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 AND FEP-03/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT - SEPTEMBER 2010 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CHECKED BY:

Raymond Dai

Environmental Team Leader

DATE:

11 October 2010



Ref.: AACWBIECEM00 0 0533L.10

13 October 2010

By Post and Fax (2691 2649)

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

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (September 2010) for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009 and FEP-03/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for September 2010 dated 11 October 2010.

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

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

Yours sincerely,

David Yeung

Independent Environmental Checker

HyD c.c.

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 – September 2010 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009 and FEP-03/356/2009. This report presents the environmental monitoring findings and information recorded during the period 28th August 2010 to 27th September 2010. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HY/2009/11 included:
 - Floating Out of Caisson Seawall,
 - · Installation of Caisson Seawall,
 - · Dredging works,
 - Reclamation works,
 - Construction & installation of Seawall Block,
 - Works for Fenders and rubber steps and
 - Pre-casting works for coping
- iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included:
 - Modification of CATV combine service inspection chamber. In addition, trial pit at HKCEC VIP Drop-Off area is ongoing;
 - · Construction of trial bored pile construction;
 - Dredging works for cross harbour watermains at Central Fairway;
 - Trial dredging at south side of HKCEC water channel was commenced on 7 Sept 10;
 - Cutting of abandoned piles at HKCEC water channel was completed on 20 Sept 10;
 - Dismantling of existing sloping seawall and removal of armor rocks at north-west side of water channel;
 - Trial pits construction for determination of pipeline alignment at Convention Avenue;
 - Preparation and excavation works for pipe laying of salt water main at Harbour Road:
 - Trial pits construction for determination of pipeline alignment and connection for cross harbour water mains at Tsim Sha Tsui and Wan Chai Fenwick Pier Street;
 - The fabrication of elbow sections of cross harbour submarine pipes;
 - The assembling of tailor made dredging crane barge.
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Site Cleaning and Tidying;
 - Temporary Hoarding Erection;
 - Pre-bored H-piles, ELS and excavation at WSD Pumping Station;
 - Construction of Salt Water Intake Culvert at Pet Garden;
 - Road Modification and Improvement Works;



- Construction of Cooling Mains Along Public Road;
- · Demolition of Finger Pier;
- Construction of Temporary Seawall;
- Dredging of WCR 1;
- · Tree Transplanting; and
- Plant Trial of TKO 137 Sorting Facility

Noise Monitoring

v. Noise monitoring during day time and evening time were conducted at the City Garden, Victoria Centre and Harbour Road Sports Center on a weekly basis in the reporting month. Five limit level exceedances were recorded at Victoria Centre on 31 August and 21 September 2010 during daytime period and at Harbour Road Sports Centre on 31 August, 7 and 14 September 2010 during the evening time period. Investigation found that exceedances were not related to the Project.

Air Quality Monitoring

vi. Air quality monitoring has been conducted at stations CMA1a – Oil Street Community Liaison Centre and CMA2a – Causeway Bay Community Centre. No exceedance was recorded in the reporting month.

Water Quality Monitoring

vii. Water quality monitoring at 17 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table I*. Investigations were found that the exceedances are not related to the Project works. The details of the exceedances can be referred to Section 5.3 and 6.3 of the report.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water Monitoring Station	Mid-flood					Mid-ebb						
Contract no.		D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	1	0	0	0	0	0
	WSD10	0	0	0	0	1	0	1	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	1	0	0	0	1
	WSD17	0	0	0	0	0	0	3	0	0	0	0	1
	C8	1	0	0	1	1	0	1	0	0	2	3	1
	C9	0	0	0	0	2	0	1	0	2	0	5	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	1	1	0	0	0
	WSD20	0	0	1	0	0	0	1	0	0	1	0	1
	WSD7	0	0	0	1	0	1	1	1	0	0	1	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0



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		Mid-flood				Mid-ebb							
	Water Monitoring Station	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	C2	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	1	0	2	1
	C4e	0	0	0	0	0	0	0	0	0	1	1	0
	C4w	0	0	0	0	0	0	0	0	1	0	1	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	0	1	2	0
	WSD21	1	0	0	0	0	0	1	0	1	0	0	0
	Total	2	0	1	2	4	1	10	3	6	5	15	5

viii. Turbidity and SS exceedances at stations C3 and C4e were recorded on 8 September 2010 at mid-ebb during the undertaken of trial dredging at south side of HKCEC. Silt screen and silt curtain were inspected in proper condition during the trial dredging. No further dredging works was carried out after this monitoring date. It cannot be concluded the exceedances were not related to the Project. Since the dredging works was carried out in close proximity of the intakes, Contractor was reminded to ensure all mitigation measures be properly implemented.

Complaints, Notifications of Summons and Successful Prosecutions

ix. No environmental complaint was received in the reporting month.

Site Inspections and Audit

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

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

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

- Floating Out of Caisson Seawall,
- Installation of Caisson Seawall,
- · Dredging works,
- Reclamation works,
- · Construction & installation of Seawall Block and
- · Pre-casting works for coping.

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



HKCEC

- Installation of pipe pile wall at West Bridge and trial bored pile for tunnel and excavation;
- Dredging works and removal of rock armour for existing sloping seawall at HKCEC water channel;
- Dredging works for cross harbour watermains;
- Commencement of temporary jetty construction;
- Implementation of TTM scheme for trial pit at Convention Avenue (Area A1);
- Implementation of TTM scheme for pipe laying at Convention Avenue (Area A1) for cooling water main and Harbour Road (Area A5) for salt water main and optic fibre;
- Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water main at Expo Drive near HKCEC (Area B1);
- Tree transplantation at Wan Chai and Tsim Sha Tsui;
- Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC;
- Additional coring for pipe sleeve and puddle flange opening at Pump Station Nos. 1, 3,
 4 & 5; and
- Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5

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

- Site Cleaning and Tidying;
- Temporary Hoarding Erection;
- Pre-bored H-piles, ELS and excavation at WSD Pumping Station;
- Construction of Salt Water Intake Culvert at Pet Garden;
- · Road Modification and Improvement Works;
- Construction of Cooling Mains Along Public Road;
- Demolition of Finger Pier;
- Construction of Temporary Seawall;
- Dredging and Backfilling of WCR 1;
- Tree Transplanting; and
- Plant Trial of TKO 137 Sorting Facility



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 and FEP-03/356/2009 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 and FEP-03/356/2009 during the period 28th August to 27th September 2010. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- **Section 3 Status of Regulatory Compliance** summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects -



summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

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

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

Section 10 Conclusion



2. PROJECT BACKGROUND

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.

2.2.3. The scope of the Project comprises:

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



- Extension, modification, 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	DP3, DP6	23 July 2010
	Convention and Exhibition Centre	DP1, DP2	Pending
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010
	Central – Wan Chai Bypass at WanChai East	DP1	Pending
HY/2009/11	Wan Chai Development Phase II and Central - Wan Chai Bypass - North Point Reclamation	DP3	17 March 2010

2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in <u>Figure 2.2</u>. Key personnel and contact particulars are summarized in **Table 2.3**:

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principle Resident Engineer	Mr. Frankie Fan	2607 7801	2687 2322
	Engineer for CWB	Principle Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
China Harbour-	our- under Contract Director C Joint no.	Mr. Cho Yu Fun	3157 1086	3157 1085	
CRBC Joint Venture			Mr. Gregory Wong	3157 1086	
		Site Agent	Mr. Daniel Cheung	3157 1086	
			Mr. C. M. Wong	3157 1086	
Chun Wo –	Contractor	Site Agent	Paul Yu	9456 9819	2634 1626
Leader Joint Venture	under Contract no. HK/2009/01	Operation Manager	Lau Yee Ching	9466 3918	
		Construction Manager	David Wong	9653 8635	
		Construction Manager	Wilson Lau	5183 1270	



Party	Role	Post	Name	Contact No.	Contact Fax
		Construction Manager	Chan Mui Sang	9864 8615	
		Environmental Officer (Compliance Manager)	Brian Wan	9312 2827	
		Environmental Engineer	Shelton Chan	5395 5470	
Chun Wo – CRGL Joint	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658 3002	2827 9996
Venture		Site Agent	Mr. Eric Lam	3658-3048	
		Environmental Officer (Compliance Manager)	Mr. Barry Leung	3658 3031	
		Environmental Engineer	Ms. Flora Ng	3658-3064	
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:
 - Floating Out of Caisson Seawall;
 - Installation of Caisson Seawall;
 - Dredging works;
 - · Reclamation works:
 - · Construction & installation of Seawall Block;
 - · Works for Fenders and rubber steps; and
 - Pre-casting works for coping
- 2.4.4. For Contract no. HK/2009/01, the principal work activities in this reporting month included:
 - Modification of CATV combine service inspection chamber. In addition, trial pit at HKCEC VIP Drop-Off area is ongoing;
 - Construction of trial bored pile construction;
 - Dredging works for cross harbour watermains at Central Fairway;
 - Trial dredging at south side of HKCEC water channel was commenced on 7 Sept 10;
 - Cutting of abandoned piles at HKCEC water channel was completed on 20 Sept 10;
 - Dismantling of existing sloping seawall and removal of armor rocks at north-west side of water channel;
 - Trial pits construction for determination of pipeline alignment at Convention Avenue;



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- Preparation and excavation works for pipe laying of salt water main at Harbour Road;
- Trial pits construction for determination of pipeline alignment and connection for cross harbour water mains at Tsim Sha Tsui and Wan Chai Fenwick Pier Street;
- The fabrication of elbow sections of cross harbour submarine pipes;
- The assembling of tailor made dredging crane barge.
- 2.4.5. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Site Cleaning and Tidying;
 - Temporary Hoarding Erection;
 - Pre-bored H-piles, ELS and excavation at WSD Pumping Station;
 - Construction of Salt Water Intake Culvert at Pet Garden;
 - Road Modification and Improvement Works;
 - Construction of Cooling Mains Along Public Road;
 - · Demolition of Finger Pier;
 - Construction of Temporary Seawall;
 - Dredging of WCR 1;
 - Tree Transplanting; and
 - Plant Trial of TKO 137 Sorting Facility
- 2.4.6. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

- · Floating Out of Caisson Seawall;
- Installation of Caisson Seawall;
- Dredging works;
- Reclamation works;
- · Construction & installation of Seawall Block; and
- Pre-casting works for coping.

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

- Installation of pipe pile wall at West Bridge and trial bored pile for tunnel and excavation:
- Dredging works and removal of rock armour for existing sloping seawall at HKCEC water channel;
- Dredging works for cross harbour watermains;
- · Commencement of temporary jetty construction;
- Implementation of TTM scheme for trial pit at Convention Avenue (Area A1);



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- Implementation of TTM scheme for pipe laying at Convention Avenue (Area A1) for cooling water main and Harbour Road (Area A5) for salt water main and optic fibre;
- Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water main at Expo Drive near HKCEC (Area B1);
- Tree transplantation at Wan Chai and Tsim Sha Tsui;
- Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC;
- Additional coring for pipe sleeve and puddle flange opening at Pump Station Nos. 1, 3,
- Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5

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

- Site Cleaning and Tidying;
- Temporary Hoarding Erection;
- Pre-bored H-piles, ELS and excavation at WSD Pumping Station;
- Construction of Salt Water Intake Culvert at Pet Garden;
- Road Modification and Improvement Works;
- Construction of Cooling Mains Along Public Road;
- Demolition of Finger Pier;
- Construction of Temporary Seawall;
- Dredging and Backfilling of WCR 1;
- Tree Transplanting; and
- Plant Trial of TKO 137 Sorting Facility



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-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 July 2010	Valid

3.1.2. Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	N/A	Valid
Notification of Works Under APCO	314911	9 Mar 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0371-10	7 May 2010	10 May 2010 to 31 Oct 2010	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0534-10	22 Jun 2010	29 Jun 2010 to 28 Dec 2010	Valid
Billing Account under Waste Disposal Ordinance	7010037	13 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/10-067	10 Mar 2010	10 Mar 2010 to 9 Sep 2010	Expired
	EP/MD/10-055	26 Aug 2010	10 Sep 2010 to 30 Dec 2010	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/11-044	2 Aug 2010	10 Aug to 9 Sep 2010	Expired
Type 2 – Confined Marine Disposal)	EP/MD/11-062	2 Sep 2010	10 Sep 2010 to 9 Oct 2010	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 Dec 2009
Condition 2.7	Submission of works schedule and location plan	8 Feb 2010
Condition 2.8	Silt Curtain Deployment Plan	25 Feb 2010
Condition 2.9	Silt Screen Deployment Plan	25 Feb 2010
	Revised Silt Screen Deployment Plan	10 May 2010
Condition 2.10	Coral Translocation Plan	20 Nov 2009
Condition 2.16	Noise Management Plan	1 Mar 2010
	Revised Noise Management Plan	28 Sep 2010
Condition 2.17	Landscape Plan	12 May 2010
	Revised landscape Plan	30 Jun 2010
	Submission of Supplementary Information - Revised Management & Maintenance Schedule for Submitted Revised Landscape Plan	25 Aug 2010

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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 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
Further Environmental Permit	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-RS0313-10	16 Apr 2010	16 Apr 2010 to 14 Sep 2010	Expired
	GW-RS0328-10	22 Apr 2010	22 Apr 2010 to 15 Oct 2010	Valid
	GW-RS0333-10	21 Apr 2010	21 Apr 2010 to 14 Sep 2010	Expired
	GW-RS0336-10	21 Apr 2010	21 Apr 2010 to 14 Sep 2010	Expired
	GW-RS0554-10	25 Jun 2010	28 Jun 2010 to 30 Sep 2010	Valid
	GW-RS0763-10	1 Sep 2010	14 Sep 2010 to 14 Mar 2011	Valid
	GW-RS0771-10	1 Sep 2010	1 Sep 2010 to 28 Feb 2011	Valid
	GW-RS0772-10	3 Sep 2010	15 Sep 2010 to 14 Mar 2011	Valid
	GW-RS0819-10	15 Sep 2010	16 Sep 2010 to 15 Mar 2011	Valid
Discharge Licence	WT00006220- 2010	18 Mar 2010	31 Mar 2015	Valid
Registration as a Waste Producer	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/10-060	30 Apr 2010	4 May to 3 Nov 2010	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/11-041	31 Aug 2010	1 to 30 Sep 2010	Expired
Type 2 - Confined Marine Disposal)	EP/MD/11-071	22 Sep 201	1 to 31 Oct 2010	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
Conditions 2.8	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
Condition 2.17	Noise Management Plan	23 Apr 2010
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
Futurer Environmental Fermit	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0016-10	14 Apr 2010	1 Jun 2010 to 31 Nov 2010	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0132-10	22 Feb 2010	01 Apr to 30 Sep 2010	Valid
	GW-RS0327-10	16 Apr 2010	30 Apr to 30 Sep 2010	Valid
	GW-RS0653-10	30 July 2010	1 Aug 2010 to 31 Jan 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0777-10	13 Sept 2010	01 Oct 2010 to 31 Mar 2011	Valid
	GW-RS0817-10	17 Sept 2010	17 Sep 2010 to 16 Nov 2010	Valid
	WT00006249- 2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436- 2010	15 Apr 2010	30 Apr 2015	Valid
Discharge Licence	WT00006673- 2010	14 May 2010	31 Mar 2015	Valid
	WT00006757- 2010	28 May 2010	31 May 2015	Valid
	WT00007129- 2010	28 July 2010	31 Jul 2015	Valid
Billing Account under Waste Disposal Ordinance	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-135- C3593-01	10 Mar 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/10-069	6 May 2010	6 May to 5 Nov 2010	Valid
Dumping Permit (Type 1 – Open	EP/MD/11-043	28 July 2010	6 Aug - 5 Sept 2010	Expired
Sea Disposal (Dedicate Sites) & Type 2 - Confined Marine	EP/MD/11-059	24 Aug 2010	6 Sept 2010- 5 Oct 2010	Valid
disposal)	EP/MD/11-072	22 Sep 2010	6 Oct 2010 – 5 Nov 2010	Valid

Table 3.7 Summary of submission status under FEP-03/356/2009 Condition

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan	20 April 2010
Condition 2.9	Silt Screen Deployment Plan	21 April 2010



EP Condition	Submission	Date of Submission
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
	Landscape Plan (Control of Night Time Lighting)	2 June 2010

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



4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. 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.
- 4.1.3. 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.
- 4.1.4. 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

4.1.5. 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.
- 4.1.6. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 4.1.7. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*.
Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Air Monitoring Station

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay
CMA3a	Future CWB site office at Wanchai Waterfront Promenade	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Playgrounds opposite to Pedestrian Plaza	Wan Chai
CMA6a	Future AECOM site office at Work Area	Wan Chai

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP



monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
 - 0.6 1.7 m3 per minute adjustable flow range;
 - equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
 - installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
 - capable of providing a minimum exposed area of 406 cm2;
 - flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
 - equipped with a shelter to protect the filter and sampler;
 - incorporated with an electronic mass flow rate controller or other equivalent devices;
 - equipped with a flow recorder for continuous monitoring;
 - provided with a peaked roof inlet;
 - · incorporated with a manometer;
 - able to hold and seal the filter paper to the sampler housing at horizontal position;
 - · easily changeable filter; and
 - capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labeled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.



