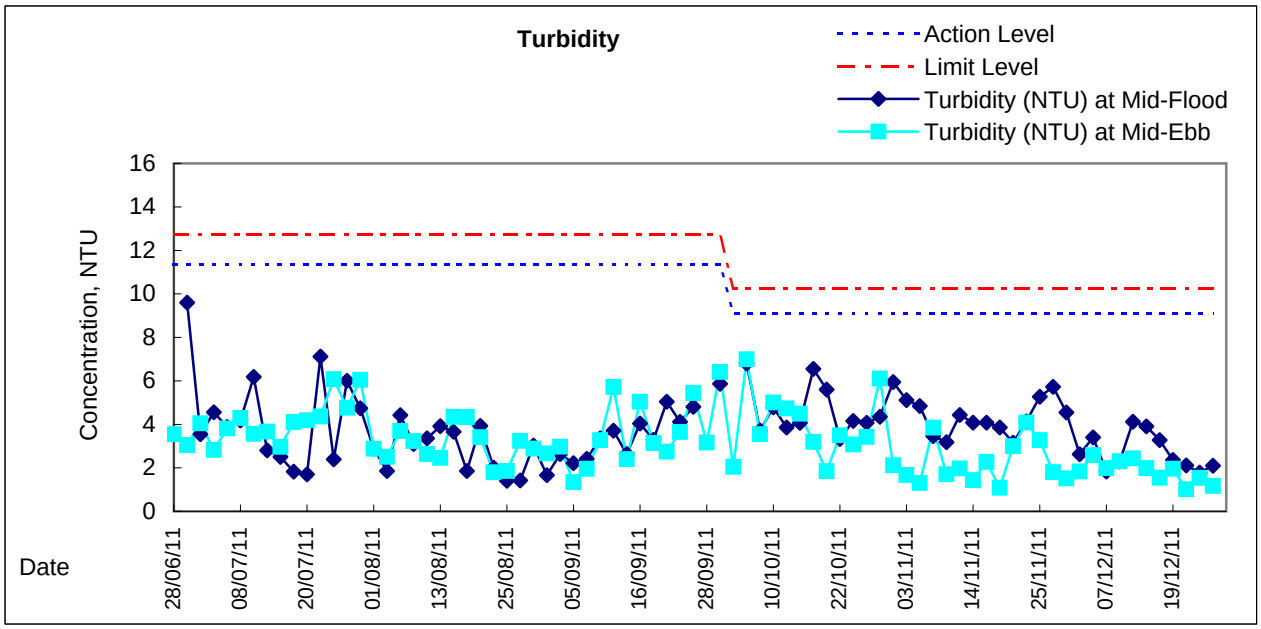


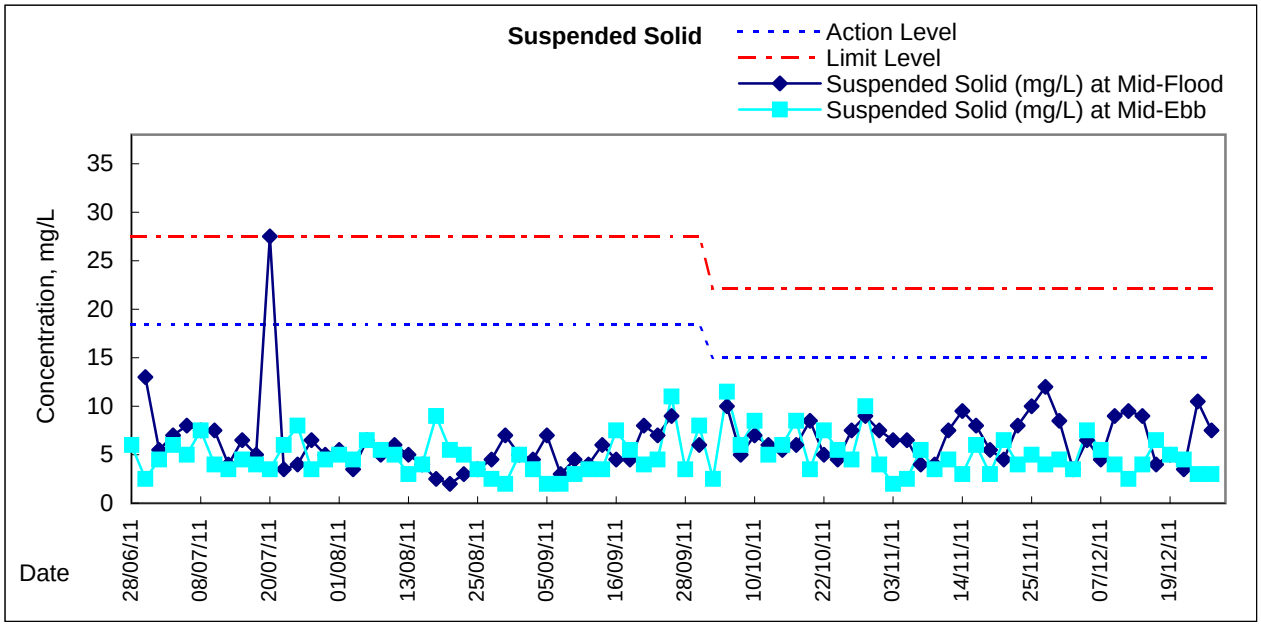




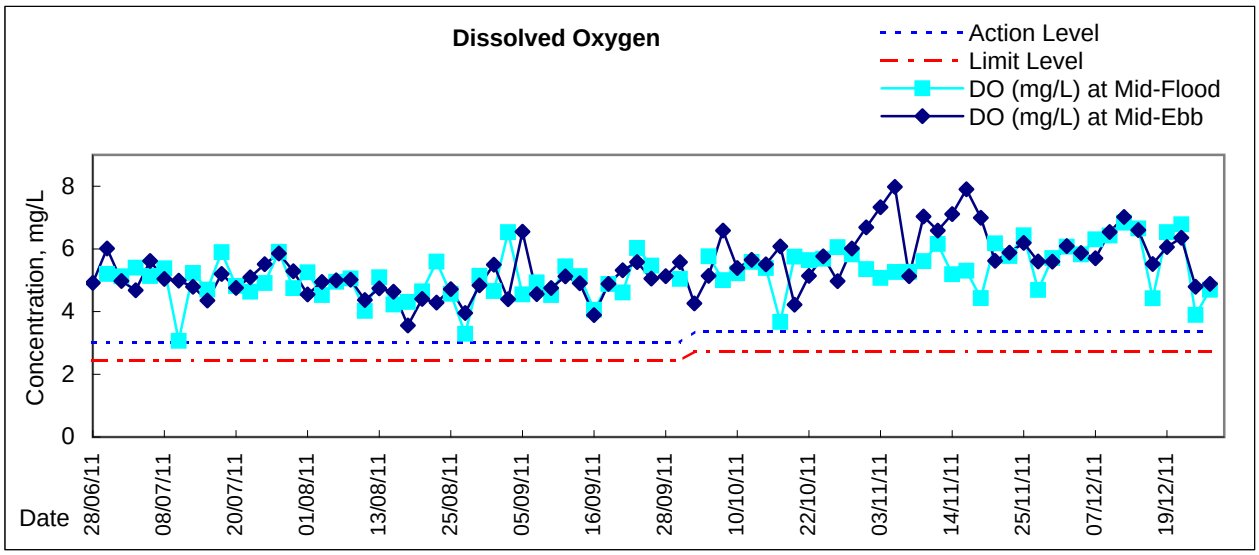
Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

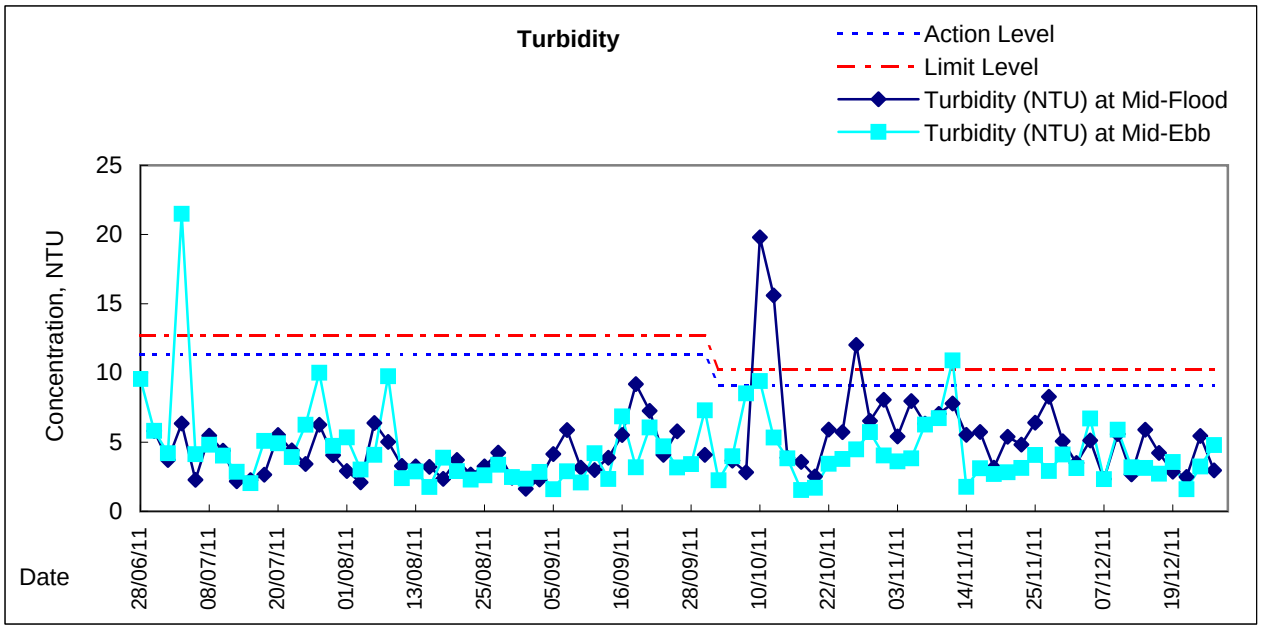


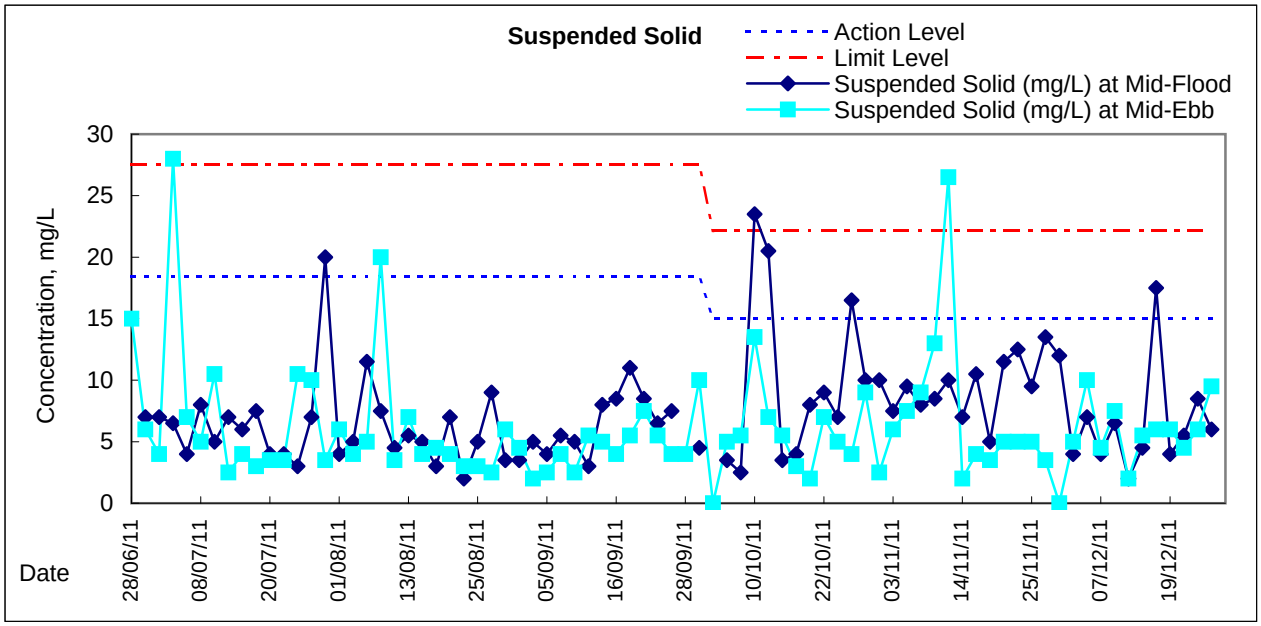




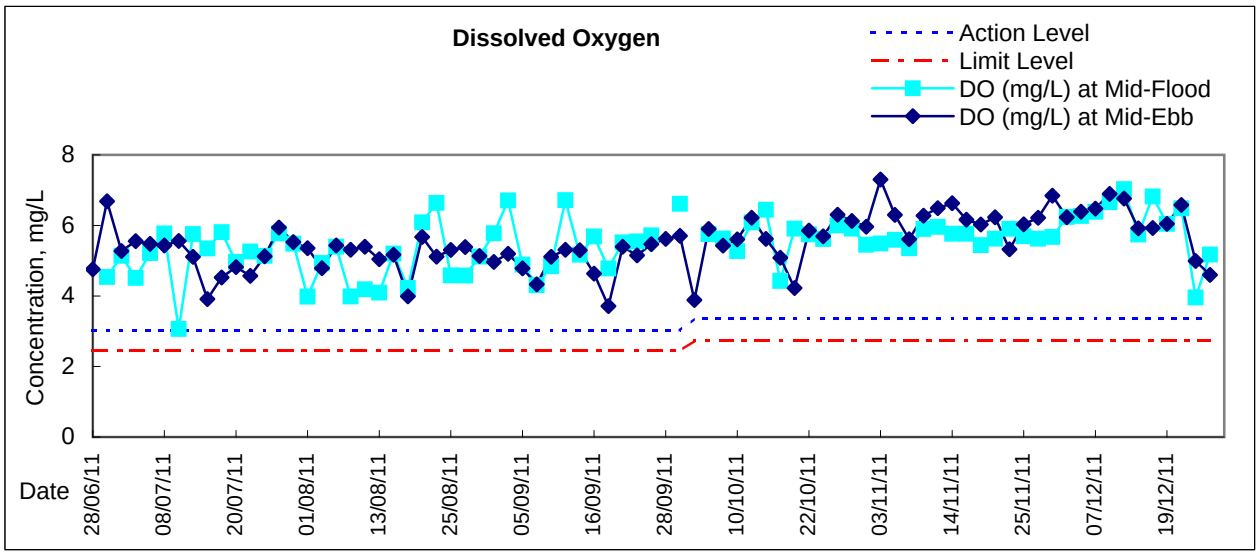
Graphic Presentation of Water Quality Result of C3 - WCT and GEC

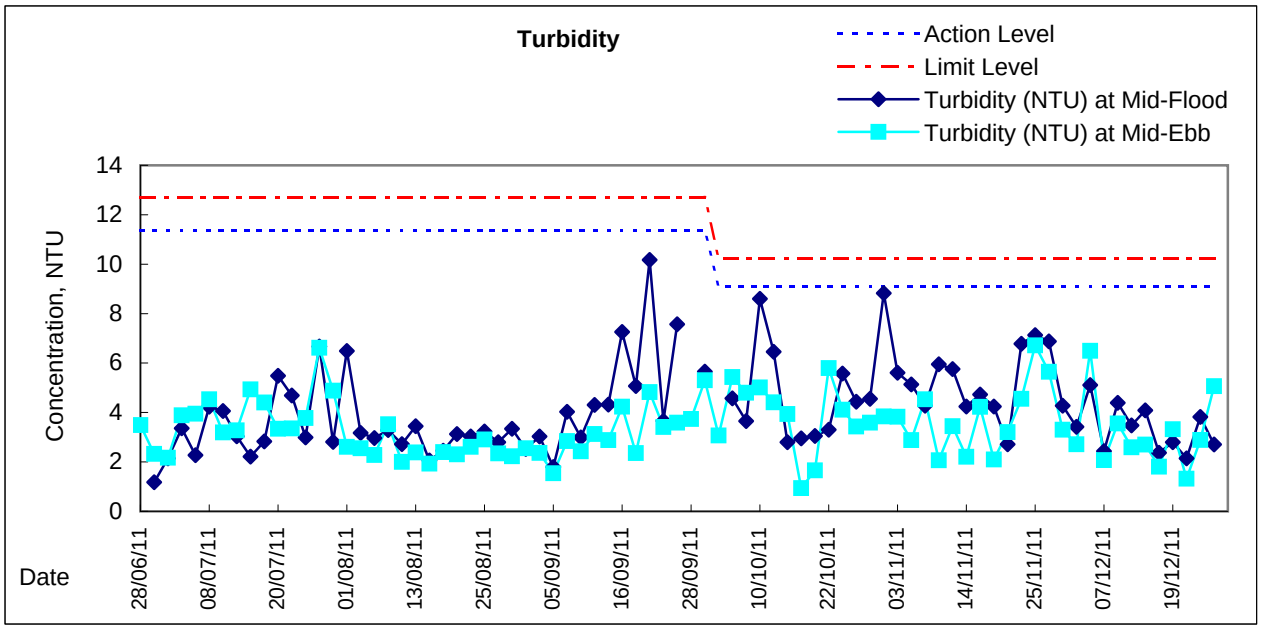


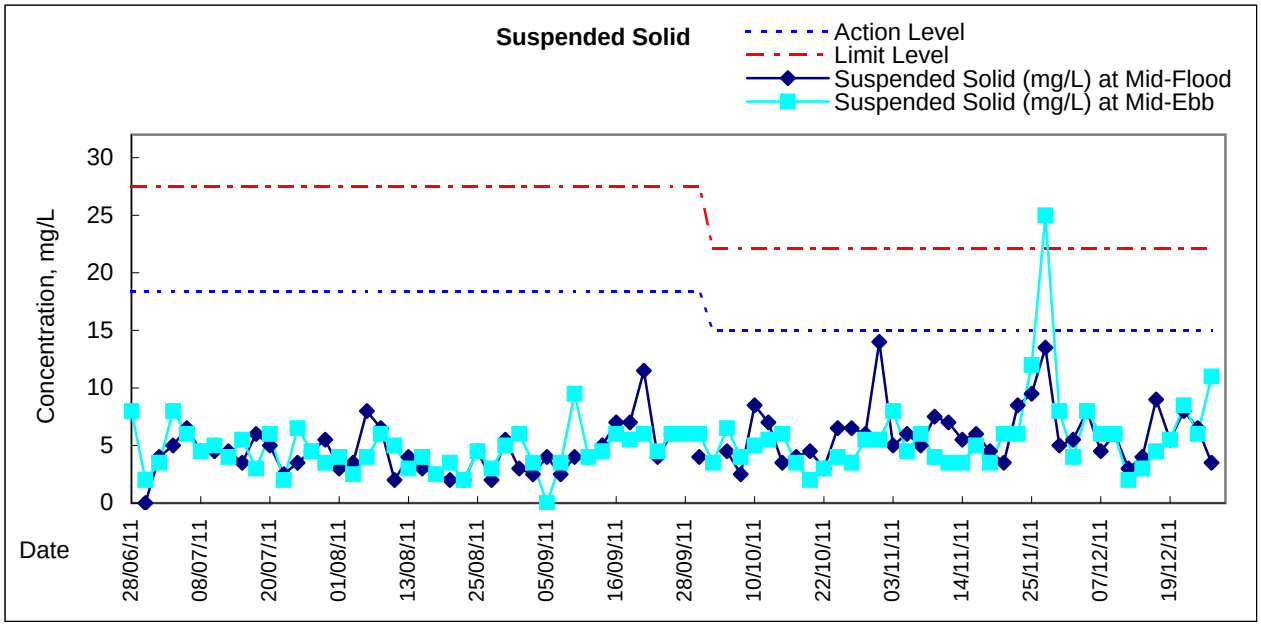




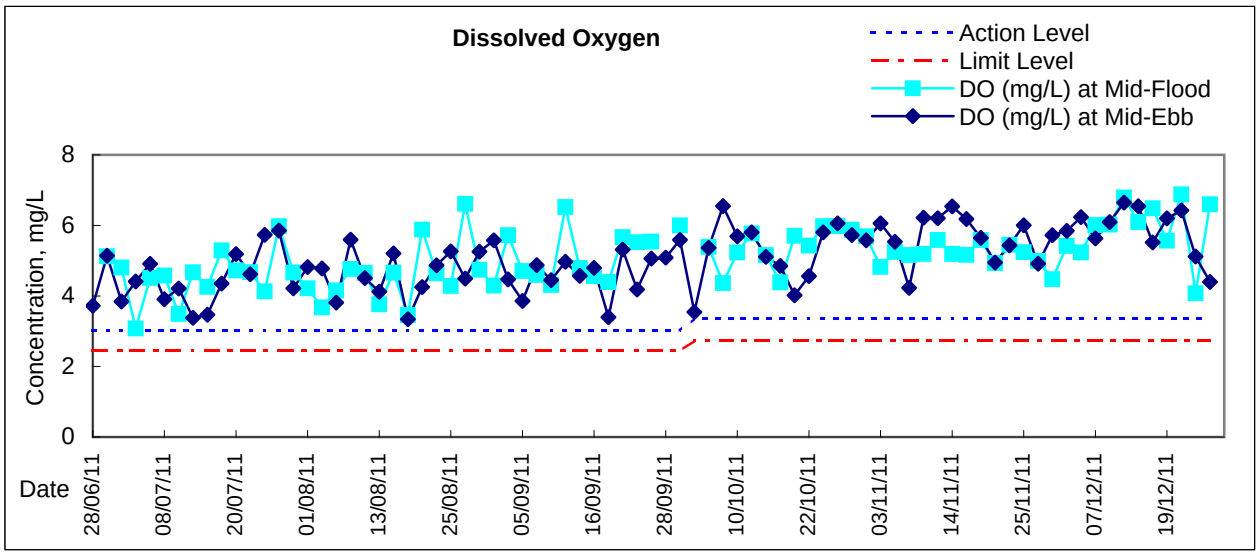
Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

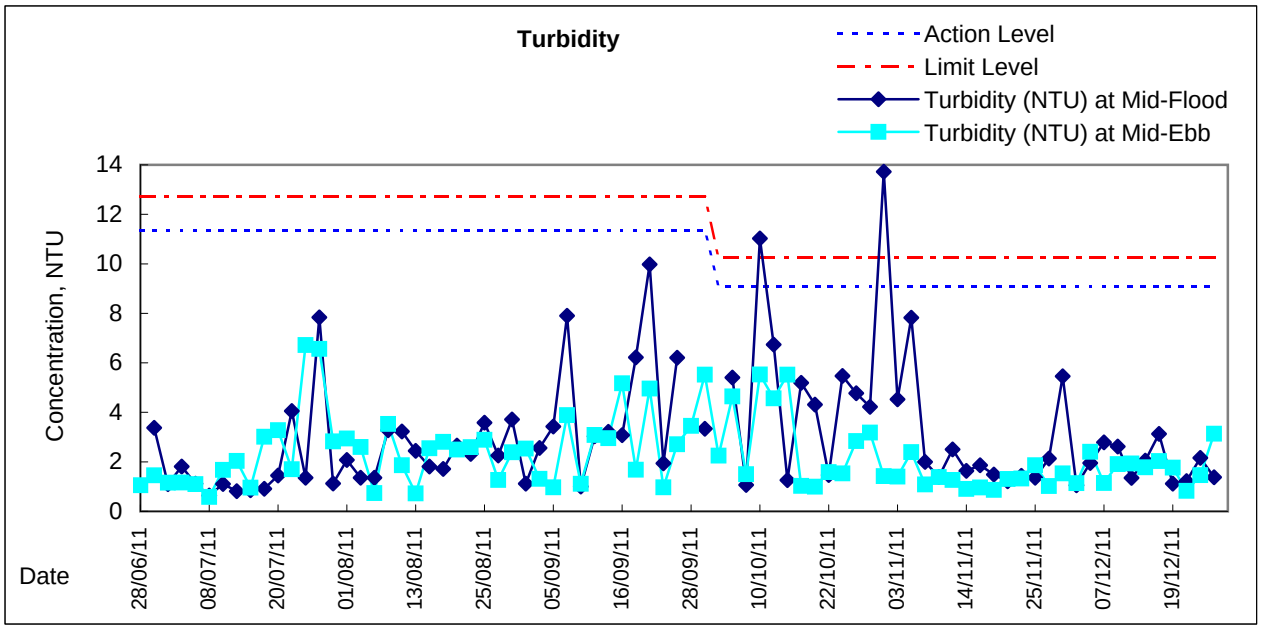


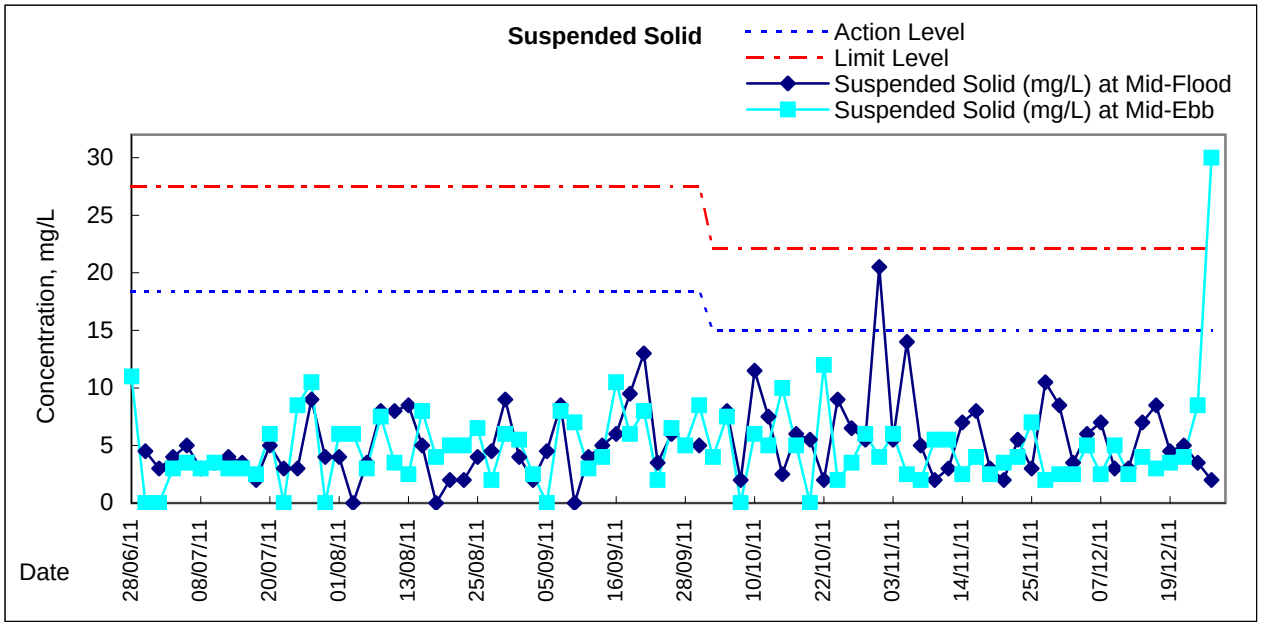




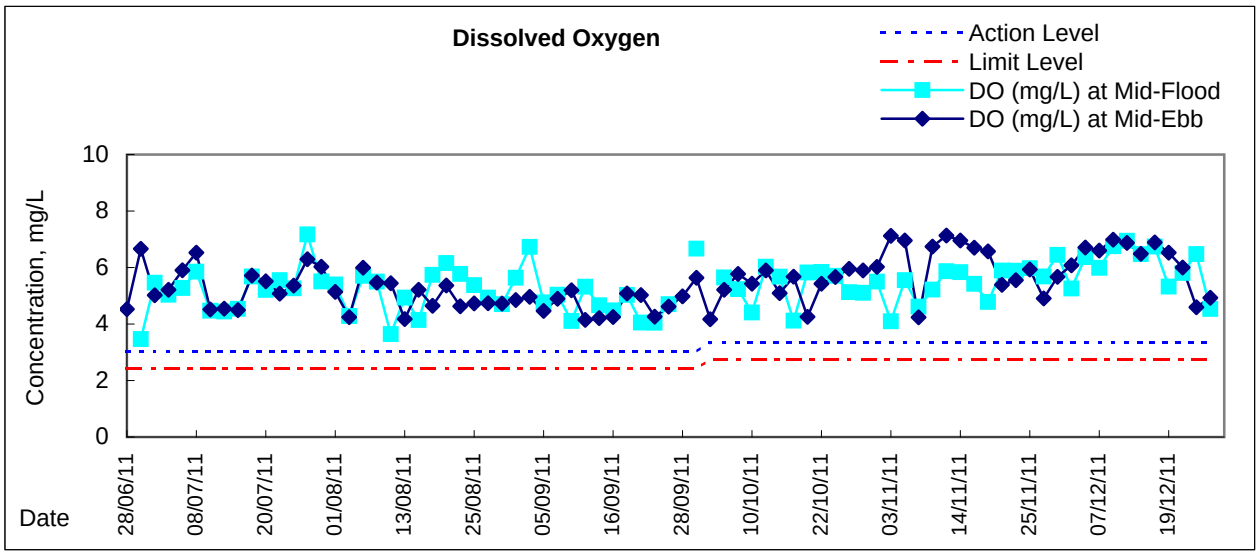
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