4.3 Water Quality Monitoring

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

Water Quality Monitoring Stations

4.3.2. It is proposed to monitor the water quality at 9 WSD salt water intakes and 12 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing	
WSD Salt Water Int	WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3	
WSD9	Tai Wan	837921.0	818330.0	
WSD10	Cha Kwo Ling	841900.9	817700.1	
WSD15	Sai Wan Ho	841110.4	816450.1	
WSD17	Quarry Bay	839790.3	817032.2	
WSD19	Sheung Wan	833415.0	816771.0	
WSD20	Kennedy Town	830750.6	816030.3	
WSD21	Wan Chai	836220.8	815940.1	
RW1	Wan Chai (Reprovision)	836188.8	815911.1	
Cooling Water Inta	ke			
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	
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2	
C6	World Trade Centre	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	



Station Ref.	Location	Easting	Northing
RC5	Sun Hung Kai Centre (Reprovision)	836291.4	816029.7
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6

WATER QUALITY PARAMETERS

- 4.3.3. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 4.3.4. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.5. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 4.4* 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 4.4 Marine Water Quality Monitoring Frequency and Parameters

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

Notes:

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.6. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius



- 4.3.7. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.8. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

SALINITY

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

MONITORING POSITION EQUIPMENT

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

CALIBRATION OF IN-SITU INSTRUMENTS



- 4.3.15. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.16. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.17. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.18. Current calibration certificates of equipments are presented in <u>Appendix 4.2.</u>

LABORATORY MEASUREMENT / ANALYSIS

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



5. MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 4.1</u>. 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
- 5.0.3. The 1-hr TSP monitoring at CMA1b and 24hr TSP monitoring at CMA2a on the 4th week of September was re-scheduled due to the maintenance works of electricity supply at CMA1b and CMA2a. 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. Two limit level exceedances at M4b were recorded on 31 August and 21 September 2010. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> 5.2.
- 5.1.4. Drizzle was recorded on 21 September 2010 during the noise monitoring. Since only one exceedance was recorded at M4b and the major noise source of exceedance was identified



arising from the construction works near the Victoria Garden, the noise impact from the drizzle was concluded to be minor in the monitoring.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central -Wanchai Bypass at HKCEC and Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at WanChai East

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

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

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.6. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.7. Three limit level exceedances were recorded on 31 August, 7 and 14 September 2010 during construction works at evening time for Contract no. HK/2009/02 in reporting month. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool. The dredging work was complied with the conditions under valid Construction Noise Permit no. GW-RS0132-10 during the measurement.

5.2 Air Monitoring Results

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

5.2.1. The major construction activities of Contract no. HY/2009/11 were dredging works and filling works in the reporting month. Since the filling work was commenced in mid-August 2010, air monitoring had been commenced on 11 August 2010. The proposed division of air monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Air Monitoring Stations for Contract no. HY/2009/11

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

- 5.2.2. Continuous electricity supply for Oil Street Community Liaison Centre was connected on 22 September 2010. Thus, 24-hour TSP monitoring at CMA1b was commenced on 27 September 2010 in the reporting month. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3</u>.
- 5.2.3. No exceedances were recorded in the reporting month. The details can be referred to Section 6.0.

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

5.2.4. Air monitoring will be commenced from the filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in *Table 5.4* below.

Table 5.4 Air Monitoring Stations for Contract no. HK/2009/01

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

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

5.2.5. Air monitoring will be commenced from the filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in *Table 5.5* below.

Table 5.5 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.3 Water Monitoring Results

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

5.3.1. The proposed division of water monitoring stations for Contract no. HY/2009/11 are summarized in *Table 5.6* below:

Table 5.6 Water Monitoring Stations for Contract no. HY/2009/11

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

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

5.3.2. Water monitoring for Contract no. HK/2009/02 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.7* below.

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

Station Ref.	Location	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 Inta	ke						
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				

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.

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

5.3.3. 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 5.8* below.

Table 5.8 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing		
WSD Salt Water Int	ake				
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.

5.3.4. Due to Strong Wind Signal No. 3, no, water quality was concerned substantially affected by urban runoff, which cannot represent the normal impact condition of water quality. Thus, the impact water monitoring at all stations was cancelled on 20 September 2010 at mid-flood tide.

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

Table 5.9 Summary of Water Quality Monitoring Exceedances in Reporting Month

				Mid-1	flood			Mid-ebb					
Contract no. Water Monitoring Station	Ď	0	Turb	idity	S	S	D	0	Turb	idity	S	S	
		AL	L	AL	LL	AL	Ц	AL	L	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	1	0	0	0	0	0
	WSD10	0	0	0	0	1	0	1	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	1	0	0	0	1
	WSD17	0	0	0	0	0	0	3	0	0	0	0	1
	C8	1	0	0	1	1	0	1	0	0	2	3	1
	C9	0	0	0	0	2	0	1	0	2	0	5	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	1	1	0	0	0
	WSD20	0	0	1	0	0	0	1	0	0	1	0	1
	WSD7	0	0	0	1	0	1	1	1	0	0	1	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C2	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	1	0	2	1
	C4e	0	0	0	0	0	0	0	0	0	1	1	0
	C4w	0	0	0	0	0	0	0	0	1	0	1	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	0	0	0	0
	C5w	0	0	0	0	0	0	0	0	0	1	2	0
	WSD21	1	0	0	0	0	0	1	0	1	0	0	0
	Total	2	0	1	2	4	1	10	3	6	5	15	5

5.4 Waste Monitoring Results

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

5.4.1. No inert and non-inert C&D waste was disposed of in the reporting month. Details of the waste flow table are summarized in *Table 5.10*.

Table 5.10 Details of Waste Disposal for Contract no. HY/2009/11

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



Waste Type	Quantity this month, m ³	Cumulative Quantity- to-Date, m ³	Disposal / Dumping Grounds
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	N/A	N/A	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	8500 (Bulk Volume)	80000 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	6,000 (Bulk Volume)	87,000 (Bulk Volume)	East of Sha Chau

5.4.2. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed in the reporting month. The maximum dredging rates in North Point Reclamation (NPR) Shoreline Zone is 1,500m³ per day in the reporting month, which is complied with the recommended maximum dredging rate, 6000m³ listed in Table 2 of FEP-01/356/2009.

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

5.4.3. Inert and non- inert C&D waste were disposed of for the site preparation works in this reporting month. Details of the waste flow table are summarized in *Table 5.11*.

Table 5.11 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month, m ³	Cumulative Quantity- to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	211.11	412.65	TKO134
Inert C&D materials recycled	0	0	N/A
Non-inert C&D materials disposed	13.83	57.51	SENT Landfill
Non-inert C&D materials recycled	0	2.89	N/A
Chemical waste disposed	0.15	0.44	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	13062.9 (Bulk Volume)	37049.9 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	81 (Bulk Volume)	81 (Bulk Volume)	East of Cha Chau



5.4.4. There were marine sediments Type 1 – Open Sea Disposal and Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal marine sediment disposed in the reporting month. The maximum dredging rate in Cross Harbour Water Mains marine work zone and HKCEC1 subzone under Hong Kong Convention Exhibition Centre (HKCEC) marine work zone are 612m³ per day and 81m³ per day respectively, which are complied with the recommended maximum dredging rate, 1500m³ per day listed in Table 2 of FEP-02/356/2009.

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

5.4.5. Inert and non- inert C&D waste were disposed of for the site preparation works in this reporting month. Details of the waste flow table are summarized in *Table 5.12*.

Table 5.12 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type	Quantity this month, m ³	Cumulative Quantity- to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	137.8	1, 688.3	TKO137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	2.8	30.3	SENT Landfill
Non-inert C&D materials recycled			N/A
Chemical waste disposed	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	65,480 (Bulk Volume)	116,690 (Bulk Volume)	East of Sha Chau

5.4.6. There were marine sediments Type 1 – Open Sea Disposal disposed in the reporting month. The maximum dredging rate in Wan Chai Reclamation (WCR) marine work zone 3930m³ per day, which is complied with the recommended maximum dredging rate, 6000m³ listed in Table 2 of FEP-03/356/2009.



6. Compliance Audit

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

6.1 Noise Monitoring

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

6.1.1. Two limit level exceedances were recorded at Victoria Centre on 31 August and 21 September 2010. Investigation was found that the major noise impact was arising from the construction works near FEHD depot which is not under the scope of either EP-356/2009 and EP-364/2009/A.

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

6.1.2. No exceedance was recorded in the reporting month.

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

6.1.3. Three limit level exceedances during evening time were recorded on 3, 10 and 17 September 2010. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Pool. The dredging work was complied with the conditions under valid Construction Noise Permit no. GW-RS0132-10 during the measurement. It is concluded as not related to the Project works.

6.2 Air Monitoring

6.2.1. No exceedance was recorded in the reporting month.

6.3 Water Quality Monitoring

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

6.3.1. Referring to the exceedances shown in *Table 5.9*, the action and limit level exceedances of turbidity and suspended solid were recorded at C8 and C9. The turbid water quality and fish cluster were observed inside the silt screen while no abnormal observation during the onsite monitoring. Investigation found that there were numerous unknown outfalls from the nearby coastal area enclosed by the silt screen at C8 and C9. It causes the potential for accumulation and trapping of pollutants behind the silt screens and may lead to potential



water quality deterioration at the seawater intake points. It was concluded as not project related exceedances.

- 6.3.2. Due to sweeping effect of silt screen over the shallow seabed (<3m) at C8, it was considered silt screen protection may produce negative impact on shallow seabed location. Moreover accumulation of fish cluster was continuously observed as a result of the shallow silt screen enclosure around the intake. After liaising with the intake owner, silt screen at C8 has been discharged on 16 September 2010 and contractor is recommended to provide further layers of silt curtain to protect the dredging area with continuous attention on water quality at C8 after such change. It is recommended that alternative design of the silt screen at C8 need to be proposed by the contractor.</p>
- 6.3.3. DO exceedances were occurred at all stations relevant to Contract no. HY/2009/11 on 8 September 2010 at mid-ebb. Comparing with the overall DO level at all monitoring stations and next consecutive water monitoring at the same day, relative low DO level at mid-ebb and no further exceedances were recorded. It is concluded as natural variation and not related to the project works.
- 6.3.4. SS exceedances were recorded at WSD10 on 30 August 2010 and at WSD15 on 10 September 2010. The data were compared and reviewed that SS level at the nearest monitoring stations to the marine works area were below the action and limit level. Besides, SS exceedances were recorded at WSD17 on 4 September 2010. Investigation found that silt screen washing was commenced during sampling. It is concluded the exceedances not related to the Project works.

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

- 6.3.5. Referring to all exceedances recorded at WSD7, WSD19 and WSD20 during mid-ebb, the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the HK/2009/01. It is concluded that the source of impact was due to natural variation or change around WSD7, WSD19 and WSD20 and not related to the project work. Compared with the results at stations near the marine works area, no exceedance was recorded at stations C1 C4 while the exceedances recorded at WSD7, WSD19 and WSD20 during mid-flood. It is considered not related to the Project works.
- 6.3.6. Silty local discharge was observed at WSD20 on 6 September 2010 during mid- ebb. No turbidity exceedance was recorded at the monitoring stations near the marine work area. The turbidity and SS exceedances are concluded causing by the discharge from outfall and not related to project.
- 6.3.7. Turbidity and SS exceedances at stations C3 and C4e were recorded on 8 September 2010 at mid-ebb during the undertaken of trial dredging at south side of HKCEC. Silt screen and silt curtain were inspected in proper condition during the trial dredging. No further dredging works was carried out after this monitoring date. It cannot be concluded the exceedances were not related to the Project. Since the dredging works was carried out in close proximity of the intakes, Contractor was reminded to ensure all mitigation measures be properly implemented.



- 6.3.8. Since silt screen was in proper condition and no marine works was undertaken on 6, 16 and 18 September 2010, the exceedances recorded at C3 and C4w on these three days were considered not related to the Project.
 - <u>Contract no. HK/2009/02 Wan Chai Development Phase II Central Wan Chai Bypass at</u> WanChai East
- 6.3.9. Two action level exceedances of dissolved oxygen and one action turbidity level exceedance were recorded at Stations WSD21 while SS exceedances and turbidity exceedance were recorded at C5w in the reporting month. The data were compared and reviewed that concentrations at the nearest monitoring stations to the marine works area were low.
- 6.3.9. Investigation found that the condition of silt screen and silt curtain are in proper condition and daily dredging rate are complied with EP condition, the exceedances were considered as natural variation and not related to the Project.
- 6.3.10. Summary for notification of exceedances can be referred to Appendix 6.2.

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

- 6.4.1. 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.
- 6.4.2. No project-related non-compliance from monitoring was recorded in the reporting month.

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

6.5.1. 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-Wan Chai Baypass and Island Eastern Corridor Link projects.
- 7.0.2. From the Monthly EM&A report (August 2010) of Central Reclamation Phase III (CRIII) the key works in September 2010 are as follows:
 - Type A filling in FRAW and FRAE above +2.5mPD;
 - General filling works above +2.5mPD in IRAE;
 - Surcharging in FRAW and FRAE;
 - Construction of cantilever slab at caisson;
 - Pile cap and base slab construction at Culvert F;
 - Construction of storm and foul drainage and gullies in hinterlands for Road P2, Road D7, and Road D9;
 - Construction of watermains at Road D7;
 - Road P2 Underpass ramp structures;
 - Precasting for retaining wall (offsite);
 - Installation of cooling water mains for Tamar Development Project;
 - Installation of cooling mains discharge pipes in FRAE;
 - Diaphragm wall and barrettes for CWB Works;
 - Excavation to formation level at CWB works;
 - · Construction of CWB structure; and
 - Disposal of material off-site to Government fill banks
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II was the dredging works at North Point Reclamation Stage 1(NPR1), Wan Chai Reclamation Stage 1(WCR1) and cross-harbour water mains in the reporting month. The major environmental impact was water quality impact at North Point and Wan Chai.
- 7.0.4. The major environmental impacts generated from the Central Reclamation Phase III were located along the coastline of Central and Admiralty while dredging works at NPR1, WCR1 and Cross-harbour water Mains were in operation in this reporting month. Since no Project-related exceedance was recorded from the Project in the reporting month, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/11, HK/2009/01 and HK/2009/02. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HY/2009/11 were carried out during this reporting period. 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		
100831_01	31-Aug-10	Refuse was found inside silt screens at Sai Wan Ho, Quarry Bay. It shall be collected by contractor everyday.	Keep regular collecting the refuse inside silt screen.	Completion as observed on 7-Sep- 10		
100831_02	31-Aug-10	The contractor is reminded to tie the silt screen tightly to seawall for any dredging works.		Completion as observed on 7-Sep- 10		
100907_01	07-Sep-10	In order to prevent refuse accumulate from the silt screens washing, the contractor is recommended to liaise with Chun Wo – China Railway Group Limited Joint Venture, which response to silt screen washing.	Liaison between two contractors had been taken on Environmental Project Committee Meeting on 15-Sep- 10	Completion as observed on 15- Sep-10		
100917_01	17-Sep-10	Refuse was observed inside the silt screen at Sai Wan Ho	Collect refuse regularly	Completion as observed on 28-Sep-10		
100917_02	17-Sep-10	The contractor was reminded to maintain/ repair the silt screen at Sai Wan Ho	Maintenance of silt screen	Completion as observed on 21- Sep-10		
100921_01	21-Sep-10	Refuse was observed inside silt screen at Sai Wan Ho	Collect refuse regularly	Completion as observed on 28- Sep-10		

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

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

Item	Date	Observations	Action taken by Contractor	Outcome
100901_01	01-Sep-10	Refuse shall be collected daily	Daily collect the refuse	Completion as observed on 8-Sep-
100901_02	01-Sep-10	Silt Screen shall be checked and maintained daily, also ensure the silt screen at station C1 are tied tightly to seawall at work area P6.	Daily clearance and inspection of silt screen.	Completion as observed on 8-Sep-
100908_01	08-Sep-10	The contractor is reminded to tie the silt screen at Expo Drive tightly.	Daily clearance and inspection of silt screen.	Completion as observed on 22-Sep-10
100908_02	08-Sep-10	Oil stain was found in U-channel at south Bound of HKCEC. The	Took reasonably practicable	Completion as observed on 22-

Item	Date	Observations		
			Contractor	
		contractor is reminded to clear it	mitigation measures	Sep-10
		with proper measure and avoid it	to prevent oil	
		to flow into sea.	spillage discharge	
			to sea	
100922_01	22-Sep-10	Material closed to the retained	Remove material	Completion as
	-	trees at TST shall be relocated	away from trees	observed on 29-
		away from the trees at less 1m	-	Sep-10
100922_02	22-Sep-10	Silty water was accumulate at U-	Maintain drainage	Completion as
	-	channel at south bound of HKCEC	system	observed on 29-
		and near gullies at TST site area.		Sep-10
		Drainage system shall be		•
		reviewed and well maintained		
100922_03	22-Sep-10	Stagnant water accumulated at	Clear the water in	Completion as
		drip tray at north-bound of HKCEC	drip tray	observed on 29-
		shall be cleaned up with proper		Sep-10
		procedures		

8.0.4. Four site inspections for Contract no. HK/2009/02 were carried out during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.3*.

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

Item	Date	Observations						
			Contractor					
100902_01	02-Sep-10	The contractor is recommended to conduct mitigating measure for the engine of dredging machine to prevent the exhausted gas exceeds the limit of the regulation.	machine	Completion as observed on 9-Sep- 10				
100902_02	02-Sep-10	Larvicidal oil shall be applied in the sedimentation tank near the whole washing system.	Larvicidal oil has been applied into the sedimentation tank regularly	Completion as observed on 9-Sep-				
100909_01	09-Sep-10	Soft drink cans and bottles shall be recycled	All cans and PET bottles are collected and store in the recycle bins.	Completion as observed on 16- Sep-10				
100909_02	09-Sep-10	Worn sand bags shall be replaced	Replace new sand bags	Completion as observed on 16- Sep-10				
100909_03	09-Sep-10	Sand shall be covered	Cover the main dust-generating activities	Completion as observed on 16- Sep-10				
100909_04	09-Sep-10	Close grab shall be used for dredging works	Close grab used for dredging	Completion as observed on 16- Sep-10				
100916_01	16-Sep-10	Oil drums on barge should be placed underneath proper drip tray	Place oil drums on drip tray	Completion as observed on 30-Sep-10				
100916_02	16-Sep-10	Dredging for seawall construction at WCR1 shall be carried out by closed grab dredger	Close grab used for dredging	Completion as observed on 24-Sep-10				
100916_03	16-Sep-10	It is recommended that silt curtain shall be deployed surround the barge and dredger	Deploy silt screen for dredging	Completion as observed on 24-Sep-10				
100916_04	16-Sep-10	Discarded cement bags at WSD pumping station shall be cleared up	Clean up discard cement bags	Completion as observed on 24-Sep-10				
100916_05	16-Sep-10	Contractor is reminded to display the proper label on QPME	Display label on QPME	Completion as observed on 30-				



ltem	Date	Observations	Action taken by Contractor	Outcome
				Sep-10
100924_01	dredge shall be used for the dredging work for seawall seawall		dredging work for	Completion as observed on 30-Sep-10
100924_02	24-Sep-10	Opening of silt curtain shall be always closed	closed	Completion as observed on 30- Sep-10

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint was received in the 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
September 2010	0
Project-to-Date	5

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



10. CONCLUSION

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. Turbidity and SS exceedances at stations C3 and C4e were recorded on 8 September 2010 at mid-ebb during the undertaken of trial dredging at south side of HKCEC. Silt screen and silt curtain were inspected in proper condition during the trial dredging. No further dredging works was carried out after this monitoring date. It cannot be concluded the exceedances were not related to the Project. Since the dredging works was carried out in close proximity of the intakes, Contractor was reminded to ensure all mitigation measures be properly implemented.
- 10.0.3. 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

R	Reporting Month						
Contract No.	Key Construction Works	Recommended Mitigation Measures					
HY/2009/11	Floating Out of Caisson Seawall;	To avoid concurrent noisy operation					
	Installation of Caisson Seawall;	To locate the plant and equipments					
	Dredging works;	far away to the noise sensitive receivers					
	Reclamation works;	Daily visual inspection of silt screen					
	Construction & installation of Seawall Block; and	and silt curtain to ensure its operation properly					
	Pre-casting works for coping	Daily clearance of floating debris behind the silt screen					
HK/2009/01	Installation of pipe pile wall at West Bridge	To conform the installation and setting as in the silt screen					
	Installation of pipe pile wall at West	deployment plan					
	Bridge and trial bored pile for tunnel and excavation;	Frequency spray water on the dry dusty road and on the surface of					
	Dredging works and removal of	concrete breaking					
	rock armour for existing sloping seawall at HKCEC water channel;	To cover the dusty material or stockpile by impervious sheet					
	 Dredging works for cross harbour watermains; 	To space out noisy equipment and position as far as possible from					
	Commencement of temporary jetty	sensitive receiver.					
	construction;	To well maintain the mechanical equipments / machineries to avoid					
	 Implementation of TTM scheme for trial pit at Convention Avenue (Area 	abnormal noise nuisance.					
	A1);	Machines and plant that may be in					
	Implementation of TTM scheme for pipe laying at Convention Avenue	intermittent use should be shut down between work periods or should be throttled down to a minimum					
	(Area A1) for cooling water main and Harbour Road (Area A5) for salt water main and optic fibre;	Daily visual inspection of silt screen and silt curtain to ensure its operation properly					

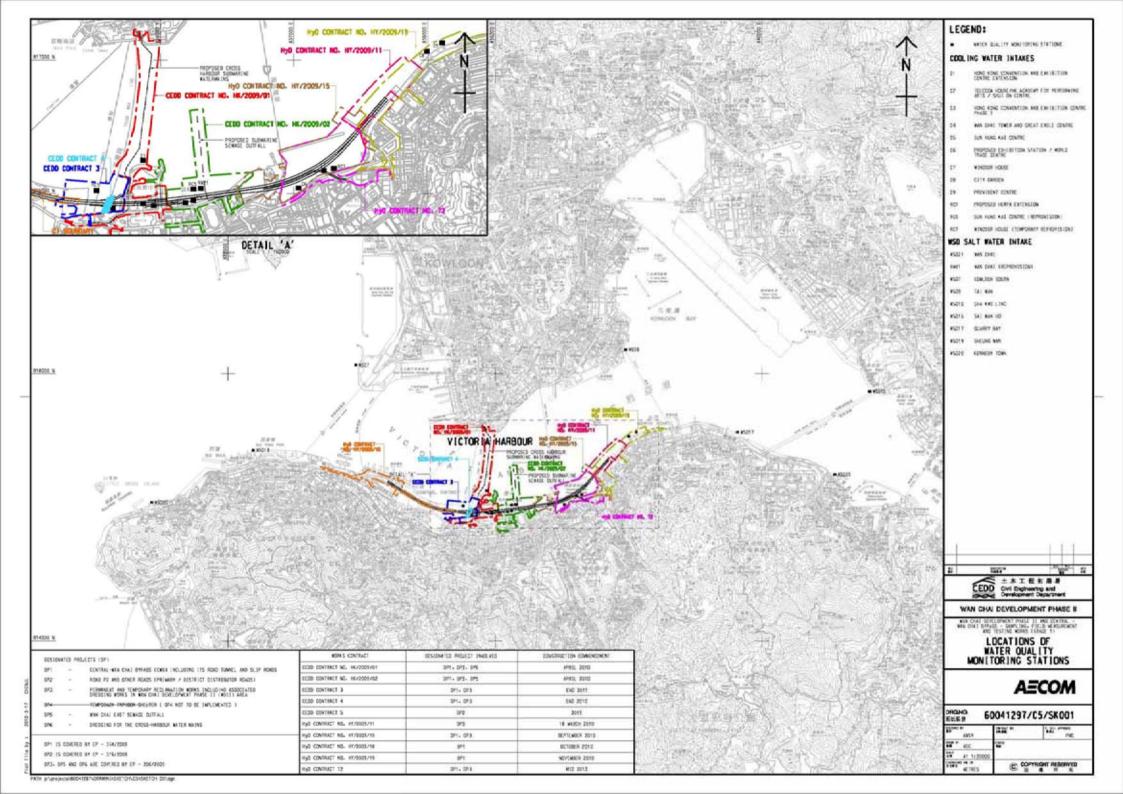


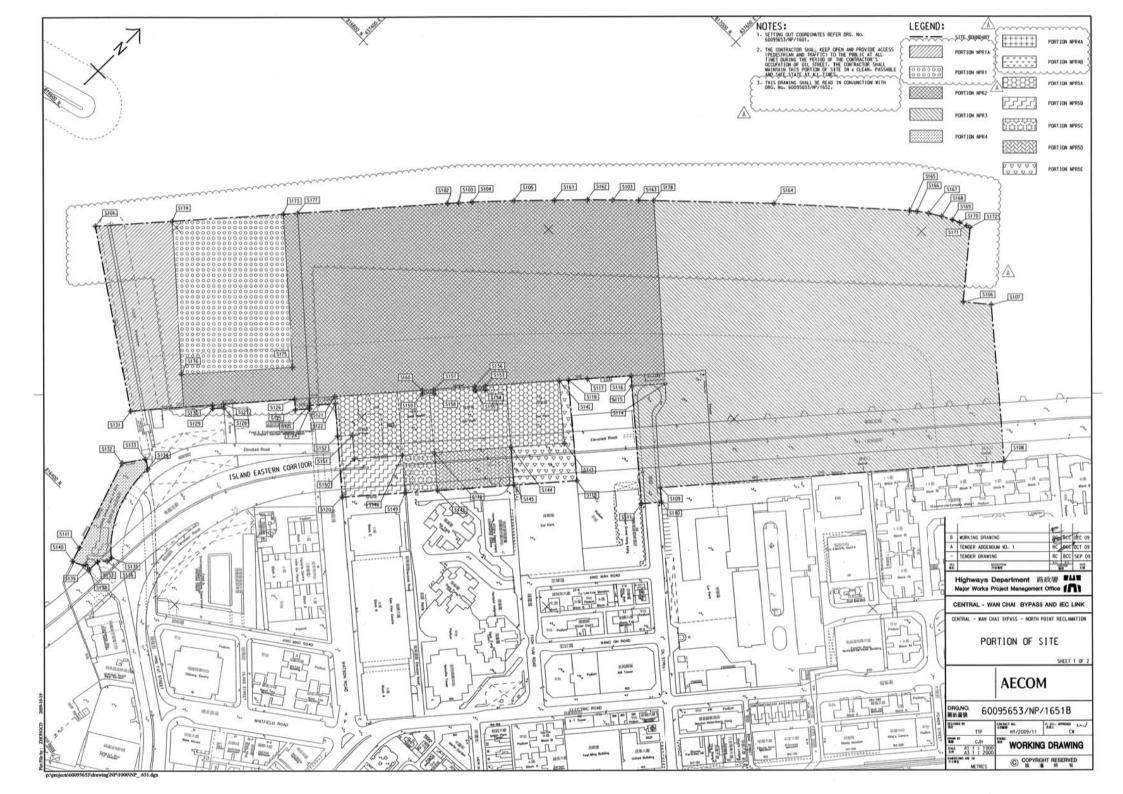
Lam Geotechnics Limited

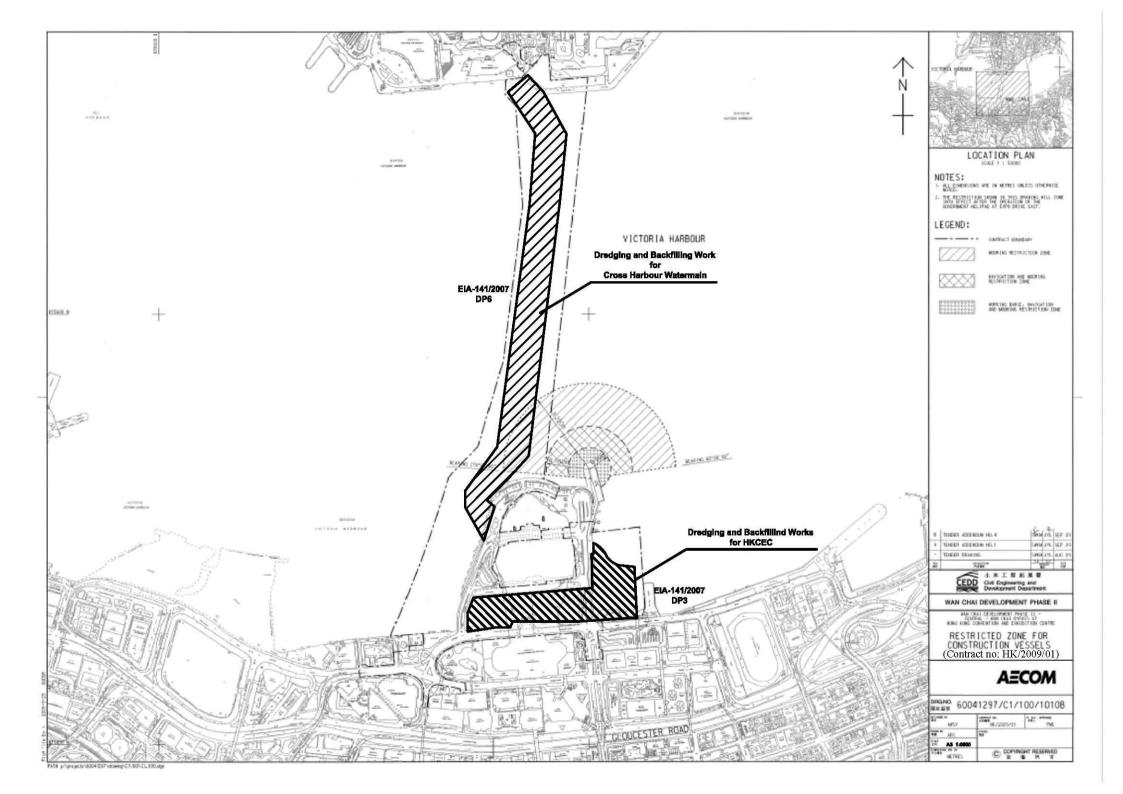
Contract No.	Key Construction Works	Recommended Mitigation Measures
	Implementation of TTM scheme for Stage 1 pipe laying for cooling mains and cross harbour water main at Expo Drive near HKCEC (Area B1);	
	Tree transplantation at Wan Chai and Tsim Sha Tsui;	
	Builder's work and structural modification for Sea water pump houses / Transformer room of HKCEC;	
	Additional coring for pipe sleeve and puddle flange opening at Pump Station Nos. 1, 3, 4 & 5; and	
	Preparation work for E&M first fixing at high level of Pump Station Nos. 1, 3, 4 & 5	
HK/2009/02	Site Cleaning and Tidying	To cover the dusty material or
	Temporary Hoarding Erection	stockpile by impervious sheet;
	Pre-bored H-piles, ELS and excavation at WSD Pumping Station	Frequency spray water on the dry dusty road and on the surface of concrete breaking
	Construction of Salt Water Intake Culvert at Pet Garden	To well maintain the mechanical equipments / machineries to avoid
	Road Modification and Improvement Works	abnormal noise nuisance and dark smoke emission
	Construction of Cooling Mains Along Public Road	To conform the installation and setting as in the silt screen and silt
	Demolition of Finger Pier	curtain deployment plan
	Construction of Temporary SeawallDredging and Backfilling of WCR 1	Movable noise barrier shall be deployed for demolition works
	Tree TransplantingPlant Trial of TKO 137 Sorting Facility	Daily visual inspection of silt screen and silt curtain to ensure its operation properly