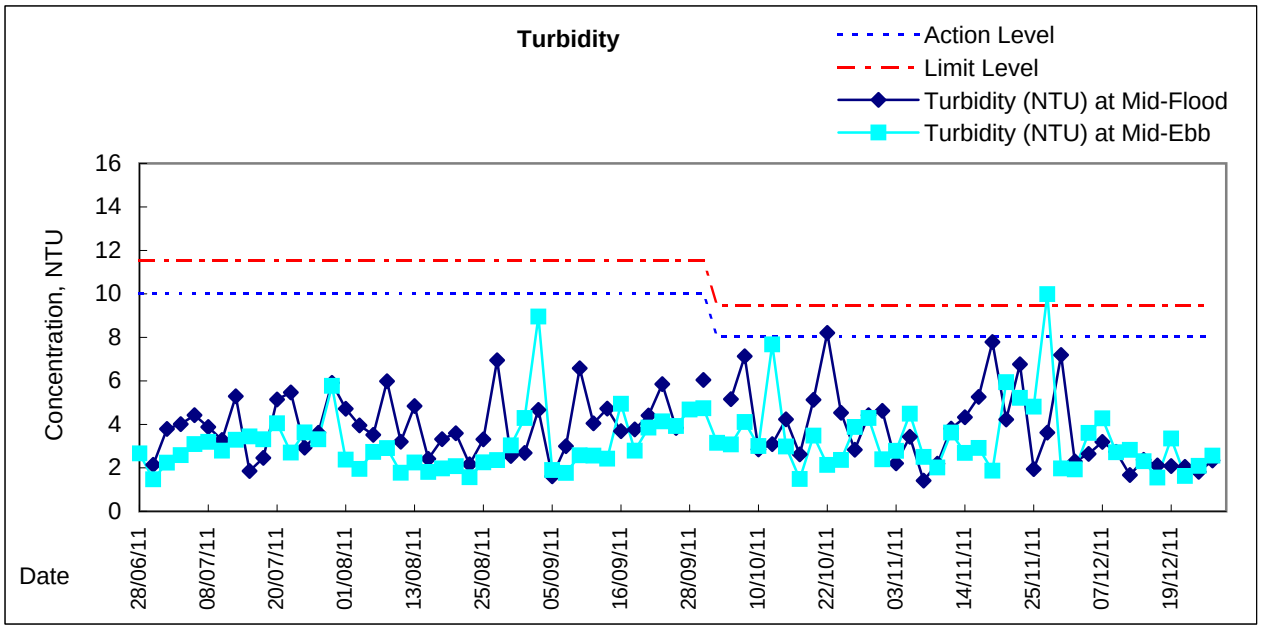


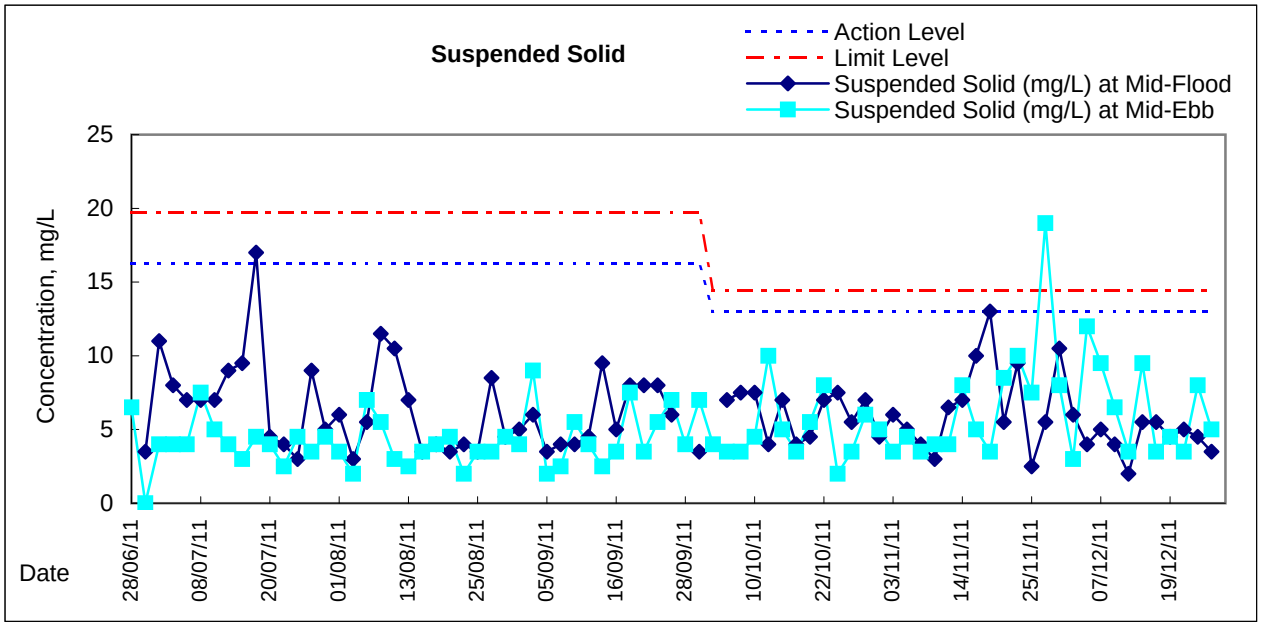




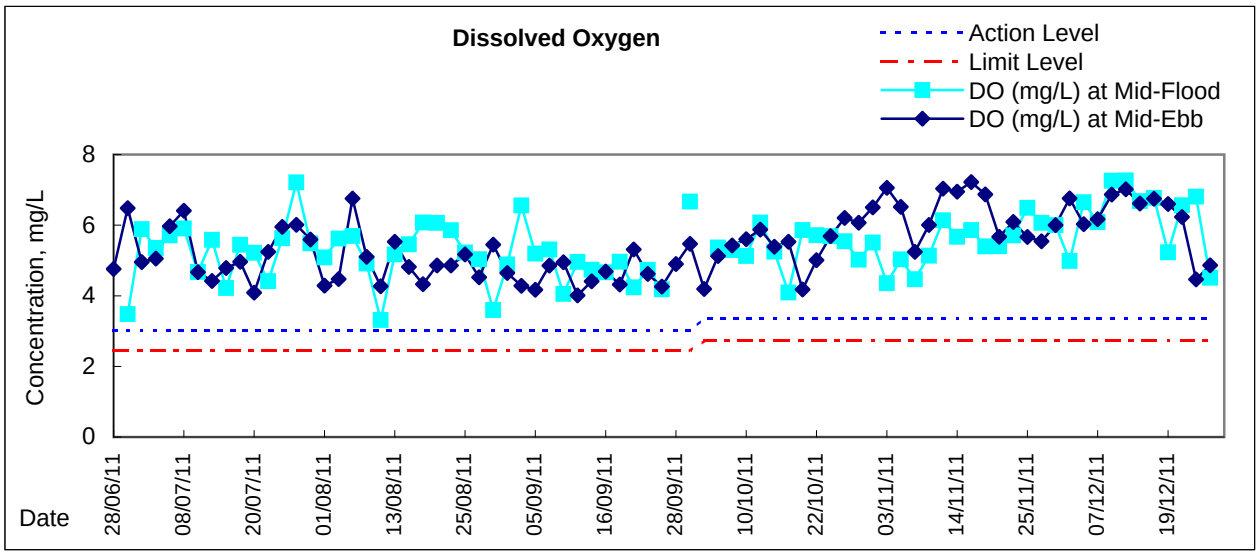
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

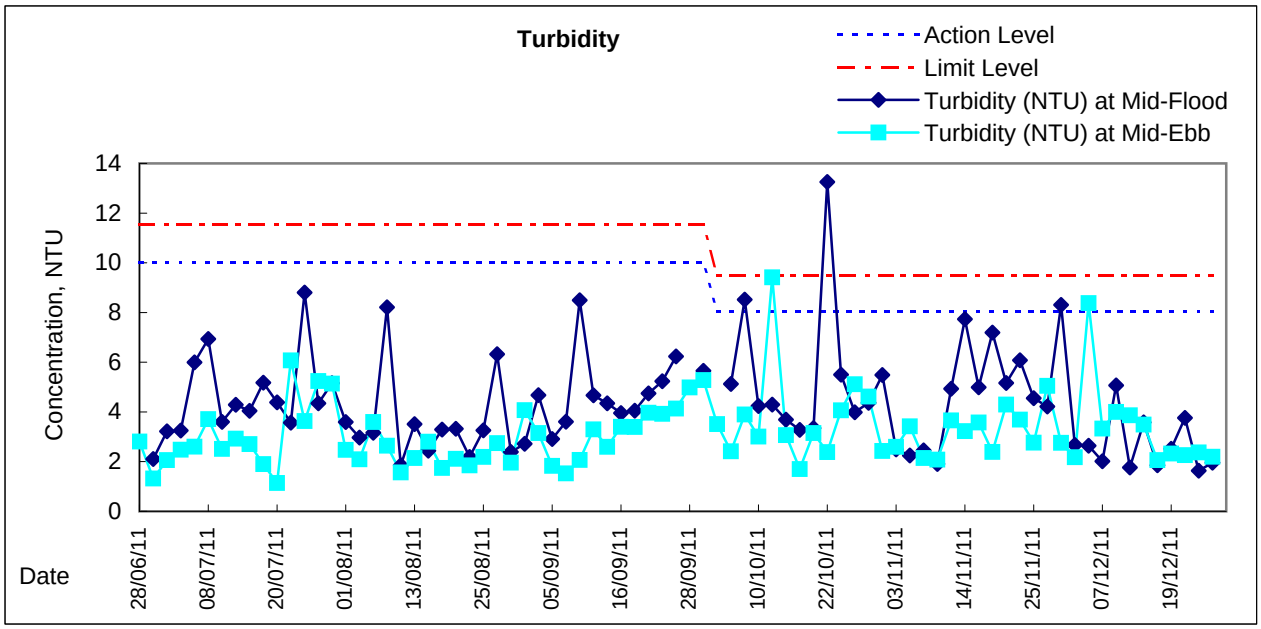


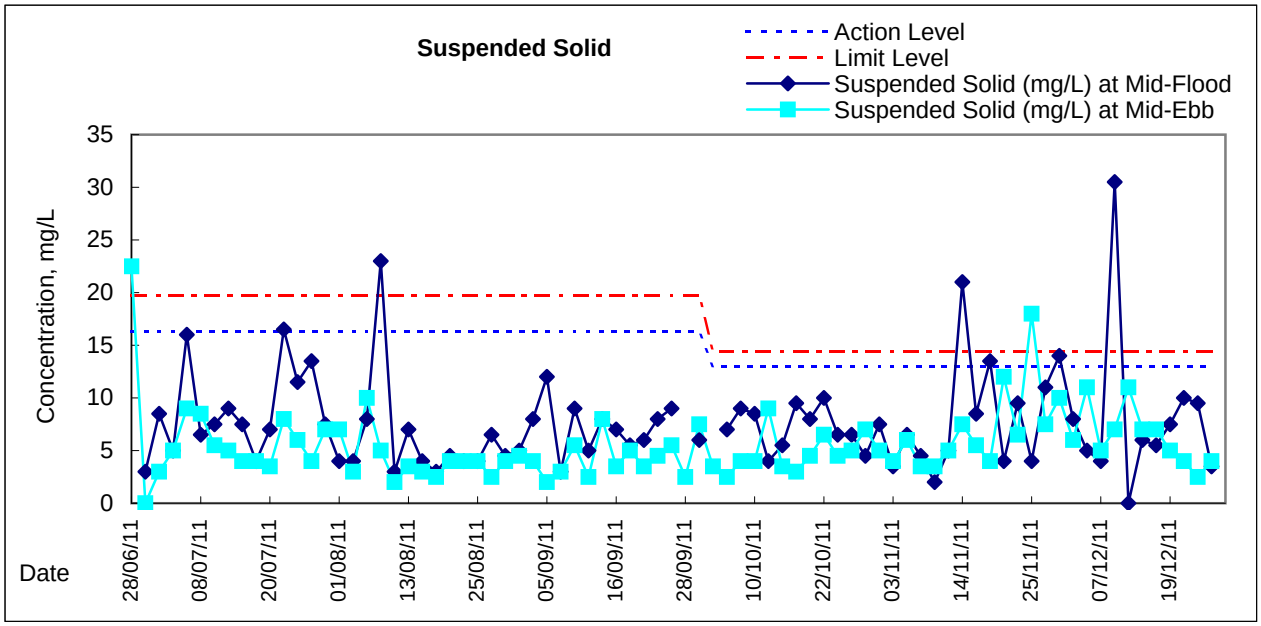




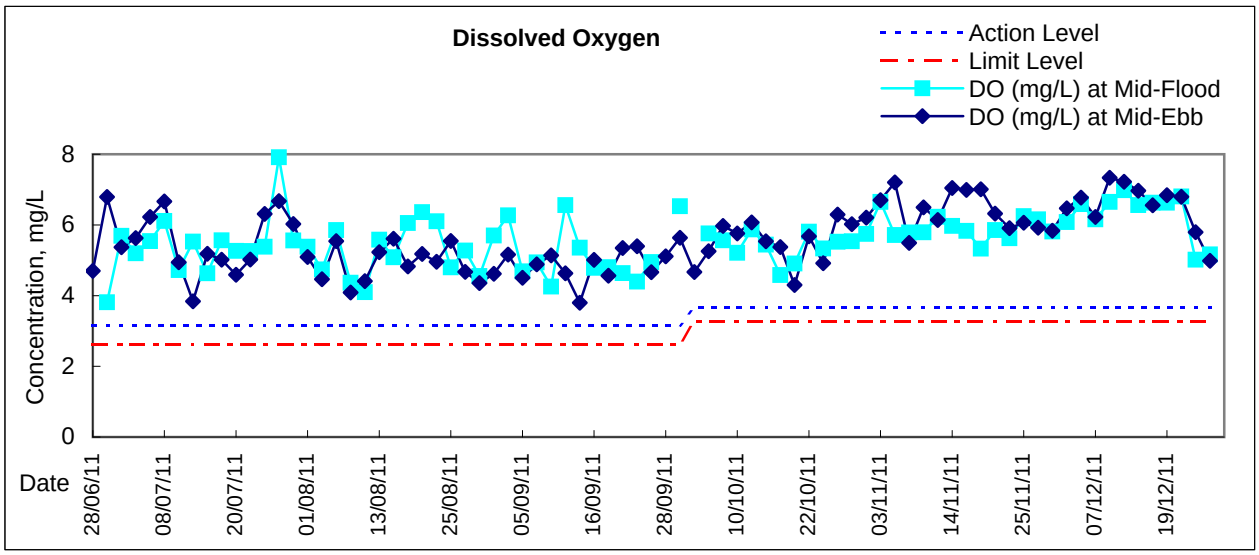
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

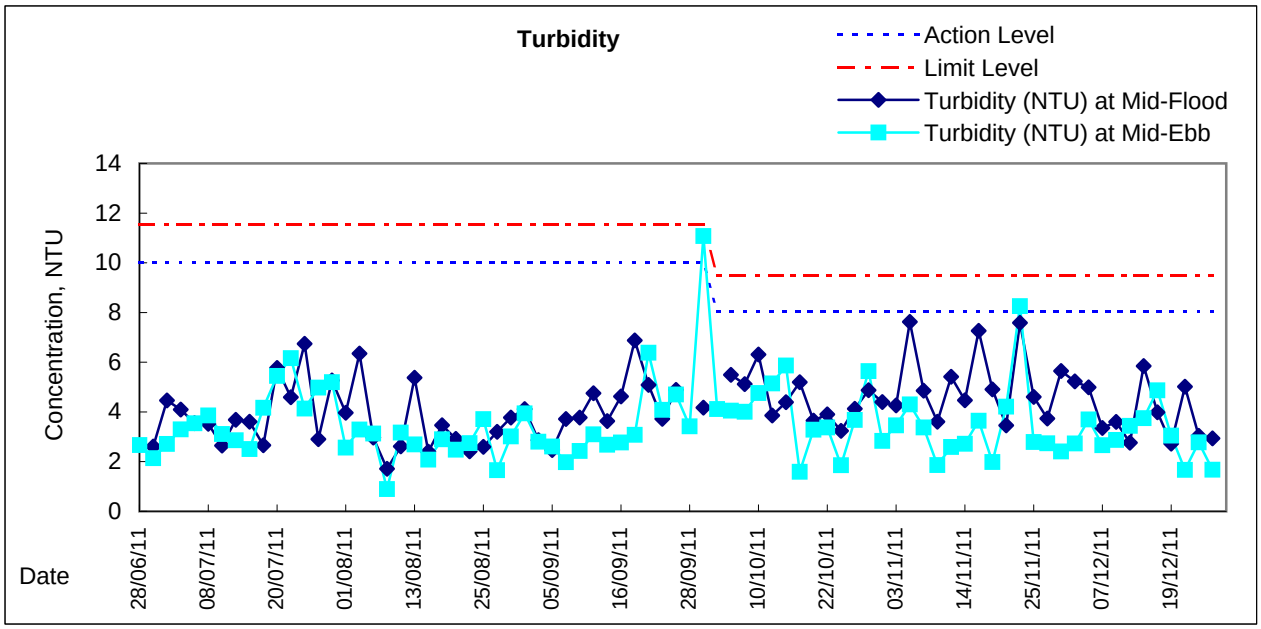


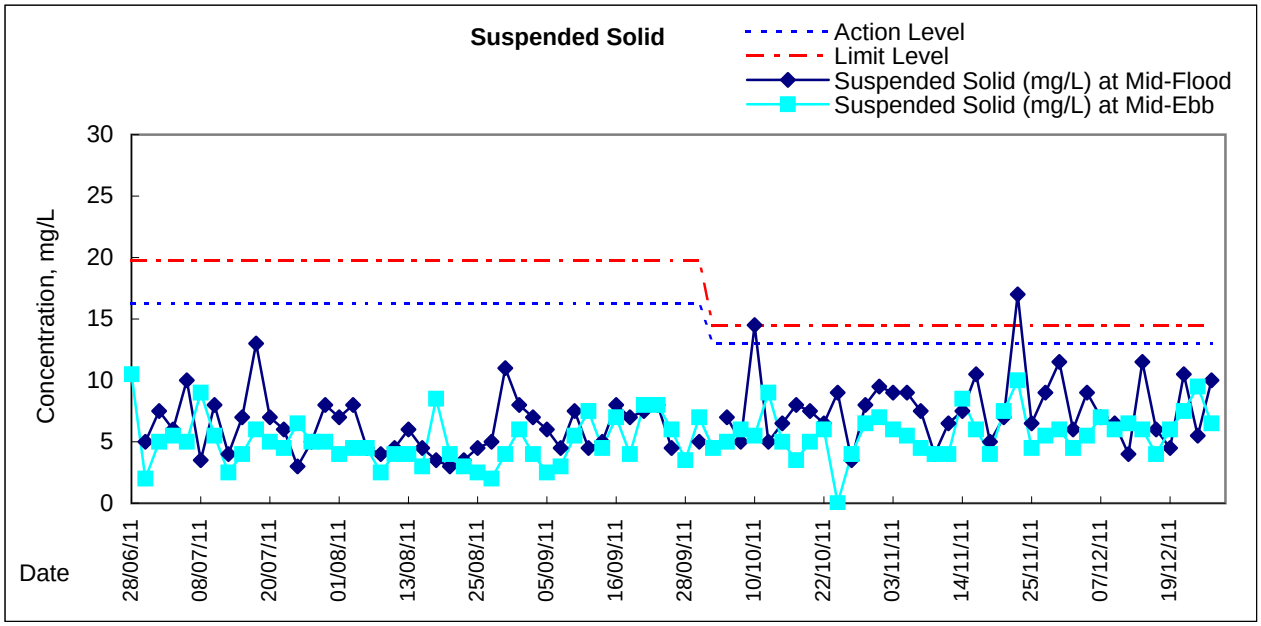




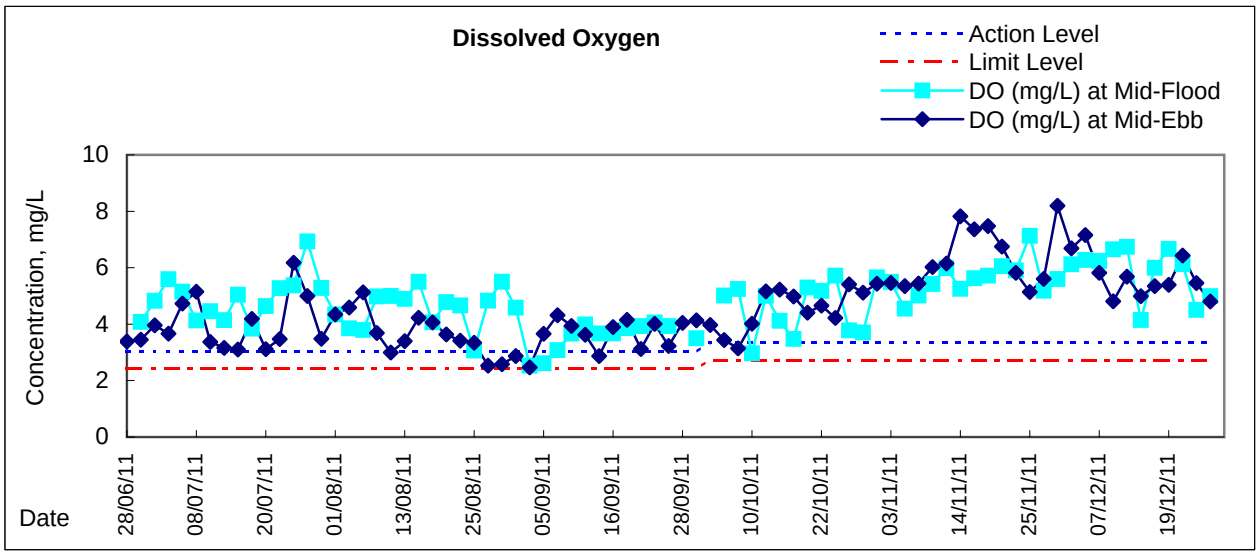
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