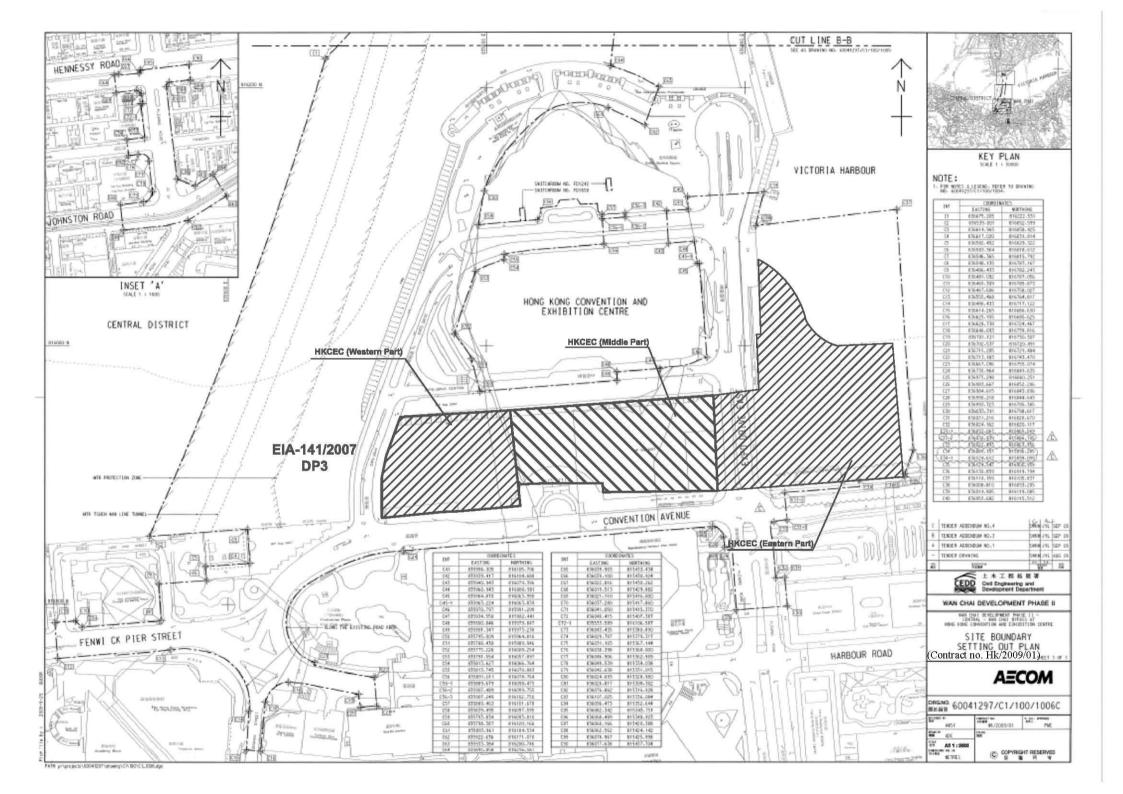
Figure 2.1

Project Layout









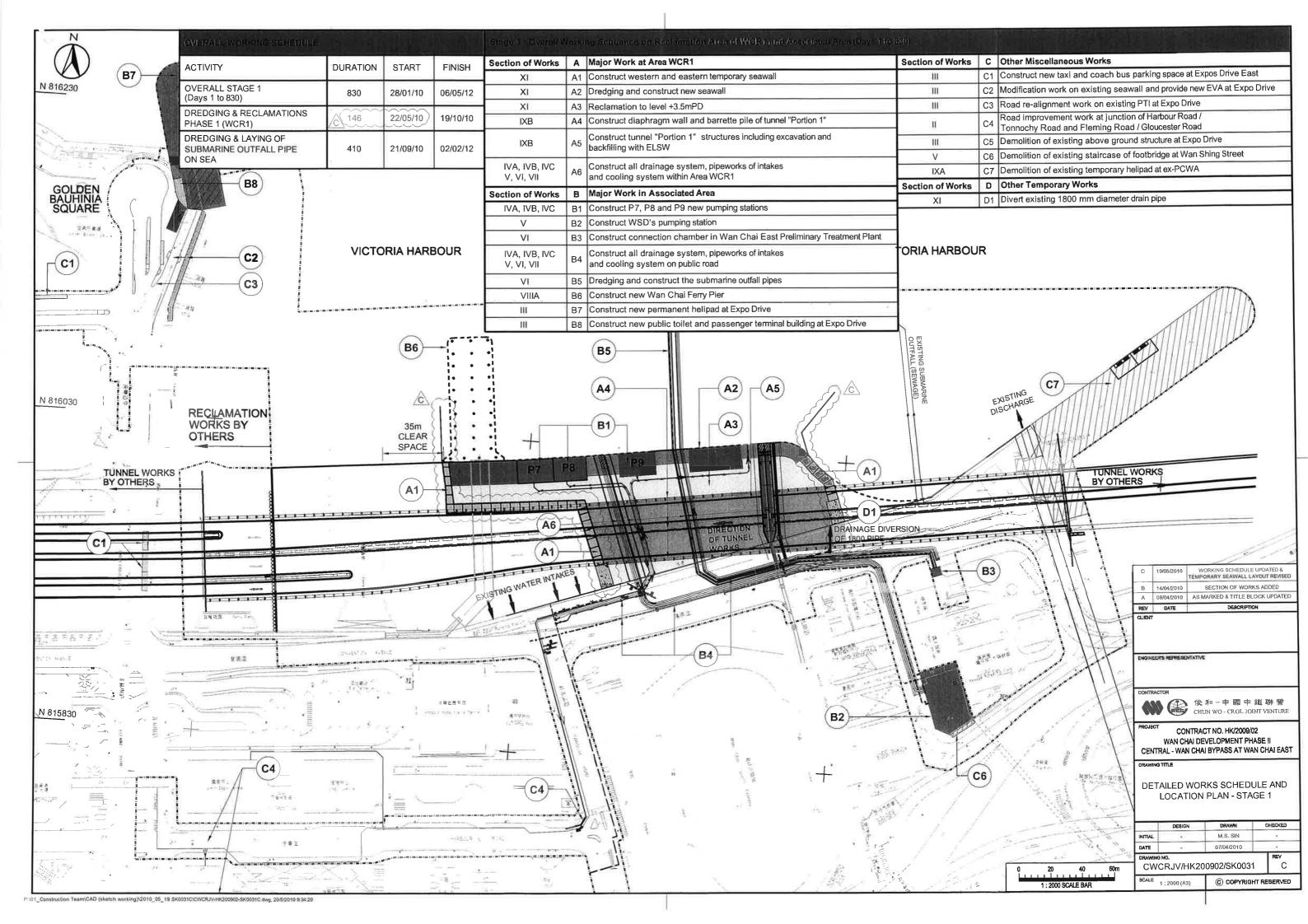


Figure 2.2

Project Organization Chart



Project Organization Chart

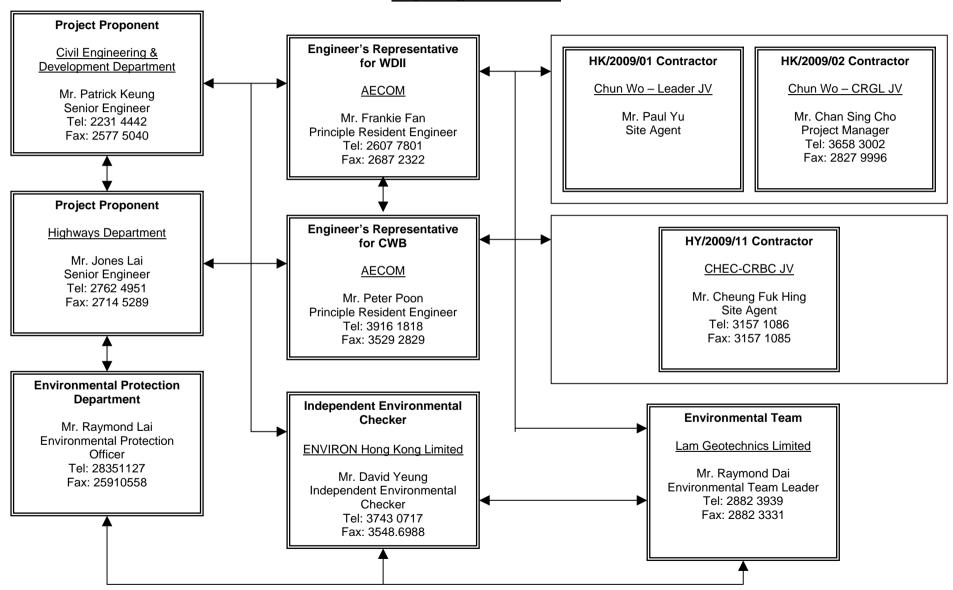
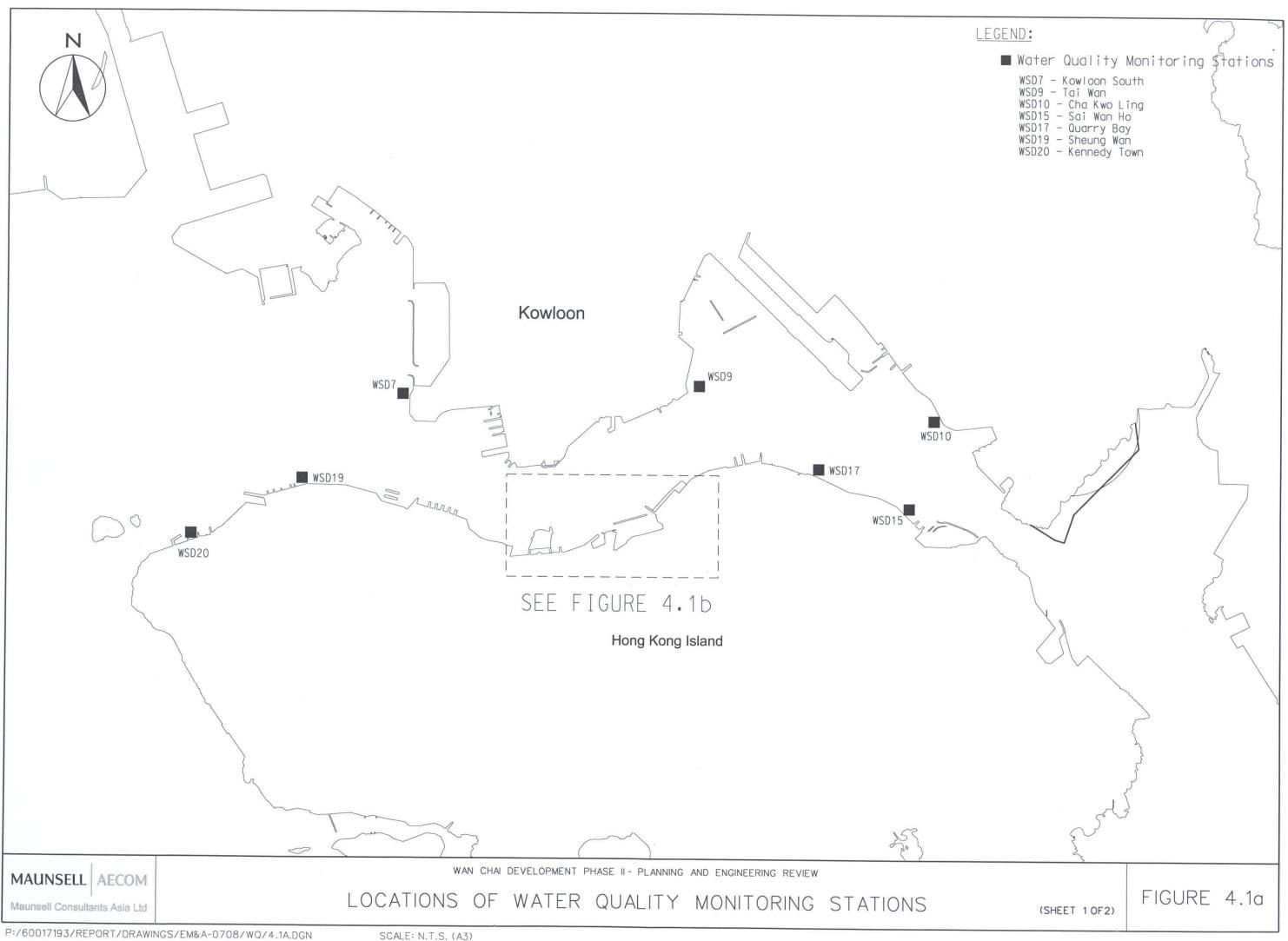
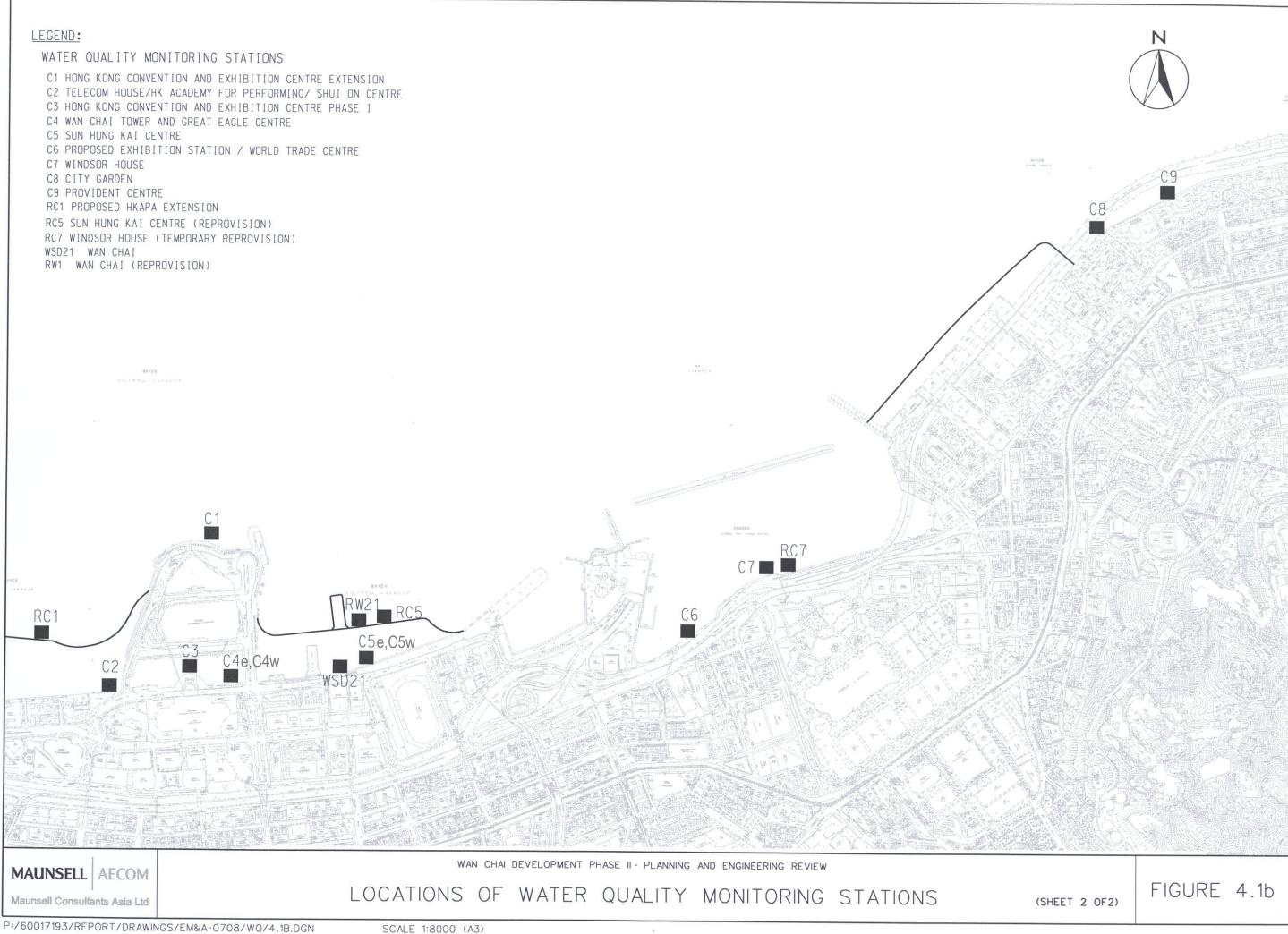
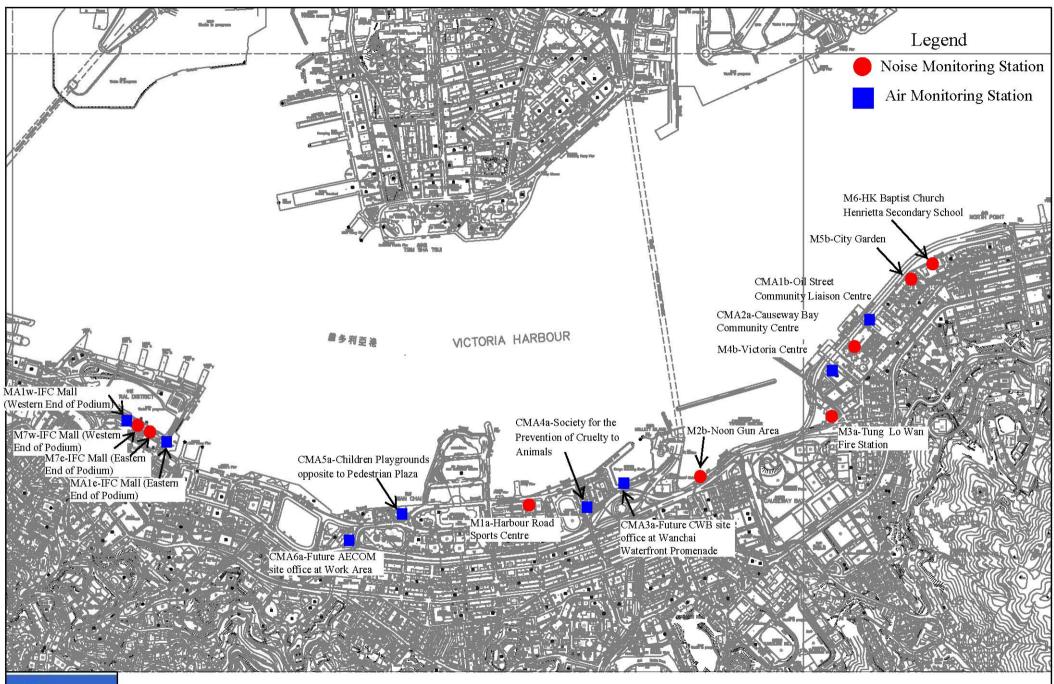


Figure 4.1

Locations of Monitoring Stations









Location Plan of Air and Noise Monitoring Stations

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	C	О	Dec	and Guidelines
Constructio								
For the Wh	,							
S3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			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		٧			

Appendix 3.1

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing Implementation	Implementation Stages*			Relevant Legislation		
211101	Zirir olimoitus 17000000 irrensut os / irrensut os	Bookiton, Timing	Agent	Des	C	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		√			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		1			EIAO-TM
Operation l							•	

 $^{^{\}rm 1}$ CEDD will identify an implementation agent.

 $^{^{\}rm 2}$ CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
		g	Agent	Des	C	О	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 ongoing odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
	CWB (Within the Project Boundary)	I	ı					T
S3.6.53 –	The design parameters of the East and Central Ventilation	East and Central	HyD					
S3.6.54	Buildings as set in Tables 3.10 and 3.11	Ventilation Buildings / During operation of the Trunk Road						
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			V		EIAO-TM

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

Appendix 3.1

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

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	Relevant Legislation	
				Des	C	0	Dec	and Guidelines
Constructio	n Phase							
For the Who	ole Proiect							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation
21.1101	Environmental Proceeding Williams	not be a second of the second	Agent	Des	C	o	Dec	and Guidelines
S4.9.4	Good Site Practice:	Work Sites / During	Contractor		√			EIAO-TM, NCO
	Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.	Construction						
	Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.							
	Mobile plant, if any, shall be sited as far away from NSRs as possible.							
	Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum.							
	Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.							
	Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on- site construction activities.							
For DP1 -	CWB (Within the Project Boundary)							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
EIA Rei	Environmental Protection Measures / Mitigation Measures	Location / Timing	Agent	Des	C	0	Dec	and Guidelines
S4.8.5 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		V			EIAO-TM, NCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
Linker	Environmental Protection (vicusares) (vitagation (vicusares)	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		1			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks: Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		N			EIAO-TM, NCO

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

EIA Ref	Environmental Protection Measures / Mitigation Measures Location / Liming		Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	0	Dec	and Guidelines
Operation	Phase							
For DP1 -	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation			
21.1101	Zirirommontai 110000000 Michael of Minigation Michael of	Zoomion / Timing	Agent	Des	C	o	Dec	and Guidelines			
S4.8.14 – S4.8.18	For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and	Near North Point / Before commencement of operation of road project	HyD	V	V	1		EIAO-TM			
	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 For Future/Planned NSRs	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	In between the Electric			HyD	√ .	√ #			
	about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC										

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

EIA Ref	EIA Ref Environmental Protection Measures / Mitigation Measures Location / T		Location / Timing Implementation				on	Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
	The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project	1				
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
1		Temple	Tin Hau Temple					

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

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
For DP3 - Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	sim Sh	a Tsu	i), DP	1 – CW	B (within the Project
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		V			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		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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

EIA Ref	Environmental Prot	tection Measures / N	Aitivation	Measures		Location /	Implementation	Ir	nplem Sta	entat ges*	ion	Relevant Legislation
						Timing	Agent	Des	C	О	Dec	and Guidelines
S5.8	typhoon shelter shall not be fully enclosed.					Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8	As a mitigation meas within the tempor impermeable barrier	ary embayment be	tween C	RIII and	HKCEC1, an	Work site / During the construction	Contractor		√			EIAO-TM, WPCO
	and extending down the HKCEC1 communication discharge flows from contractor will ma HKCEC2W are carri	to the seabed, will mences. The barr m Culvert L to the intain this barrier	be erected rier will outside until th	d by the co channel the of the ember reclamate	ntractor before he stormwater payment. The ion works in	period						
S5.8, Figure 5.3	The total dredging rathan the maximum production rates with	production rates state	d in the t	able below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Reclamation Area Reclamation Area Maximum Dredging Rate Dredging Rate Rate (m³ per hour day (for 16 hrs week)											
	per day)											
	Dredging along seawall or breakwater North Point Shoreline Zone (NPR) 6,000 375 4		42,000									
	Causeway Bay	TBW	6,000 1,500	375 94	10,500							
	Shoreline Zone	TCBR	6,000	375	42,000							
1	PCWA Zone		1				1					

EIA Ref	Environmental Protection Measures /	Environmental Protection Measures / Mitigation Measures				Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
23.7.10.7		gv			Timing	Agent	Des	C	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone (HKCEC) HKCEC Stage 1 & 3 HKCEC Stage 2	6,000 1,500 6,000	375 94 375	42,000 10,500 42,000							
	Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline	1,500 1,500	94 94	10,500 10,500							
	Note: 1,500 m ³ per day shall be app seawall of WCR1.	lied for con	struction	of the western							
S5.8, Figure 5.3	Dredging along the seawall at WCI 1,500m³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water mamuch as possible from further dredging	e western se by partial se k) to protec	ich is in close struction at the	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO	
S5.8, Figure 5.3	For dredging within the Causeway Be partially constructed to protect the not dredging activities. For example, at seawalls shall be constructed first (a seawater intakes at the inner water wou the remaining dredging activities along	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO		
S5.8, Figure 5.3	Silt curtains shall be deployed arour seawall dredging and seawall trench fi TCBR and NP.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO			
S5.8, Figure 5.3	2009 with concurrent dredging activities at Cooling wat	Applications ater intakes Wan, Wan Cher intakes for	at Sai Wa hai, Kowloo or Hong Ko	an Ho, Quarry	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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
	8	Timing	Agent	Des	C	О	Dec	
	TBW, NP and Water Mains Zone Mains Zone Mains Zone Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR. Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower Inmigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR. WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
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	period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	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							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	Relevant Legislation	
		Timing	Agent	Des	C	О	Dec	and Guidelines
\$5.8	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 I 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/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>		1			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation	
			Timing	Agent	Des	C	О	Dec	and Guidelines
For the Wh	iole .	Project							
S5.8	•	Construction Runoff and Drainage	• Work site	Contractor		V			ProPECC PN 1/94;
	•	use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow;	/ During the constructi on period						WPCO (TM-DSS)
	•	Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;							
	•	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							

 $^{^{\}rm 3}$ CEDD will identify an implementation agent.

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	Implementation Stages*				Relevant Legislation
		Timing		Des	C	0	Dec	and Guidelines
	required.							
	All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity.							
	Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
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		V			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		V			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	Implementation Stages*				Relevant Legislation
		Timing		Des	C	o	Dec	and Guidelines
\$5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	√	V			WPCO
Operation	Phase	I .		1			1	l
DP1 – CWI	3 (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	CWB/During design and operational period	HyD/TD ³	1		V		WPCO
	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,							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entatio	on	Relevant Legislation and Guidelines
	Zanio and Carlotte	Timing	Agent	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

 $^{^{\}rm 3}$ 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	Implementation Stages*				Relevant Legislation
		_	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase							
For DP3 -	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
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 Mm³. A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
			Agent	Des	C	0	Dec	
S6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
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	Implementation Stages*				Relevant Legislation
		not not to the second of the s	Agent	Des	C	О	Dec	and Guidelines
	Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.							
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		V			
For the Who	ole Project							

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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 transporting wastes in enclosed containers; • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and	EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
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				Agent	Des	C	О	Dec	and Guidelines
recycled and disposed of (including the disposal sites).	S6.7.7	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,	_	Contractor	Des	-		Bec	Waste Disposal Ordinance (Cap.354)

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	О	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
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		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Lintite	Environmental Protection Nicusares / Mittigation Nicusares	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
S6.7.14	Bentonite 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.	Work site / During the construction period	Contractor		√			ProPECC PN 1/94
	If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.							

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

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
2	Zarin olimenta i Tottetton i Zenou es / Zaringano i Zenou es	Economy 1 mmng	Agent	Des	C	0	Dec	and Guidelines
Construction	on Phase							
For the Wh	ole Project							
S.12.6	The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
S7.10	During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: • Excavation profiles must be properly designed and executed; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; • Quantities of soil to be excavated must be estimated; • It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. • Temporary storage of soil at intermediate depot or on-site	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
EIA Ref	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.	Location / Timing	Agent	Des	Sta C	ges*	Dec	and Guidelines
	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	Ir	nplem Sta	entati ges*	on	Relevant Legislation
23.7.10.7	Zava omnomina 1 rotottom monominos	Document, Timing	Agent	Des	C	0	Dec	and Guidelines
	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

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	Dec	and Guidelines
Construction	on Phase					•		
For the Wh	ole 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	1				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
2	Zarin vinnentini i rotottori racioni co, ranigation racioni co	Economy 1111111	Agent	Des	C	0	Dec	and Guidelines
S.9.7.4	During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: Installation of silt curtains during dredging activities Use of tightly-closed grab dredger Reduction of dredging rate Control of grab descending speed Construction of leading edges of seawall in the early stages of the reclamation works	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta		on	Relevant Legislation
22.710.	Zarra omnerima a rotection racinguity, ratinguity racinguity	Location, 11ming	Agent	Des	C	0	Dec	and Guidelines
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		V			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	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	О	Dec	
Construction	Phase				<u> </u>				
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	√	1			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	√			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	√			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		V			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	√			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	1			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	ion	Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 _ WD	II Maio	r Roads (Road P2)							
Table 10.5	CM1	, ,	Work site / During Construction Phase	Contractor	1	1			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	1	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works	•						
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		1			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP5 - Wa	n Chai I	East Sewage Outfall	•					•	
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		1			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines	
					Des	C	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.13	an II anh	our Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		1			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		1			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		1			EIAO TM
Operation Pha				"				1	II.
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	1	V	1		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	1	V	V		ETWB TCW 2/2004

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EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	iming Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	O	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	V	V	V		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		and associated structures.	Design Stage and Operation Phases						
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	1	V	1		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	√	1	1		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	√	1	V		ETWB TCW 2/2004
For DP1 - CW	B (Withi	n 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	√	1	V		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	√	1	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	HyD	V	1	1		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	V	1	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas. *Roads (Road P2)	Work site / During Design Stage and Operation Phases	HyD	√	V	1		ETWB TCW 2/2004

⁴ CEDD will identify an implementation agent

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	CEDD/HyD		1	1		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5		including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Design Stage and Operation Phases						
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD		V	V		ETWB TCW 2/2004
Figure 10.5.1- 10.5.5	OMS	and associated structures.	Design Stage and Operation Phases	CEBBITISB		,	,		B1 WB 10 W 2/2001
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		1	1		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		1	1		ETWB TCW 2/2004
For DP3 - Rec	lamatio	n Works							
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD⁵_	√	√	√		ETWB TCW 2/2004

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

 $^{^{\}rm 5}$ CEDD will identify an implementation agent

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 Leve	el in μ g/m 3	24-hour TSP Le	24-hour TSP Level in μ g/m ³		
	Action Level	Limit Level	Action Level	Limit Level		
CMA1a Note 2	320.1	500	176.7	260		
CMA2a	323.4	500	169.5	260		
CMA3 Note 2	311.3	500	171.0	260		
CMA4a	312.5	500	171.2	260		
CMA5 Note 2	332.0	500	181.0	260		
CMA6 Note 2	300.1	500	187.3	260		

Note 2:

Action and Limit Level for Water Monitoring

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

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

Copies of Calibration Certificates



Certificate No.

96127

1 Page

of

4 Pages

Customer: Lam Environmental Services Ltd

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

Order No.: 092434

Date of receipt

24-Nov-09

Item Tested

Description: Precision Integrating Sound Level Meter

Manufacturer: ACO

Model

: Type 6224

Serial No.

: 30148

Test Conditions

Date of Test: 26-Nov-09

Supply Voltage : --

Ambient Temperature :

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

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1 & 804 Type I Specification.

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

Main Test equipment used:

Equipment No. Description

Cert. No.

Due Date

Traceable to

S017

Multi-Function Generator

C081456

18-Mar-10

SCL-HKSAR

S024

Sound Level Calibrator

93758

16-Jul-10

NIM-PRC & SCL-HKSAR

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

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

Calibrated by :

27-Nov-09

Date:

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

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Certificate No. 96127

Page 2 of 4 Pages

Results:

1. SPL Accuracy

U	JT Setting			
Level Range (dB)	Weight	Time Const.	Applied Value (dB)	UUT Reading (dB)
20 - 100	L_A	Fast	94.03	94.3
		Slow	<u>=</u>	94.3
	L_{C}	Fast	· .	94.3
30 - 120	L_{A}	Fast	94.03	94.5
	2524	Slow		94.5
	L_{C}	Fast		94.5
30 - 120	L_{A}	Fast	113.97	114.2
		Slow		114.2
	L_{C}	Fast		114.2

IEC 651 Type 1 Spec. : \pm 0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Rdg	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	114.6	+0.1	± 0.7 dB
130	104.0	104.7	+0.2	
120	94.0	94.5 (Ref.)	H =	
110	84.0	84.5	0.0	
100	74.0	74.2	-0.3	
90	64.0	64.0	-0.5	
80	54.0	54.0	-0.5	

Uncertainty: ± 0.1 dB



Certificate No.

96127

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.4	-0.1	± 0.4
	94.0	94.5 (Ref.)		
	95.0	95.5	0.0	± 0.2
	104.0	104.5	0.0	± 0.3
77	105.0	105.5	0.0	± 1.0

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

4. Frequency Weighting

A weighting

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

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



Certificate No. 96127

Page 4 of 4 Pages

4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^2$	40.0	40.1	
$1/10^3$	40.0	40.2	± 1.0 dB
$1/10^4$	40.0	40.3	

Uncertainty: ± 0.1 dB

Remark: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1 010 hPa.

----- END -----



Certificate No. 96128

Page 1 of 2 Pages

Customer: Lam Environmental Services Ltd

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

Order No.: Q92434 Date of receipt: 24-Nov-09

Item Tested

Description: Sound Level Calibrator (EL469)

Manufacturer: ACO

Model : -- Serial No. : 050213

Test Conditions

Date of Test: 26-Nov-09 Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}$ C Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification after adjustment.

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

Main Test equipment used:

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

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

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

Calibrated by:

P.F. Wong

Approved by:

Dorothy Cheuk

This Certificate is issued by: Hong Kong Calibration Ltd Date: 27-Nov-09

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

Tel. 2423 0001 Fax. 2423 0040

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Certificate No. 96128

Page 2 of 2 Pages

Results:

1. Level

	Measured 7	Value (dB)	
UUT Nominal Value (dB)	Before adjust.	After adjust.	IEC 942 Class 1 Spec.
94	*93.52	94.11	± 0.3 dB

The above measured values are the mean of 3 measurements.

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

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.		
1 kHz	1.016	kHz	± 2 %	

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

3. Level Stability: 0.0 dB

IEC 942 Class 1 Spec. : \pm 0.1 dB

Uncertainty: ± 0.01 dB

4. Total Harmonic Distortion : < 2.9 %

IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1010 hPa.
- 4. *Out of Specification.

----- END -----



Certificate No. 03250A

Page

3 Pages

Customer: Lam Geotechnics Limited

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

Order No.: Q01282

Date of receipt

14-Jun-10

Item Tested

Description: Precision Integrating Sound Level Meter

Manufacturer: ONO SOKKI

Model

: LA-5110

Serial No.

: 72302293

Test Conditions

Date of Test: 21-Jun-10

Supply Voltage

Ambient Temperature:

(23 ± 3)°C

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S017

Multi-Function Generator

C101623

SCL-HKSAR

S024

Sound Level Calibrator

93758

NIM-PRC & SCL-HKSAR

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

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

Calibrated by

This Certificate is issued by

Hong Kong Calibration Ltd.

Date:

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

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Certificate No. 03250A

Page 2 of 3 Pages

Results:

1. SPL Accuracy

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

IEC 651 Type 1 Spec. : \pm 0.7 dB

Uncertainty: ± 0.1 dB

2. Level Stability: 0.0 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: $\pm 0.01 \text{ dB}$

3. Linearity

3.1 Level Linearity

J.I LCVCI	Lincarity			
UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
130	114.0	114.1	+0.1	± 0.7 dB
130	104.0	104.1	+0.1	
120	94.0	94.0 (Ref.)	(- -	
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	1
80	54.0	54.0	0.0	

Uncertainty: ± 0.1 dB



Certificate No. 03250A

Page 3 of 3 Pages

3.2 Differential level linearity

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

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

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.5	- 39.4 dB, ± 1.5 dB
63 Hz	-26.9	- 26.2 dB, ± 1.5 dB
125 Hz	-16.9	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- $3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref.)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.5	+ 1.2 dB, \pm 1 dB
5 kHz	+1.2	+ 1.0 dB ,± 1 dB
8 kHz	-1.0	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	-7.0	- 6.6 dB, + 3 dB ~-∞

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

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	40.0	± 0.5 dB
$1/10^2$	40.0	40.0	1
1/10 ³	40.0	40.1	± 1.0 dB
1/104	40.0	39.9	

Uncertainty: ± 0.1 dB

Remarks: 1. UUT: Unit-Under-Test

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

----- END -----



Certificate No. 03445

of 2 Pages Page

Customer: Lam Geotechnics Limited

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

Order No.: Q01282

Date of receipt

14-Jun-10

Item Tested

Description: Sound Level Calibrator (EL078)

Manufacturer: ONO SOKKI

Model : SC-2110 Serial No.

: 00393

Test Conditions

Date of Test: 21-Jun-10

Supply Voltage : --

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

Test Specifications

Calibration check.

Ref. Document/Procedure: Z02.

Test Results

All results were within the IEC 942 Class 2 specification.

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

Main Test equipment used:

Equipment No. Description Cert. No. **Due Date** Traceable to

S024 Sound Level Calibrator 93758 16-Jul-10 NIM-PRC & SCL-HKSAR

S041 **Universal Counter** 94005 6-Aug-10 SCL-HKSAR

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

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

Calibrated by:

This Certificate is issued by:

Hong Kong Calibration Ltd.

Date: 25-Jun-10

Unit 8B, 24IF., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong Tel: 2425 8801 Fax: 2425 8646



Certificate No. 03445

Page 2 of 2 Pages

Results:

1. Level Accuracy (at 1 kHz)

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

Uncertainty: ± 0.2 dB

2. Frequency Accuracy

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

Uncertainty: ± 0.1 %

3. Level Stability: 0.0 dB

IEC 942 Class 2 Spec. : ± 1.2 dB

Uncertainty: ± 0.01 dB

4. Total Harmonic Distortion : < 1.2 %

IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The above measured values are the mean of 3 measurements.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure: 1 000 hPa.

----- END -----



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 - Ju Operator	298 745.49					
PLATE OR Run #	METER DIFF Hg (mm)	ORFICE DIFF H20 (in.)				
1 2 3 4 5	(m3) NA NA NA NA NA	(m3) NA NA NA NA NA	(m3) 1.00 1.00 1.00 1.00	(min) 1.3860 0.9740 0.8730 0.8320 0.6850	3.2 6.4 7.9 8.8 12.7	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9767 0.9725 0.9704 0.9693 0.9641	0.7047 0.9985 1.1116 1.1650 1.4075	1.4006 1.9808 2.2146 2.3227 2.8013		0.9957 0.9914 0.9893 0.9882 0.9829	0.7184 1.0179 1.1332 1.1877 1.4349	0.8941 1.2645 1.4137 1.4828 1.7883
Qstd slop intercept coefficie	t (b) =	1.99628 -0.00699 0.99995		Qa slope intercept coefficie	t (b) =	1.25003 -0.00446 0.99995
y axis =	SORT [H2O()	Pa/760) (298/'	[[a)]	/ v axis =	SORT [H20 (7	[a/Pa)]

CALCULATIONS

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

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

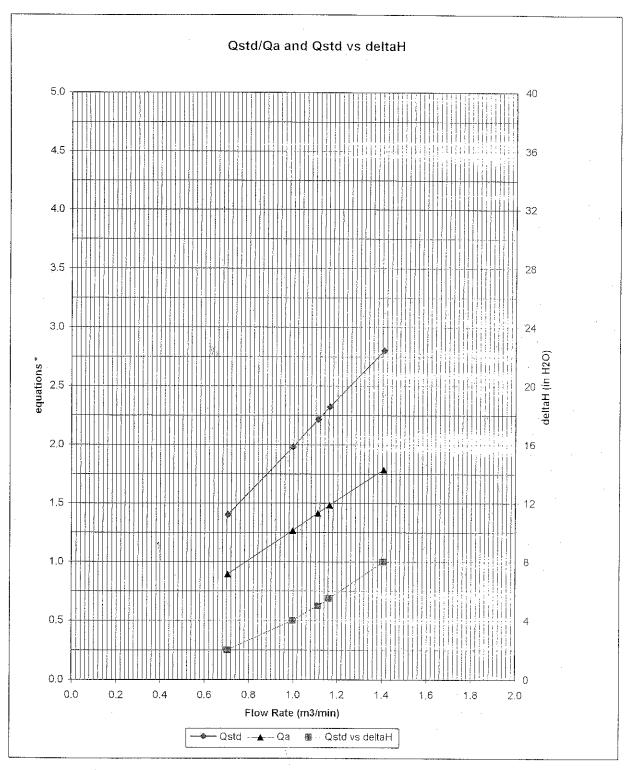
For subsequent flow rate calculations:

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



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



* y-axis equations:

Qstd series:

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

Qa series:

$$\sqrt{(\Delta H (\Upsilon a / P a))}$$

#0005

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location :		CMA1b		gii voiuille (Calbrati	_	:	10-Aug-10
Equipment no. :		EL452				Calbrati	on Due Date	:	10-Oct-10
CALIBRATION OF CONT	INUOUS F	LOW REC	<u>ORDER</u>						
	ı		A	Ambient Conditio	n				
Temperature, T _a	Temperature, T _a 305 Kelvin Pressure, P _a 1008 mmHg							mmHg	
			Orifice Tra	nsfer Standard Ir	nforma	tion			
Equipment No.	EL086	(Serial no.	9833620)	Slope, m _c	1.9962	28	Intercept, bo	;	-0.00699
Last Calibration Date		28-Jun-1	0		(Hx	P _a / 101	3.3 x 298 /	T_a	1/2
Next Calibration Date	Date 28-Jun-11 = $m_c \times Q_{std} + b_c$								
Calibration of RSP									
Calibration	Маі	nometer Re	eading	Q _{std}		Continu	ous Flow		IC
Point	н (inches of v	vater)	(m ³ / min.)		Reco	der, W	(W(P _a /1	013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis		(C	FM)		Y-axis
1	6.1	6.1	12.2	1.7285		Ę	59		58.1663
2	4.8	4.8	9.6	1.5337		5	52	51.2652	
3	3.8	3.8	7.6	1.3650		2	13		42.3924
4	2.4	2.4	4.8	1.0855		3	33		32.5337
5	1.5	1.5	3.0	0.8589		2	21		20.7033
By Linear Regression of Y	on X								
	Slope, m	=	42.70	671 	Int	tercept, b =	: -1 	5.1960	
Correlation C		=	0.99						
Calibration	Accepted	=	Yes/P	\0 **					
* if Correlation Coefficient	< 0.990, cł	neck and re	calibration ag	ain.					
** Delete as appropriate.									
Remarks :									
Calibrated by]	Derek Lo				Checke	d by	:	Cherry Mak
Date :	1	0-Aug-10				Date		:	10-Aug-10