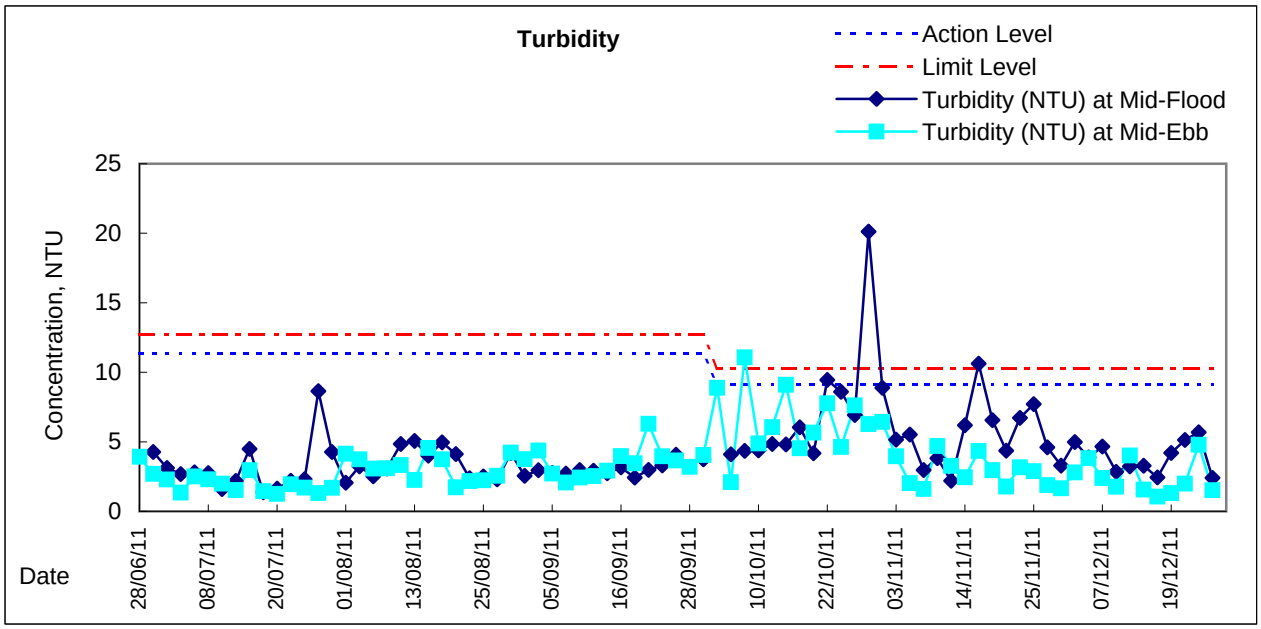


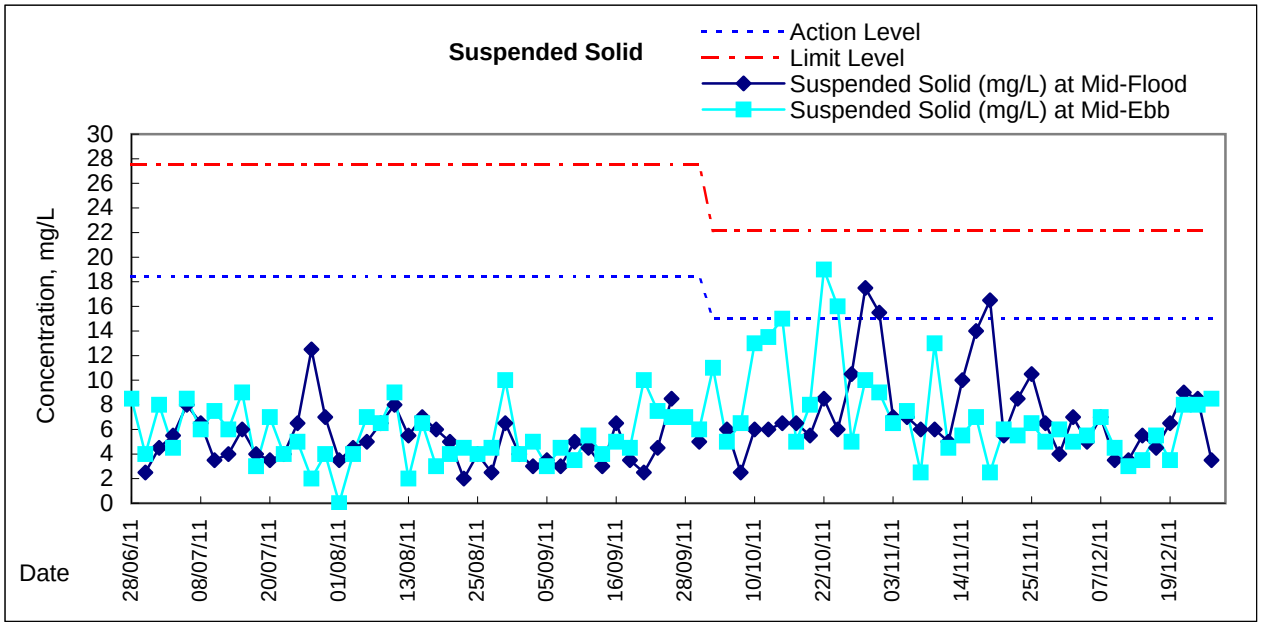




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:02		Middle	1.5	24.10	24.10	24.1	7.85	7.85	7.9	31.50	31.50	31.5	85.7	84.6	85.2	6.06	6.01	6.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:13		Middle	1.5	23.50	23.50	23.5	7.86	7.86	7.9	31.40	31.40	31.4	82.1	81.2	81.7	5.85	5.77	5.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:41		Middle	1.5	23.60	23.60	23.6	7.82	7.82	7.8	31.00	31.00	31.0	89.3	89.1	89.2	6.24	6.21	6.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:28		Middle	1.5	21.50	21.50	21.5	7.93	7.93	7.9	31.40	31.40	31.4	86.6	86.4	86.5	6.45	6.44	6.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:41		Middle	1.5	22.20	22.20	22.2	7.90	7.90	7.9	31.20	31.20	31.2	88.9	88.7	88.8	6.53	6.52	6.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:03		Middle	1.5	21.10	21.10	21.1	7.96	7.96	8.0	31.00	31.00	31.0	79.4	79.3	79.4	6.00	5.98	5.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	9:57	Fine	Surface	1.0	19.70	19.70	19.7	7.96	7.96	8.0	31.40	31.40	31.4	87.6	87.5	87.6	6.62	6.60	6.61
	9:55		Middle	2.0	19.70	19.70	19.7	7.95	7.95	8.0	31.40	31.40	31.4	84.6	84.3	84.5	6.54	6.52	6.53
	9:53		Bottom	3.0	19.60	19.60	19.6	7.94	7.94	7.9	31.30	31.30	31.3	84.7	84.3	84.5	6.41	6.40	6.41
15/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:40		Middle	1.5	20.10	20.10	20.1	7.92	7.92	7.9	31.20	31.20	31.2	88.4	87.0	87.7	6.70	6.65	6.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:30		Middle	1.5	19.50	19.50	19.5	7.96	7.96	8.0	31.20	31.30	31.3	82.0	81.6	81.8	6.31	6.28	6.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:42		Middle	1.5	19.70	19.70	19.7	7.97	7.97	8.0	30.90	30.90	30.9	90.0	89.5	89.8	6.84	6.78	6.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	14:24	Cloudy	Surface	1.0	19.70	19.70	19.7	7.98	7.98	8.0	30.90	30.90	30.9	82.4	82.4	82.4	6.32	6.32	6.32
	14:26		Middle	2.0	19.50	19.50	19.5	7.98	7.98	8.0	30.90	30.90	30.9	86.4	86.0	86.2	6.60	6.51	6.56
	14:28		Bottom	3.0	19.40	19.40	19.4	7.99	7.99	8.0	31.10	31.10	31.1	86.5	86.4	86.5	6.67	6.65	6.66
23/12/2011	15:48	Fine	Surface	1.0	19.00	19.00	19.0	8.25	8.25	8.3	30.10	30.10	30.1	61.5	61.2	61.4	4.68	4.64	4.66
	15:50		Middle	2.0	19.00	19.00	19.0	8.30	8.31	8.3	30.00	30.00	30.0	61.8	61.6	61.7	4.78	4.75	4.77
	15:52		Bottom	3.0	19.00	19.00	19.0	8.31	8.31	8.3	30.00	30.00	30.0	63.0	62.1	62.6	4.86	4.81	4.84
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:18		Middle	1.5	17.35	17.35	17.4	8.08	8.08	8.1	29.67	29.67	29.7	65.7	65.8	65.8	5.28	5.29	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	1.5	23.60	23.60	23.6	7.81	7.81	7.8	31.70	31.70	31.7	74.6	73.0	73.8	5.29	5.22	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:16		Middle	1.5	23.90	23.90	23.9	7.80	7.80	7.8	31.40	31.40	31.4	81.1	80.6	80.9	5.74	5.69	5.72
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:30		Middle	1.5	23.30	23.30	23.3	77.40	77.40	77.4	31.20	31.20	31.2	81.9	81.3	81.6	6.22	6.10	6.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:22		Middle	1.5	21.20	21.20	21.2	7.90	7.90	7.9	31.40	31.40	31.4	86.7	86.5	86.6	6.32	6.28	6.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:58		Middle	1.5	22.70	22.70	22.7	7.89	7.89	7.9	31.20	31.20	31.2	88.8	88.6	88.7	6.27	6.23	6.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:58		Middle	1.5	20.00	20.00	20.0	7.89	7.89	7.9	31.20	31.20	31.2	92.0	91.7	91.9	6.69	6.65	6.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:00		Middle	1.5	19.20	19.20	19.2	7.91	7.91	7.9	31.40	31.40	31.4	85.4	85.2	85.3	6.78	6.76	6.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:32		Middle	1.5	20.30	20.30	20.3	8.01	8.01	8.0	31.79	31.79	31.8	55.7	54.7	55.2	4.16	4.09	4.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:37		Middle	1.5	18.90	18.90	18.9	7.89	7.89	7.9	31.30	31.30	31.3	78.2	77.8	78.0	6.04	6.00	6.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:47		Middle	1.5	19.90	19.90	19.9	7.89	7.89	7.9	31.00	31.00	31.0	87.4	87.1	87.3	6.71	6.67	6.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:17		Middle	1.5	20.10	20.10	20.1	7.90	7.90	7.9	30.80	30.80	30.8	82.2	82.0	82.1	6.21	6.18	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:43		Middle	1.5	18.80	18.80	18.8	8.46	8.46	8.5	30.40	30.40	30.4	59.3	57.8	58.6	4.60	4.49	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:11		Middle	1.5	17.29	17.29	17.3	8.06	8.06	8.1	31.14	31.14	31.1	62.8	62.7	62.8	5.00	5.00	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	0:00	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:57		Middle	1.5	23.10	23.10	23.1	7.94	7.94	7.9	32.00	32.00	32.0	92.1	89.2	90.7	6.55	6.42	6.49
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:08		Middle	1.5	23.60	23.60	23.6	7.93	7.93	7.9	31.90	31.90	31.9	86.9	86.3	86.6	6.15	6.12	6.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2011	13:51	Fine	Surface	1.0	22.80	22.80	22.8	7.94	7.94	7.9	31.50	31.50	31.5	88.2	87.9	88.1	7.25	7.23	7.24
	13:53		Middle	2.0	22.90	22.90	22.9	7.96	7.96	8.0	31.70	31.70	31.7	93.5	93.1	93.3	6.36	6.35	6.36
	13:55		Bottom	3.0	22.70	22.70	22.7	7.96	7.96	8.0	31.70	31.70	31.7	91.3	91.0	91.2	6.60	6.68	6.64
5/12/2011	0:00	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:42		Middle	1.5	21.40	21.40	21.4	7.97	7.97	8.0	31.80	31.80	31.8	88.7	88.4	88.6	6.57	6.56	6.57
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	14:45	Cloudy	Surface	1.0	21.10	21.10	21.1	7.90	7.90	7.9	31.70	31.70	31.7	89.1	88.8	89.0	6.44	6.39	6.42
	14:47		Middle	2.5	22.00	22.00	22.0	7.97	7.97	8.0	31.70	31.70	31.7	91.8	91.5	91.7	6.73	6.70	6.72
	14:49		Bottom	4.0	21.90	21.90	21.9	7.99	7.99	8.0	31.80	31.80	31.8	90.5	90.4	90.5	6.57	6.54	6.56
9/12/2011	15:18	Fine	Surface	1.0	20.90	20.90	20.9	8.04	8.04	8.0	31.40	31.40	31.4	87.6	87.6	87.6	6.60	6.60	6.60
	15:20		Middle	2.5	21.10	21.10	21.1	8.04	8.04	8.0	31.40	31.40	31.4	86.3	85.9	86.1	6.37	6.35	6.36
	15:22		Bottom	4.0	20.70	20.70	20.7	8.04	8.04	8.0	31.60	31.60	31.6	87.3	87.2	87.3	6.57	6.56	6.57
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:46		Middle	1.5	19.50	19.50	19.5	7.98	7.98	8.0	31.70	31.70	31.7	91.1	90.6	90.9	7.04	7.02	7.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	11:30	Fine	Surface	1.0	19.90	19.90	19.9	7.94	7.94	7.9	31.70	31.70	31.7	85.3	84.3	84.8	6.49	6.43	6.46
	11:32		Middle	2.5	19.70	19.70	19.7	7.94	7.94	7.9	31.70	31.70	31.7	87.9	86.8	87.4	6.68	6.62	6.65
	11:34		Bottom	4.0	19.50	19.50	19.5	7.94	7.94	7.9	31.80	31.80	31.8	92.8	91.4	92.1	7.07	7.01	7.04
17/12/2011	0:00	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Middle	1.5	19.40	19.40	19.4	7.98	7.98	8.0	31.80	31.80	31.8	87.6	87.5	87.6	6.82	6.81	6.82
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	11:35	Fine	Surface	1.0	19.00	19.00	19.0	7.99	7.99	8.0	31.60	31.60	31.6	91.4	91.1	91.3	7.11	7.07	7.09
	-		Middle	2.0	19.00	19.00	19.0	7.99	7.99	8.0	31.60	31.60	31.6	90.1	90.5	90.3	7.01	7.03	7.02
	11:32		Bottom	3.0	19.10	19.10	19.1	7.99	7.99	8.0	31.70	31.70	31.7	89.0	88.7	88.9	8.90	6.84	7.87
21/12/2011	14:43	Cloudy	Surface	1.0	19.40	19.40	19.4	8.01	8.01	8.0	31.50	31.50	31.5	91.3	90.5	90.9	7.04	6.89	6.97
	14:45		Middle	2.5	19.50	19.50	19.5	8.01	8.01	8.0	31.60	31.60	31.6	92.4	92.2	92.3	7.07	7.05	7.06
	14:47		Bottom	4.0	19.50	19.50	19.5	8.01	8.01	8.0	31.60	31.60	31.6	91.5	91.5	91.5	6.98	6.98	6.98
23/12/2011	16:02	Fine	Surface	1.0	19.00	19.00	19.0	8.18	8.18	8.2	30.60	30.60	30.6	66.7	63.3	65.0	5.08	4.89	4.99
	16:04		Middle	2.0	18.90	18.90	18.9	8.18	8.18	8.2	30.60	30.60	30.6	66.1	62.4	64.3	5.00	4.84	4.92
	16:06		Bottom	3.0	19.00	19.00	19.0	8.17	8.17	8.2	30.70	30.70	30.7	68.1	66.4	67.3	5.17	5.14	5.16
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:42		Middle	1.0	17.16	17.16	17.2	8.12	8.12	8.1	31.39	31.39	31.4	60.1	60.1	60.1	4.79	4.79	4.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	0:00	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:55		Middle	1.5	23.40	23.40	23.4	7.92	7.92	7.9	31.90	31.90	31.9	91.0	90.1	90.6	6.46	6.41	6.44
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:03		Middle	1.5	24.50	24.50	24.5	7.91	7.91	7.9	31.60	31.60	31.6	89.5	88.0	88.8	6.25	6.19	6.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2011	13:59	Fine	Surface	1.0	21.60	21.60	21.6	7.98	7.98	8.0	31.70	31.70	31.7	95.2	95.1	95.2	6.71	6.68	6.70
	14:01		Middle	2.0	22.30	22.30	22.3	7.98	7.98	8.0	31.80	31.80	31.8	92.0	91.8	91.9	6.74	6.70	6.72
	14:03		Bottom	3.0	22.40	22.40	22.4	7.96	7.96	8.0	31.70	31.70	31.7	92.6	92.4	92.5	6.62	6.59	6.61
5/12/2011	13:36	Cloudy	Surface	1.0	21.40	21.40	21.4	8.00	8.00	8.0	32.00	32.00	32.0	88.1	87.9	88.0	6.45	6.44	6.45
	13:38		Middle	2.0	21.50	21.50	21.5	8.01	8.01	8.0	31.90	31.90	31.9	90.7	90.5	90.6	6.72	6.70	6.71
	13:40		Bottom	3.0	21.40	21.40	21.4	8.01	8.01	8.0	31.90	31.90	31.9	92.0	91.8	91.9	6.65	6.64	6.65
7/12/2011	14:54	Cloudy	Surface	1.0	21.90	21.90	21.9	8.00	8.00	8.0	31.70	31.70	31.7	92.1	91.6	91.9	6.81	6.78	6.80
	14:56		Middle	2.5	21.80	21.80	21.8	8.00	8.00	8.0	31.80	31.80	31.8	93.3	93.1	93.2	6.75	6.71	6.73
	14:58		Bottom	4.0	21.80	21.80	21.8	8.00	8.00	8.0	31.80	31.80	31.8	91.5	91.2	91.4	6.76	6.75	6.76
9/12/2011	15:11	Fine	Surface	1.0	20.90	20.90	20.9	8.06	8.06	8.1	31.50	31.50	31.5	89.2	89.0	89.1	6.60	6.59	6.60
	15:13		Middle	2.5	21.10	21.10	21.1	8.06	8.06	8.1	31.40	31.40	31.4	86.7	86.5	86.6	6.51	6.50	6.51
	15:15		Bottom	4.0	21.10	21.10	21.1	8.05	8.05	8.1	31.50	31.50	31.5	86.1	85.5	85.8	6.40	6.47	6.44
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:40		Middle	1.5	19.40	19.40	19.4	7.91	7.91	7.9	31.70	31.70	31.7	92.9	92.6	92.8	7.11	7.10	7.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	11:25	Fine	Surface	1.0	20.40	20.40	20.4	7.92	7.92	7.9	31.70	31.70	31.7	89.7	89.1	89.4	6.78	6.75	6.77
	11:27		Middle	2.5	20.10	20.10	20.1	7.93	7.93	7.9	31.70	31.70	31.7	90.1	88.7	89.4	6.82	6.76	6.79
	11:28		Bottom	4.0	20.00	20.00	20.0	7.94	7.94	7.9	31.70	31.70	31.7	85.1	84.3	84.7	6.47	6.42	6.45
17/12/2011	0:00	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:17		Middle	1.5	19.40	19.40	19.4	7.98	7.98	8.0	31.70	31.70	31.7	83.7	83.5	83.6	6.44	6.40	6.42
	0:00		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:25		Middle	1.5	18.90	18.90	18.9	7.98	7.98	8.0	31.70	31.70	31.7	91.9	91.8	91.9	7.19	7.17	7.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	14:38	Cloudy	Surface	1.0	19.60	19.60	19.6	8.00	8.00	8.0	31.60	31.60	31.6	90.9	90.6	90.8	6.90	6.88	6.89
	14:36		Middle	2.5	19.50	19.50	19.5	7.99	7.99	8.0	31.50	31.50	31.5	90.0	89.5	89.8	6.91	6.85	6.88
	14:34		Bottom	4.0	19.30	19.30	19.3	7.90	7.90	7.9	31.50	31.50	31.5	85.2	85.1	85.2	6.50	6.52	6.51
23/12/2011	15:54	Fine	Surface	1.0	19.00	19.00	19.0	8.24	8.24	8.2	30.50	30.50	30.5	66.2	66.2	66.2	5.09	5.09	5.09
	15:56		Middle	2.5	19.00	19.00	19.0	8.20	8.20	8.2	30.60	30.60	30.6	69.5	69.4	69.5	5.25	5.21	5.23
	15:58		Bottom	4.0	19.00	19.00	19.0	8.19	8.19	8.2	30.60	30.60	30.6	69.6	69.8	69.7	5.28	5.32	5.30
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:48		Middle	1.5	17.12	17.12	17.1	8.12	8.12	8.1	31.36	31.36	31.4	60.5	60.7	60.6	4.83	4.84	4.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:02		Middle	2	22.62	22.62	22.6	7.99	7.99	8.0	30.96	30.96	31.0	86.1	86.1	86.1	6.22	6.22	6.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:48		Middle	2	22.91	22.91	22.9	7.93	7.93	7.9	31.51	31.51	31.5	94.7	94.5	94.6	6.77	6.77	6.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:00		Middle	2	20.07	20.08	20.1	8.19	8.19	8.2	28.53	28.53	28.5	75.3	73.2	74.3	5.79	5.63	5.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:05		Middle	2	21.18	21.18	21.2	7.73	7.73	7.7	31.44	31.44	31.4	93.1	92.6	92.9	6.88	6.84	6.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:35		Middle	2	21.74	21.74	21.7	7.49	7.49	7.5	31.19	31.19	31.2	96.5	96.9	96.7	7.07	7.10	7.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:55		Middle	2	19.65	19.64	19.6	8.22	8.22	8.2	30.72	30.72	30.7	80.7	80.7	80.7	6.17	6.16	6.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:45		Middle	2	18.94	18.94	18.9	7.95	7.95	8.0	31.11	31.11	31.1	69.3	69.2	69.3	5.35	5.34	5.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:07		Middle	2	19.65	19.65	19.7	7.63	7.63	7.6	30.94	30.94	30.9	89.4	89.6	89.5	6.81	6.82	6.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:54		Middle	2	18.82	18.82	18.8	7.87	7.87	7.9	29.80	29.80	29.8	82.5	82.6	82.6	6.43	6.45	6.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:11		Middle	2	19.09	19.09	19.1	7.80	7.80	7.8	30.02	30.02	30.0	76.6	76.3	76.5	5.93	5.91	5.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:18		Middle	2	19.22	19.26	19.2	7.64	7.64	7.6	30.83	30.83	30.8	79.9	79.9	79.9	6.14	6.14	6.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:40		Middle	2	17.82	17.82	17.8	8.22	8.22	8.2	30.04	30.04	30.0	60.3	60.2	60.3	4.79	4.78	4.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:54		Middle	1	17.62	17.62	17.6	7.90	7.90	7.9	30.13	30.13	30.1	66.3	66.3	66.3	5.28	5.28	5.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:56		Middle	2	22.96	22.96	23.0	7.75	7.75	7.8	32.13	32.13	32.1	78.7	78.7	78.7	5.61	5.61	5.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:55		Middle	2	22.95	22.95	23.0	7.88	7.88	7.9	31.80	31.80	31.8	114.3	114.6	114.5	8.17	8.19	8.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:49		Middle	2	20.50	20.50	20.5	8.33	8.33	8.3	31.87	31.87	31.9	89.4	89.5	89.5	6.68	6.68	6.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:55		Middle	2	21.17	21.17	21.2	7.72	7.72	7.7	31.53	31.53	31.5	96.9	96.9	96.9	7.16	7.16	7.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:20		Middle	2	21.84	21.84	21.8	7.42	7.42	7.4	31.64	31.64	31.6	80.0	80.0	80.0	5.83	5.83	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:45		Middle	2	19.27	19.27	19.3	8.19	8.19	8.2	31.62	31.62	31.6	62.8	62.8	62.8	4.80	4.80	4.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:57		Middle	2	18.82	18.82	18.8	7.92	7.92	7.9	31.36	31.36	31.4	73.6	73.5	73.6	5.68	5.68	5.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:55		Middle	2	19.89	19.89	19.9	7.58	7.58	7.6	31.37	31.37	31.4	65.8	65.9	65.9	4.98	4.99	4.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:35		Middle	2	18.87	18.87	18.9	7.88	7.88	7.9	31.42	31.42	31.4	69.5	69.4	69.5	5.36	5.35	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:06		Middle	2	18.98	18.99	19.0	7.78	7.78	7.8	31.16	31.16	31.2	70.0	70.0	70.0	5.39	5.39	5.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:08		Middle	2	19.37	19.37	19.4	7.75	7.75	7.8	31.03	31.03	31.0	84.6	84.5	84.6	6.46	6.46	6.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:52		Middle	2	17.33	17.33	17.3	8.19	8.19	8.2	30.95	30.95	31.0	68.7	68.6	68.7	5.48	5.47	5.48
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:30		Middle	2	17.56	17.56	17.6	7.95	7.95	8.0	31.19	31.19	31.2	60.7	60.7	60.7	4.81	4.81	4.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:55		Middle	1.0	22.33	22.33	22.3	8.01	8.01	8.0	32.10	32.10	32.1	92.0	91.4	91.7	6.63	6.59	6.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:45		Middle	1.5	22.84	22.84	22.8	7.97	7.97	8.0	32.10	32.10	32.1	92.8	92.8	92.8	6.64	6.64	6.64
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:55		Middle	1.0	20.10	20.10	20.1	8.45	8.45	8.5	31.84	31.84	31.8	71.3	71.2	71.3	5.36	5.36	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:40		Middle	1.0	21.08	21.08	21.1	7.74	7.74	7.7	32.15	32.15	32.2	95.7	95.6	95.7	7.06	7.05	7.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:00		Middle	1.0	22.16	22.16	22.2	7.53	7.53	7.5	31.83	31.83	31.8	91.3	91.2	91.3	6.61	6.60	6.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:30		Middle	1.0	19.71	19.70	19.7	8.30	8.30	8.3	31.75	31.75	31.8	61.7	61.8	61.8	4.69	4.70	4.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:35		Middle	1.0	19.02	19.02	19.0	8.13	8.13	8.1	31.41	31.41	31.4	72.2	72.1	72.2	5.55	5.55	5.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:35		Middle	1.0	19.80	19.80	19.8	7.68	7.68	7.7	31.56	31.56	31.6	68.1	68.1	68.1	5.16	5.15	5.16
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:10		Middle	1.0	19.14	19.14	19.1	7.95	7.95	8.0	31.51	31.51	31.5	73.7	73.7	73.7	5.65	5.65	5.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:10		Middle	1.0	19.62	19.62	19.6	8.00	8.00	8.0	31.43	31.43	31.4	78.8	78.9	78.9	6.00	6.00	6.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:45		Middle	1.0	19.43	19.43	19.4	7.65	7.65	7.7	31.09	31.09	31.1	80.4	80.3	80.4	6.15	6.14	6.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:20		Middle	1.0	18.01	18.01	18.0	8.24	8.24	8.2	31.16	31.16	31.2	63.5	63.6	63.6	4.99	5.00	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:07		Middle	1.0	17.87	17.87	17.9	8.02	8.02	8.0	31.27	31.27	31.3	64.7	64.8	64.8	5.09	5.10	5.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

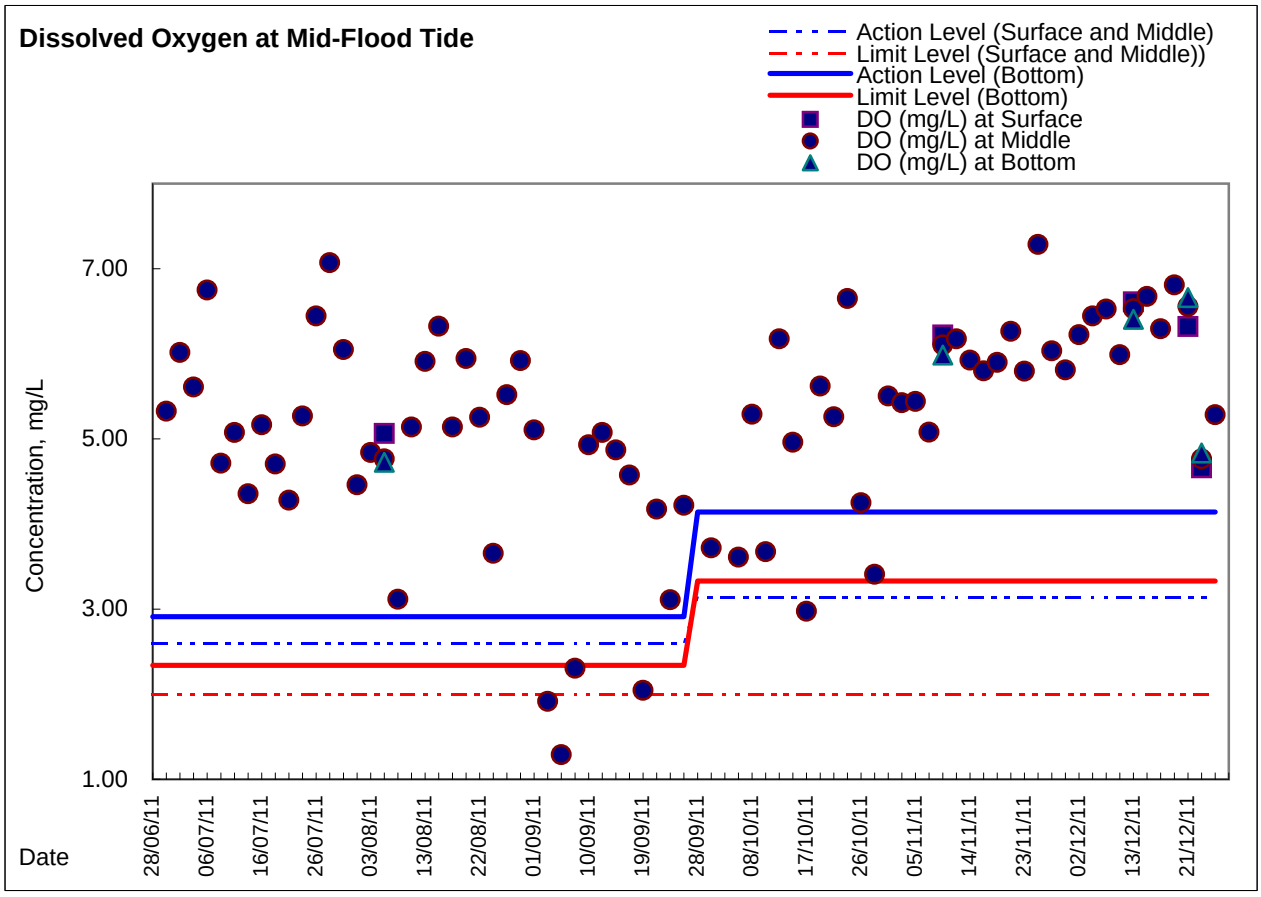
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

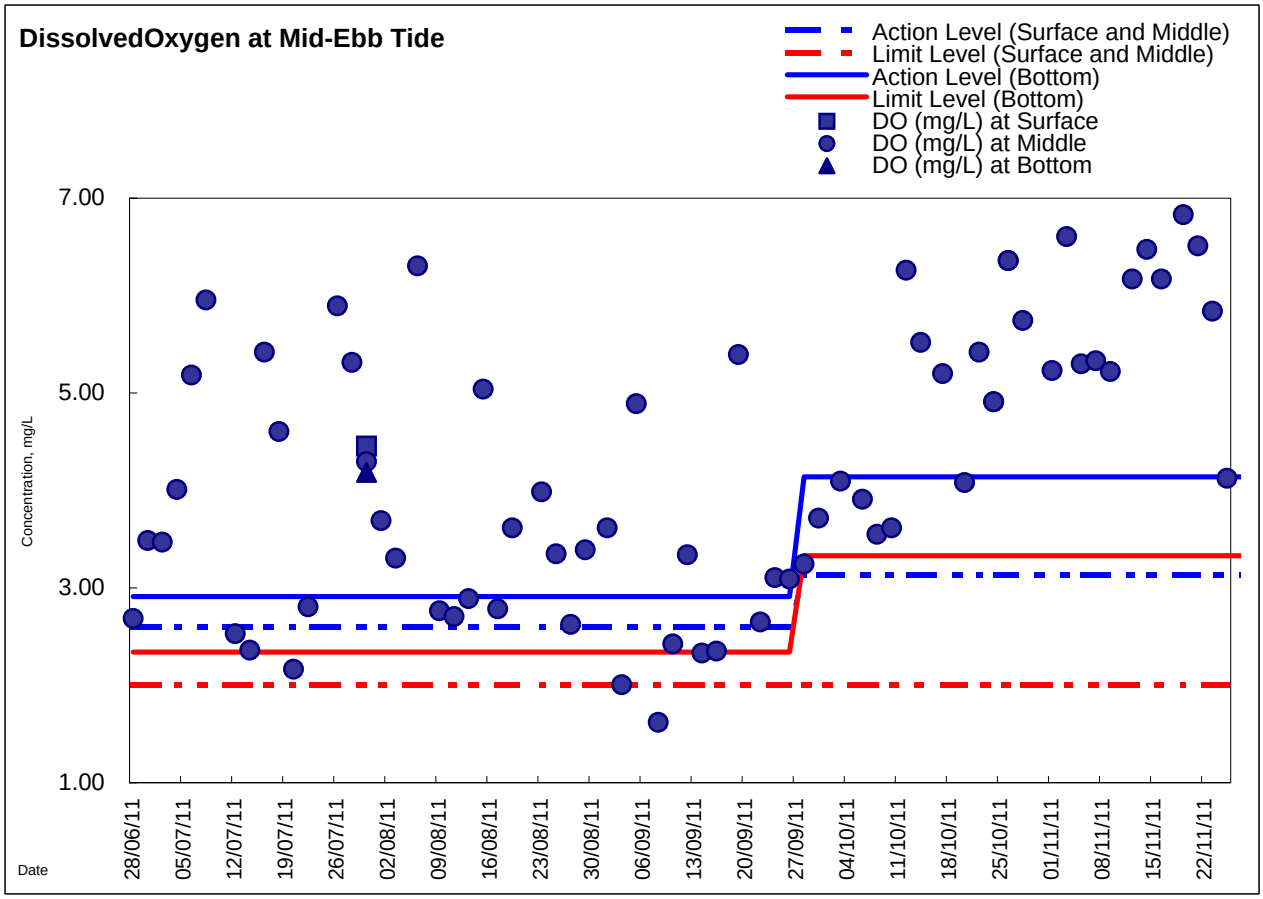
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
28/11/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:50		Middle	1.0	22.50	22.50	22.5	8.02	8.02	8.0	31.99	31.99	32.0	91.5	91.3	91.4	6.58	6.57	6.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/11/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:42		Middle	1.5	22.77	22.77	22.8	7.99	7.99	8.0	32.08	32.08	32.1	94.0	94.0	94.0	6.73	6.73	6.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:02		Middle	1.0	20.45	20.47	20.5	8.46	8.46	8.5	31.91	31.91	31.9	70.8	70.7	70.8	5.28	5.28	5.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:45		Middle	1.0	21.23	21.23	21.2	7.80	7.80	7.8	31.84	31.84	31.8	94.6	94.4	94.5	6.97	6.95	6.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:05		Middle	1.0	22.28	22.28	22.3	7.50	7.49	7.5	31.82	31.82	31.8	91.7	92.0	91.9	6.65	6.67	6.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:35		Middle	1.0	19.83	19.84	19.8	8.32	8.32	8.3	31.69	31.69	31.7	63.1	63.0	63.1	4.77	4.77	4.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:40		Middle	1.0	19.00	19.00	19.0	8.18	8.18	8.2	31.17	31.17	31.2	71.3	71.1	71.2	5.49	5.48	5.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:40		Middle	1.0	19.66	19.66	19.7	7.67	7.67	7.7	31.58	31.58	31.6	69.9	69.9	69.9	5.31	5.31	5.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2:15		Middle	1.0	19.02	19.02	19.0	7.95	7.95	8.0	31.43	31.43	31.4	73.7	73.6	73.7	5.67	5.66	5.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:15		Middle	1.0	19.34	19.34	19.3	7.98	7.98	8.0	31.42	31.42	31.4	79.6	79.7	79.7	6.40	6.40	6.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21:50		Middle	1.0	19.41	19.40	19.4	7.65	7.65	7.7	30.98	30.98	31.0	82.4	82.5	82.5	6.31	6.32	6.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:25		Middle	1.0	17.91	17.91	17.9	8.25	8.25	8.3	31.34	31.34	31.3	65.5	65.6	65.6	5.15	6.16	5.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/12/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:14		Middle	1.0	17.79	17.79	17.8	8.02	8.02	8.0	31.30	31.30	31.3	66.4	66.4	66.4	5.23	5.24	5.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

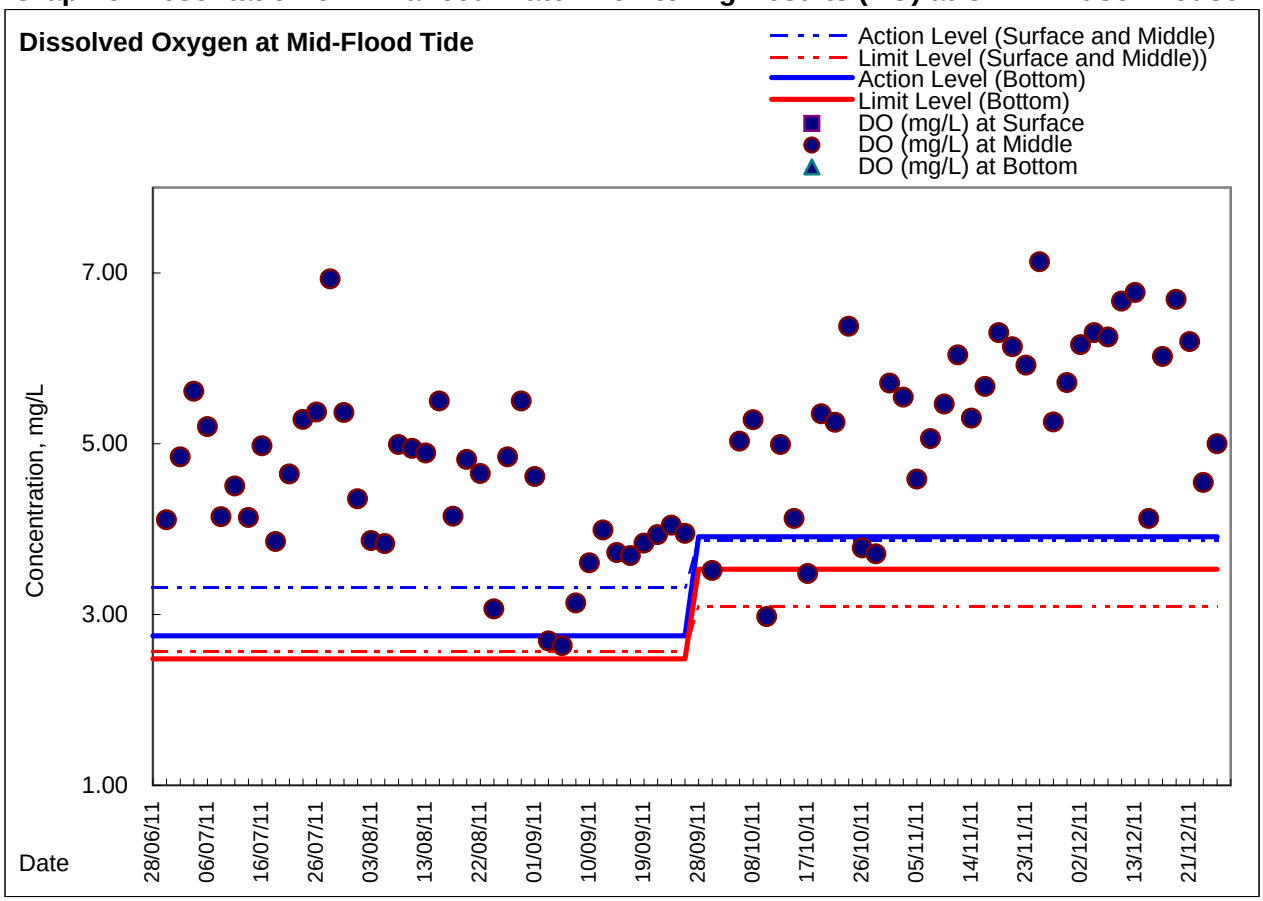
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