Calibration Data for High Volume Sampler (TSP Sampler)

Location :		CMA2a		gii voluille Sali	Calbratio	-	:	06-Jul-10
Equipment no.		EL449			Calbration	on Due Date	:	06-Sep-10
CALIBRATION OF CONT	INUOUS F	LOW REC	ORDER					
			A	Ambient Condition				
Temperature, T _a		305		Kelvin Pressure, F	a		1008	mmHg
			Orifice Tra	nsfer Standard Inform	ation			
Equipment No.	EL086	(Serial no.	9833620)	Slope , m _c 1.990	628	Intercept, bo	:	-0.06990
Last Calibration Date		28-Jun-1	0	(H)	x P _a / 101	3.3 x 298 /	$T_a)^{1}$	[*] 2
Next Calibration Date		28-Jun-1	1	=	$= m_c x$	$Q_{std} + b_c$		
			C	Calibration of RSP				
Calibration	Mai	nometer Re	eading	Q _{std}	Continu	ous Flow		IC
Point	Н (inches of v	water)	(m ³ / min.)	Recor	der, W	(W(P _a /10	013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CI	=M)		Y-axis
1	6.1	6.1	12.2	1.7600	5	3		52.2511
2	5.0	5.0	10.0	1.5967	4	6		45.3500
3	3.9	3.9	7.8	1.4143	3	8		37.4630
4	2.4	2.4	4.8	1.1170	2	16		25.6326
5	1.4	1.4	2.8	0.8614	1	5		14.7880
By Linear Regression of Y Correlation C Calibration	Slope, m	= = =	41.5 0.99 Yes/	999	ntercept, b =	-2	0.9464	
* if Correlation Coefficient ** Delete as appropriate. Remarks:	< 0.990, cl	neck and re	calibration ag	ain.				
Calibrated by	I	Derek Lo			Checked	d by	:	Cherry Mak
Date :		6-Jul-10			Date		:	6-Jul-10

Calibration Data for High Volume Sampler (TSP Sampler)

Location :		CMA2a			Calbration Date	: 02-Sep-10
Equipment no.		EL449			Calbration Due Date	e : 02-Nov-10
CALIBRATION OF CONT	INUOUS F	LOW REC	ORDER			
			A	Ambient Condition		
Temperature, T _a		305		Kelvin Pressure , P _a	1	1001 mmHg
			Orifice Tra	ınsfer Standard Informa	ition	
Equipment No.	EL086	(Serial no.	9833620)	Slope, m _c 1.996	28 Intercept, b	-0.06990
Last Calibration Date		28-Jun-1	0	(Нх	P _a / 1013.3 x 298	/T _a) ^{1/2}
Next Calibration Date		28-Jun-1	1	=	$m_c \times Q_{std} + b_c$:
			(Calibration of RSP		
Calibration	Ma	nometer R	eading	Q _{std}	Continuous Flow	IC
Point	н	(inches of	water)	(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	6.1	6.1	12.2	1.7540	55	54.0342
2	5.0	5.0	10.0	1.5913	47	46.1747
3	4.0	4.0	8.0	1.4270	39	38.3152
4	2.4	2.4	4.8	1.1132	25	24.5610
5	1.5	1.5	3.0	0.8874	14	13.7542
By Linear Regression of Y	on X					
	Slope, m	=	46.1	153 In	tercept, b =	-27.0989
Correlation C	oefficient*	=	0.99	998		
Calibration	Accepted	=	Yes/P	\0 **		
* if Correlation Coefficient	< 0.990, cl	heck and re	calibration ag	ain.		
** Doloto ao annicata						
** Delete as appropriate.						
Remarks :						
		- · ·				
Calibrated by		Derek Lo			Checked by	: Cherry Mak
Date :	2	2-Sep-10			Date	: 2-Sep-10

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2009/05 Wan Chai Development Phase II and Central-Wan Chai Bypass

Sampling, Field Measurement and Testing Works (Stage 1)

Environmental Monitoring Schedule September 2010

Sunday	Monday		Tuesday		Wedn	esdav	Thursda	av	Frie	dav	Satu	ırday
22-Aug		23-Aug		24-Aug		25-Aug		26-Aug		27-Aug		28-Aug
		Ŭ		J		ū		Ü			24hr TSP	9
29-Aug		30-Aug		31-Aug		1-Sep		2-Sep		3-Sep		4-Sep
	1hr TSP x 3								24hr TSP		1hr TSP x 3	
			Noise (Day time)									
			Noise (Restricted hr)									
	Impact WQM						Impact WQM				Impact WQM	
	Mid-flood:	9:34					Mid-ebb:	6:00			Mid-ebb:	8:45
	Mid-ebb:	15:18					Mid-flood:	18:43			Mid-flood:	21:18
5-Sep		6-Sep		7-Sep		8-Sep		9-Sep		10-Sep		11-Sep
							24hr TSP		1hr TSP x 3			
			Noise (Day time)									
			Noise (Restricted hr)									
	Impact WQM				Impact WQM				Impact WQM			
		10:30			Mid-ebb:	12:06			Mid-flood:	7:18		
	Mid-flood:	17:35			Mid-flood:	18:33			Mid-ebb:	13:34		
12-Sep		13-Sep		14-Sep		15-Sep		16-Sep		17-Sep		18-Sep
					24hr TSP		1hr TSP x 3					
			Noise (Day time)									
			Noise (Restricted hr)									
	Impact WQM						Impact WQM				Impact WQM	
		3:17					Mid-ebb:	7:03			Mid-ebb:	9:08
	Mid-flood:	10:04					Mid-flood:	19:40			Mid-flood:	16:56
19-Sep		20-Sep		21-Sep		22-Sep		23-Sep		24-Sep		25-Sep
			Naine (Describera)		1hr TSP x 3				1hr TSP x 3			
			Noise (Day time)		24hr TSP		Nais - (Basisiana diba)					
	Improved MOM				lean and MOM		Noise (Restricted hr)		Imm a at MOM			
	Impact WQM Mid-ebb:	10.20			Impact WQM Mid-ebb:	44.40			Impact WQM Mid-ebb:	12:47		
		10:38 17:38			Mid-flood:	11:46 18:17			Mid-flood:	18:53		
26-Sep	Mid-1100d.	27-Sep			Mid-1100d.	10.17			IVIIG-IIOOG.	10.55		
	24hr TSP	27-3ep										
	27111 101											
	Impact WQM											
		8:41										
		14:19										
	IVIIG-GDD.	17.10							J		1	

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 October 2010

Sunday	Monday		Tuesday		Wedne	sday	Thurs	day	Fric	day	Satu	rday
				28-Sep		29-Sep		30-Sep		1-Oct		2-Oc
			1hr TSP x 3								24hr TSP	
			Noise (Day time)									
									Noise (Restricted	hr)		
					Impact WQM		Impact WQM		Impact WQM		Impact WQM	
					Mid-flood:	10:25	Mid-ebb:	3:42	Mid-flood:	18:04	Mid-ebb:	6:43
3-Oct		4-Oct		5-Oct		6-Oct		7-Oct		8-Oct		9-Oc
	1hr TSP x 3								24hr TSP		1hr TSP x 3	
			Noise (Day time)									
			Noise (Restricted hr) 1	900-2000								
	Impact WQM		,		Impact WQM				Impact WQM			
	Mid-ebb:	9:12			Mid-ebb:	10:58			Mid-ebb:	12:30		
	Mid-flood:	16:17			Mid-flood:	17:19			Mid-flood:	18:24		
10-Oct		11-Oct		12-Oct		13-Oct		14-Oct		15-Oct		16-Oc
							24hr TSP		1hr TSP x 3			
			Noise (Day time)								Noise (Restricted	hr)
	Impact WQM				Impact WQM						Impact WQM	
	Mid-flood:	9:03			Mid-ebb:	3:48					Mid-ebb:	7:07
	Mid-ebb:	14:43			Mid-flood:	11:16					Mid-flood:	15:35
17-Oct		18-Oct		19-Oct		20-Oct		21-Oct		22-Oct		23-Oc
					24hr TSP		1hr TSP x 3					
			Noise (Day time)									
			Noise (Restricted hr)									
	Impact WQM				Impact WQM				Impact WQM			
	Mid-ebb:	9:07			Mid-ebb:	10:38			Mid-ebb:	11:45		
	Mid-flood:	16:21			Mid-flood:	17:05			Mid-flood:	17:39		
24-Oct		25-Oct		26-Oct		27-Oct						
			24hr TSP		1hr TSP x 3							
			Noise (Day time)									
			Noise (Restricted hr)									
	Impact WQM				Impact WQM		Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb:	13:20			Mid-flood:	19:02			Mid-flood:	20:20		
	Mid-flood:	18:19					Mid-ebb:	2:27			Mid-ebb:	4:24

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, C7 (To be commenced in Nov 2010)
- Contract HK/2009/01: WSD7, WSD19, WSD20, C1, C2, C3, C4e, C4w (Commenced on 8 July 2010)
- Contract HK/2009/02: WSD21, C5e, C5w (Commenced on 8 July 2010)

Remarks (Air)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01: CMA5a and CMA6a (To be commenced when filling works)
- Contract HK/2009/02: CMA4a (To be commended when filling works)
- Contract HY/2009/11: CMA1b and CMA2a (Commenced on 11 Aug 2010)
- Contract HY/2009/15: CMA3a (Contract to be commenced in Nov 2010)

Remarks (Noise)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Noise Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01 and HK/2009/02: M1a (Commenced on 6 July 2010)
- Contract HY/2009/11: M4b, M5b (Commenced on 23 Mar 2010 when dredging work starts); M3a and M6 (To be commenced when filling work starts)
- Contract HY/2009/15: M2b (Contract to be commenced in Nov 2010)
- 4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).
- 5. Restricted hours noise (i.e. outside 07:00-19:00 of normal weekday) will be monitored for 3 nos. Leq(5min) as per the relevant Construction Noise Permit(s) in force for the following contract(s): Contracts HY/2009/11 and HK/2009/02

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
31/08/10	9:40	Sunny	72.5	75.6	66.5	69.2	70	75
07/09/10	10:30	Cloudy	72.2	74.9	66.3	69.2	69	75
14/09/10	9:50	Sunny	76.1	78.6	71.2	69.2	75	75
21/09/10	13:21	Drizzle	73.2	76.0	67.8	69.2	71	75

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
31/08/10	11:13	Sunny	77.5	81.4	69.3	-	78	75
07/09/10	13:40	Sunny	72.8	75.1	68.6	-	73	75
14/09/10	11:28	Cloudy	72.3	75.6	67.0	-	72	75
21/09/10	15:12	Drizzle	79.5	84.3	70.0	-	80	75

Location: M5b - City Garden

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
31/08/10	13:40	Sunny	69.4	70.8	67.0	-	69	75
07/09/10	14:25	Sunny	68.2	70.1	67.0	-	68	75
14/09/10	14:20	Cloudy	67.8	69.2	65.1	-	68	75
21/09/10	17:40	Drizzle	70.4	71.5	68.8	-	70	75



Noise Monitoring Result

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

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Average Noise Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
							Unit: dB(A), (5-min)		
31/08/10	20:00		66.7	68.1	64.9				
	20:05	Fine	67.1	68.4	65.3	66.9	-	67	70
	20:12		66.8	68.2	65.0				
07/09/10	21:24		66.3	68.2	64.2				
	21:30	Fine	66.4	68.3	64.3	66.4	-	66	70
	21:35		66.5	68.3	64.1				
14/09/10	20:32		68.6	70.2	65.2				
	20:37	Fine	68.0	69.7	65.5	68.0	-	68	70
	20:43		67.3	68.6	64.7				
23/09/10	10:57		66.4	68.0	63.8				
	11:03	Fine	66.1	67.7	63.1	66.2	-	66	70
	11:09		66.1	67.6	63.3				

Location: M5b - City Garden

			Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
						l	Jnit: dB(A), (5-min)		
31/08/10	20:33		66.1	67.1	64.9				
	20:39	Fine	66.4	67.2	65.2	66.6	-	67	70
	20:45		67.2	68.2	66.1				
07/09/10	22:02		66.3	67.2	64.8				
	22:07	Fine	66.0	67.0	64.8	66.0	-	66	70
	22:13		65.8	66.7	64.8				
14/09/10	21:15		66.6	67.7	65.2				
	21:26	Fine	66.2	67.1	65.2	66.4	-	66	70
	21:32		66.4	67.3	65.2				
23/09/10	11:40		67.3	68.4	65.7				
	11:46	Fine	67.1	68.4	65.9	67.1	-	67	70
	11:51		66.8	67.8	65.6				



Noise Monitoring Result

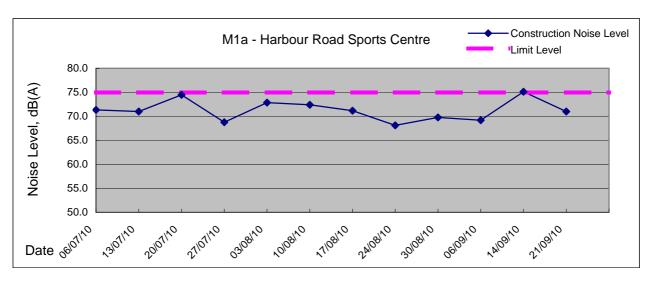
Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

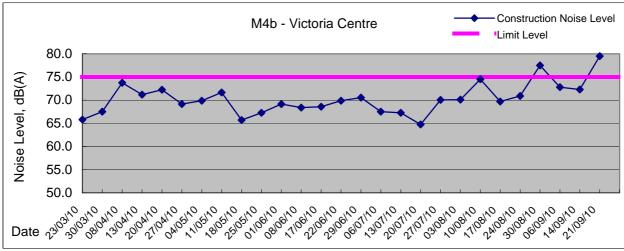
Location: M1a - Harbour Road Sports Center

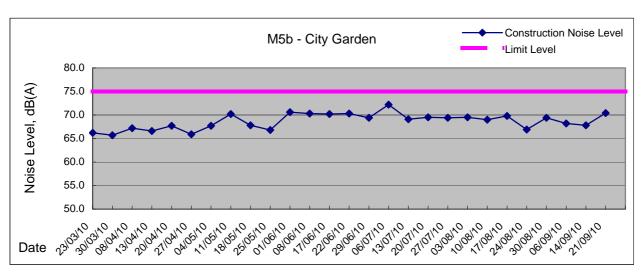
			Measur	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	Leq
						l	Jnit: dB(A), (5-min)		
31/08/10	19:03		72.6	76.2	67.3				
	19:09	Fine	71.5	73.8	66.6	72.4	60.1	72	70
	19:17		73.2	76.4	67.0				
07/09/10	20:00		72.4	74.5	69.0				
	20:06	Fine	73.5	76.5	68.8	73.3	60.1	73	70
	20:17		74.1	76.3	69.0				
14/09/10	19:15		72.3	74.9	68.2				
	19:20	Fine	73.2	75.8	69.1	73.1	-	73	70
	19:25		73.8	76.5	69.8				
23/09/10	10:00		68.5	71.2	62.8				
	10:08	Fine	67.3	70.5	62.5	69.0	-	69	70
	10:14		71.2	72.0	63.5				



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

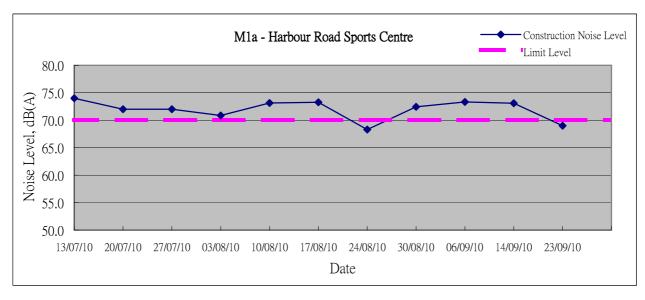


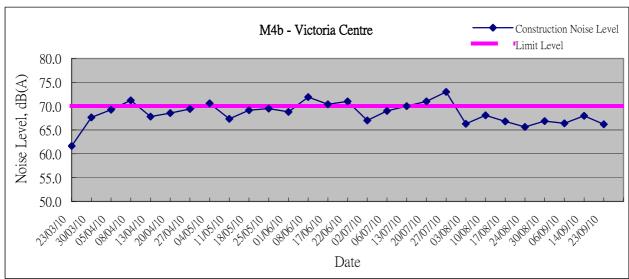


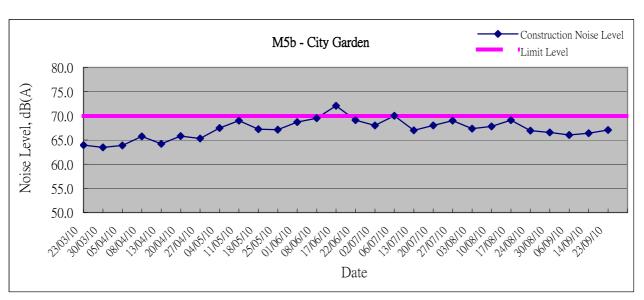




Graphic Presentation of Noise Monitoring Result
Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)







Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: CMA1b - Oil St Community Liaison Centre

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

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	mg/m³
27-Sep-10	8:00	Sunny	201192	2.7774	2.8868	8581.20	8605.20	24.00	1.25	1.25	1.25	1793	61

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

Date	Sampling	Weather		Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	mg/m³
30-Aug-10	10:50	Fine	201095	2.7840	2.8071	8523.20	8524.22	1.02	1.30	1.25	1.27	78	297
30-Aug-10	13:25	Fine	201096	2.7728	2.7947	8524.22	8525.25	1.03	1.25	1.22	1.23	76	287
30-Aug-10	14:33	Fine	201097	2.7830	2.8072	8525.25	8526.28	1.03	1.25	1.23	1.24	76	317
4-Sep-10	8:00	Cloudy	201098	2.7895	2.8088	8526.28	8527.31	1.03	1.24	1.25	1.25	77	251
4-Sep-10	11:05	Cloudy	201065	2.7748	2.7804	8527.31	8528.33	1.02	1.25	1.29	1.27	78	72
4-Sep-10	13:20	Cloudy	201066	2.7686	2.7727	8528.33	8529.36	1.03	1.20	1.20	1.20	74	55
10-Sep-10	8:00	Fine	201067	2.7736	2.7970	8529.36	8530.39	1.03	1.29	1.29	1.29	80	294
10-Sep-10	11:00	Fine	201162	2.7790	2.7888	8530.39	8531.41	1.02	1.29	1.29	1.29	79	124
10-Sep-10	13:15	Fine	201163	2.7794	2.7930	8531.41	8532.44	1.03	1.29	1.28	1.28	79	171
16-Sep-10	8:00	Fine	201159	2.7882	2.8033	8532.43	8533.46	1.03	1.27	1.26	1.26	78	193
16-Sep-10	10:50	Fine	201121	2.7973	2.8040	8533.46	8534.48	1.02	1.24	1.26	1.25	77	87
16-Sep-10	13:00	Fine	201122	2.7861	2.7891	8534.48	8535.50	1.02	1.26	1.24	1.25	77	39
24-Sep-10	8:00	Cloudy	201189	2.7881	2.7915	8578.20	8579.20	1.00	1.29	1.29	1.29	77	44
24-Sep-10	9:00	Cloudy	201190	2.7767	2.7782	8579.20	8580.20	1.00	1.27	1.29	1.28	77	20
24-Sep-10	10:00	Cloudy	201191	2.7780	2.7785	8580.20	8581.20	1.00	1.29	1.29	1.29	77	6



Location: CMA2a - Causeway Bay Community Centre

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

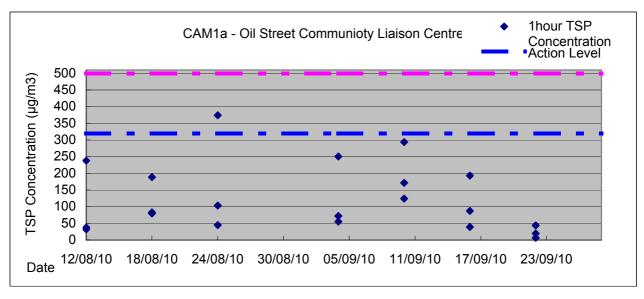
Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	e, hr	Sampling	Flo	ow Rate, m³/	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Aug-10	8:00	Fine	201004	2.7780	2.9293	12534.06	12558.06	24.00	1.47	1.47	1.47	2111	72
3-Sep-10	8:00	Cloudy	201099	2.7821	2.8745	12561.06	12585.06	24.00	1.46	1.45	1.45	2094	44
9-Sep-10	9:00	Cloudy	201064	2.7780	2.9466	12588.06	12612.06	24.00	1.45	1.45	1.45	2093	81
15-Sep-10	8:00	Fine	201158	2.7890	2.8587	12615.06	12639.06	24.00	1.41	1.41	1.41	2034	34
22-Sep-10	11:15	Cloudy	201143	2.7892	2.8512	12645.06	12669.06	24.00	1.39	1.41	1.40	2019	31
27-Sep-10	8:00	Sunny	201010	2.7696	2.8151	12669.06	12693.06	24.00	1.21	1.17	1.19	1708	27

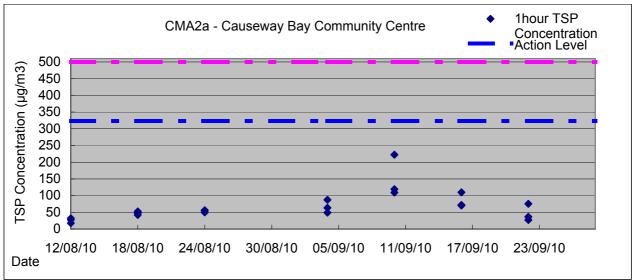
Report on 1-hour TSP monitoring
Action Level (µg/m3) - 323.4
Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	ow Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Aug-10	9:30	Fine	201079	2.7793	2.7861	12558.06	12559.06	1.00	1.44	1.44	1.44	86	79
30-Aug-10	10:35	Fine	201080	2.7805	2.7876	12559.06	12560.06	1.00	1.44	1.44	1.44	86	82
30-Aug-10	11:40	Fine	201081	2.7794	2.7896	12560.06	12561.06	1.00	1.46	1.46	1.46	88	116
4-Sep-10	10:55	Cloudy	201049	2.7461	2.7537	12585.06	12586.06	1.00	1.45	1.45	1.45	87	87
4-Sep-10	13:10	Cloudy	201050	2.7522	2.7577	12586.06	12587.06	1.00	1.41	1.47	1.44	87	64
4-Sep-10	14:30	Cloudy	201061	2.8018	2.8060	12587.06	12588.06	1.00	1.39	1.46	1.43	86	49
10-Sep-10	10:40	Fine	201152	2.7873	2.7977	12612.06	12613.06	1.00	1.45	1.45	1.45	87	119
10-Sep-10	11:45	Fine	201153	2.7916	2.8011	12613.06	12614.06	1.00	1.45	1.45	1.45	87	109
10-Sep-10	14:40	Fine	201154	2.7911	2.8102	12614.06	12615.06	1.00	1.43	1.43	1.43	86	222
16-Sep-10	11:05	Fine	201124	2.7900	2.7995	12639.06	12640.06	1.00	1.45	1.43	1.44	87	110
16-Sep-10	13:10	Fine	201125	2.7858	2.7918	12640.06	12641.06	1.00	1.43	1.41	1.42	85	70
16-Sep-10	14:30	Fine	201126	2.7894	2.7955	12641.06	12642.06	1.00	1.41	1.41	1.41	85	72
22-Sep-10	8:00	Rain	201127	2.7736	2.7800	12642.06	12643.06	1.00	1.41	1.41	1.41	85	76
22-Sep-10	9:05	Rain	201141	2.7867	2.7890	12643.06	12644.06	1.00	1.41	1.41	1.41	85	27
22-Sep-10	10:10	Rain	201142	2.7949	2.7980	12644.06	12645.06	1.00	1.41	1.41	1.41	85	37



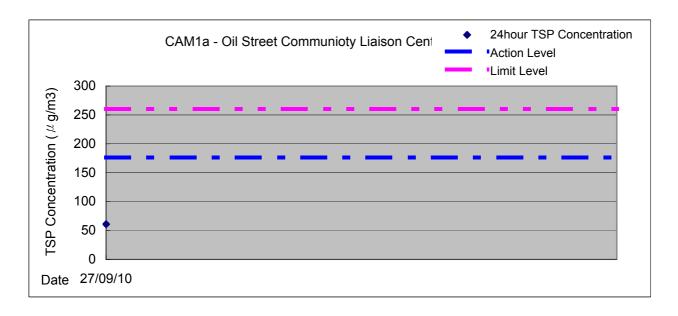
Graphic Presentation of 1 hour TSP Result

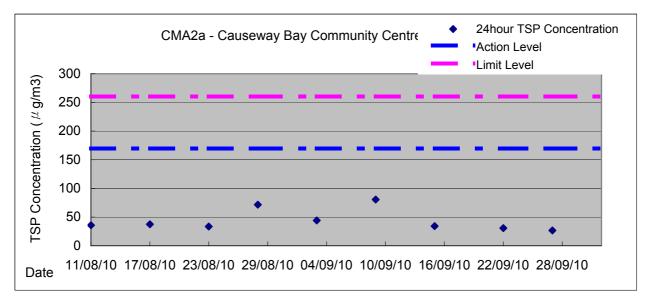






Graphic Presentation of 24 hour TSP Result





Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	OO Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	9:15	Cloudy	Middle	2.5	28.04	28.04	28.06	7.10	7.10	7.10	29.56	29.56	29.57	87.5	87.1	87.5	5.80	5.78	5.80	6.10	6.08	5.98	10	9.00
30/0/2010	9:18	Cloudy	Middle	2.5	28.07	28.07	20.00	7.10	7.10	7.10	29.58	29.58	29.51	87.8	87.4	07.5	5.82	5.79	3.00	5.91	5.84	5.90	8	9.00
2/9/2010	17:30	Rainy	Middle	2.0	28.83	28.84	28.85	7.62	7.63	7.58	31.21	31.23	31.25	85.6	85.6	85.0	5.63	5.61	5.54	0.95	0.93	1.09	3	3.00
	17:31	,	Middle	2.0	28.86	28.87		7.54	7.53		31.29	31.28		84.5	84.4		5.49	5.44		1.26	1.22		3	
4/9/2010	20:32	Cloudy	Middle	2.0	27.60	27.58	27.53	7.37	7.37	7.35	30.79	30.80	30.85	76.5	75.7	76.0	5.30	5.24	5.27	1.37	1.24	1.37	5	5.00
	20:33		Middle	2.0	27.44	27.48		7.34	7.33		30.91	30.91		77.0	74.8		5.35	5.20		1.50	1.35		5	<u> </u>
6/9/2010	17:52	Fine	Middle	2.0	27.99	27.99	28.00	7.06	7.06	7.05	31.16	31.17	31.17	56.8	57.6	59.0	3.74	3.79	3.88	3.09	2.96	3.03	5	4.50
	18:01		Middle	2.0	28.00	28.00		7.05	7.04		31.17	31.17		60.8	60.8		4.00	4.00		3.17	2.88		4	<u> </u>
8/9/2010	18:02	Fine	Middle	2.0	28.43	28.43	28.29	7.40	7.41	7.41	29.74	29.75	29.90	57.3	56.8	57.7	3.59	3.68	3.71	4.64	5.18	4.86	6	6.00
	18:07		Middle	2.0	28.15	28.15		7.42	7.42		30.06	30.06		60.7	56.1		3.91	3.67		4.85	4.78		6	<u> </u>
10/9/2010	7:23	Cloudy	Middle	2.5	27.90	27.90	28.00	7.82	7.82	7.82	31.26	31.26	31.26	65.7	65.6	65.5	4.46	4.46	4.45	3.07	2.88	2.97	12	13.00
	7:26		Middle	2.5	28.10	28.10		7.81	7.81		31.26	31.27		65.3	65.5		4.45	4.42		3.11	2.82		14	<u> </u>
13/9/2010	9:06	Sunny	Middle	2.0	27.30	27.30	27.40	7.78	7.78	7.83	29.53	29.53	29.55	59.5	59.6	59.6	4.00	3.98	4.00	6.18	5.79	6.21	7	6.00
	9:09		Middle	2.0	27.50	27.50		7.87	7.87		29.56	29.56	<u> </u>	59.8	59.6	<u> </u>	4.01	3.99		6.62	6.24	<u> </u>	5	<u> </u>
16/9/2010	18:15	Cloudy	Middle	2.0	29.34	29.34	29.36	7.43	7.43	7.42	29.52	29.52	29.52	76.2	77.6	76.7	4.95	5.04	4.98	3.01	2.80	3.02	5	5.50
	18:21		Middle Middle	2.0	29.37	29.37		7.41	7.41		29.52	29.52		74.7	78.3		4.86	5.08		2.93	3.34		7	
18/9/2010	16:55 17:01	Fine	Middle	2.0	29.92	29.92	29.87	7.20	7.20	7.20	29.36	29.37	29.39	77.6 78.4	78.1 79.4	78.4	4.96	4.97	4.94	2.73	2.46	2.68	7	7.00
	-		Middle	-	29.02	29.02		7.20	7.20		29.42	29.42		70.4	79.4		4.94	4.90		2.00	2.00		-	
20/9/2010	_	Rain	Middle		_	_	-		_	-	_	_	-	_	_	-	-	_	-		_	-		_
	17:23		Middle	2.0	27.29	27.29		6.87	6.87		29.80	29.80		65.6	66.4		4.40	4.46		3.51	3.57		5	
22/9/2010	17:30	Cloudy	Middle	2.0	27.28	27.28	27.29	6.88	6.87	6.87	29.81	29.81	29.81	64.2	65.7	65.5	4.25	4.41	4.38	3.35	3.13	3.39	4	4.50
	18:05		Middle	2.0	27.97	27.97		6.71	6.71		30.93	30.93		60.1	64.1		3.96	4.28		3.70	3.80		6	
24/9/2010	18:11	Fine	Middle	2.0	27.97	27.97	27.97	6.71	6.72	6.71	30.93	30.93	30.93	65.4	62.8	63.1	4.31	4.14	4.17	3.20	3.48	3.55	5	5.50
	7:31		Middle	2.0	26.90	26.90		7.95	7.95		30.66	30.66		77.0	75.8		5.01	4.93		2.97	3.12		5	
27/9/2010	7:34	Sunny	Middle	2.0	27.10	27.20	27.03	7.96	7.96	7.96	30.66	30.66	30.66	76.8	76.0	76.4	5.00	4.94	4.97	2.84	2.93	2.97	6	5.50



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L	-		Turbid NTU		Suspend	led Solids g/L
			n	n 	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	9:45	Cloudy	Middle	2.5	27.57	27.57	27.59	7.17	7.17	7.17	31.39	31.39	31.39	90.6	89.6	89.4	5.99	5.90	5.90	7.04	6.27	6.46	14	14.00
30/6/2010	9:48	Cloudy	Middle	2.5	27.60	27.60	27.59	7.16	7.16	7.17	31.39	31.39	31.39	89.1	88.3	09.4	5.88	5.81	5.90	6.43	6.10	0.40	14	14.00
2/9/2010	17:11	Rainy	Middle	2.0	28.55	28.52	28.65	7.49	7.48	7.48	31.17	31.19	31.19	86.4	87.4	85.9	5.66	5.69	5.56	2.55	2.46	2.82	5	5.50
2/9/2010	17:12	Kalliy	Middle	2.0	28.78	28.75	20.05	7.48	7.48	7.40	31.20	31.21	31.19	85.8	84.1	65.9	5.47	5.40	5.56	3.30	2.95	2.02	6	5.50
4/9/2010	19:50	Cloudy	Middle	2.0	28.61	28.58	28.49	7.32	7.32	7.36	31.92	32.14	32.06	74.8	76.1	75.1	5.08	5.14	5.07	1.96	1.85	1.84	8	9.00
4/9/2010	19:51	Cloudy	Middle	2.0	28.37	28.40	20.49	7.39	7.40	7.30	32.09	32.10	32.00	75.5	74.0	75.1	5.08	4.98	5.07	1.87	1.69	1.04	10	9.00
6/9/2010	16:36	Fine	Middle	2.0	28.04	28.04	28.20	6.98	6.98	6.99	31.34	31.34	31.45	67.9	69.7	68.6	4.55	4.58	4.53	3.97	4.05	4.47	11	10.00
0/9/2010	16:42	Tille	Middle	2.0	28.37	28.35	20.20	6.99	6.99	0.99	31.56	31.57	31.43	69.2	67.5	00.0	4.58	4.41	4.55	4.90	4.95	4.47	9	10.00
8/9/2010	17:06	Fine	Middle	2.0	28.75	28.75	28.71	7.18	7.18	7.18	30.46	30.40	30.34	56.4	59.3	59.1	3.65	3.75	3.74	5.66	5.84	5.94	10	9.50
8/9/2010	17:11	Tille	Middle	2.0	28.66	28.66	20.71	7.17	7.17	7.10	30.24	30.24	30.34	59.7	61.0	39.1	3.68	3.88	5.74	6.02	6.22	3.94	9	9.30
10/9/2010	6:53	- Cloudy	Middle	2.5	27.40	27.40	27.50	7.94	7.94	7.94	31.52	31.52	31.53	63.2	63.2	63.2	4.33	4.31	4.32	2.67	2.82	2.76	12	11.00
10/9/2010	6:55	Cloudy	Middle	2.5	27.60	27.60	27.50	7.93	7.93	7.94	31.53	31.53	31.55	63.2	63.1	03.2	4.31	4.31	4.52	2.88	2.66	2.70	10	11.00
13/9/2010	8:15	Sunny	Middle	2.0	26.30	26.30	26.40	7.76	7.77	7.82	29.59	29.59	29.41	53.0	51.6	52.2	3.70	3.72	3.68	6.31	6.97	6.73	8	8.00
13/9/2010	8:18	Juliny	Middle	2.0	26.50	26.50	20.40	7.87	7.87	7.02	29.23	29.23	29.41	53.2	51.0	32.2	3.63	3.68	3.00	6.82	6.81	0.73	8	0.00
16/9/2010	18:35	Cloudy	Middle	2.0	29.18	29.18	29.18	7.34	7.34	7.35	29.76	29.76	29.75	88.6	88.2	88.2	5.76	5.74	5.74	3.29	3.77	3.62	6	5.50
10/3/2010	18:42	Oloddy	Middle	2.0	29.18	29.18	23.10	7.35	7.35	7.00	29.74	29.74	25.75	88.1	87.8	00.2	5.73	5.71	5.74	3.62	3.81	3.02	5	0.50
18/9/2010	16:00	Fine	Middle	2.0	30.77	30.77	30.79	7.42	7.42	7.42	29.13	29.13	29.13	83.8	82.7	83.4	5.25	5.18	5.22	3.34	2.93	2.95	8	7.00
10/3/2010	16:06	Tillo	Middle	2.0	30.80	30.80	30.73	7.42	7.42	7.42	29.12	29.12	20.10	83.1	83.9	00.4	5.20	5.25	5.22	2.72	2.81	2.55	6	7.00
20/9/2010	-	Rain	Middle	1	-	-		-	-	_	1	-	_	-	-	_	-	-		-	-	_	-	_
20/3/2010	-	raiii	Middle	-	-	-		-	-		1	-		-	-		-	•		-	-		-	
22/9/2010	16:47	Cloudy	Middle	2.0	27.40	27.40	27.40	6.92	6.92	6.92	29.67	29.67	29.67	67.4	66.9	67.7	4.52	4.49	4.54	4.22	4.05	4.06	6	6.00
22,0/2010	16:54	Cloudy	Middle	2.0	27.39	27.39	27.70	6.92	6.93	0.02	29.67	29.67	20.01	67.5	68.9	01.1	4.53	4.62	1.07	3.90	4.07	1.00	6	0.00
24/9/2010	17:21	Fine	Middle	2.0	27.88	27.88	27.88	6.71	6.71	6.71	31.09	31.09	31.09	57.4	56.8	54.9	3.82	3.74	3.68	2.95	2.98	2.85	4	5.00
24,0,2010	17:27	1 1110	Middle	2.0	27.88	27.88	27.00	6.71	6.71	5.7 1	31.09	31.09	01.00	52.5	52.7	01.0	3.57	3.58	0.00	2.58	2.89	2.00	6	0.00
27/9/2010	8:02	Sunny	Middle	2.0	26.80	26.80	26.95	7.99	7.99	8.01	31.10	31.10	31.02	78.3	77.2	78.3	5.10	5.04	5.11	3.89	3.59	3.69	8	9.00
2170/2010	8:04	Carriny	Middle	2.0	27.10	27.10	20.00	8.02	8.02	0.01	30.94	30.94	01.02	79.3	78.4	7 5.5	5.17	5.11	0.11	3.77	3.52	0.00	10	0.00