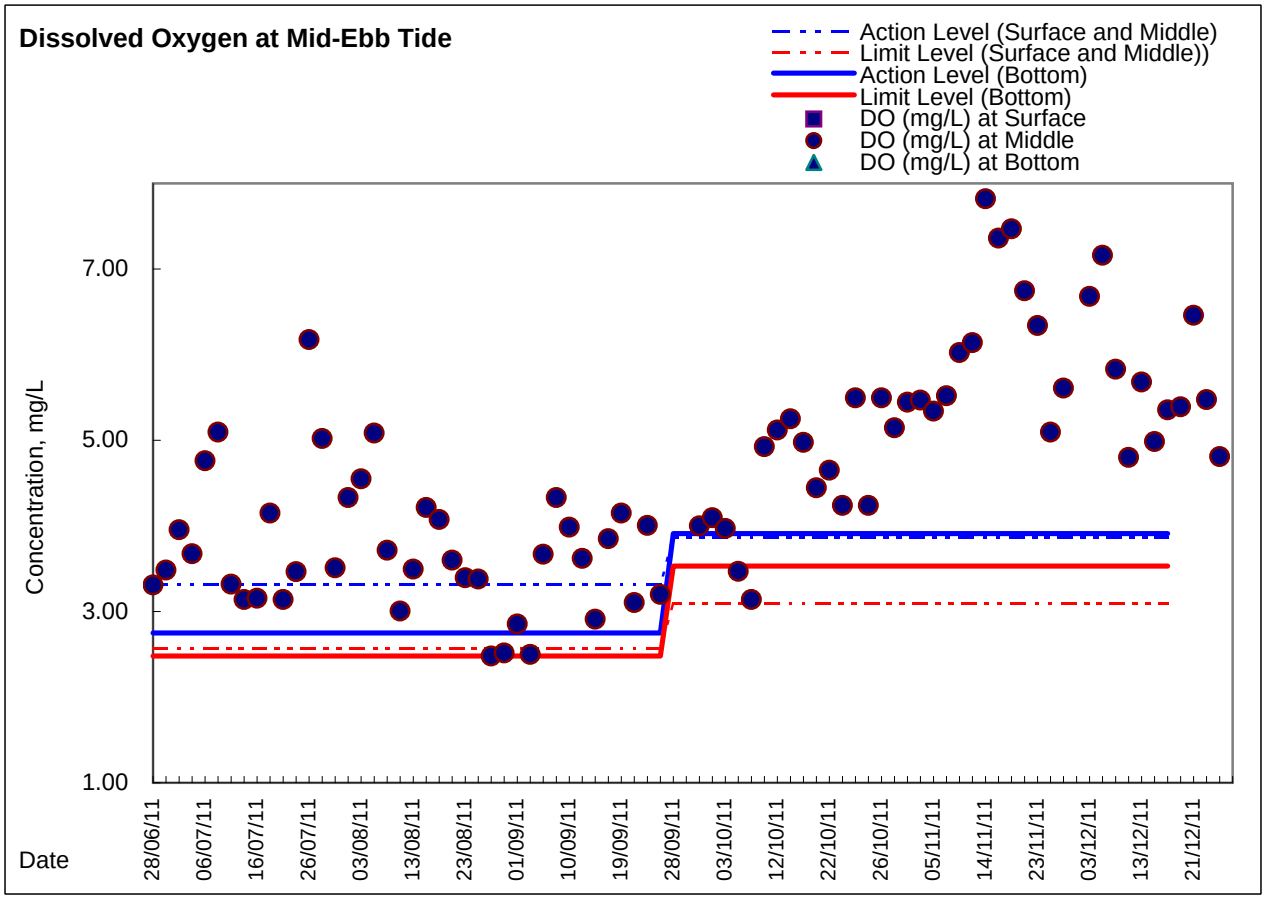
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



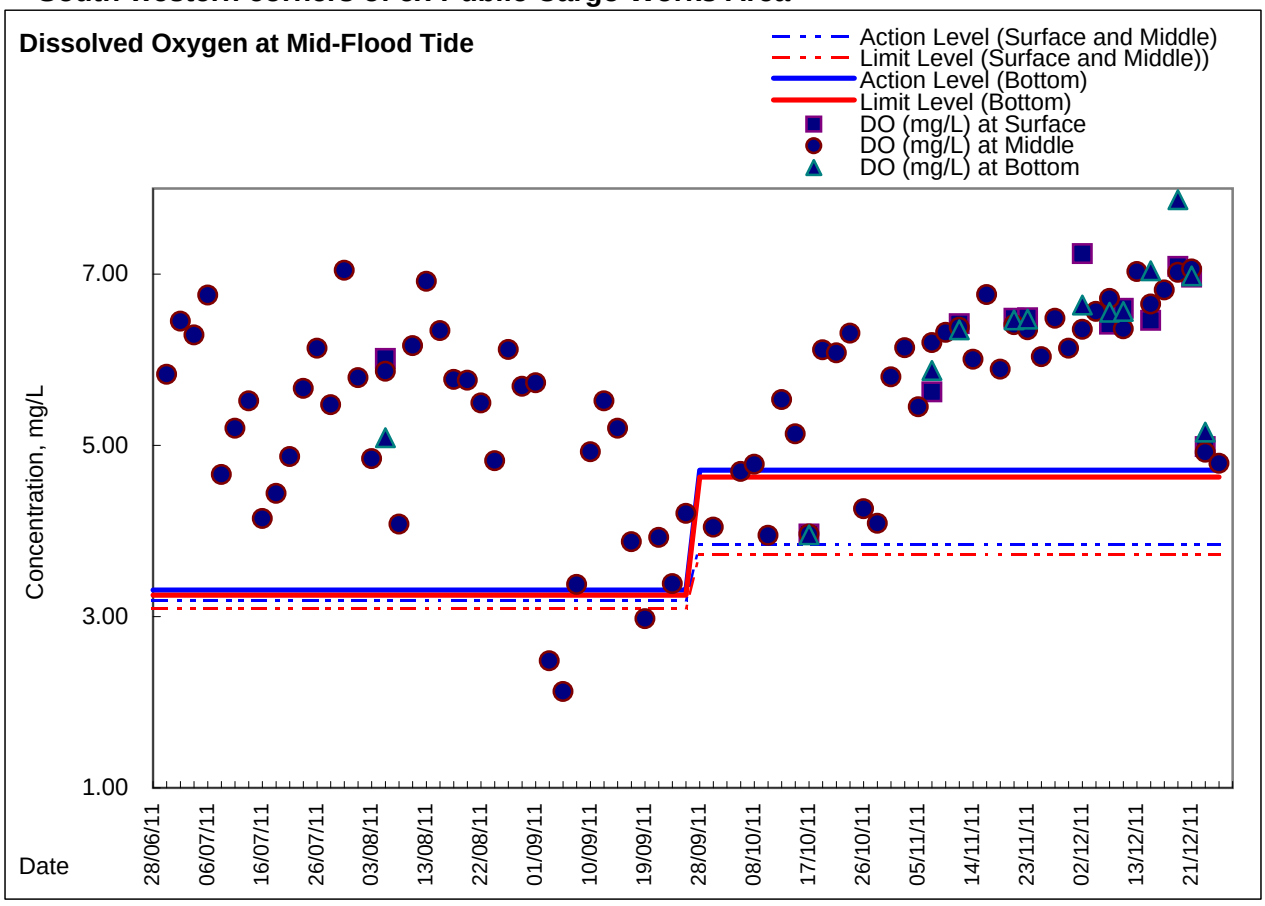


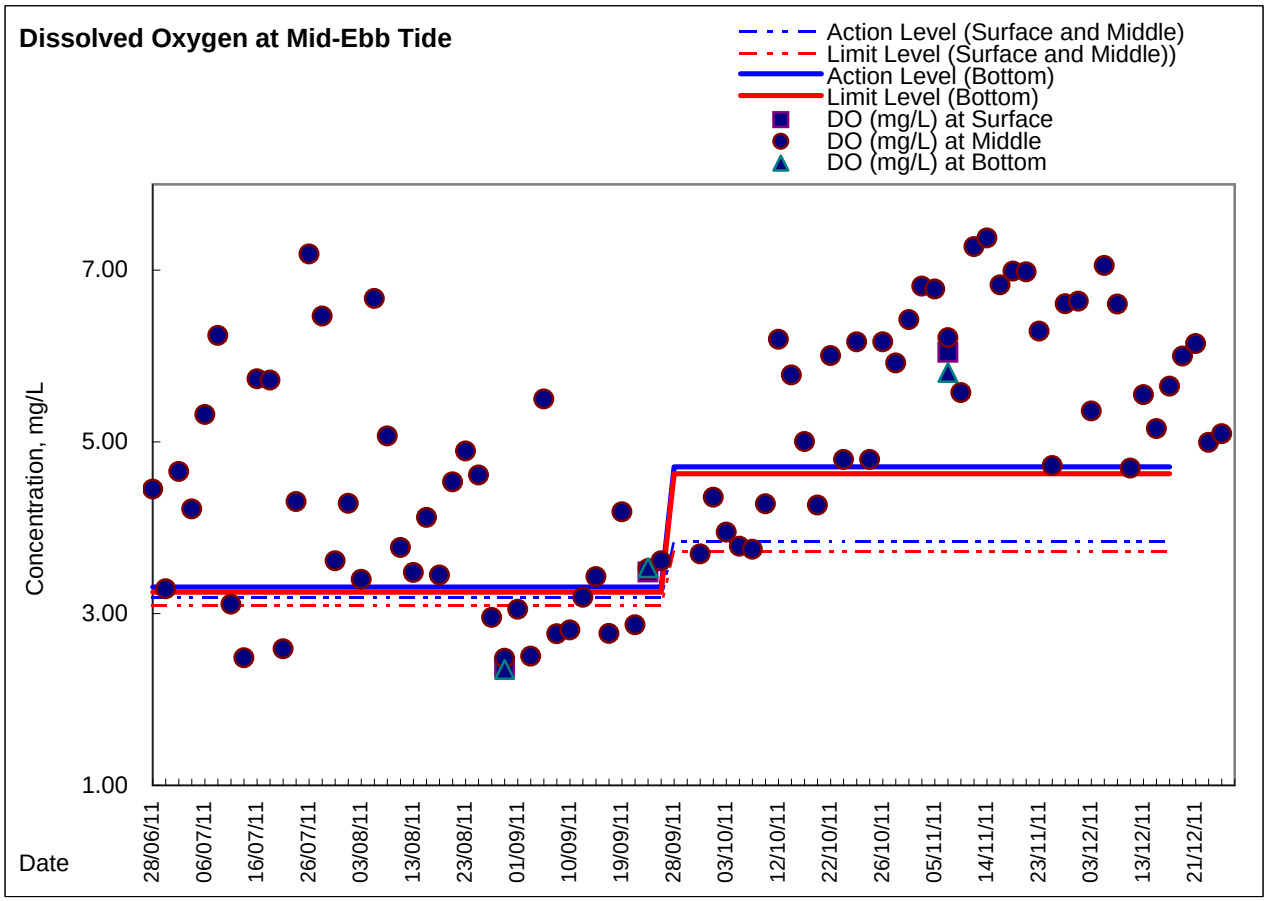
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



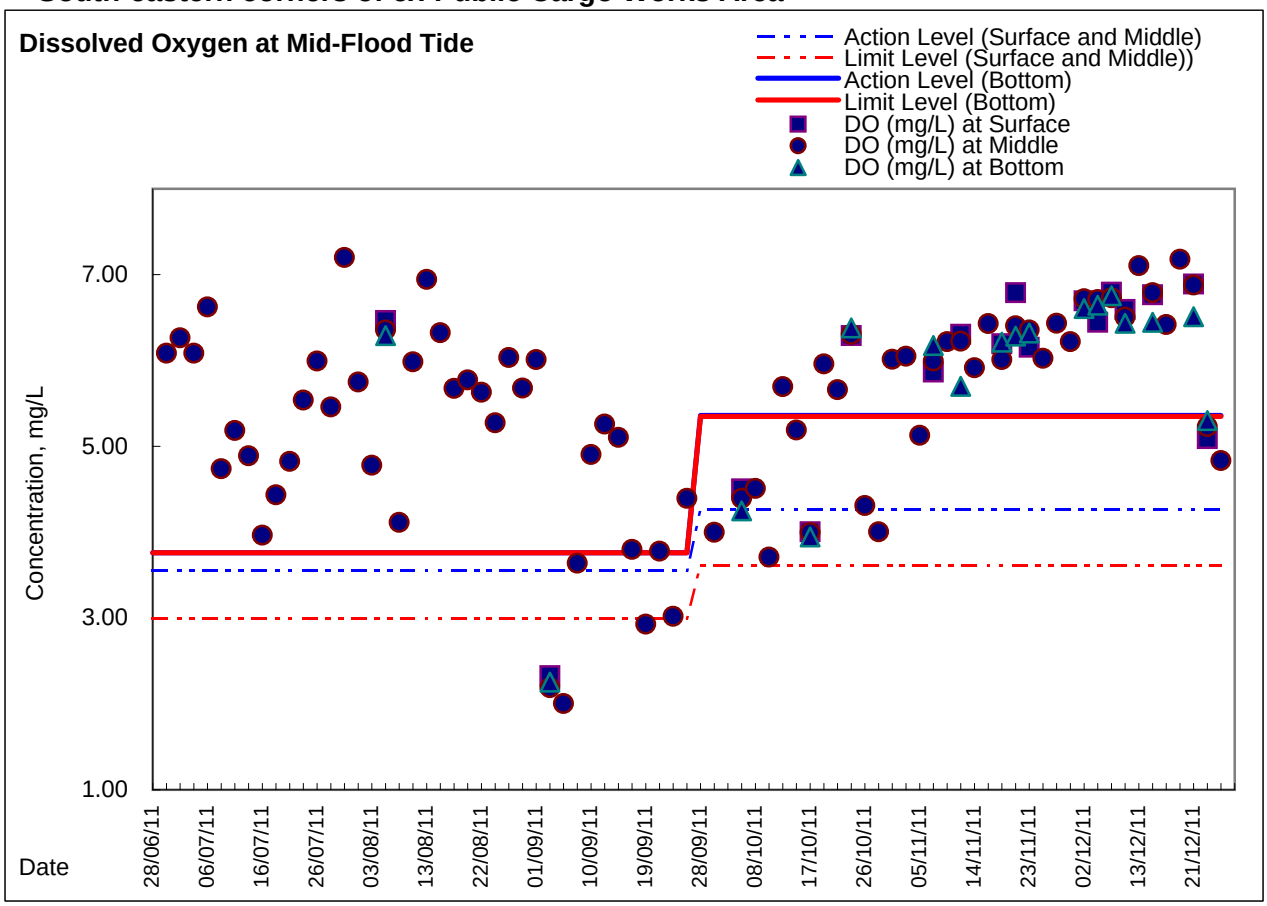


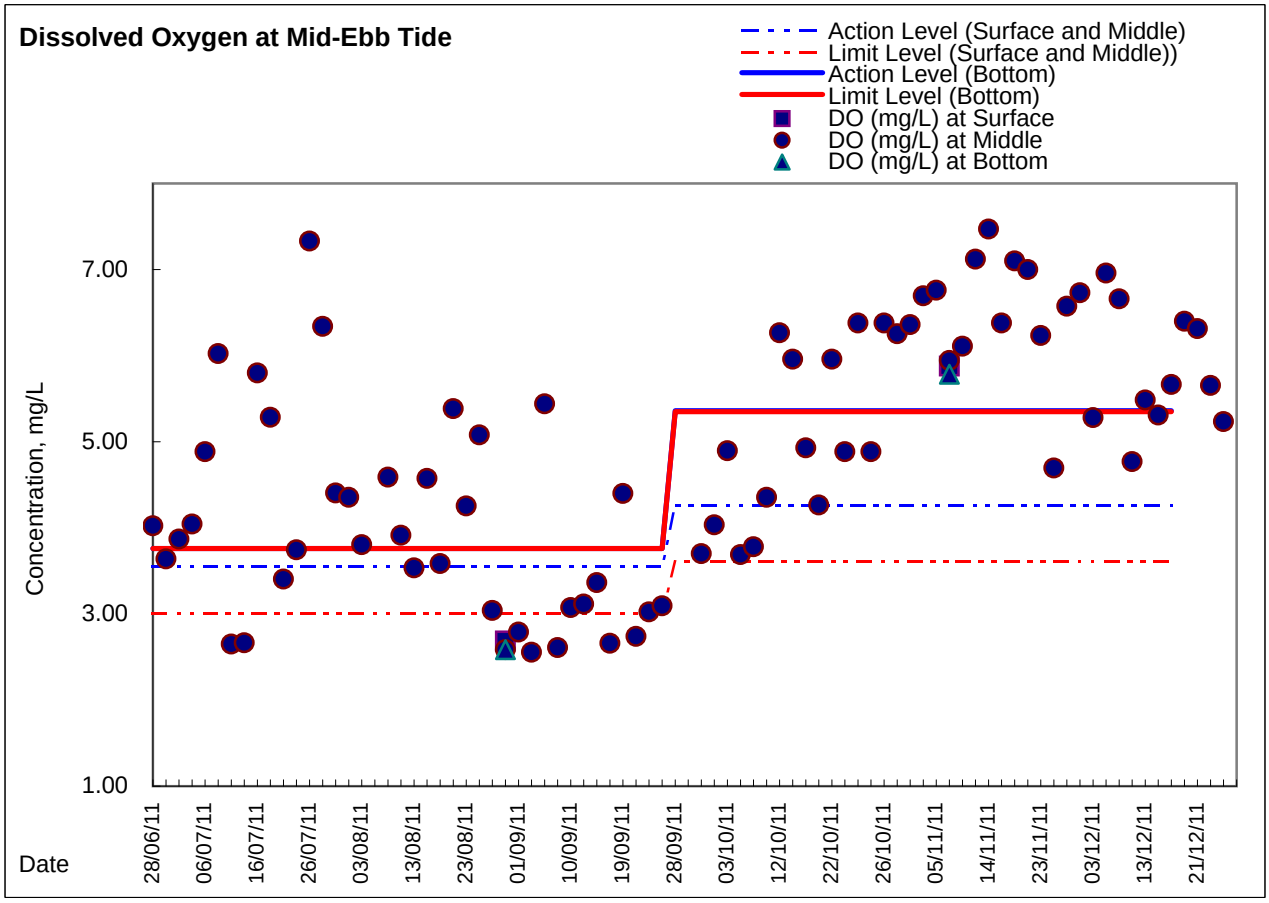
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





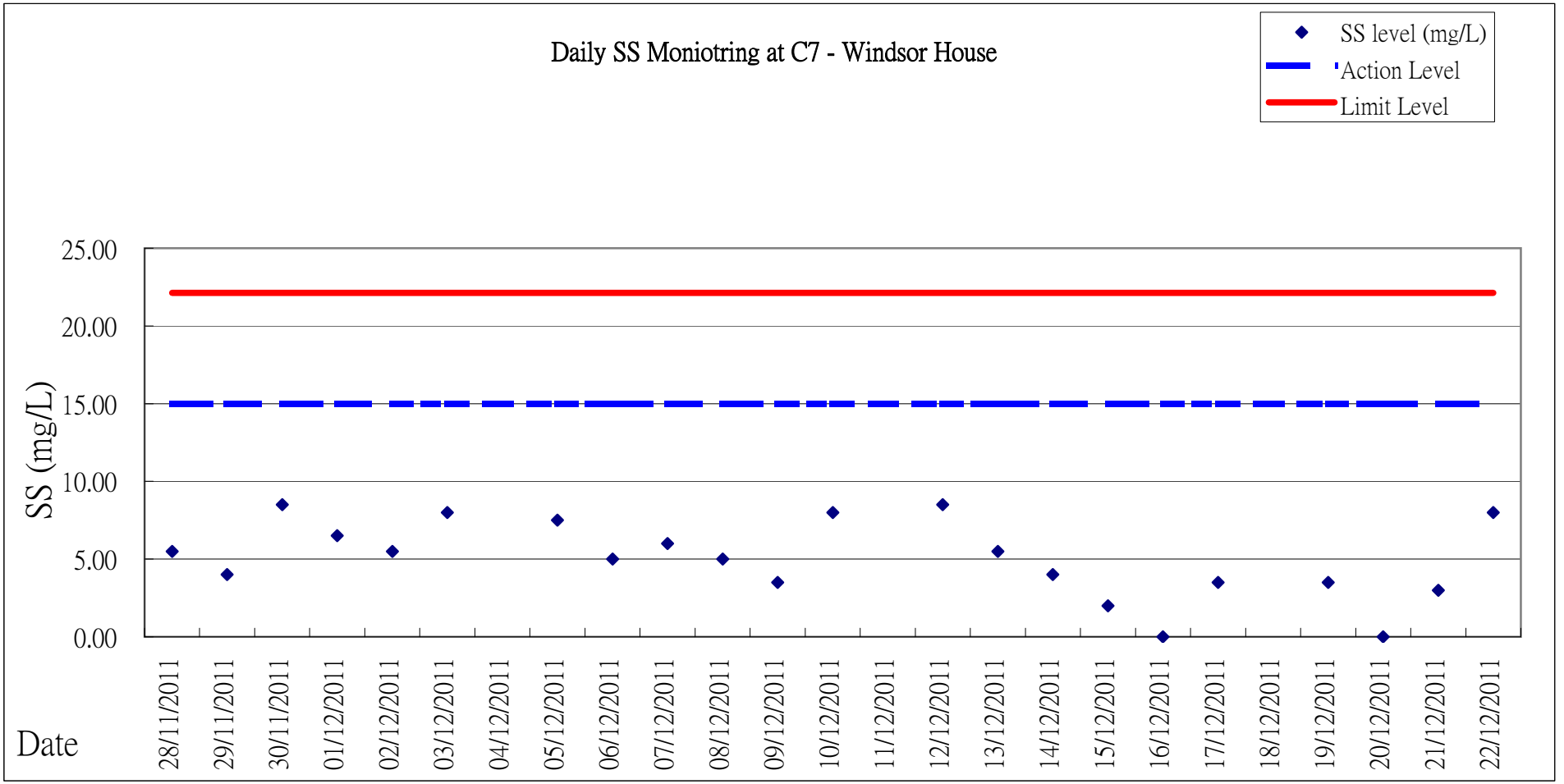
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area

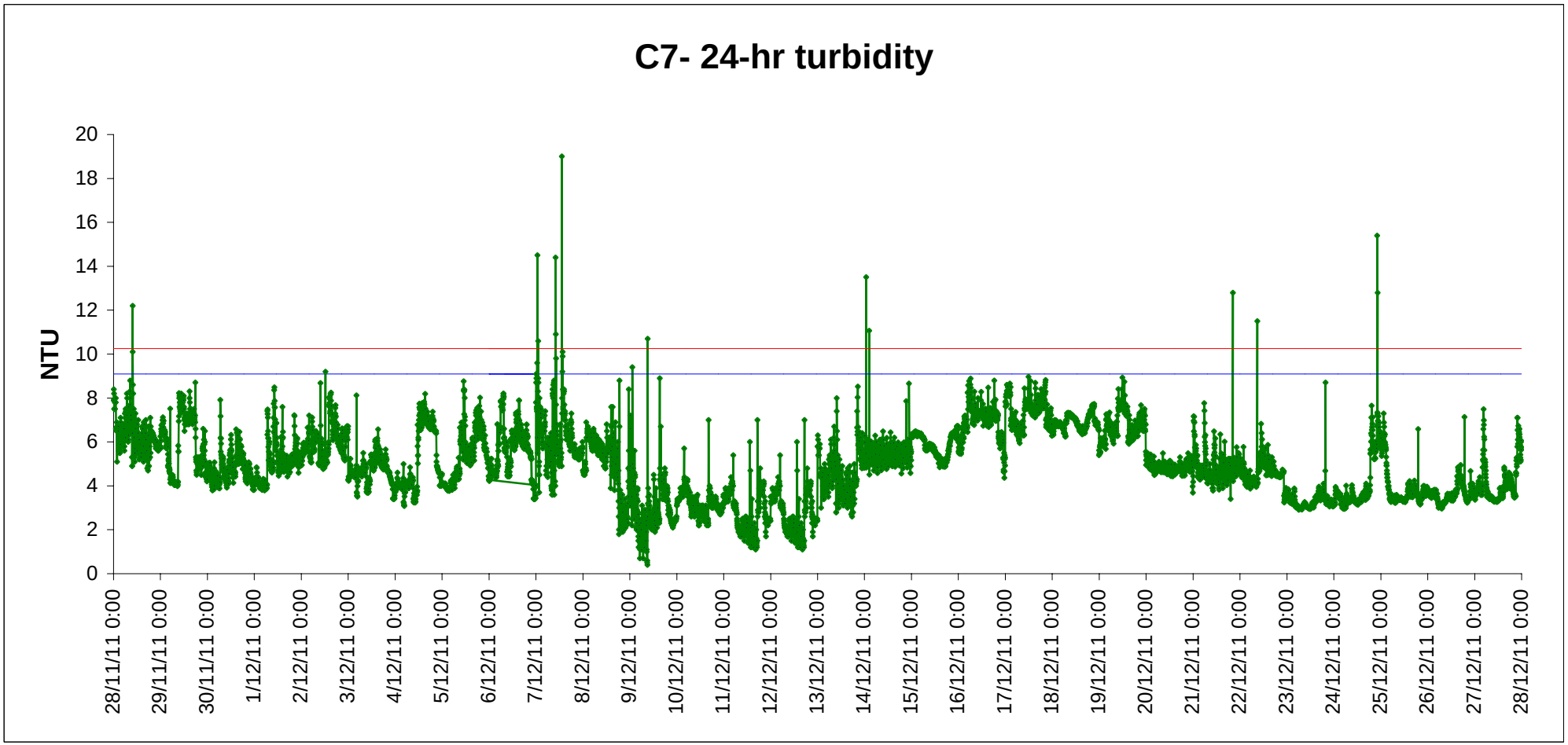




Daily SS Monitoring at C7 - Windsor House

Date	Time	Weater Condition	Suspended Solids mg/L	
			Value	Average
28/11/11	11:30	Fine	6	5.50
	11:30		5	
29/11/11	11:00	Fine	4	4.00
	11:00		4	
30/11/11	11:50	Fine	4	8.50
	11:50		13	
1/12/11	14:30	Fine	7	6.50
	14:30		6	
2/12/11	11:30	Fine	5	5.50
	11:30		6	
3/12/11	10:30	Fine	11	8.00
	10:30		5	
5/12/11	8:30	Fine	8	7.50
	8:30		7	
6/12/11	17:10	Fine	4	5.00
	17:10		6	
7/12/11	13:50	Fine	6	6.00
	13:50		6	
8/12/11	8:20	Fine	6	5.00
	8:20		4	
9/12/11	8:20	Cloudy	3	3.50
	8:20		4	
10/12/11	10:35	Fine	8	8.00
	10:35		8	
12/12/11	12:05	Fine	11	8.50
	12:05		6	
13/12/11	14:30	Sunny	5	5.50
	14:30		6	
14/12/11	10:30	Fine	4	4.00
	10:30		4	
15/12/11	11:30	Fine	2	2.00
	11:30		<2	
16/12/11	11:30	Fine	<2	<2
	11:30		<2	
17/12/11	12:45	Sunny	3	3.50
	12:45		4	
19/12/11	11:20	Sunny	3	3.50
	11:20		4	
20/12/11	8:00	Fine	<2	<2
	8:00		<2	
21/12/11	9:00	Fine	3	3.00
	9:00		3	
22/12/11	10:30	Fine	8	8.00
	10:30		8	


Daily SS Moniotring at C7 - Windsor House
SS level (mg/L)
Action Level
Limit Level
25.00
20.00
15.00
10.00
5.00
0.00
SS (mg/L)
Date
28/11/2011
29/11/2011
30/11/2011
01/12/2011
02/12/2011
03/12/2011
04/12/2011
05/12/2011
06/12/2011
07/12/2011
08/12/2011
09/12/2011
10/12/2011
11/12/2011
12/12/2011
13/12/2011
14/12/2011
15/12/2011
16/12/2011
17/12/2011
18/12/2011
19/12/2011
20/12/2011
21/12/2011
22/12/2011


C7- 24-hr turbidity
NTU
20
18
16
14
12
10
8
6
4
2
0
28/11/11 0:00
29/11/11 0:00
30/11/11 0:00
1/12/11 0:00
2/12/11 0:00
3/12/11 0:00
4/12/11 0:00
5/12/11 0:00
6/12/11 0:00
7/12/11 0:00
8/12/11 0:00
9/12/11 0:00
10/12/11 0:00
11/12/11 0:00
12/12/11 0:00
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16/12/11 0:00
17/12/11 0:00
18/12/11 0:00
19/12/11 0:00
20/12/11 0:00
21/12/11 0:00
22/12/11 0:00
23/12/11 0:00
24/12/11 0:00
25/12/11 0:00
26/12/11 0:00
27/12/11 0:00
28/12/11 0:00

Appendix 5.4a

Additional Dissolved Oxygen Monitoring Results

Water Monitoring Result at Station A
Mid-Flood Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	14:29	Fine	Surface	1.0	26.50	26.50	26.5	7.79	7.79	7.8	32.10	32.10	32.1	75.5	74.7	75.1	5.07	5.03	5.1
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:31		Bottom	4.0	26.20	26.20	26.2	7.78	7.78	7.8	32.30	32.30	32.3	82.4	81.4	81.9	5.54	5.49	5.5
9/11/2011	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:32		Middle	1.5	24.50	24.50	24.5	8.87	8.87	8.9	31.20	31.20	31.2	90.0	89.0	89.5	6.28	6.15	6.2
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/11/2011	11:50	Fine	Surface	1.0	24.80	24.80	24.8	8.03	8.03	8.0	32.30	32.30	32.3	90.4	90.4	90.4	6.18	6.18	6.2
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:52		Bottom	3.0	24.80	24.80	24.8	8.02	8.02	8.0	32.30	32.30	32.3	90.7	90.7	90.7	6.60	6.60	6.6
23/11/2011	15:15	Fine	Surface	1.0	23.80	23.80	23.8	7.92	7.92	7.9	31.00	31.00	31.0	87.5	87.0	87.3	6.10	6.05	6.1
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:17		Bottom	5.0	23.90	23.90	23.9	7.94	7.94	7.9	32.10	32.10	32.1	86.9	86.6	86.8	6.18	6.16	6.2

Water Monitoring Result at Station B
Mid-Flood Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	14:21	Fine	Surface	1.0	26.50	26.50	26.5	7.84	7.84	7.8	32.30	32.30	32.3	78.4	77.9	78.2	5.26	5.24	5.3
	14:23		Middle	7.0	26.20	26.20	26.2	7.84	7.84	7.8	32.40	32.40	32.4	81.3	80.1	80.7	5.47	5.42	5.4
	14:25		Bottom	13.0	26.00	26.00	26.0	7.83	7.83	7.8	32.40	32.40	32.4	80.4	79.7	80.1	5.42	5.38	5.4
9/11/2011	15:25	Cloudy	Surface	1.0	24.90	24.90	24.9	8.94	8.94	8.9	32.40	32.40	32.4	92.8	91.6	92.2	6.37	6.25	6.3
	15:27		Middle	5.0	25.20	25.20	25.2	8.92	8.92	8.9	32.30	32.30	32.3	91.9	91.0	91.5	6.27	6.20	6.2
	15:29		Bottom	9.0	25.20	25.20	25.2	8.92	8.92	8.9	32.40	32.40	32.4	90.7	89.9	90.3	6.20	6.10	6.2
16/1/2011	11:40	Fine	Surface	1.0	24.60	24.60	24.6	8.05	8.05	8.1	32.40	32.40	32.4	94.2	94.2	94.2	6.44	6.44	6.4
	11:42		Middle	3.5	24.60	24.60	24.6	8.02	8.02	8.0	32.40	32.40	32.4	89.2	89.2	89.2	6.36	6.36	6.4
	11:44		Bottom	6.0	24.30	24.30	24.3	8.03	8.03	8.0	32.50	32.50	32.5	95.4	95.4	95.4	6.33	6.33	6.3
23/11/2011	15:08	Fine	Surface	1.0	23.80	23.80	23.8	7.93	7.93	7.9	32.20	32.20	32.2	86.5	86.1	86.3	6.15	6.13	6.1
	15:10		Middle	6.0	23.50	23.70	23.6	7.95	7.95	8.0	32.30	32.30	32.3	92.2	91.9	92.1	6.47	6.44	6.5
	15:12		Bottom	11.0	23.30	23.30	23.3	7.96	7.96	8.0	32.30	32.30	32.3	91.6	91.1	91.4	6.59	6.57	6.6

Water Monitoring Result at Station C
Mid-Flood Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth m		Water Temperature °C			pH -			Salinity ppt			DO Saturation %			DO mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	14:10	Fine	Surface	1.0	26.50	26.50	26.5	7.91	7.91	7.9	32.30	32.30	32.3	86.2	84.6	85.4	5.76	5.70	5.7
	14:12		Middle	6.5	26.40	26.40	26.4	7.88	7.88	7.9	32.20	32.20	32.2	87.8	86.0	86.9	5.88	5.81	5.8
	14:14		Bottom	12.0	26.00	26.00	26.0	7.86	7.86	7.9	32.40	32.40	32.4	85.8	85.0	85.4	5.79	5.74	5.8
9/11/2011	15:07	Cloudy	Surface	1.0	24.50	24.50	24.5	9.10	9.10	9.1	32.10	32.10	32.1	92.9	91.6	92.3	6.42	6.30	6.4
	15:09		Middle	7.0	24.80	24.80	24.8	8.99	8.99	9.0	32.60	32.60	32.6	93.6	92.2	92.9	6.46	6.28	6.4
	15:11		Bottom	13.0	24.70	24.70	24.7	8.96	8.96	9.0	32.60	32.60	32.6	92.0	91.5	91.8	6.32	6.26	6.3
16/1/2011	11:30	Fine	Surface	1.0	24.30	24.30	24.3	8.07	8.07	8.1	32.30	32.30	32.3	91.0	91.0	91.0	5.93	5.93	5.9
	11:32		Middle	7.0	24.50	24.50	24.5	8.10	8.10	8.1	32.40	32.40	32.4	89.7	89.7	89.7	6.05	6.05	6.1
	11:34		Bottom	13.0	24.10	24.10	24.1	8.11	8.11	8.1	32.40	32.40	32.4	89.8	89.8	89.8	6.69	6.69	6.7
23/11/2011	14:58	Fine	Surface	1.0	23.30	23.30	23.3	7.95	7.95	8.0	32.10	32.10	32.1	89.2	88.7	89.0	6.22	6.18	6.2
	15:00		Middle	7.0	23.40	23.40	23.4	7.95	7.95	8.0	32.20	32.20	32.2	88.2	87.3	87.8	6.32	6.30	6.3
	15:02		Bottom	13.0	23.80	23.80	23.8	7.94	7.94	7.9	32.30	32.30	32.3	91.3	91.1	91.2	6.39	6.35	6.4

Water Monitoring Result at Station A
Mid-Ebb Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	23:05	Cloudy	Surface	1.0	26.00	26.00	26.0	7.85	7.85	7.9	31.20	31.20	31.2	97.2	97.2	97.2	6.61	6.61	6.6
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23:10		Bottom	3.0	25.90	25.90	25.9	7.79	7.79	7.8	32.40	32.40	32.4	98.3	99.1	98.7	6.66	6.71	6.7
9/11/2011	0:45	Cloudy	Surface	1.0	23.80	23.80	23.8	8.12	8.12	8.1	31.10	31.10	31.1	96.4	96.6	96.5	6.81	6.82	6.8
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:47		Bottom	3.0	24.00	24.00	24.0	8.16	8.16	8.2	32.30	32.30	32.3	97.0	96.9	97.0	6.78	6.77	6.8
16/11/2011	1:16	Misty	Surface	1.0	23.80	23.80	23.8	8.03	8.03	8.0	32.20	32.20	32.2	85.1	85.2	85.2	5.99	6.00	6.0
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1:18		Bottom	3.0	23.60	23.60	23.6	8.03	8.03	8.0	32.10	32.10	32.1	89.7	90.3	90.0	6.34	6.37	6.4
23/11/2011	11:18	Cloudy	Surface	1.0	23.70	23.70	23.7	7.92	7.92	7.9	31.40	31.40	31.4	91.6	90.4	91.0	6.69	6.64	6.7
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:20		Bottom	3.0	23.70	23.70	23.7	7.95	7.95	8.0	32.20	32.20	32.2	89.1	88.7	88.9	6.11	6.11	6.1

Water Monitoring Result at Station B
Mid-Ebb Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	22:55	Cloudy	Surface	1.0	25.90	25.90	25.9	7.61	7.61	7.6	32.60	32.60	32.6	122.4	122.4	122.4	8.28	8.28	8.3
	22:57		Middle	4.5	25.90	25.90	25.9	7.82	7.82	7.8	32.60	32.60	32.6	114.8	114.8	114.8	7.76	7.76	7.8
	22:59		Bottom	8.0	25.90	25.90	25.9	7.83	7.83	7.8	32.60	32.60	32.6	111.4	111.4	111.4	7.54	7.54	7.5
9/11/2011	0:39	Cloudy	Surface	1.0	23.60	23.60	23.6	8.18	8.18	8.2	32.60	32.60	32.6	101.9	102.0	102.0	7.18	7.19	7.2
	0:40		Middle	4.5	23.90	23.90	23.9	8.19	8.19	8.2	32.60	32.60	32.6	102.6	102.7	102.7	7.18	7.18	7.2
	0:41		Bottom	8.0	23.60	23.60	23.6	8.19	8.19	8.2	32.70	32.70	32.7	103.0	103.0	103.0	7.25	7.24	7.2
16/11/2011	1:09	Misty	Surface	1.0	23.60	23.60	23.6	8.09	8.09	8.1	32.70	32.70	32.7	106.8	106.3	106.6	7.50	7.47	7.5
	1:10		Middle	4.5	23.40	23.40	23.4	8.10	8.10	8.1	32.80	32.80	32.8	105.6	105.6	105.6	7.45	7.45	7.5
	1:11		Bottom	8.0	23.50	23.50	23.5	8.10	8.10	8.1	32.70	32.70	32.7	104.8	104.3	104.6	7.38	7.34	7.4
23/11/2011	11:13	Cloudy	Surface	1.0	23.50	23.50	23.5	7.96	7.96	8.0	32.30	32.30	32.3	89.2	89.0	89.1	6.22	6.19	6.2
	11:15		Middle	5.0	23.70	23.70	23.7	7.95	7.95	8.0	32.40	32.40	32.4	91.2	90.6	90.9	6.55	6.52	6.5
	11:17		Bottom	9.0	23.60	23.60	23.6	7.97	7.97	8.0	32.30	32.30	32.3	89.9	89.4	89.7	6.29	6.27	6.3

Water Monitoring Result at Station C
Mid-Ebb Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
5/11/2011	22:40	Cloudy	Surface	1.0	25.80	25.80	25.8	7.71	7.71	7.7	32.60	32.60	32.6	118.2	117.9	118.1	8.00	7.96	8.0
	22:42		Middle	6.5	25.90	25.90	25.9	7.65	7.65	7.7	32.60	32.60	32.6	116.1	116.7	116.4	7.90	7.93	7.9
	22:44		Bottom	12.0	25.80	25.80	25.8	7.95	7.95	8.0	32.60	32.60	32.6	112.5	112.5	112.5	7.62	7.62	7.6
9/11/2011	0:28	Cloudy	Surface	1.0	23.10	23.10	23.1	8.14	8.14	8.1	32.60	32.60	32.6	104.4	104.4	104.4	7.41	7.41	7.4
	0:30		Middle	6.5	23.40	23.40	23.4	8.13	8.13	8.1	32.50	32.50	32.5	102.8	102.6	102.7	7.26	7.25	7.3
	0:32		Bottom	12.0	23.10	23.10	23.1	8.13	8.13	8.1	32.60	32.60	32.6	102.9	102.6	102.8	7.29	7.28	7.3
16/11/2011	1:03	Misty	Surface	1.0	23.50	23.50	23.5	8.08	8.08	8.1	32.70	32.70	32.7	103.8	103.9	103.9	7.32	7.32	7.3
	1:04		Middle	6.5	23.40	23.40	23.4	8.09	8.09	8.1	32.70	32.70	32.7	107.5	107.0	107.3	7.58	7.55	7.6
	1:06		Bottom	12.0	23.20	23.20	23.2	8.09	8.09	8.1	32.80	32.80	32.8	105.1	105.1	105.1	7.44	7.44	7.4
23/11/2011	11:04	Cloudy	Surface	1.0	23.50	23.50	23.5	7.96	7.96	8.0	32.30	32.30	32.3	94.0	92.8	93.4	6.88	6.78	6.8
	11:06		Middle	7.0	23.40	23.40	23.4	7.97	7.97	8.0	32.30	32.30	32.3	91.1	90.7	90.9	6.40	6.38	6.4
	11:08		Bottom	13.0	23.50	23.50	23.5	7.96	7.96	8.0	32.50	32.50	32.5	93.8	93.8	93.8	6.74	6.72	6.7

Water Monitoring Result at Station A
Mid-Flood Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	11:48	Fine	Surface	1.0	23.90	23.90	23.9	7.86	7.86	7.9	31.60	31.60	31.60	88.7	86.8	87.8	6.30	6.16	6.23
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:50		Bottom	3.0	23.80	23.80	23.8	7.84	7.84	7.8	31.80	31.80	31.80	89.1	87.5	88.3	6.30	6.23	6.27
7/12/2011	15:21	Cloudy	Surface	1.0	22.10	22.10	22.1	7.94	7.94	7.9	31.00	31.00	31.00	89.5	89.2	89.4	6.40	6.33	6.37
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:23		Bottom	4.0	21.90	21.90	21.9	7.93	7.93	7.9	31.50	31.50	31.50	91.0	90.8	90.9	6.76	6.71	6.74
13/12/2011	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09:35		Middle	1.5	19.90	19.90	19.9	7.96	7.96	8.0	31.60	31.60	31.60	88.30	88.10	88.2	6.80	6.78	6.79
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/12/2011	15:03	Cloudy	Surface	1.0	19.30	19.30	19.3	7.96	7.96	8.0	31.20	31.20	31.20	92.4	92.0	92.2	7.05	7.01	7.03
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Bottom	3.0	19.40	19.40	19.4	7.96	7.96	8.0	31.50	31.50	31.50	90.1	88.9	89.5	6.88	6.84	6.86

Water Monitoring Result at Station B
Mid-Flood Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	11:39	Fine	Surface	1.0	23.80	23.80	23.80	7.88	7.88	7.88	31.90	31.90	31.90	86.0	84.8	85.4	6.06	6.00	6.03
	11:40		Middle	5.0	23.60	23.60	23.60	7.87	7.87	7.87	31.90	31.90	31.90	89.5	88.3	88.9	6.82	6.27	6.55
	11:41		Bottom	9.0	23.50	23.50	23.50	7.88	7.88	7.88	32.00	32.00	32.00	91.2	90.3	90.8	6.48	6.40	6.44
7/12/2011	15:14	Cloudy	Surface	1.0	21.90	21.90	21.90	7.95	7.95	7.95	31.70	31.70	31.70	91.1	91.1	91.1	6.67	6.65	6.66
	15:16		Middle	6.0	21.70	21.70	21.70	7.95	7.95	7.95	31.80	31.80	31.80	91.1	90.3	90.7	6.51	6.48	6.50
	15:18		Bottom	11.0	21.80	21.80	21.80	7.96	7.96	7.96	31.70	31.70	31.70	89.0	88.4	88.7	6.58	6.54	6.56
13/12/2011	09:32	Fine	Surface	1.0	19.70	19.70	19.70	7.98	7.98	7.98	32.20	32.20	32.20	95.1	95.0	95.1	7.20	7.18	7.19
	09:30		Middle	4.0	19.80	19.80	19.80	7.97	7.97	7.97	31.80	31.80	31.80	90.4	90.2	90.3	6.99	6.97	6.98
	09:28		Bottom	7.0	19.70	19.70	19.70	7.97	7.97	7.97	31.90	31.90	31.90	91.2	91.4	91.3	6.87	6.85	6.86
21/12/2011	15:59	Cloudy	Surface	1.0	19.30	19.30	19.30	7.97	7.97	7.97	31.40	31.40	31.40	93.8	93.6	93.7	7.11	7.07	7.09
	15:58		Middle	5.5	19.30	19.30	19.30	7.97	7.97	7.97	31.50	31.50	31.50	91.3	91.2	91.3	7.05	7.03	7.04
	15:57		Bottom	10.0	19.30	19.30	19.30	7.97	7.97	7.97	31.60	31.60	31.60	90.5	90.3	90.4	6.92	6.88	6.90

Water Monitoring Result at Station C
Mid-Flood Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	11:31	Fine	Surface	1.0	24.00	24.00	24.00	7.86	7.86	7.86	32.00	32.00	32.00	82.9	82.4	82.7	5.85	5.78	5.82
	11:32		Middle	6.5	23.40	23.40	23.40	7.87	7.87	7.87	32.00	32.00	32.00	88.5	85.8	87.2	6.30	6.12	6.21
	11:33		Bottom	12.0	23.10	23.10	23.10	7.88	7.88	7.88	32.00	32.00	32.00	90.1	88.7	89.4	6.38	6.32	6.35
7/12/2011	15:07	Cloudy	Surface	1.0	21.90	21.90	21.90	7.88	7.88	7.88	31.50	31.50	31.50	87.8	87.3	87.6	6.32	6.28	6.30
	15:09		Middle	7.0	21.70	21.70	21.70	7.93	7.93	7.93	31.80	31.80	31.80	91.1	90.6	90.9	6.75	6.72	6.74
	15:11		Bottom	13.0	21.70	21.70	21.70	7.95	7.95	7.95	31.80	31.80	31.80	88.4	88.0	88.2	6.39	6.36	6.38
13/12/2011	09:24	Fine	Surface	1.0	19.80	19.80	19.80	7.95	7.95	7.95	31.70	31.70	31.70	90.9	90.8	90.9	7.02	7.00	7.01
	09:22		Middle	7.5	19.50	19.50	19.50	7.94	7.94	7.94	31.70	31.70	31.70	90.8	90.7	90.8	6.88	6.86	6.87
	09:20		Bottom	12.0	19.60	19.60	19.60	7.94	7.94	7.94	31.90	31.90	31.90	90.5	90.4	90.5	6.82	6.80	6.81
21/12/2011	14:57	Cloudy	Surface	1.0	19.40	19.40	19.40	7.87	7.87	7.87	31.50	31.50	31.50	87.6	87.5	87.6	6.75	6.74	6.75
	14:55		Middle	7.0	19.30	19.30	19.30	7.97	7.97	7.97	31.60	31.60	31.60	86.7	86.5	86.6	6.74	6.73	6.74
	14:53		Bottom	13.0	19.30	19.30	19.30	7.95	7.95	7.95	31.40	31.40	31.40	90.7	90.4	90.6	7.01	6.98	7.00

Water Monitoring Result at Station A
Mid-Ebb Tide

Location: Station A

Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	04:33	Cloudy	Surface	1.0	22.61	22.61	22.61	7.82	7.82	7.82	31.62	31.62	31.62	94.3	94.2	94.25	6.78	6.78	6.78
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	04:35		Bottom	3.0	22.51	22.51	22.51	7.81	7.81	7.81	30.51	30.51	30.51	92.1	91.4	91.75	6.69	6.63	6.66
7/12/2011	22:42	Cloudy	Surface	1.0	21.80	21.80	21.80	7.88	7.88	7.88	31.20	31.20	31.20	86.4	86.0	86.20	6.44	6.44	6.44
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22:40		Bottom	4.0	21.90	21.90	21.90	7.75	7.75	7.75	28.70	28.70	28.70	80.2	79.7	79.95	5.82	5.73	5.78
13/12/2011	01:36	Fine	Surface	1.0	19.50	19.50	19.50	7.97	7.97	7.97	31.70	31.70	31.70	93.0	92.5	92.75	7.20	7.18	7.19
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	01:34		Bottom	3.0	19.50	19.50	19.50	7.98	7.98	7.98	31.70	31.70	31.70	90.7	90.3	90.50	6.84	6.82	6.83
21/12/2011	20:42	Fine	Surface	1.0	19.20	19.20	19.20	7.95	7.95	7.95	30.60	30.70	30.65	91.3	91.0	91.2	7.06	7.00	7.03
	-		Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20:40		Bottom	3.0	19.20	19.20	19.20	7.98	7.98	7.98	31.40	31.40	31.40	81.6	81.6	81.6	6.50	6.50	6.50

Water Monitoring Result at Station B
Mid-Ebb Tide

Location: Station B

Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	04:25	Cloudy	Surface	1.0	22.60	22.60	22.60	7.84	7.84	7.84	32.26	32.26	32.26	94.9	95.0	95.0	6.81	6.81	6.81
	04:26		Middle	4.5	22.66	22.66	22.66	7.84	7.84	7.84	32.31	32.31	32.31	92.7	92.7	92.7	6.54	6.54	6.54
	04:27		Bottom	8.0	22.64	22.64	22.64	7.81	7.81	7.81	32.28	32.28	32.28	94.5	94.2	94.4	6.77	6.72	6.75
7/12/2011	22:27	Cloudy	Surface	1.0	21.60	21.60	21.60	7.92	7.92	7.92	31.20	31.20	31.20	90.2	89.5	89.9	6.72	6.70	6.71
	22:25		Middle	5.5	21.70	21.70	21.70	7.93	7.93	7.93	31.60	31.60	31.60	89.3	89.0	89.2	6.48	6.46	6.47
	22:23		Bottom	10.0	21.70	21.70	21.70	7.94	7.94	7.94	31.60	31.60	31.60	87.1	86.8	87.0	6.53	6.50	6.52
13/12/2011	01:26	Fine	Surface	1.0	19.50	19.50	19.50	7.99	7.99	7.99	32.00	32.00	32.00	91.6	91.3	91.5	7.14	7.09	7.12
	01:23		Middle	3.0	19.30	19.30	19.30	8.01	8.01	8.01	32.00	32.00	32.00	93.7	93.5	93.6	7.14	7.13	7.14
	01:20		Bottom	5.0	19.40	19.40	19.40	8.01	8.01	8.01	32.00	32.00	32.00	93.9	93.7	93.8	7.30	7.23	7.27
21/12/2011	20:36	Fine	Surface	1.0	19.20	19.20	19.20	7.99	7.99	7.99	31.50	31.50	31.50	91.9	91.9	91.9	7.13	7.13	7.13
	20:34		Middle	5.5	19.20	19.20	19.20	8.00	8.00	8.00	31.60	31.60	31.60	91.3	91.0	91.2	7.04	7.00	7.02
	20:32		Bottom	10.0	19.10	19.10	19.10	8.01	8.01	8.01	31.60	31.60	31.60	89.5	89.2	89.4	6.91	6.87	6.89

Water Monitoring Result at Station C
Mid-Ebb Tide

Location: Station C

Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		°C			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/11/2011	04:19	Cloudy	Surface	1.0	22.78	22.78	22.78	7.79	7.79	7.79	32.35	32.35	32.35	92.7	93.0	92.9	6.63	6.64	6.64
	04:20		Middle	6.5	22.66	22.66	22.66	7.80	7.80	7.80	32.36	32.36	32.36	95.0	94.9	95.0	6.80	6.80	6.80
	04:21		Bottom	12.0	22.74	22.74	22.74	7.79	7.79	7.79	32.36	32.36	32.36	94.9	94.8	94.9	6.78	6.77	6.78
7/12/2011	22:21	Cloudy	Surface	1.0	21.50	21.50	21.50	7.95	7.95	7.95	31.80	31.80	31.80	90.6	90.3	90.5	6.60	6.55	6.58
	22:19		Middle	7.5	21.40	21.40	21.40	7.95	7.95	7.95	31.90	31.90	31.90	91.7	91.3	91.5	6.80	6.78	6.79
	22:17		Bottom	14.0	21.40	21.40	21.40	7.95	7.95	7.95	31.90	31.90	31.90	92.0	91.6	91.8	6.73	6.72	6.73
13/12/2011	01:15	Fine	Surface	1.0	19.40	19.40	19.40	7.96	7.96	7.96	32.20	32.20	32.20	95.8	95.2	95.5	7.27	7.25	7.26
	01:13		Middle	7.0	19.20	19.20	19.20	7.96	7.96	7.96	32.20	32.20	32.20	94.8	94.5	94.7	7.39	7.35	7.37
	01:11		Bottom	13.0	18.80	18.80	18.80	7.98	7.98	7.98	32.00	32.00	32.00	94.2	93.5	93.9	7.19	7.17	7.18
21/12/2011	20:25	Fine	Surface	1.0	19.10	19.10	19.10	7.99	7.99	7.99	31.60	31.60	31.60	91.5	91.4	91.5	7.08	7.06	7.07
	20:23		Middle	7.0	19.10	19.10	19.10	8.00	8.00	8.00	31.60	31.60	31.60	92.5	91.6	92.1	7.16	7.11	7.14
	20:21		Bottom	13.0	19.00	19.00	19.00	7.95	7.95	7.95	31.60	31.60	31.60	91.9	91.6	91.8	7.13	7.11	7.12

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

28/11/2011 7:01	64.9	2/12/2011 13:31	71.4	8/12/2011 8:31	67.4	13/12/2011 15:31	66.5	19/12/2011 10:31	69.1	23/12/2011 17:31	67.0
28/11/2011 7:31	65.4	2/12/2011 14:01	63.5	8/12/2011 9:01	67.8	13/12/2011 16:01	67.3	19/12/2011 11:01	69.4	23/12/2011 18:01	66.4
28/11/2011 8:01	66.5	2/12/2011 14:31	72.1	8/12/2011 9:31	68.1	13/12/2011 16:31	66.6	19/12/2011 11:31	67.4	23/12/2011 18:31	65.5
28/11/2011 8:31	67.7	2/12/2011 15:01	70.6	8/12/2011 10:01	68.9	13/12/2011 17:01	66.6	19/12/2011 12:01	66.0	24/12/2011 7:01	65.4
28/11/2011 9:01	68.7	2/12/2011 15:31	67.4	8/12/2011 10:31	69.4	13/12/2011 17:31	65.7	19/12/2011 12:31	65.7	24/12/2011 7:31	66.7
28/11/2011 9:31	68.4	2/12/2011 16:01	71.9	8/12/2011 11:01	69.7	13/12/2011 18:01	65.3	19/12/2011 13:01	67.3	24/12/2011 8:01	67.5
28/11/2011 10:01	68.6	2/12/2011 16:31	58.3	8/12/2011 11:31	67.3	13/12/2011 18:31	64.0	19/12/2011 13:31	68.4	24/12/2011 8:31	68.2
28/11/2011 10:31	69.4	2/12/2011 17:01	72.8	8/12/2011 12:01	65.9	14/12/2011 7:01	65.1	19/12/2011 14:01	69.5	24/12/2011 9:01	68.2
28/11/2011 11:01	70.2	2/12/2011 17:31	66.8	8/12/2011 12:31	66.5	14/12/2011 7:31	66.1	19/12/2011 14:31	67.6	24/12/2011 9:31	68.7
28/11/2011 11:31	67.9	2/12/2011 18:01	65.3	8/12/2011 13:01	68.5	14/12/2011 8:01	65.2	19/12/2011 15:01	67.6	24/12/2011 10:01	68.8
28/11/2011 12:01	65.6	2/12/2011 18:31	64.5	8/12/2011 13:31	69.2	14/12/2011 8:31	66.7	19/12/2011 15:31	66.3	24/12/2011 10:31	68.4
28/11/2011 12:31	66.0	3/12/2011 7:01	64.4	8/12/2011 14:01	68.4	14/12/2011 9:01	68.6	19/12/2011 16:01	70.0	24/12/2011 11:01	67.7
28/11/2011 13:01	68.3	3/12/2011 7:31	66.5	8/12/2011 14:31	69.2	14/12/2011 9:31	68.5	19/12/2011 16:31	68.6	24/12/2011 11:31	66.5
28/11/2011 13:31	68.6	3/12/2011 8:01	71.2	8/12/2011 15:01	68.5	14/12/2011 10:01	67.5	19/12/2011 17:01	67.6	24/12/2011 12:01	65.0
28/11/2011 14:01	68.2	3/12/2011 8:31	73.1	8/12/2011 15:31	66.6	14/12/2011 10:31	68.1	19/12/2011 17:31	65.7	24/12/2011 12:31	64.3
28/11/2011 14:31	68.7	3/12/2011 9:01	73.3	8/12/2011 16:01	68.8	14/12/2011 11:01	67.9	19/12/2011 18:01	64.3	24/12/2011 13:01	67.3
28/11/2011 15:01	68.7	3/12/2011 9:31	72.9	8/12/2011 16:31	68.2	14/12/2011 11:31	67.2	19/12/2011 18:31	63.3	24/12/2011 13:31	68.6
28/11/2011 15:31	66.9	3/12/2011 10:01	69.7	8/12/2011 17:01	68.9	14/12/2011 12:01	66.0	20/12/2011 7:01	65.5	24/12/2011 14:01	68.5
28/11/2011 16:01	67.2	3/12/2011 10:31	68.8	8/12/2011 17:31	66.8	14/12/2011 12:31	64.2	20/12/2011 7:31	67.0	24/12/2011 14:31	68.3
28/11/2011 16:31	69.7	3/12/2011 11:01	69.0	8/12/2011 18:01	67.2	14/12/2011 13:01	68.5	20/12/2011 8:01	66.3	24/12/2011 15:01	67.8
28/11/2011 17:01	71.5	3/12/2011 11:31	72.7	8/12/2011 18:31	66.9	14/12/2011 13:31	68.1	20/12/2011 8:31	67.0	24/12/2011 15:31	67.1
28/11/2011 17:31	66.6	3/12/2011 12:01	71.1	9/12/2011 7:01	66.1	14/12/2011 14:01	68.1	20/12/2011 9:01	68.7	24/12/2011 16:01	66.5
28/11/2011 18:01	65.7	3/12/2011 12:31	71.6	9/12/2011 7:31	67.1	14/12/2011 14:31	67.0	20/12/2011 9:31	68.3	24/12/2011 16:31	66.9
28/11/2011 18:31	64.6	3/12/2011 13:01	72.1	9/12/2011 8:01	67.5	14/12/2011 15:01	68.2	20/12/2011 10:01	68.6	24/12/2011 17:01	67.3
29/11/2011 7:01	65.0	3/12/2011 13:31	73.0	9/12/2011 8:31	68.3	14/12/2011 15:31	69.2	20/12/2011 10:31	67.9	24/12/2011 17:31	65.3
29/11/2011 7:31	67.2	3/12/2011 14:01	72.4	9/12/2011 9:01	68.8	14/12/2011 16:01	68.3	20/12/2011 11:01	68.3	24/12/2011 18:01	65.6
29/11/2011 8:01	67.2	3/12/2011 14:31	72.0	9/12/2011 9:31	69.7	14/12/2011 16:31	68.6	20/12/2011 11:31	66.4	24/12/2011 18:31	65.8
29/11/2011 8:31	66.2	3/12/2011 15:01	67.2	9/12/2011 10:01	68.8	14/12/2011 17:01	67.1	20/12/2011 12:01	64.4		
29/11/2011 9:01	67.4	3/12/2011 15:31	66.9	9/12/2011 10:31	69.4	14/12/2011 17:31	64.7	20/12/2011 12:31	65.4	Normal Day 19:00-23:00,	
29/11/2011 9:31	66.8	3/12/2011 16:01	69.0	9/12/2011 11:01	68.9	14/12/2011 18:01	64.8	20/12/2011 13:01	68.0	Sunday & Holiday 07:00-23:00	
29/11/2011 10:01	67.4	3/12/2011 16:31	68.8	9/12/2011 11:31	65.8	14/12/2011 18:31	65.1	20/12/2011 13:31	69.5	28/11/2011 19:01	64.5
29/11/2011 10:31	71.1	3/12/2011 17:01	67.6	9/12/2011 12:01	65.0	15/12/2011 7:01	65.3	20/12/2011 14:01	68.0	28/11/2011 19:06	64.3
29/11/2011 11:01	71.4	3/12/2011 17:31	65.0	9/12/2011 12:31	65.1	15/12/2011 7:31	65.9	20/12/2011 14:31	67.5	28/11/2011 19:11	64.2
29/11/2011 11:31	69.2	3/12/2011 18:01	64.0	9/12/2011 13:01	68.4	15/12/2011 8:01	65.5	20/12/2011 15:01	68.6	28/11/2011 19:16	64.4
29/11/2011 12:01	66.1	3/12/2011 18:31	63.9	9/12/2011 13:31	68.8	15/12/2011 8:31	67.6	20/12/2011 15:31	66.7	28/11/2011 19:21	64.1
29/11/2011 12:31	65.8	5/12/2011 7:01	65.3	9/12/2011 14:01	68.2	15/12/2011 9:01	68.2	20/12/2011 16:01	69.0	28/11/2011 19:26	63.6
29/11/2011 13:01	70.3	5/12/2011 7:31	65.5	9/12/2011 14:31	67.9	15/12/2011 9:31	67.7	20/12/2011 16:31	69.2	28/11/2011 19:31	64.5
29/11/2011 13:31	70.8	5/12/2011 8:01	67.1	9/12/2011 15:01	70.3	15/12/2011 10:01	68.7	20/12/2011 17:01	68.4	28/11/2011 19:36	65.5
29/11/2011 14:01	71.2	5/12/2011 8:31	67.7	9/12/2011 15:31	69.1	15/12/2011 10:31	68.4	20/12/2011 17:31	66.4	28/11/2011 19:41	65.4
29/11/2011 14:31	70.6	5/12/2011 9:01	68.8	9/12/2011 16:01	68.6	15/12/2011 11:01	69.0	20/12/2011 18:01	65.6	28/11/2011 19:46	65.3
29/11/2011 15:01	69.8	5/12/2011 9:31	69.2	9/12/2011 16:31	69.1	15/12/2011 11:31	68.0	20/12/2011 18:31	64.7	28/11/2011 19:51	65.1
29/11/2011 15:31	67.6	5/12/2011 10:01	67.1	9/12/2011 17:01	68.4	15/12/2011 12:01	64.8	21/12/2011 7:01	66.2	28/11/2011 19:56	64.9
29/11/2011 16:01	71.4	5/12/2011 10:31	69.1	9/12/2011 17:31	66.0	15/12/2011 12:31	64.8	21/12/2011 7:31	67.2	28/11/2011 20:01	65.6
29/11/2011 16:31	71.5	5/12/2011 11:01	68.3	9/12/2011 18:01	65.6	15/12/2011 13:01	67.3	21/12/2011 8:01	68.7	28/11/2011 20:06	65.0
29/11/2011 17:01	71.1	5/12/2011 11:31	67.3	9/12/2011 18:31	64.6	15/12/2011 13:31	72.2	21/12/2011 8:31	68.9	28/11/2011 20:11	65.5
29/11/2011 17:31	67.3	5/12/2011 12:01	65.2	10/12/2011 7:01	65.6	15/12/2011 14:01	69.1	21/12/2011 9:01	68.9	28/11/2011 20:16	65.3
29/11/2011 18:01	65.9	5/12/2011 12:31	65.4	10/12/2011 7:31	67.1	15/12/2011 14:31	68.7	21/12/2011 9:31	68.7	28/11/2011 20:21	65.2
29/11/2011 18:31	64.9	5/12/2011 13:01	69.0	10/12/2011 8:01	69.0	15/12/2011 15:01	71.5	21/12/2011 10:01	67.6	28/11/2011 20:26	65.3
30/11/2011 7:01	65.3	5/12/2011 13:31	68.6	10/12/2011 8:31	69.6	15/12/2011 15:31	67.9	21/12/2011 10:31	68.0	28/11/2011 20:31	65.5
30/11/2011 7:31	66.1	5/12/2011 14:01	67.6	10/12/2011 9:01	69.7	15/12/2011 16:01	69.7	21/12/2011 11:01	71.0	28/11/2011 20:36	65.5
30/11/2011 8:01	68.0	5/12/2011 14:31	68.7	10/12/2011 9:31	69.6	15/12/2011 16:31	72.0	21/12/2011 11:31	70.2	28/11/2011 20:41	65.1
30/11/2011 8:31	70.9	5/12/2011 15:01	68.1	10/12/2011 10:01	69.4	15/12/2011 17:01	71.5	21/12/2011 12:01	64.1	28/11/2011 20:46	65.0
30/11/2011 9:01	71.3	5/12/2011 15:31	67.1	10/12/2011 10:31	69.2	15/12/2011 17:31	68.9	21/12/2011 12:31	64.6	28/11/2011 20:51	65.5
30/11/2011 9:31	70.7	5/12/2011 16:01	68.3	10/12/2011 11:01	69.3	15/12/2011 18:01	66.8	21/12/2011 13:01	67.4	28/11/2011 20:56	65.2
30/11/2011 10:01	72.0	5/12/2011 16:31	67.8	10/12/2011 11:31	67.0	15/12/2011 18:31	65.0	21/12/2011 13:31	67.1	28/11/2011 21:01	65.3
30/11/2011 10:31	70.4	5/12/2011 17:01	67.4	10/12/2011 12:01	65.8	16/12/2011 7:01	65.6	21/12/2011 14:01	67.6	28/11/2011 21:06	65.5
30/11/2011 11:01	70.2	5/12/2011 17:31	67.1	10/12/2011 12:31	65.7	16/12/2011 7:31	67.0	21/12/2011 14:31	66.6	28/11/2011 21:11	65.4
30/11/2011 11:31	70.1	5/12/2011 18:01	64.7	10/12/2011 13:01	68.5	16/12/2011 8:01	68.5	21/12/2011 15:01	66.8	28/11/2011 21:16	65.1
30/11/2011 12:01	66.2	5/12/2011 18:31	65.0	10/12/2011 13:31	68.9	16/12/2011 8:31	69.5	21/12/2011 15:31	66.3	28/11/2011 21:21	65.3
30/11/2011 12:31	66.0	6/12/2011 7:01	65.4	10/12/2011 14:01	68.1	16/12/2011 9:01	70.6	21/12/2011 16:01	68.0	28/11/2011 21:26	65.0
30/11/2011 13:01	73.4	6/12/2011 7:31	65.8	10/12/2011 14:31	68.4	16/12/2011 9:31	68.9	21/12/2011 16:31	68.2	28/11/2011 21:31	65.0
30/11/2011 13:31	67.9	6/12/2011 8:01	65.5	10/12/2011 15:01	68.9	16/12/2011 10:01	69.3	21/12/2011 17:01	69.1	28/11/2011 21:36	65.0
30/11/2011 14:01	70.6	6/12/2011 8:31	67.6	10/12/2011 15:31	67.5	16/12/2011 10:31	68.9	21/12/2011 17:31	67.1	28/11/2011 21:41	65.1
30/11/2011 14:31	73.5	6/12/2011 9:01	67.9	10/12/2011 16:01	68.4	16/12/2011 11:01	68.1	21/12/2011 18:01	65.4	28/11/2011 21:46	65.1
30/11/2011 15:01	70.7	6/12/2011 9:31	68.5	10/12/2011 16:31	68.6	16/12/2011 11:31	67.1	21/12/2011 18:31	64.6	28/11/2011 21:51	65.5
30/11/2011 15:31	67.2	6/12/2011 10:01	68.7	10/12/2011 17:01	68.6	16/12/2011 12:01	64.2	22/12/2011 7:01	65.9	28/11/2011 21:56	65.2
30/11/2011 16:01	69.2	6/12/2011 10:31	68.3	10/12/2011 17:31	67.0	16/12/2011 12:31	64.3	22/12/2011 7:31	67.3	28/11/2011 22:01	65.0
30/11/2011 16:31	68.5	6/12/2011 11:01	69.2	10/12/2011 18:01	66.4	16/12/2011 13:01	66.7	22/12/2011 8:01	67.2	28/11/2011 22:06	64.9
30/11/2011 17:01	70.8	6/12/2011 11:31	67.8	10/12/2011 18:31	65.7	16/12/2011 13:31	67.6	22/12/2011 8:31	68.0	28/11/2011 22:11	65.0
30/11/2011 17:31	67.1	6/12/2011 12:01	66.4	12/12/2011 7:01	65.7	16/12/2011 14:01	68.2	22/12/2011 9:01	72.0	28/11/2011 22:16	65.0
30/11/2011 18:01	65.6	6/12/2011 12:31	65.7	12/12/2011 7:31	66.9	16/12/2011 14:31	67.8	22/12/2011 9:31	67.6	28/11/2011 22:21	65.1
30/11/2011 18:31	65.4	6/12/2011 13:01	67.8	12/12/2011 8:01	67.6	16/12/2011 15:01	66.3	22/12/2011 10:01	67.2	28/11/2011 22:26	64.3
1/12/2011 7:01	66.1	6/12/2011 13:31	68.3	12/12/2011 8:31	68.5	16/12/2011 15:31	65.9	22/12/2011 10:31	67.3	28/11/2011 22:31	64.7
1/12/2011 7:31	66.9	6/12/2011 14:01	67.6	12/12/2011 9:01	68.7	16/12/2011 16:01	68.1	22/12/2011 11:01	68.0	28/11/2011 22:36	64.7
1/12/2011 8:01	67.0	6/12/2011 14:31	68.3	12/12/2011 9:31	69.1	16/12/2011 16:31	68.7	22/12/2011 11:31	67.9	28/11/2011 22:41	64.2
1/12/2011 8:31	69.7	6/12/2011 15:01	68.6	12/12/2011 10:01	69.2	16/12/2011 17:01	68.1	22/12/2011 12:01	65.4	28/11/2011 22:46	64.4
1/12/2011 9:01	69.1	6/12/2011 15:31	67.2	12/12/2011 10:31	69.4	16/12/2011 17:31	65.6	22/12/2011 12:31	65.5	28/11/2011 22:51	64.2
1/12/2011 9:31	67.5	6/12/2011 16:01	68.4	12/12/2011 11:01	69.4	16/12/2011 18:01	65.4	22/12/2011 13:01	68.9	28/11/2011 22:56	63.9
1/12/2011 10:01	71.7	6/12/2011 16:31	68.5	12/12/2011 11:31	66.8	16/12/2011 18:31	64.2	22/12/2011 13:31	68.4	29/11/2011 19:01	63.7
1/12/2011 10:31	72.1	6/12/2011 17:01	69.0	12/12/2011 12:01	65.3	17/12/2011 7:01	66.2	22/12/2011 14:01	67.5	29/11/2011 19:06	63.7
1/12/2011 11:01	66.9	6/12/2011 17:31	67.9	12/12/2011 12:31	64.3	17/12/2011 7:31	67.5	22/12/2011 14:31	66.4	29/11/2011 19:11	63.7
1/12/2011 11:31	70.3	6/12/2011 18:01	66.0	12/12/2011 13:01	67.8	17/12/2011 8:01	70.3	22/12/2011 15:01	67.6	29/11/2011 19:16	63.8
1/12/2011 12:01	67.2	6/12/2011 18:31	65.3	12/12/2011 13:31	69.5	17/12/2011 8:31	70.3	22/12/2011 15:31	66.4	29/11/2011 19:21	63.9
1/12/2011 12:31	67.0	7/12/2011 7:01	65.2	12/12/2011 14:01	68.8	17/12/2011 9:01	68.7	22/12/2011 16:01	66.3	29/11/2011 19:26	63.8
1/12/2011 13:01	71.0	7/12/2011 7:31	65.6	12/12/2011 14:31	68.3	17/12/2011 9:31	68.8	22/12/2011 16:31	65.3	29/11/2011 19:31	64.2
1/12/2011 13:31	73.1	7/12/2011 8:01	66.7	12/12/2011 15:01	67.8	17/12/2011 10:01	68.6	22/12/2011 17:01	65.7	29/11/2011 19:36	65.0
1/12/2011 14:01	72.5	7/12/2011 8:31	68.4	12/12/2011 15:31	67.8	17/12/2011 10:31	68.4	22/12/2011 17:31	64.6	29/11/2011 19:41	65.3
1/12/2011 14:31	71.8	7/12/2011 9:01	68.1	12/12/2011 16:01	68.5	17/12/2011 11:01	68.5	22/12/2011 18:01	64.6	29/11/2011 19:46	65.4
1/12/2011 15:01	71.1	7/12/2011 9:31	68.8	12/12/2011 16:31	67.5	17/12/2011 11:31	68.1	22/12/2011 18:31	64.2	29/11/2011 19:51	65.1
1/12/2011 15:31	68.4	7/12/2011 10:01	69.7	12/12/2011 17:01	67.2	17/12/2011 12:01	65.8	23/12/2011 7:01	65.6	29/11/2011 19:56	65.1
1/12/2011 16:01	66.3	7/12/2011 10:31	69.4	12/12/2011 17:31	66.1	17/12/2011 12:31	64.9	23/12/2011 7:31	67.3	29/11/2011 20:01	65.3
1/12/2011 16:31	73.2	7/12/2011 11:01	69.4	12/12/2011 18:01	65.0	17/12/2011 13:01	67.9	23/12/2011 8:01	66.7	29/11/2011 20:06	65.4
1/12/2011 17:01	72.8	7/12/2011 11:31	66.9	12/12/2011 18:31	63.6	17/12/2011 13:31	68.3	23/12/2011 8:31	66.7	29/11/2011 20:11	66.1
1/12/2011 17:31	67.3	7/12/2011 12:01	65.9	13/12/2011 7:01	65.3	17/12/2011 14:01	68.4	23/12/2011 9:01	67.3	29/11/2011 20:16	65.4
1/12/2011 18:01	67.2	7/12/2011 12:31	65.3	13/12/2011 7:31	66.0	17/12/2011 14:31	68.2	23/12/2011 9:31	68.6	29/11/2011 20:21	65.3
1/12/2011 18:31	64.7	7/12/2011 13:01	69.1	13/12/2011 8:01	65.9	17/12/2011 15:01	67.2	23/12/2011 10:01	68.8	29/11/2011 20:26	65.3
2/12/2011 7:01	65.9	7/12/2011 13:31	69.2	13/12/2011 8:31	68.5	17/12/2011 15:31	66.9	23/12/2011 10:31	68.1	29/11/2011 20:31	65.5
2/12/2011 7:31	66.5	7/12/2011 14:01	68.2	13/12/2011 9:01	68.2	17/12/2011 16:01	68.7	23/12/2011 11:01	67.6	29/11/2011 20:36	65.4
2/12/2011 8:01	65.9	7/12/2011 14:31	68.2	13/12/2011 9:31	69.1	17/12/2011 16:31	69.2	23/12/2011 11:31	64.7	29/11/2011 20:41	65.2
2/12/2011 8:31	72.1	7/12/2011 15:01	67.9	13/12/2011 10:01	69.1	17/12/2011 17:01	69.0	23/12/2011 12:01	63.8	29/11/2011 20:46	65.3
2/12/2011 9:01	73.1	7/12/2011 15:31	66.8	13/12/2011 10:31	68.0	17/12/2011 17:31	67.1	23/12/2011 12:31	64.4	29/11/2011 20:51	65.4
2/12/2011 9:31	71.3	7/12/2011 16:01	67.9	13/12/2011 11:01	68.2	17/12/2011 18:01	64.1	23/12/2011 13:01	67.2	29/11/2011 20:56	65.1
2/12/2011 10:01	71.8	7/12/2011 16:31	68.2	13/12/2011 11:31	67.1	17/12/2011 18:31	64.3	23/12/2011 13:31	68.3	29/11/2011 21:01	65.3
2/12/2011 10:31	73.2	7/12/2011 17:01	68.0	13/12/2011 12:01	65.5	19/12/2011 7:01	65.8	23/12/2011 14:01	67.9	29/11/2011 21:06	65.4
2/12/2011 11:01	72.2	7/12/2011 17:31	67.0	13/12/2011 12:31	63.6	19/12/2011 7:31	67.1	23/12/2011 14:31	67.2	29/11/2011 21:11	65.3
2/12/2011 11:31	70.5	7/12/2011 18:01	66.8	13/12/2011 13:01	67.1	19/12/2011 8:01	68.0	23/12/2011 15:01	67.0	29/11/2011 21:16	65.2
2/12/2011 12:01	65.1	7/12/2011 18:31	65.7	13/12/2011 13:31	68.3	19/12/2011 8:31	67.8	23/12/2011 15:31	66.2	29/11/2011 21:21	64.9
2/12/2011 12:31	64.7	8/12/2011 7:01	65.9	13/12/2011 14:01	68.8	19/12/2011 9:01	68.0	23/12/2011 16:01	68.8	29/11/2011 21:26	65.1
2/12/2011 13:01	72.1	8/12/2011 7:31	67.5	13/12/2011 14:31	67.6	19/12/2011 9:31	68.1	23/12/2011 16:31	68.6	29/11/2011 21:31	64.9
		8/12/2011 8:01	66.9	13/12/2011 15:01	66.9	19/12/2011 10:01	69.3	23/12/2011 17:01	68.1	29/11/2011 21:36	65.0

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

29/11/2011 21:41 65.1	1/12/2011 22:51 64.1	4/12/2011 8:01 63.4	4/12/2011 17:11 65.1	5/12/2011 22:21 64.0	8/12/2011 19:31 65.0
29/11/2011 21:46 65.2	1/12/2011 22:56 64.5	4/12/2011 8:06 63.6	4/12/2011 17:16 65.6	5/12/2011 22:26 63.2	8/12/2011 19:36 65.2
29/11/2011 21:51 65.6	2/12/2011 19:01 63.3	4/12/2011 8:11 64.0	4/12/2011 17:21 65.0	5/12/2011 22:31 63.3	8/12/2011 19:41 65.6
29/11/2011 21:56 64.8	2/12/2011 19:06 63.0	4/12/2011 8:16 64.7	4/12/2011 17:26 64.7	5/12/2011 22:36 63.1	8/12/2011 19:46 64.9
29/11/2011 22:01 65.2	2/12/2011 19:11 63.1	4/12/2011 8:21 65.0	4/12/2011 17:31 65.1	5/12/2011 22:41 63.9	8/12/2011 19:51 65.0
29/11/2011 22:06 64.8	2/12/2011 19:16 63.0	4/12/2011 8:26 65.9	4/12/2011 17:36 65.2	5/12/2011 22:46 63.5	8/12/2011 19:56 65.2
29/11/2011 22:11 64.7	2/12/2011 19:21 62.8	4/12/2011 8:31 64.2	4/12/2011 17:41 65.3	5/12/2011 22:51 64.4	8/12/2011 20:01 65.8
29/11/2011 22:16 64.5	2/12/2011 19:26 62.5	4/12/2011 8:36 64.8	4/12/2011 17:46 65.6	5/12/2011 22:56 62.8	8/12/2011 20:06 66.5
29/11/2011 22:21 64.8	2/12/2011 19:31 63.2	4/12/2011 8:41 65.0	4/12/2011 17:51 65.3	6/12/2011 19:01 63.9	8/12/2011 20:11 67.0
29/11/2011 22:26 64.0	2/12/2011 19:36 64.0	4/12/2011 8:46 65.3	4/12/2011 17:56 65.1	6/12/2011 19:06 63.8	8/12/2011 20:16 66.9
29/11/2011 22:31 64.5	2/12/2011 19:41 64.2	4/12/2011 8:51 65.4	4/12/2011 18:01 64.5	6/12/2011 19:11 64.1	8/12/2011 20:21 66.3
29/11/2011 22:36 64.3	2/12/2011 19:46 63.9	4/12/2011 8:56 65.0	4/12/2011 18:06 64.9	6/12/2011 19:16 64.9	8/12/2011 20:26 67.1
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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18/12/2011 19:16	64.9
18/12/2011 19:21	64.4
18/12/2011 19:26	64.3
18/12/2011 19:31	64.5
18/12/2011 19:36	65.1

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

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20/12/2011 20:46 65.1	22/12/2011 21:56 63.2	25/12/2011 7:06 63.1	25/12/2011 16:16 64.7	26/12/2011 9:26 64.6	26/12/2011 18:36 62.4

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

26/12/2011 18:41 62.7	27/12/2011 11:51 61.7	27/12/2011 21:01 61.4	28/11/2011 23:01 63.7	30/11/2011 0:11 62.4	1/12/2011 1:21 61.4
26/12/2011 18:46 65.0	27/12/2011 11:56 62.1	27/12/2011 21:06 61.8	28/11/2011 23:06 63.5	30/11/2011 0:16 62.7	1/12/2011 1:26 60.7
26/12/2011 18:51 62.5	27/12/2011 12:01 61.8	27/12/2011 21:11 61.7	28/11/2011 23:11 63.7	30/11/2011 0:21 62.1	1/12/2011 1:31 61.0
26/12/2011 18:56 63.1	27/12/2011 12:06 62.3	27/12/2011 21:16 62.7	28/11/2011 23:16 64.1	30/11/2011 0:26 62.5	1/12/2011 1:36 61.1
26/12/2011 19:01 63.7	27/12/2011 12:11 61.7	27/12/2011 21:21 61.7	28/11/2011 23:21 64.1	30/11/2011 0:31 62.3	1/12/2011 1:41 61.7
26/12/2011 19:06 63.3	27/12/2011 12:16 61.9	27/12/2011 21:26 61.6	28/11/2011 23:26 63.7	30/11/2011 0:36 62.4	1/12/2011 1:46 60.4
26/12/2011 19:11 64.0	27/12/2011 12:21 61.2	27/12/2011 21:31 61.9	28/11/2011 23:31 63.8	30/11/2011 0:41 62.0	1/12/2011 1:51 61.5
26/12/2011 19:16 64.7	27/12/2011 12:26 61.5	27/12/2011 21:36 61.9	28/11/2011 23:36 63.7	30/11/2011 0:46 61.2	1/12/2011 1:56 61.0
26/12/2011 19:21 63.6	27/12/2011 12:31 62.0	27/12/2011 21:41 61.7	28/11/2011 23:41 63.6	30/11/2011 0:51 61.2	1/12/2011 2:01 60.9
26/12/2011 19:26 64.6	27/12/2011 12:36 61.7	27/12/2011 21:46 62.8	28/11/2011 23:46 63.7	30/11/2011 0:56 60.9	1/12/2011 2:06 60.1
26/12/2011 19:31 64.3	27/12/2011 12:41 61.9	27/12/2011 21:51 61.6	28/11/2011 23:51 63.6	30/11/2011 1:01 60.5	1/12/2011 2:11 60.0
26/12/2011 19:36 63.7	27/12/2011 12:46 61.9	27/12/2011 21:56 61.8	28/11/2011 23:56 63.7	30/11/2011 1:06 60.7	1/12/2011 2:16 59.9
26/12/2011 19:41 63.8	27/12/2011 12:51 61.9	27/12/2011 22:01 61.8	29/11/2011 0:01 62.6	30/11/2011 1:11 60.7	1/12/2011 2:21 60.0
26/12/2011 19:46 63.3	27/12/2011 12:56 62.7	27/12/2011 22:06 61.9	29/11/2011 0:06 62.4	30/11/2011 1:16 60.7	1/12/2011 2:26 59.4
26/12/2011 19:51 63.8	27/12/2011 13:01 63.5	27/12/2011 22:11 62.8	29/11/2011 0:11 62.6	30/11/2011 1:21 60.3	1/12/2011 2:31 60.8
26/12/2011 19:56 63.7	27/12/2011 13:06 62.5	27/12/2011 22:16 62.2	29/11/2011 0:16 62.5	30/11/2011 1:26 60.4	1/12/2011 2:36 59.7
26/12/2011 20:01 63.4	27/12/2011 13:11 62.6	27/12/2011 22:21 62.7	29/11/2011 0:21 62.1	30/11/2011 1:31 60.2	1/12/2011 2:41 59.6
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26/12/2011 20:11 62.4	27/12/2011 13:21 63.7	27/12/2011 22:31 62.4	29/11/2011 0:31 62.4	30/11/2011 1:41 60.3	1/12/2011 2:51 61.6
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27/12/2011 7:26 59.4	27/12/2011 16:36 63.7	28/11/2011 2:36 57.5	29/11/2011 3:46 58.6	30/11/2011 4:56 58.2	1/12/2011 6:06 62.7
27/12/2011 7:31 60.2	27/12/2011 16:41 63.4	28/11/2011 2:41 58.9	29/11/2011 3:51 58.7	30/11/2011 5:01 58.9	1/12/2011 6:11 63.2
27/12/2011 7:36 59.6	27/12/2011 16:46 63.2	28/11/2011 2:46 57.4	29/11/2011 3:56 58.4	30/11/2011 5:06 58.7	1/12/2011 6:16 62.9
27/12/2011 7:41 59.2	27/12/2011 16:51 62.8	28/11/2011 2:51 59.3	29/11/2011 4:01 57.7	30/11/2011 5:11 59.9	1/12/2011 6:21 63.1
27/12/2011 7:46 60.2	27/12/2011 16:56 63.3	28/11/2011 2:56 57.2	29/11/2011 4:06 58.2	30/11/2011 5:16 58.8	1/12/2011 6:26 64.9
27/12/2011 7:51 59.8	27/12/2011 17:01 63.2	28/11/2011 3:01 57.3	29/11/2011 4:11 58.2	30/11/2011 5:21 59.5	1/12/2011 6:31 64.1
27/12/2011 7:56 60.0	27/12/2011 17:06 63.0	28/11/2011 3:06 58.3	29/11/2011 4:16 58.2	30/11/2011 5:26 60.5	1/12/2011 6:36 64.8
27/12/2011 8:01 60.5	27/12/2011 17:11 62.8	28/11/2011 3:11 59.3	29/11/2011 4:21 58.2	30/11/2011 5:31 60.2	1/12/2011 6:41 65.5
27/12/2011 8:06 62.1	27/12/2011 17:16 62.5	28/11/2011 3:16 57.4	29/11/2011 4:26 58.3	30/11/2011 5:36 60.1	1/12/2011 6:46 65.0
27/12/2011 8:11 65.8	27/12/2011 17:21 63.1	28/11/2011 3:21 56.4	29/11/2011 4:31 58.8	30/11/2011 5:41 60.6	1/12/2011 6:51 65.7
27/12/2011 8:16 66.5	27/12/2011 17:26 63.4	28/11/2011 3:26 57.0	29/11/2011 4:36 57.9	30/11/2011 5:46 60.8	1/12/2011 6:56 66.1
27/12/2011 8:21 63.8	27/12/2011 17:31 62.3	28/11/2011 3:31 56.8	29/11/2011 4:41 58.6	30/11/2011 5:51 61.4	1/12/2011 23:01 64.7
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27/12/2011 8:31 64.3	27/12/2011 17:41 63.1	28/11/2011 3:41 57.7	29/11/2011 4:51 58.2	30/11/2011 6:01 60.9	1/12/2011 23:11 64.6
27/12/2011 8:36 61.8	27/12/2011 17:46 62.4	28/11/2011 3:46 57.4	29/11/2011 4:56 58.4	30/11/2011 6:06 61.3	1/12/2011 23:16 64.8
27/12/2011 8:41 61.9	27/12/2011 17:51 62.5	28/11/2011 3:51 56.6	29/11/2011 5:01 59.1	30/11/2011 6:11 62.1	1/12/2011 23:21 64.5
27/12/2011 8:46 62.1	27/12/2011 17:56 62.6	28/11/2011 3:56 57.7	29/11/2011 5:06 58.5	30/11/2011 6:16 62.0	1/12/2011 23:26 64.1
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27/12/2011 8:56 62.9	27/12/2011 18:06 62.6	28/11/2011 4:06 59.0	29/11/2011 5:16 59.1	30/11/2011 6:26 63.3	1/12/2011 23:36 63.9
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27/12/2011 11:46 62.2	27/12/2011 20:56 63.1	28/11/2011 6:56 64.8	30/11/2011 0:06 62.5	1/12/2011 1:16 61.1	2/12/2011 2:26 59.0

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

2/12/2011 2:31	60.7	3/12/2011 3:41	60.1	4/12/2011 4:51	60.4	5/12/2011 6:01	61.6	6/12/2011 23:11	63.1	8/12/2011 0:21	61.8
2/12/2011 2:36	59.8	3/12/2011 3:46	59.5	4/12/2011 4:56	60.9	5/12/2011 6:06	61.6	6/12/2011 23:16	62.7	8/12/2011 0:26	62.6
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2/12/2011 2:46	60.1	3/12/2011 3:56	58.4	4/12/2011 5:06	61.4	5/12/2011 6:16	62.0	6/12/2011 23:26	62.5	8/12/2011 0:36	61.7
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2/12/2011 3:01	58.8	3/12/2011 4:11	60.4	4/12/2011 5:21	59.8	5/12/2011 6:31	63.1	6/12/2011 23:41	61.7	8/12/2011 0:51	60.4
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2/12/2011 3:31	58.3	3/12/2011 4:41	58.3	4/12/2011 5:51	59.5	5/12/2011 23:01	62.6	7/12/2011 0:11	60.6	8/12/2011 1:21	60.1
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3/12/2011 3:01	60.3	4/12/2011 4:11	60.4	5/12/2011 5:21	59.6	6/12/2011 6:31	63.4	7/12/2011 23:41	63.2	9/12/2011 0:51	62.0
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3/12/2011 3:36	59.3	4/12/2011 4:46	60.6	5/12/2011 5:56	62.4	6/12/2011 23:06	63.1	8/12/2011 0:16	62.7	9/12/2011 1:26	62.4

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

9/12/2011 1:31	60.9	10/12/2011 2:41	61.9	11/12/2011 3:51	60.5	12/12/2011 5:01	59.4	13/12/2011 6:11	61.8	14/12/2011 23:21	63.8
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9/12/2011 1:46	60.8	10/12/2011 2:56	61.8	11/12/2011 4:06	60.1	12/12/2011 5:16	60.5	13/12/2011 6:26	63.3	14/12/2011 23:36	63.1
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Real-time Noise Data RTN1 (FEHD Hong Kong Transport Section Whitefield Depot)

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17/12/2011 0:06 64.9	18/12/2011 1:16 62.0	19/12/2011 2:26 58.6	20/12/2011 3:36 55.8	21/12/2011 4:46 60.9	22/12/2011 5:56 61.1
17/12/2011 0:11 64.3	18/12/2011 1:21 61.8	19/12/2011 2:31 59.4	20/12/2011 3:41 56.7	21/12/2011 4:51 60.5	22/12/2011 6:01 62.3
17/12/2011 0:16 64.6	18/12/2011 1:26 61.9	19/12/2011 2:36 59.2	20/12/2011 3:46 55.5	21/12/2011 4:56 60.5	22/12/2011 6:06 61.3
17/12/2011 0:21 63.1	18/12/2011 1:31 61.3	19/12/2011 2:41 58.8	20/12/2011 3:51 56.4	21/12/2011 5:01 60.3	22/12/2011 6:11 61.9
17/12/2011 0:26 63.8	18/12/2011 1:36 62.0	19/12/2011 2:46 58.6	20/12/2011 3:56 55.3	21/12/2011 5:06 60.5	22/12/2011 6:16 61.8
17/12/2011 0:31 63.6	18/12/2011 1:41 61.8	19/12/2011 2:51 58.4	20/12/2011 4:01 56.4	21/12/2011 5:11 60.4	22/12/2011 6:21 62.4
17/12/2011 0:36 63.3	18/12/2011 1:46 61.7	19/12/2011 2:56 57.9	20/12/2011 4:06 57.4	21/12/2011 5:16 60.5	22/12/2011 6:26 62.9
17/12/2011 0:41 63.0	18/12/2011 1:51 61.5	19/12/2011 3:01 58.0	20/12/2011 4:11 58.2	21/12/2011 5:21 61.0	22/12/2011 6:31 63.1
17/12/2011 0:46 62.8	18/12/2011 1:56 60.6	19/12/2011 3:06 58.3	20/12/2011 4:16 58.2	21/12/2011 5:26 61.2	22/12/2011 6:36 63.3
17/12/2011 0:51 63.2	18/12/2011 2:01 61.3	19/12/2011 3:11 58.2	20/12/2011 4:21 58.6	21/12/2011 5:31 62.5	22/12/2011 6:41 63.5
17/12/2011 0:56 63.4	18/12/2011 2:06 61.6	19/12/2011 3:16 58.0	20/12/2011 4:26 58.0	21/12/2011 5:36 61.5	22/12/2011 6:46 64.1
17/12/2011 1:01 62.9	18/12/2011 2:11 61.9	19/12/2011 3:21 57.1	20/12/2011 4:31 59.2	21/12/2011 5:41 61.8	22/12/2011 6:51 65.0
17/12/2011 1:06 62.8	18/12/2011 2:16 61.0	19/12/2011 3:26 58.6	20/12/2011 4:36 59.1	21/12/2011 5:46 61.8	22/12/2011 6:56 64.9
17/12/2011 1:11 62.3	18/12/2011 2:21 61.4	19/12/2011 3:31 57.0	20/12/2011 4:41 57.7	21/12/2011 5:51 61.9	22/12/2011 23:01 63.0
17/12/2011 1:16 62.6	18/12/2011 2:26 61.1	19/12/2011 3:36 58.5	20/12/2011 4:46 59.3	21/12/2011 5:56 61.7	22/12/2011 23:06 63.7
17/12/2011 1:21 62.9	18/12/2011 2:31 60.1	19/12/2011 3:41 60.0	20/12/2011 4:51 59.2	21/12/2011 6:01 62.3	22/12/2011 23:11 63.2
17/12/2011 1:26 62.8	18/12/2011 2:36 60.9	19/12/2011 3:46 57.0	20/12/2011 4:56 58.8	21/12/2011 6:06 62.3	22/12/2011 23:16 64.0
17/12/2011 1:31 62.9	18/12/2011 2:41 61.3	19/12/2011 3:51 56.9	20/12/2011 5:01 59.0	21/12/2011 6:11 63.1	22/12/2011 23:21 64.0
17/12/2011 1:36 62.2	18/12/2011 2:46 61.2	19/12/2011 3:56 59.4	20/12/2011 5:06 59.2	21/12/2011 6:16 62.9	22/12/2011 23:26 63.8

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

22/12/2011 23:31 64.0	24/12/2011 0:41 64.0	25/12/2011 1:51 61.7	26/12/2011 3:01 63.6
22/12/2011 23:36 63.2	24/12/2011 0:46 63.7	25/12/2011 1:56 62.3	26/12/2011 3:06 61.9
22/12/2011 23:41 63.6	24/12/2011 0:51 63.8	25/12/2011 2:01 62.3	26/12/2011 3:11 61.9
22/12/2011 23:46 63.3	24/12/2011 0:56 63.3	25/12/2011 2:06 61.7	26/12/2011 3:16 63.1
22/12/2011 23:51 63.7	24/12/2011 1:01 63.8	25/12/2011 2:11 61.9	26/12/2011 3:21 66.7
22/12/2011 23:56 63.1	24/12/2011 1:06 63.5	25/12/2011 2:16 61.5	26/12/2011 3:26 68.2
23/12/2011 0:01 63.4	24/12/2011 1:11 63.1	25/12/2011 2:21 61.8	26/12/2011 3:31 70.5
23/12/2011 0:06 64.0	24/12/2011 1:16 63.6	25/12/2011 2:26 61.4	26/12/2011 3:36 68.3
23/12/2011 0:11 62.6	24/12/2011 1:21 63.9	25/12/2011 2:31 61.6	26/12/2011 3:41 67.7
23/12/2011 0:16 62.7	24/12/2011 1:26 64.1	25/12/2011 2:36 61.1	26/12/2011 3:46 67.6
23/12/2011 0:21 62.8	24/12/2011 1:31 63.2	25/12/2011 2:41 61.7	26/12/2011 3:51 65.0
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23/12/2011 0:31 62.5	24/12/2011 1:41 63.6	25/12/2011 2:51 60.6	26/12/2011 4:01 62.9
23/12/2011 0:36 62.6	24/12/2011 1:46 63.3	25/12/2011 2:56 61.4	26/12/2011 4:06 63.2
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23/12/2011 4:41 58.5	24/12/2011 5:51 62.9	25/12/2011 23:01 70.0	27/12/2011 0:11 65.2
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23/12/2011 5:31 61.4	24/12/2011 6:41 63.9	25/12/2011 23:51 63.5	27/12/2011 1:01 60.9
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23/12/2011 5:41 61.3	24/12/2011 6:51 64.3	26/12/2011 0:01 62.8	27/12/2011 1:11 61.6
23/12/2011 5:46 61.5	24/12/2011 6:56 64.3	26/12/2011 0:06 62.6	27/12/2011 1:16 59.6
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23/12/2011 6:16 61.1	24/12/2011 23:26 64.2	26/12/2011 0:36 62.9	27/12/2011 1:46 60.2
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23/12/2011 6:31 62.7	24/12/2011 23:41 64.2	26/12/2011 0:51 62.7	27/12/2011 2:01 60.2
23/12/2011 6:36 62.9	24/12/2011 23:46 64.9	26/12/2011 0:56 62.2	27/12/2011 2:06 58.4
23/12/2011 6:41 63.7	24/12/2011 23:51 64.0	26/12/2011 1:01 62.6	27/12/2011 2:11 58.8
23/12/2011 6:46 63.4	24/12/2011 23:56 64.2	26/12/2011 1:06 62.9	27/12/2011 2:16 58.1
23/12/2011 6:51 64.1	25/12/2011 0:01 63.7	26/12/2011 1:11 66.3	27/12/2011 2:21 58.0
23/12/2011 6:56 64.6	25/12/2011 0:06 64.2	26/12/2011 1:16 68.2	27/12/2011 2:26 59.7
23/12/2011 23:01 65.9	25/12/2011 0:11 63.5	26/12/2011 1:21 67.5	27/12/2011 2:31 60.8
23/12/2011 23:06 65.5	25/12/2011 0:16 64.3	26/12/2011 1:26 68.1	27/12/2011 2:36 62.0
23/12/2011 23:11 65.7	25/12/2011 0:21 63.8	26/12/2011 1:31 65.1	27/12/2011 2:41 65.5
23/12/2011 23:16 65.4	25/12/2011 0:26 63.3	26/12/2011 1:36 64.5	27/12/2011 2:46 68.8
23/12/2011 23:21 66.4	25/12/2011 0:31 63.7	26/12/2011 1:41 63.0	27/12/2011 2:51 64.2
23/12/2011 23:26 65.1	25/12/2011 0:36 63.6	26/12/2011 1:46 61.0	27/12/2011 2:56 63.5
23/12/2011 23:31 65.7	25/12/2011 0:41 63.4	26/12/2011 1:51 60.7	27/12/2011 3:01 63.5
23/12/2011 23:36 66.0	25/12/2011 0:46 63.0	26/12/2011 1:56 59.8	27/12/2011 3:06 61.7
23/12/2011 23:41 64.9	25/12/2011 0:51 62.5	26/12/2011 2:01 60.1	27/12/2011 3:11 60.2
23/12/2011 23:46 64.3	25/12/2011 0:56 62.6	26/12/2011 2:06 64.3	27/12/2011 3:16 59.9
23/12/2011 23:51 64.7	25/12/2011 1:01 62.8	26/12/2011 2:11 70.0	27/12/2011 3:21 59.3
23/12/2011 23:56 65.1	25/12/2011 1:06 62.4	26/12/2011 2:16 65.1	27/12/2011 3:26 59.7
24/12/2011 0:01 64.8	25/12/2011 1:11 62.6	26/12/2011 2:21 64.1	27/12/2011 3:31 62.0
24/12/2011 0:06 65.1	25/12/2011 1:16 63.1	26/12/2011 2:26 62.1	27/12/2011 3:36 63.9
24/12/2011 0:11 64.6	25/12/2011 1:21 61.9	26/12/2011 2:31 60.5	27/12/2011 3:41 66.0
24/12/2011 0:16 65.4	25/12/2011 1:26 62.7	26/12/2011 2:36 59.7	27/12/2011 3:46 66.1
24/12/2011 0:21 64.8	25/12/2011 1:31 62.3	26/12/2011 2:41 59.7	27/12/2011 3:51 64.6
24/12/2011 0:26 64.1	25/12/2011 1:36 62.8	26/12/2011 2:46 62.1	27/12/2011 3:56 60.5
24/12/2011 0:31 64.6	25/12/2011 1:41 62.3	26/12/2011 2:51 61.6	27/12/2011 4:01 60.1
24/12/2011 0:36 64.2	25/12/2011 1:46 62.4	26/12/2011 2:56 62.4	27/12/2011 4:06 58.6

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27/12/2011 23:46 61.3
27/12/2011 23:51 61.1
27/12/2011 23:56 60.7

*Exceedance recorded during monitoring compliance check with NCO

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

Normal Day 07:00-19:00

28/11/2011 7:01 63.6
28/11/2011 7:31 64.3
28/11/2011 8:01 66.3
28/11/2011 8:31 67.6
28/11/2011 9:01 67.1
28/11/2011 9:31 67.7
28/11/2011 10:01 68.0
28/11/2011 10:31 68.2
28/11/2011 11:01 68.1
28/11/2011 11:31 67.2
28/11/2011 12:01 66.0
28/11/2011 12:31 66.2
28/11/2011 13:01 67.2
28/11/2011 13:31 67.3
28/11/2011 14:01 67.5
28/11/2011 14:31 67.1
28/11/2011 15:01 67.2
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Normal Day 19:00-23:00, Sunday & Holiday 07:00-23:00

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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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20/12/2011 20:36 67.2	22/12/2011 21:46 62.6	24/12/2011 22:56 62.5	25/12/2011 16:06 62.7	26/12/2011 9:16 63.2	26/12/2011 18:26 65.7
20/12/2011 20:41 67.2	22/12/2011 21:51 62.9	25/12/2011 7:01 60.4	25/12/2011 16:11 62.1	26/12/2011 9:21 62.7	26/12/2011 18:31 66.2
20/12/2011 20:46 66.5	22/12/2011 21:56 61.9	25/12/2011 7:06 61.2	25/12/2011 16:16 63.1	26/12/2011 9:26 62.7	26/12/2011 18:36 66.7

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

26/12/2011 18:41 64.7	27/12/2011 11:51 62.6	27/12/2011 21:01 61.3	28/11/2011 5:56 59.4	29/11/2011 23:06 61.8	1/12/2011 0:16 60.3
26/12/2011 18:46 66.1	27/12/2011 11:56 61.8	27/12/2011 21:06 61.0	28/11/2011 6:01 59.3	29/11/2011 23:11 62.8	1/12/2011 0:21 60.3
26/12/2011 18:51 64.6	27/12/2011 12:01 61.5	27/12/2011 21:11 62.2	28/11/2011 6:06 60.0	29/11/2011 23:16 62.6	1/12/2011 0:26 60.4
26/12/2011 18:56 64.7	27/12/2011 12:06 62.1	27/12/2011 21:16 61.1	28/11/2011 6:11 60.1	29/11/2011 23:21 61.6	1/12/2011 0:31 59.8
26/12/2011 19:01 64.6	27/12/2011 12:11 62.3	27/12/2011 21:21 61.3	28/11/2011 6:16 60.1	29/11/2011 23:26 61.2	1/12/2011 0:36 59.6
26/12/2011 19:06 62.8	27/12/2011 12:16 62.1	27/12/2011 21:26 61.3	28/11/2011 6:21 60.7	29/11/2011 23:31 61.1	1/12/2011 0:41 59.2
26/12/2011 19:11 63.2	27/12/2011 12:21 61.4	27/12/2011 21:31 61.1	28/11/2011 6:26 61.5	29/11/2011 23:36 61.5	1/12/2011 0:46 59.3
26/12/2011 19:16 63.4	27/12/2011 12:26 61.7	27/12/2011 21:36 61.1	28/11/2011 6:31 61.6	29/11/2011 23:41 60.8	1/12/2011 0:51 59.2
26/12/2011 19:21 62.0	27/12/2011 12:31 62.8	27/12/2011 21:41 62.2	28/11/2011 6:36 62.2	29/11/2011 23:46 61.2	1/12/2011 0:56 59.2
26/12/2011 19:26 62.1	27/12/2011 12:36 64.6	27/12/2011 21:46 61.0	28/11/2011 6:41 62.4	29/11/2011 23:51 61.2	1/12/2011 1:01 58.6
26/12/2011 19:31 63.5	27/12/2011 12:41 61.8	27/12/2011 21:51 61.8	28/11/2011 6:46 63.3	29/11/2011 23:56 61.2	1/12/2011 1:06 59.0
26/12/2011 19:36 61.5	27/12/2011 12:46 62.7	27/12/2011 21:56 61.4	28/11/2011 6:51 64.4	30/11/2011 0:01 60.5	1/12/2011 1:11 58.7
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26/12/2011 19:46 61.3	27/12/2011 12:56 63.1	27/12/2011 22:06 62.1	28/11/2011 23:01 61.0	30/11/2011 0:11 59.9	1/12/2011 1:21 58.7
26/12/2011 19:51 61.4	27/12/2011 13:01 62.5	27/12/2011 22:11 62.0	28/11/2011 23:06 63.1	30/11/2011 0:16 59.9	1/12/2011 1:26 58.2
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26/12/2011 20:11 59.9	27/12/2011 13:21 63.0	27/12/2011 22:31 60.7	28/11/2011 23:26 60.7	30/11/2011 0:36 59.2	1/12/2011 1:46 58.0
26/12/2011 20:16 61.0	27/12/2011 13:26 62.9	27/12/2011 22:36 61.4	28/11/2011 23:31 60.6	30/11/2011 0:41 58.8	1/12/2011 1:51 57.7
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27/12/2011 11:26 62.4	27/12/2011 20:36 61.5	28/11/2011 5:31 60.2	29/11/2011 6:41 62.2	30/11/2011 23:51 61.5	2/12/2011 1:01 58.2
27/12/2011 11:31 62.6	27/12/2011 20:41 61.6	28/11/2011 5:36 60.2	29/11/2011 6:46 61.9	30/11/2011 23:56 61.0	2/12/2011 1:06 58.7
27/12/2011 11:36 62.5	27/12/2011 20:46 61.0	28/11/2011 5:41 59.7	29/11/2011 6:51 62.5	1/12/2011 0:01 60.6	2/12/2011 1:11 59.3
27/12/2011 11:41 62.0	27/12/2011 20:51 63.1	28/11/2011 5:46 60.7	29/11/2011 6:56 63.1	1/12/2011 0:06 60.7	2/12/2011 1:16 58.4
27/12/2011 11:46 61.8	27/12/2011 20:56 61.1	28/11/2011 5:51 60.1	29/11/2011 23:01 61.7	1/12/2011 0:11 60.5	2/12/2011 1:21 58.4

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

2/12/2011 1:26	57.6	3/12/2011 2:36	57.9	4/12/2011 3:46	57.6	5/12/2011 4:56	54.4	6/12/2011 6:06	60.1	7/12/2011 23:16	63.7
2/12/2011 1:31	58.3	3/12/2011 2:41	58.2	4/12/2011 3:51	58.7	5/12/2011 5:01	55.2	6/12/2011 6:11	60.3	7/12/2011 23:21	61.8
2/12/2011 1:36	59.0	3/12/2011 2:46	57.7	4/12/2011 3:56	57.9	5/12/2011 5:06	56.0	6/12/2011 6:16	60.6	7/12/2011 23:26	61.6
2/12/2011 1:41	61.8	3/12/2011 2:51	57.5	4/12/2011 4:01	57.1	5/12/2011 5:11	57.4	6/12/2011 6:21	61.1	7/12/2011 23:31	61.2
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2/12/2011 2:16	57.7	3/12/2011 3:26	57.5	4/12/2011 4:36	58.3	5/12/2011 5:46	62.1	6/12/2011 6:56	64.8	8/12/2011 0:06	62.0
2/12/2011 2:21	56.6	3/12/2011 3:31	57.5	4/12/2011 4:41	57.7	5/12/2011 5:51	58.2	6/12/2011 23:01	62.7	8/12/2011 0:11	61.1
2/12/2011 2:26	57.7	3/12/2011 3:36	58.0	4/12/2011 4:46	58.7	5/12/2011 5:56	60.1	6/12/2011 23:06	62.5	8/12/2011 0:16	60.9
2/12/2011 2:31	56.3	3/12/2011 3:41	57.7	4/12/2011 4:51	58.3	5/12/2011 6:01	58.6	6/12/2011 23:11	62.8	8/12/2011 0:21	60.3
2/12/2011 2:36	57.2	3/12/2011 3:46	57.0	4/12/2011 4:56	58.5	5/12/2011 6:06	59.2	6/12/2011 23:16	61.2	8/12/2011 0:26	60.7
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2/12/2011 2:46	55.5	3/12/2011 3:56	56.8	4/12/2011 5:06	58.2	5/12/2011 6:16	59.8	6/12/2011 23:26	61.5	8/12/2011 0:36	59.6
2/12/2011 2:51	56.7	3/12/2011 4:01	58.5	4/12/2011 5:11	57.5	5/12/2011 6:21	60.8	6/12/2011 23:31	60.7	8/12/2011 0:41	59.6
2/12/2011 2:56	56.8	3/12/2011 4:06	58.2	4/12/2011 5:16	57.5	5/12/2011 6:26	61.1	6/12/2011 23:36	60.9	8/12/2011 0:46	59.6
2/12/2011 3:01	55.5	3/12/2011 4:11	57.3	4/12/2011 5:21	57.1	5/12/2011 6:31	61.1	6/12/2011 23:41	60.5	8/12/2011 0:51	58.8
2/12/2011 3:06	56.1	3/12/2011 4:16	57.0	4/12/2011 5:26	58.0	5/12/2011 6:36	62.4	6/12/2011 23:46	60.9	8/12/2011 0:56	59.1
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2/12/2011 3:16	56.5	3/12/2011 4:26	57.1	4/12/2011 5:36	63.4	5/12/2011 6:46	62.3	6/12/2011 23:56	60.8	8/12/2011 1:06	59.4
2/12/2011 3:21	55.6	3/12/2011 4:31	57.2	4/12/2011 5:41	59.1	5/12/2011 6:51	63.8	7/12/2011 0:01	60.4	8/12/2011 1:11	58.7
2/12/2011 3:26	55.2	3/12/2011 4:36	57.6	4/12/2011 5:46	59.8	5/12/2011 6:56	63.1	7/12/2011 0:06	60.2	8/12/2011 1:16	58.8
2/12/2011 3:31	55.6	3/12/2011 4:41	57.3	4/12/2011 5:51	58.5	5/12/2011 23:01	61.1	7/12/2011 0:11	59.9	8/12/2011 1:21	58.5
2/12/2011 3:36	55.5	3/12/2011 4:46	58.5	4/12/2011 5:56	60.6	5/12/2011 23:06	61.4	7/12/2011 0:16	60.4	8/12/2011 1:26	58.8
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2/12/2011 4:06	56.1	3/12/2011 5:16	57.4	4/12/2011 6:26	60.0	5/12/2011 23:36	61.2	7/12/2011 0:46	59.3	8/12/2011 1:56	57.4
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2/12/2011 6:26	60.7	3/12/2011 23:36	61.2	5/12/2011 0:46	57.2	6/12/2011 1:56	56.6	7/12/2011 3:06	56.8	8/12/2011 4:16	56.5
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2/12/2011 6:36	61.8	3/12/2011 23:46	60.9	5/12/2011 0:56	57.3	6/12/2011 2:06	55.9	7/12/2011 3:16	56.7	8/12/2011 4:26	56.3
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3/12/2011 1:26	59.4	4/12/2011 2:36	58.4	5/12/2011 3:46	55.1	6/12/2011 4:56	57.1	7/12/2011 6:06	59.5	8/12/2011 23:16	62.9
3/12/2011 1:31	58.8	4/12/2011 2:41	58.2	5/12/2011 3:51	53.8	6/12/2011 5:01	56.5	7/12/2011 6:11	59.4	8/12/2011 23:21	61.2
3/12/2011 1:36	59.9	4/12/2011 2:46	58.5	5/12/2011 3:56	53.7	6/12/2011 5:06	57.0	7/12/2011 6:16	59.6	8/12/2011 23:26	61.0
3/12/2011 1:41	58.8	4/12/2011 2:51	58.3	5/12/2011 4:01	52.7	6/12/2011 5:11	59.6	7/12/2011 6:21	60.6	8/12/2011 23:31	61.6
3/12/2011 1:46	58.8	4/12/2011 2:56	57.6	5/12/2011 4:06	53.9	6/12/2011 5:16	57.9	7/12/2011 6:26	60.8	8/12/2011 23:36	61.3
3/12/2011 1:51	59.2	4/12/2011 3:01	58.0	5/12/2011 4:11	54.1	6/12/2011 5:21	58.4	7/12/2011 6:31	60.9	8/12/2011 23:41	61.5
3/12/2011 1:56	58.7	4/12/2011 3:06	58.6	5/12/2011 4:16	55.2	6/12/2011 5:26	59.8	7/12/2011 6:36	65.4	8/12/2011 23:46	61.5
3/12/2011 2:01	59.5	4/12/2011 3:11	57.5	5/12/2011 4:21	54.0	6/12/2011 5:31	63.4	7/12/2011 6:41	62.3	8/12/2011 23:51	61.1
3/12/2011 2:06	59.1	4/12/2011 3:16	60.3	5/12/2011 4:26	53.9	6/12/2011 5:36	59.3	7/12/2011 6:46	62.1	8/12/2011 23:56	60.9
3/12/2011 2:11	58.8	4/12/2011 3:21	58.4	5/12/2011 4:31	54.2	6/12/2011 5:41	59.1	7/12/2011 6:51	62.9	9/12/2011 0:01	61.8
3/12/2011 2:16	59.0	4/12/2011 3:26	58.0	5/12/2011 4:36	53.2	6/12/2011 5:46	61.1	7/12/2011 6:56	63.4	9/12/2011 0:06	61.0
3/12/2011 2:21	57.8	4/12/2011 3:31	57.4	5/12/2011 4:41	54.9	6/12/2011 5:51	60.9	7/12/2011 23:01	62.0	9/12/2011 0:11	60.5
3/12/2011 2:26	57.7	4/12/2011 3:36	57.4	5/12/2011 4:46	53.9	6/12/2011 5:56	59.2	7/12/2011 23:06	62.7	9/12/2011 0:16	60.8
3/12/2011 2:31	58.4	4/12/2011 3:41	58.6	5/12/2011 4:51	54.2	6/12/2011 6:01	59.2	7/12/2011 23:11	63.6	9/12/2011 0:21	60.3

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

9/12/2011 0:26	61.1	10/12/2011 1:36	60.0	11/12/2011 2:46	58.9	12/12/2011 3:56	56.0	13/12/2011 5:06	57.5	14/12/2011 6:16	59.5
9/12/2011 0:31	64.7	10/12/2011 1:41	59.6	11/12/2011 2:51	58.2	12/12/2011 4:01	55.3	13/12/2011 5:11	57.2	14/12/2011 6:21	60.2
9/12/2011 0:36	59.9	10/12/2011 1:46	59.5	11/12/2011 2:56	59.3	12/12/2011 4:06	55.8	13/12/2011 5:16	57.2	14/12/2011 6:26	60.9
9/12/2011 0:41	62.2	10/12/2011 1:51	60.0	11/12/2011 3:01	58.1	12/12/2011 4:11	53.8	13/12/2011 5:21	57.9	14/12/2011 6:31	61.6
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9/12/2011 1:21	59.4	10/12/2011 2:31	59.7	11/12/2011 3:41	57.6	12/12/2011 4:51	56.1	13/12/2011 6:01	59.9	14/12/2011 23:11	62.0
9/12/2011 1:26	59.7	10/12/2011 2:36	59.1	11/12/2011 3:46	58.2	12/12/2011 4:56	55.0	13/12/2011 6:06	60.4	14/12/2011 23:16	61.5
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9/12/2011 1:56	58.0	10/12/2011 3:06	58.3	11/12/2011 4:16	58.1	12/12/2011 5:26	58.0	13/12/2011 6:36	62.1	14/12/2011 23:46	61.0
9/12/2011 2:01	58.3	10/12/2011 3:11	58.6	11/12/2011 4:21	57.6	12/12/2011 5:31	56.4	13/12/2011 6:41	62.5	14/12/2011 23:51	60.9
9/12/2011 2:06	58.7	10/12/2011 3:16	58.4	11/12/2011 4:26	58.3	12/12/2011 5:36	62.0	13/12/2011 6:46	63.5	14/12/2011 23:56	61.6
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9/12/2011 2:16	58.1	10/12/2011 3:26	60.1	11/12/2011 4:36	57.0	12/12/2011 5:46	57.9	13/12/2011 6:56	63.7	15/12/2011 0:06	60.5
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9/12/2011 2:26	57.5	10/12/2011 3:36	58.3	11/12/2011 4:46	57.9	12/12/2011 5:56	57.2	13/12/2011 23:06	62.1	15/12/2011 0:16	61.0
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9/12/2011 2:46	57.0	10/12/2011 3:56	57.8	11/12/2011 5:06	58.0	12/12/2011 6:16	59.7	13/12/2011 23:26	61.4	15/12/2011 0:36	59.9
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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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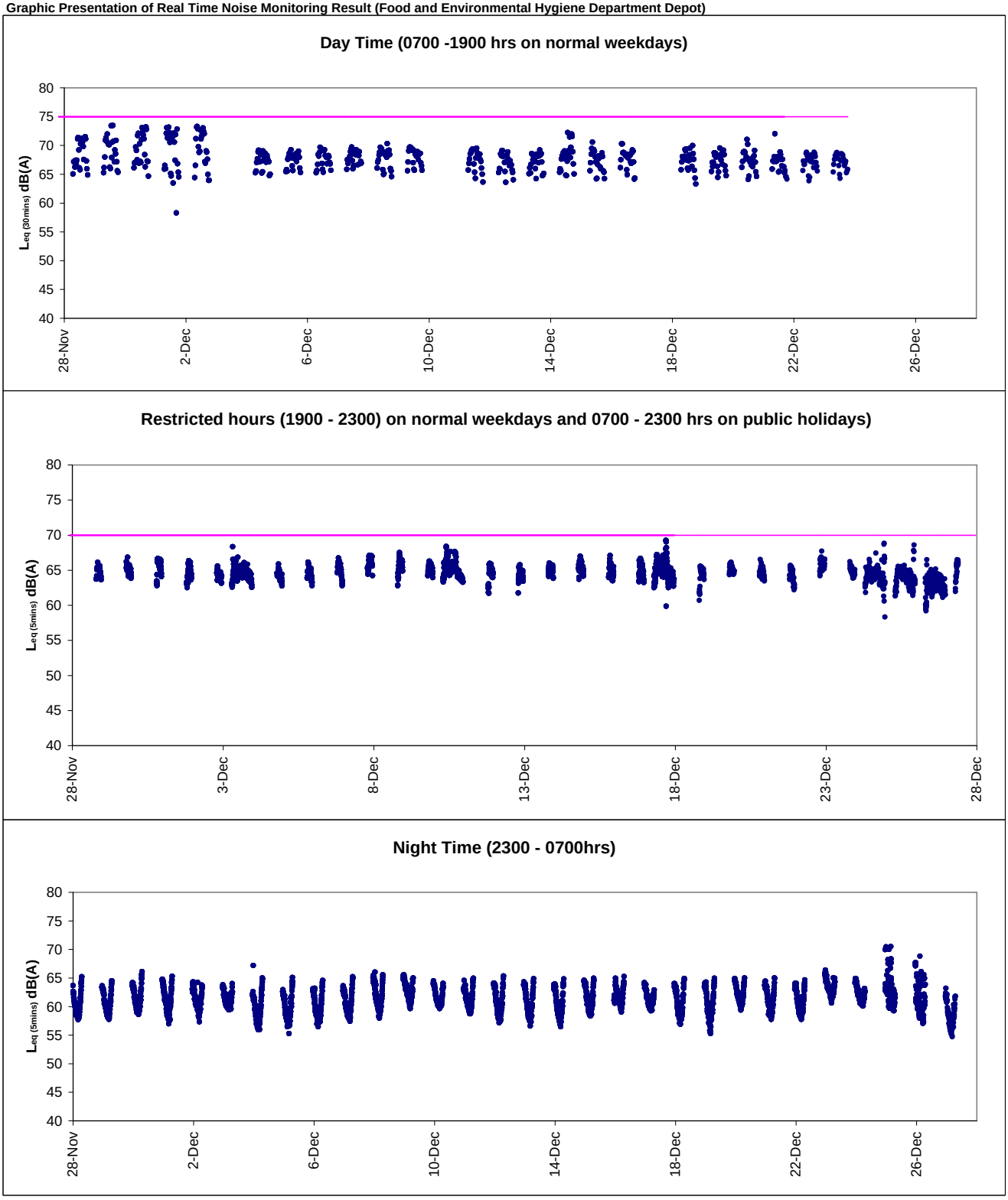
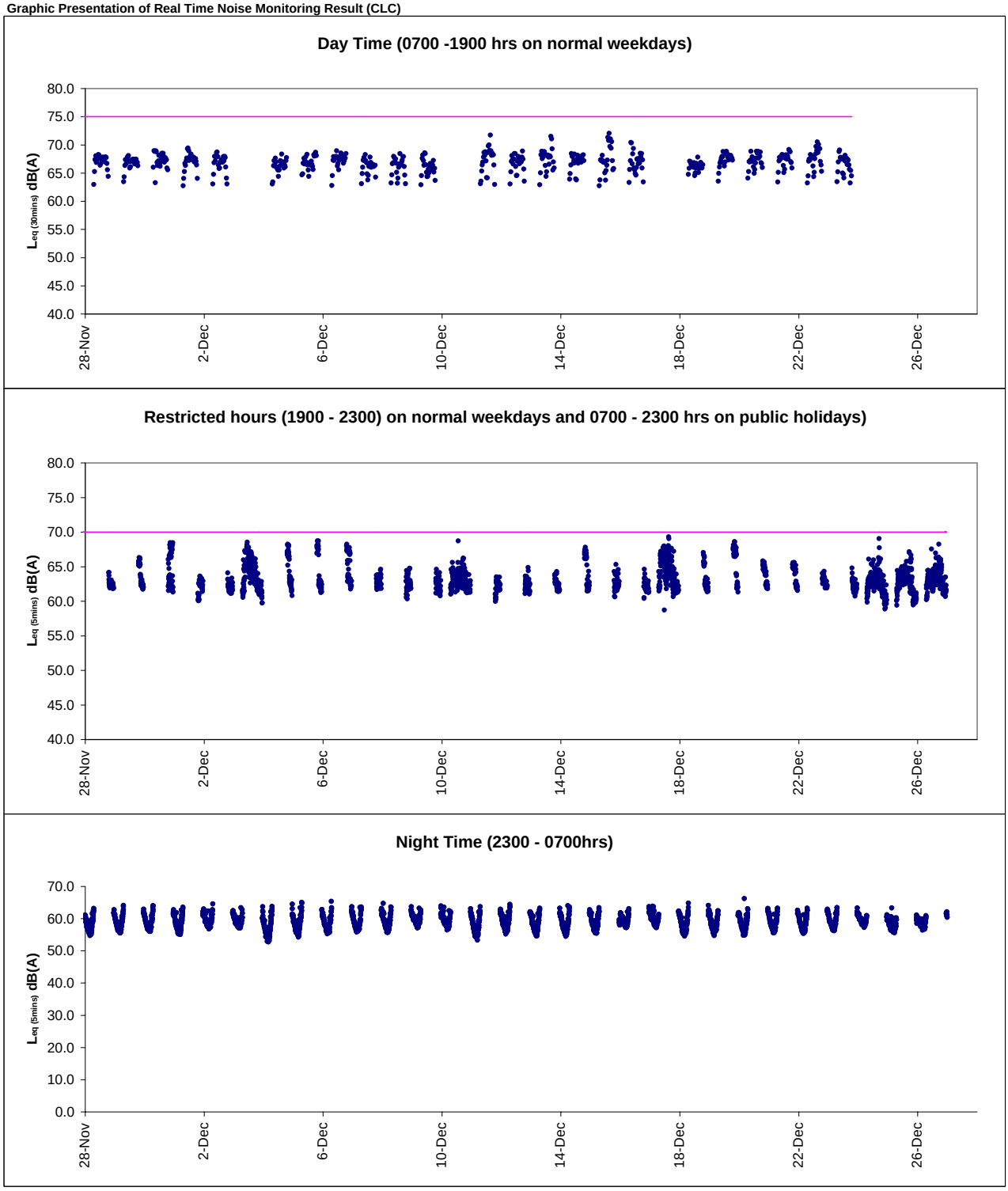
*Exceedance recorded during monitoring compliance check with NCO.

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



Graphic Presentation of Real Time Noise Monitoring Result (CLC)



Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Event / Action Plan for Construction Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Event and Action Plan for Marine Water Quality

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

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

Event and Action Plan for Odour Patrol

Event	ACTION	
	Person-in-charge of Odour Monitoring	**Implementation Agent Identified by CEDD**
Action Level		
Exceedance of Action Level	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.

Appendix 6.2

Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W290	28-Nov-11	Mid-flood	WSD19	DO (mg/L)	5.90	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**11.13**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of pipe pile wall at Tsim Sha Tsui. According to the Contractor's inspection records, the silt screen was in proper condition on 28 Nov 2011.
				Suspended Solid	12.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD19 was in proper condition, the exceedance was considered not project related exceedance.
X_W291	28-Nov-11	Mid-flood	WSD20	DO (mg/L)	5.93	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**14.60**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of pipe pile wall at Tsim Sha Tsui. According to the Contractor's inspection records, the silt curtain was in proper condition on 28 Nov 2011.
				Suspended Solid	**23.00**	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD20 was in proper condition, the exceedance was considered not project related exceedance.
X_W292	28-Nov-11	Mid-flood	WSD7	DO (mg/L)	5.70	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**10.22**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of pipe pile wall at Tsim Sha Tsui. According to the Contractor's inspection records, the silt screen was in proper condition on 28 Nov 2011.
				Suspended Solid	**16.50**	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD7 was in proper condition, the exceedance was considered not project related exceedance.

Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W293	30-Nov-11	Mid-flood	WSD20	DO (mg/L)	5.79	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**12.28**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of temporary working platform at Tsim Sha Tsui. According to the Contractor's inspection records, the silt curtain was in proper condition on 30 Nov 2011.
				Suspended Solid	**20.00**	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD20 was in proper condition, the exceedance was considered not project related exceedance.
X_W294	30-Nov-11	Mid-flood	WSD7	DO (mg/L)	6.19	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**9.08**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of temporary working platform at Tsim Sha Tsui. According to the Contractor's inspection records, the silt screen was in proper condition on 28 Nov 2011.
				Suspended Solid	7.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD7 was in proper condition, the exceedance was considered not project related exceedance.
X_W295	2-Dec-11	Mid-flood	WSD20	DO (mg/L)	6.05	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**8.38**	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. Checking with Contractor's records, there was installation of installation of sheet pile, removal of rock armour and filling at water channel located in Wan Chai and installation of pipe pile wall at Tsim Sha Tsui. According to the Contractor's inspection records, the silt screen was in proper condition on 28 Nov 2011.
				Suspended Solid	**14.50**	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD20 was in proper condition, the exceedance was considered not project related exceedance.
X_W296	13-Dec-11	Mid-Flood	WSD15	DO (mg/L)	6.78	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.36	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. According to RSS information, construction of seawall cassionss and seawall blocks were completed on 13 Dec 2011 by contractor HY/2009/11. Contractor responsible for the maintenance silt screen at WSD15 was recommended to increase the frequency of silt screen cleaning work.
				Suspended Solid	**19.00**	13.00	14.43	Remarks / Other Obs:	In view that WSD15 was located in upstream of the Project during flood tide and the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was definitely non-works related under the Project.

Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W297	15-Dec-11	Mid-Flood	WSD7	DO (mg/L)	7.13	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.91	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances of turbidity. According to the Contractor's inspection records, the silt screen was in proper condition on 15 Dec 2011.
				Suspended Solid	**15.50**	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen at WSD7 was in proper condition, the exceedance was considered not project related exceedance.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C349	28-Nov-11	Mid-flood	C8	DO (mg/L)	5.85	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	**9.78**	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 28 Nov 2011, the major marine activities was installation of berm blocks where at the Open Channel U.
				SS (mg/L)	13.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C350	28-Nov-11 2:37	Mid-ebb	C4e	DO (mg/L)	6.22	3.36	2.73	Possible reason:	Accumulation of particles inside the silt screen was observed during water monitoring
				Turbidity (NTU)	5.65	9.1	10.25	Action taken / to be taken:	Notification of exceedances were immediately provided to Contractor of HK/2009/01, RE and IEC when the exceedances were recorded. Contractor works and Contractor's daily records were also checked. There was no marine and land-based construction activities at that night. The frame type silt screen at intake and silt curtain along the western seawall were deployed in proper condition during the water monitoring.
				SS (mg/L)	**25.00**	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no any construction activities on that night, the exceedance was considered to be caused from the accumulation of particles inside the silt screen and not related to the Project works.
X_10C351	28-Nov-11 3:47	Mid-ebb	C5e	DO (mg/L)	4.91	3.36	2.73	Possible reason:	Accumulation of particles inside the silt screen
				Turbidity (NTU)	**9.99**	9.1	10.25	Action taken / to be taken:	Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. After checking contractor's works, there was no marine and land-based construction activities at that night. The frame type silt screen at intake and silt curtain along the western seawall were deployed in proper condition during the water monitoring.
				SS (mg/L)	**19.00**	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no any construction activities on that night, the exceedance was considered to be possible caused from the accumulation of particles inside the silt screen and not related to the Project works.
X_10C352	2-Dec-11	Mid-flood	C9	DO (mg/L)	6.61	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	**9.36**	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 2 Dec 2011, the major marine activities was trimming the Stone G400 profile where at Bay 7.
				SS (mg/L)	10.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C353	2-Dec-11	Mid-flood	C8	DO (mg/L)	6.80	3.36	2.73	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
				Turbidity (NTU)	**9.42**	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 2 Dec 2011, the major marine activities was trimming the Stone G400 profile where at Bay 7.
				SS (mg/L)	12.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that silt curtain was in proper condition during monitoring, the exceedances were considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C354	9-Dec-11	Mid-Flood	C5w	DO (mg/L)	7.26	3.36	2.73	Possible reason:	Accumulation of fine particles around the intake and inside silt screen
				Turbidity (NTU)	5.07	9.1	10.25	Action taken / to be taken:	Checked with the contractor marine work activities on 9 Dec 2011, the construction activities as follow: 1. Installation of steel brackets on pitched pile casings, stripping of redundant steel casing of pitched pile, hacking pile head concrete in new ferry pier area; 2. Installation of HDPE pipe in submarine outfall area; and 3. Loading of to-be-disposed sorted public fill on flat top barge mooring at seawall T5 area. The fine particle was also found in the weekly site inspection on 8 Dec 2011 and Contractor removed immediately in the afternoon on 8 Dec 2011 after identified during weekly inspection. Those fine particles was unlikely caused from the construction activities, which was considered caused by wave / tidal effect and then accumulated near intake. As such, the contractor was recommended to increase the frequency of removal of floating debris and fine particles near the intakes whenever it is necessary.
				SS (mg/L)	**30.50**	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that proper silt screen and silt curtain were in proper condition during monitoring, the exceedance was considered to be caused from the accumulation of fine particles inside silt screen and not related to the Project works.
X_10C355	17-Dec-11	Mid-Flood	C3	DO (mg/L)	4.43	3.36	2.73	Possible reason:	Possible caused by the accumulation of particles inside the silt screen
				Turbidity (NTU)	4.22	9.1	10.25	Action taken / to be taken:	Checking with Contractor's works on 17 Dec 2011, there were filling at water channel, installation of sheetpile and grabing rock armours conducted at that day. The silt screen and silt curtain were observed in proper condition during monitoring. The frame type silt curtain for rock bund and silt curtain along the western seawall were deployed and observed in proper condition during the water monitoring..
				SS (mg/L)	**17.50**	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that proper silt curtain and silt screen were in proper condition during monitoring, the exceedances were considered to be possible caused from the accumulation of particles inside the silt screen and not related to the Project works.
X_10C356	26-Dec-11	Mid-Ebb	C4w	DO (mg/L)	4.40	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station or the variation of the ambient change
	2:07			Turbidity (NTU)	3.41	9.1	10.25	Action taken / to be taken:	Checking with Contractor's works on 12 Nov 2011, there was no marine works conducted at that night. The silt screen and silt curtain were observed in proper condition during monitoring.
				SS (mg/L)	**30.00**	15.00	22.13	Remarks / Other Obs:	In view that no any marine work was conducted, it was concluded not related to the Project.
X_10C357	23-Dec-11	Mid-Flood	Ex-WPCWA SE (bottom)	DO (mg/L)	**5.30**	5.36	5.35	Possible reason:	Possible in relation to the low flow and low water depth
								Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was no marine activities conducted at ex-PCWA.
								Remarks / Other Obs:	In view that there was no odour was detected during monitoring, it was considered not related to Project works.

Appendix 9.1

Complaint Log

Environmental Complaints Log

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. 3) No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 3) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period. 4) It is considered as invalid from the EP and CNP point of view.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. 3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no.. WSD15)	1) Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen. 2) Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint. 3) Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	Closed
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period. 3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine Department	North Point	Bad odour was generated from the dredging plant off North Point	1) The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work. 2) A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation. 3) Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	Closed
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1) ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot-light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; • Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; • Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; • No starting work on 7 Dec 2010 at 0630hours. 2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; 3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; 6) No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 2) Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. 3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 4) It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile 5) The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1-272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. 2) There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre. 3) It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1) The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. 2) According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection. 3) In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor. 4) A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works. 5) Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon-wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	1) Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period 2) Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. 3) Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. 4) Referring to the record provided by Cayley Property Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	Closed
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	1) ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011. 2) The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident. 3) According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) No noise exceedance was recorded at construction noise	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	1) It was referred by AECOM to ET on 28 July 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	Closed
	08/08/2011				4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011. 5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed. *Remarks: There will be counted as two complaints in this complaint log.*	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1) It was referred by AECOM to ET on 17 August 2011. 2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint. 3) Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. 4) Contractors were advised to relocate the loose materials	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. 2) The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period. 3) The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint. 4) Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening. 5) Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed. 6) Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	Closed
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1) It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. • An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project	Closed

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

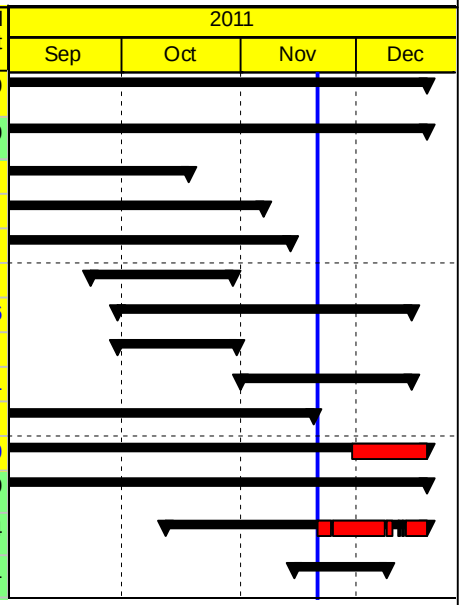
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	1) ET confirmed with the Resident Site Staff that • A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. • Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	

Appendix 10.1

Construction Programme of Individual Contracts

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

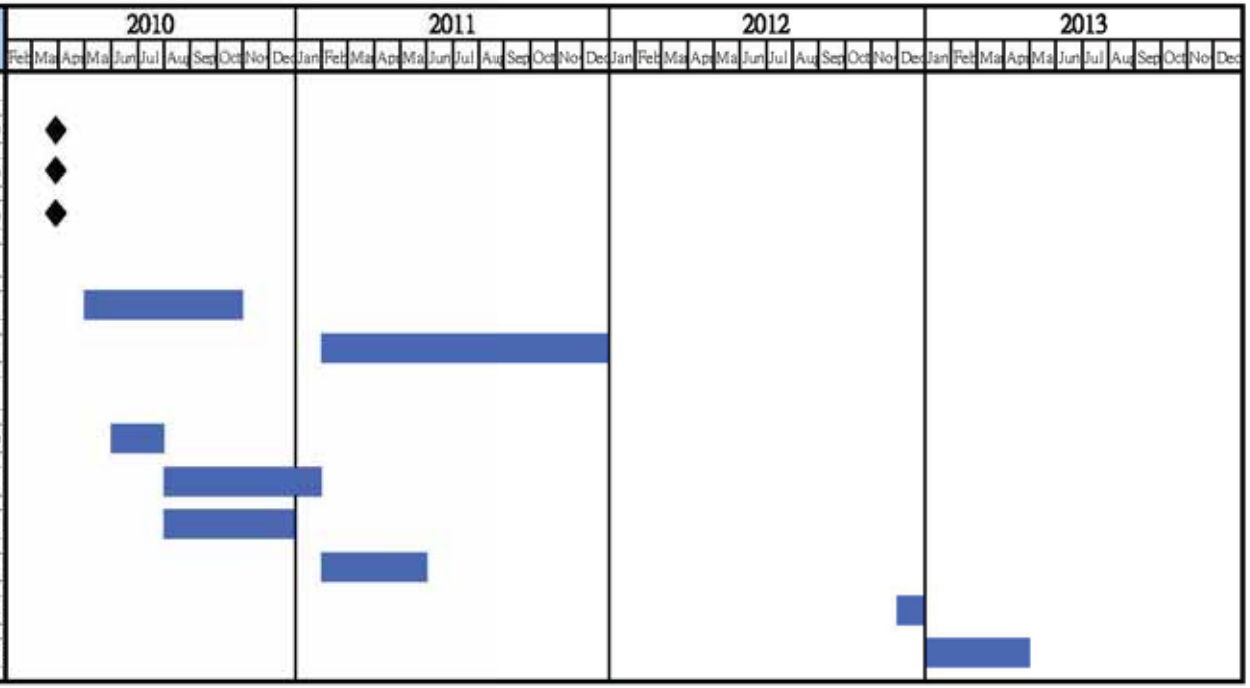


Contract No. HK/2009/01

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

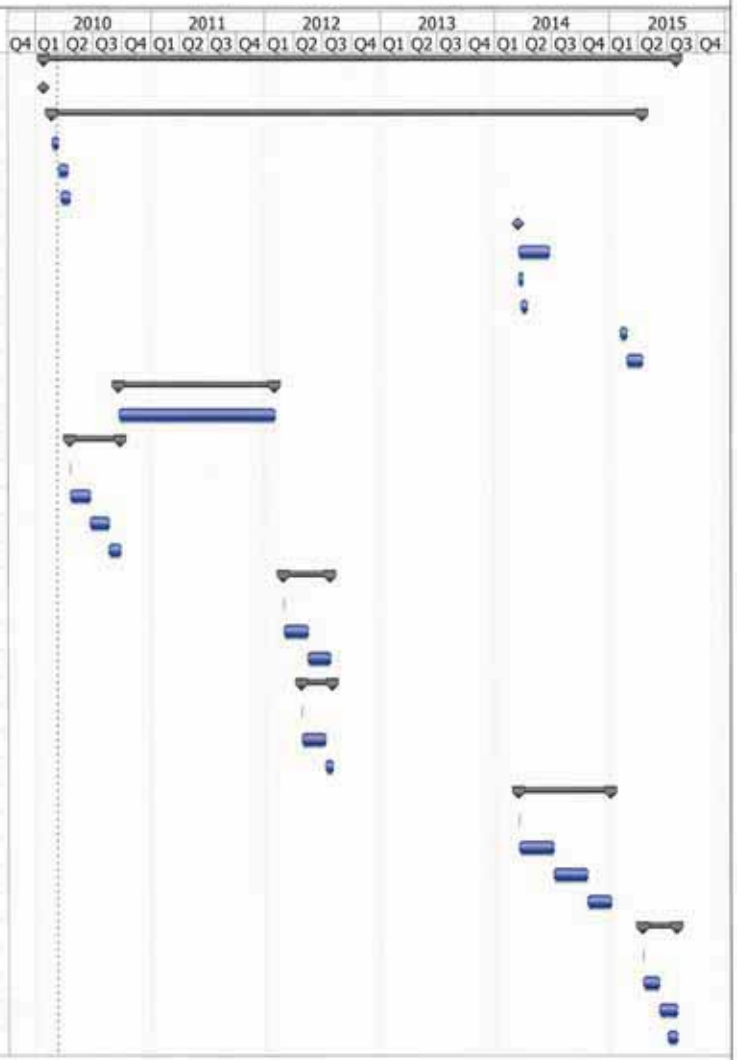
Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH
Submissions before Works Commencement		
Submit silt curtain deployment plan	31/3/10	31/3/10
Submit silt screen deployment plan	31/3/10	31/3/10
Submit measures to mitigate noise impact	31/3/10	31/3/10
Cross Harbour Watermains from WCN to TST (DP6)		
Trench dredging for marine watermains installation	29/4/10	28/10/10
Backfilling for watermain	28/1/11	14/12/11
Reclamation Works at HKCEC Water Channel (DP3)		
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13



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

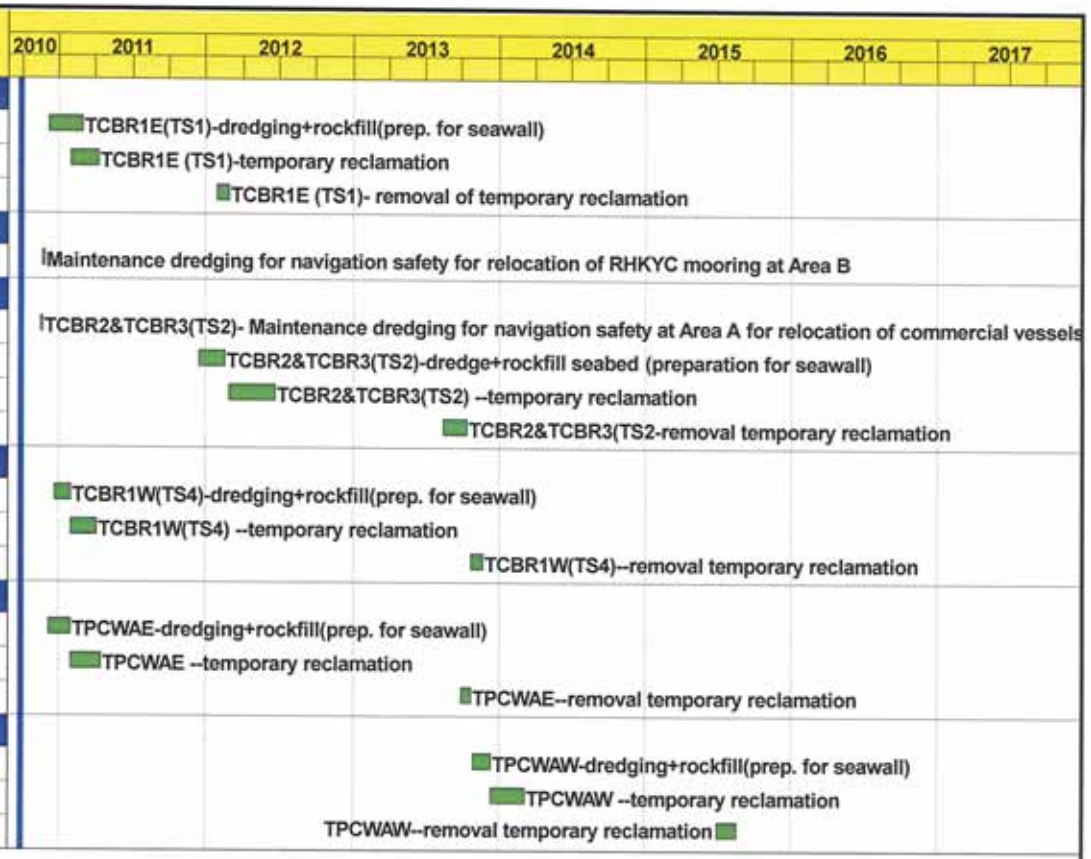
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's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



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

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

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



Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

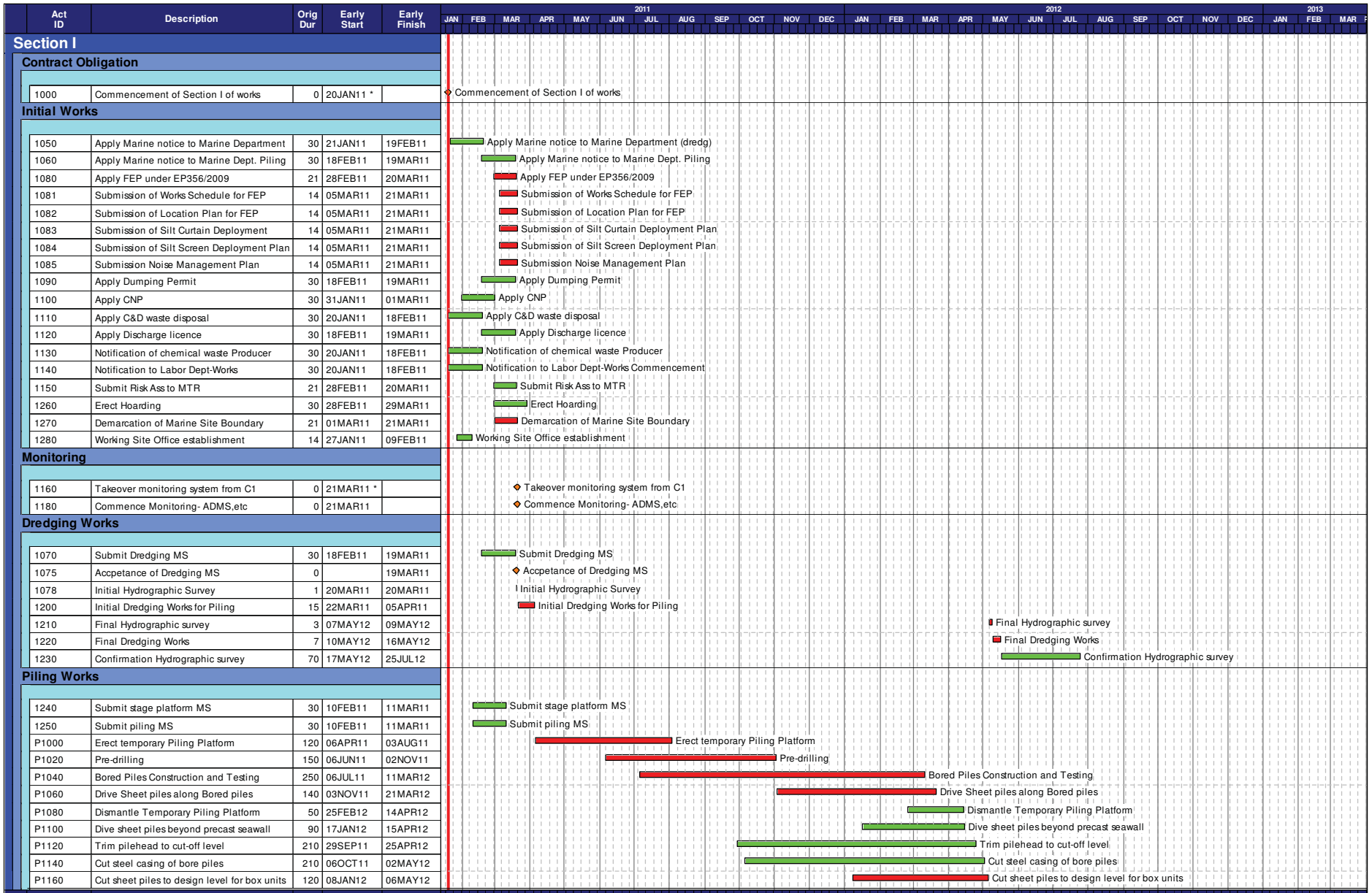
EP02

CHINA STATE CONSTRUCTION ENGG LTD

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

Prepared based on IWP Rev. 0

Date Prepared: 28 Oct 2010



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

GAMMON-LEADER JV

Works Schedule of Marine Works for EP-356/2009

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