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	10:30	Cloudy	Middle	2.5	28.15	28.15	28.15	7.00	7.00	7.00	30.83	30.83	30.83	74.7	75.8	74.5	4.91	5.00	4.91	5.45	5.06	5.15	5	5.00
30/0/2010	10:32	Oloddy	Middle	2.5	28.15	28.15	20.15	7.00	7.00	7.00	30.83	30.83	50.05	75.4	71.9	74.0	4.98	4.73	7.51	5.15	4.92	5.15	5	3.00
2/0/2010	19:55	Doiny	Middle	3.0	29.17	29.18	29.17	7.50	7.48	7.51	30.43	30.36	20.26	76.4	75.3	76.4	5.35	5.27	5.37	1.94	1.92	1.00	7	7.00
2/9/2010	19:56	Rainy	Middle	3.0	29.17	29.16	29.17	7.52	7.52	7.51	30.32	30.33	30.36	77.6	76.2	76.4	5.47	5.37	5.37	1.83	1.91	1.90	7	7.00
4/9/2010	22:21	Cloudy	Middle	3.0	28.04	28.02	28.06	7.45	7.44	7.43	31.78	30.80	31.09	85.6	83.8	81.9	5.84	5.71	F 64	1.20	1.18	1.11	2	2.50
4/9/2010	22:22	Cloudy	Middle	3.0	28.09	28.07	28.06	7.41	7.42	7.43	30.89	30.90	31.09	80.9	77.2	81.9	5.56	5.32	5.61	1.03	1.01	1,11	3	2.50
- 1- 1- 1	19:00		Middle	3.0	27.92	27.92		7.00	7.00		31.01	31.00		54.8	54.5		3.65	3.66		2.12	1.95		5	
6/9/2010	19:05	Fine	Middle	3.0	27.66	27.67	27.79	6.97	6.97	6.99	31.04	31.04	31.02	54.4	55.5	54.8	3.73	3.71	3.69	2.02	2.20	2.07	4	4.50
0/0/0040	19:39	E	Middle	2.5	28.89	28.89	00.04	7.51	7.51	7.54	31.85	31.85	04.05	56.2	56.1	50.0	3.83	3.83	0.77	1.77	1.74	4.00	3	0.00
8/9/2010	19:47	Fine	Middle	2.5	28.84	28.74	28.84	7.50	7.50	7.51	31.84	31.84	31.85	57.2	57.7	56.8	3.69	3.72	3.77	2.08	2.24	1.96	3	3.00
10/0/0010	8:10	011	Middle	3.0	27.80	27.80	00.00	7.96	7.96	7.07	31.68	31.68	04.70	63.8	63.9	00.7	4.29	4.28	4.07	7.24	7.06	0.07	11	40.50
10/9/2010	8:13	Cloudy	Middle	3.0	28.20	28.20	28.00	7.97	7.97	7.97	31.72	31.72	31.70	63.5	63.5	63.7	4.26	4.26	4.27	6.66	5.71	6.67	14	12.50
10/0/0010	11:49		Middle	2.5	26.20	26.20		7.95	7.95		31.51	31.51	04.40	53.9	51.9		3.63	3.50		4.42	4.41		4	
13/9/2010	11:52	Sunny	Middle	2.5	26.50	26.50	26.35	7.95	7.95	7.95	31.44	31.44	31.48	54.6	51.8	53.1	3.75	3.79	3.67	4.43	4.49	4.44	6	5.00
40/0/0040	19:49	Claudi	Middle	3.0	29.37	29.36	20.20	7.34	7.34	7.25	29.79	29.79	20.00	81.4	81.6	04.5	5.28	5.29	F 00	3.32	3.73	2.47	7	0.50
16/9/2010	19:56	Cloudy	Middle	3.0	29.36	29.36	29.36	7.35	7.35	7.35	29.80	29.80	29.80	81.3	81.5	81.5	5.28	5.28	5.28	3.41	3.40	3.47	6	6.50
19/0/2010	18:00	Fine	Middle	2.5	29.70	29.70	29.80	7.18	7.18	7.18	29.52	29.52	29.49	61.1	61.2	61.4	3.94	3.94	3.96	3.97	3.68	3.72	8	7.00
18/9/2010	18:07	rille	Middle	2.5	29.89	29.89	29.00	7.17	7.17	7.10	29.46	29.46	29.49	62.1	61.3	01.4	4.00	3.94	3.90	3.55	3.67	3.72	6	7.00
20/0/2010		Doin	Middle	-	-	-		-	-		-	-		-			-	i		-	-		-	
20/9/2010	-	Rain	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/0/2010	19:05	Cloudy	Middle	3.0	27.30	27.30	27.20	6.90	6.90	6.90	30.47	30.48	20.49	57.9	55.3	EG 1	3.87	3.69	2.75	2.02	2.00	1.90	4	3.50
22/9/2010	19:11	Cloudy	Middle	3.0	27.30	27.30	27.30	6.90	6.90	6.90	30.48	30.48	30.48	55.0	56.2	56.1	3.69	3.75	3.75	1.87	1.65	1.89	3	3.50
24/0/2010	19:05	Fine	Middle	3.0	27.42	27.42	27.42	6.64	6.64	6.64	31.54	31.54	24.54	52.5	52.4	F2.6	3.68	3.67	3.60	2.71	2.58	2.77	3	2.50
24/9/2010	19:11	Fine	Middle	3.0	27.42	27.42	27.42	6.63	6.63	6.64	31.54	31.54	31.54	52.6	52.9	52.6	3.69	3.71	3.69	2.99	2.80	2.77	4	3.50
27/0/0040	9:30	Current	Middle	2.5	27.80	27.80	20.45	8.14	8.14	0.45	31.18	31.18	24.24	83.8	83.4	00.0	5.45	5.42	F 20	4.19	4.42	4.00	8	0.00
27/9/2010	9:33	Sunny	Middle	2.5	28.50	28.50	28.15	8.15	8.15	8.15	31.23	31.23	31.21	82.7	81.7	82.9	5.37	5.30	5.39	4.30	4.26	4.29	8	8.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L	-		Turbid NTU		Suspend	led Solids g/L
			n	n 	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	10:11	- Cloudy	Middle	2.5	27.56	27.56	27.58	7.05	7.05	7.05	31.01	31.01	31.01	88.3	86.6	86.0	5.88	5.76	5.71	5.29	5.48	5.67	6	6.50
30/0/2010	10:14	Cloudy	Middle	2.5	27.59	27.59	27.50	7.05	7.05	7.05	31.01	31.01	31.01	84.0	85.0	00.0	5.57	5.63	5.71	6.02	5.89	3.07	7	0.50
2/9/2010	20:10	Rainy	Middle	2.5	29.81	29.80	29.43	7.63	7.64	7.65	31.43	31.42	31.39	80.5	80.7	81.1	5.64	5.67	5.69	0.92	0.94	1.01	3	3.50
2/9/2010	20:11	Kalliy	Middle	2.5	28.99	29.10	29.43	7.67	7.67	7.05	31.34	31.35	31.39	81.8	81.2	01.1	5.75	5.71	5.09	1.05	1.11	1.01	4	3.50
4/9/2010	22:37	Cloudy	Middle	2.5	27.67	27.68	27.67	7.37	7.38	7.37	30.79	30.80	30.80	77.6	77.5	77.1	5.38	5.37	5.37	2.33	2.31	2.09	3	3.50
4/3/2010	22:38	Cloudy	Middle	2.5	27.68	27.65	21.01	7.38	7.36	7.57	30.81	30.81	30.00	77.1	76.3	77.1	5.38	5.33	3.37	1.81	1.91	2.03	4	3.50
6/9/2010	19:16	Fine	Middle	2.5	28.43	28.43	28.36	7.12	7.12	7.13	30.87	30.87	31.07	60.9	60.6	61.8	3.99	3.97	4.07	2.17	1.81	1.96	3	3.50
0/3/2010	19:21	Tille	Middle	2.5	28.29	28.29	20.30	7.13	7.13	7.15	31.27	31.27	31.07	63.9	61.8	01.0	4.26	4.04	4.07	1.71	2.13	1.90	4	3.50
8/9/2010	20:03	Fine	Middle	2.5	28.16	28.16	28.56	7.51	7.51	7.51	31.81	31.81	31.87	57.3	55.7	56.2	3.68	3.59	3.67	2.37	1.98	2.49	2	2.50
0/3/2010	20:09	TIIIC	Middle	2.5	28.95	28.95	20.00	7.51	7.51	7.51	31.93	31.93	31.07	55.5	56.4	30.2	3.78	3.64	3.07	2.90	2.70	2.40	3	2.00
10/9/2010	7:47	Cloudy	Middle	2.5	27.80	27.80	27.95	7.56	7.56	7.55	30.84	30.84	30.85	70.4	70.9	70.3	4.76	4.76	4.68	4.12	4.17	3.95	9	7.50
10/9/2010	7:49	Cloudy	Middle	2.5	28.10	28.10	27.95	7.54	7.54	7.55	30.86	30.86	30.03	70.1	69.9	70.5	4.60	4.59	4.00	3.69	3.83	3.93	6	7.50
13/9/2010	11:35	Sunny	Middle	2.0	26.80	26.80	26.80	7.91	7.91	7.91	29.94	29.94	29.96	53.2	52.1	52.1	3.60	3.52	3.69	3.96	3.88	3.86	4	4.50
13/3/2010	11:38	Cullity	Middle	2.0	26.80	26.80	20.00	7.91	7.91	7.51	29.97	29.97	23.30	52.9	50.2	32.1	3.83	3.79	3.03	4.07	3.54	3.00	5	4.50
16/9/2010	20:02	Cloudy	Middle	3.0	29.15	29.14	29.16	7.48	7.48	7.48	30.22	30.22	30.22	70.0	68.5	67.7	4.54	4.48	4.39	2.78	2.89	2.58	4	6.50
10/3/2010	20:10	Oloddy	Middle	3.0	29.18	29.18	23.10	7.48	7.48	7.40	30.22	30.22	30.22	66.6	65.7	01.1	4.27	4.28	4.00	2.30	2.33	2.00	9	0.00
18/9/2010	18:18	Fine	Middle	2.5	29.40	29.40	29.41	7.19	7.19	7.20	30.29	30.29	30.28	78.0	77.1	76.9	4.92	4.91	4.88	2.14	1.74	1.82	5	4.00
10/3/2010	18:25	Tillo	Middle	2.5	29.41	29.42	23.41	7.20	7.20	7.20	30.27	30.27	30.20	75.5	77.0	70.5	4.80	4.90	4.00	1.65	1.76	1.02	3	4.00
20/9/2010	-	Rain	Middle	-	-	-		-	-	_	1	-	_	-	-	_	-	-		-	-	_	-	_
20/3/2010	-	raiii	Middle	-	-	-		-	-		1	-		-	-		-	•		-	-		-	
22/9/2010	19:25	Cloudy	Middle	3.0	27.16	27.16	27.16	6.88	6.89	6.89	31.01	31.01	31.02	58.5	59.7	58.3	3.91	3.99	3.90	3.74	3.78	3.74	6	5.50
22,3/2010	19:32	Cioday	Middle	3.0	27.15	27.15	27.10	6.89	6.89	0.00	31.02	31.02	01.02	57.5	57.6	55.5	3.85	3.84	J.30	3.72	3.70	0.17	5	0.00
24/9/2010	19:20	Fine	Middle	3.0	27.53	27.53	27.53	6.62	6.62	6.63	31.62	31.62	31.62	55.1	54.2	54.8	3.77	3.68	3.68	1.92	1.81	1.96	6	5.00
24/0/2010	19:29	1 1110	Middle	3.0	27.53	27.53	27.00	6.63	6.63	0.00	31.62	31.62	01.02	53.1	56.9	01.0	3.51	3.76	0.00	2.06	2.03	1.00	4	0.00
27/9/2010	8:35	Sunny	Middle	2.0	27.50	27.50	27.55	8.10	8.10	8.10	31.03	31.03	31.03	64.4	63.0	62.9	4.27	4.18	4.17	2.44	2.40	2.48	4	4.00
2.73/2010	8:38	Carriy	Middle	2.0	27.60	27.60	200	8.09	8.09	5.10	31.02	31.02	300	62.6	61.7	32.0	4.15	4.09		2.57	2.52	2.10	4	



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	С	O Satur	ation		DO mg/L	-		Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	12:49	Cloudy	Middle	1.5	27.88	27.88	27.92	6.78	6.78	6.76	30.84	30.84	30.84	76.2	75.2	75.2	5.03	4.96	4.96	7.07	7.12	6.91	22	16.00
30/6/2010	12:52	Cloudy	Middle	1.5	27.96	27.96	21.32	6.74	6.74	0.70	30.83	30.83	30.04	73.9	75.5	75.2	4.87	4.98	4.50	6.88	6.56	0.91	10	10.00
2/9/2010	19:40	Rainy	Middle	1.5	27.81	27.80	27.78	7.12	7.11	7.11	29.14	29.17	29.18	74.8	73.2	73.9	5.64	5.53	5.61	3.54	3.66	3.52	7	7.00
2/9/2010	19:41	Kalliy	Middle	1.5	27.75	27.76	21.16	7.11	7.10	7.11	29.22	29.20	29.10	74.6	73.1	73.9	5.63	5.62	5.01	3.41	3.47	3.32	7	7.00
4/9/2010	22:05	Cloudy	Middle	1.5	28.13	28.13	28.12	7.37	7.36	7.36	30.98	30.97	30.98	77.7	75.1	75.5	5.47	5.28	5.31	2.53	2.56	2.48	5	5.00
4/3/2010	22:06	Cloudy	Middle	1.5	28.12	28.11	20.12	7.36	7.36	7.50	30.99	30.99	30.90	75.0	74.1	75.5	5.28	5.22	3.31	2.52	2.32	2.40	5	3.00
6/9/2010	18:46	Fine	Middle	1.5	28.10	28.11	28.15	6.96	6.96	6.96	30.94	30.94	30.94	63.9	61.3	62.3	4.20	4.06	4.10	3.83	4.15	3.83	7	7.50
0/3/2010	18:52	Tille	Middle	1.5	28.19	28.19	20.13	6.96	6.95	0.90	30.94	30.93	30.94	63.4	60.5	02.5	4.19	3.95	4.10	3.64	3.70	3.03	8	7.50
8/9/2010	19:28	Fine	Middle	1.5	28.10	28.10	28.41	7.08	7.08	7.04	30.33	30.33	30.52	57.0	56.1	56.4	3.72	3.66	3.68	4.59	4.43	4.34	5	6.50
8/3/2010	19:34	Tille	Middle	1.5	28.71	28.71	20.41	7.00	7.00	7.04	30.70	30.70	30.32	56.5	55.8	30.4	3.70	3.64	3.00	4.22	4.12	4.54	8	0.30
10/9/2010	10:02	Cloudy	Middle	2.0	27.50	27.50	27.60	7.94	7.94	7.95	30.72	30.72	30.74	64.2	64.1	63.6	4.26	4.25	4.25	7.57	6.90	6.99	8	7.50
10/9/2010	10:04	Cloudy	Middle	2.0	27.70	27.70	27.00	7.95	7.95	7.95	30.75	30.75	30.74	63.0	63.2	03.0	4.24	4.23	4.25	6.84	6.66	0.99	7	7.50
13/9/2010	12:44	Sunny	Middle	1.5	27.10	27.10	27.25	7.91	7.91	7.91	30.34	30.34	30.28	52.4	49.8	50.5	3.50	3.31	3.37	5.84	5.67	5.53	6	6.50
13/9/2010	12:47	Suring	Middle	1.5	27.40	27.40	27.25	7.91	7.91	7.91	30.22	30.22	30.26	50.2	49.4	50.5	3.35	3.30	3.37	5.22	5.37	5.55	7	0.50
16/9/2010	19:34	Cloudy	Middle	1.5	28.36	28.36	28.34	7.27	7.27	7.27	29.27	29.27	29.29	61.8	57.7	60.7	4.09	3.79	4.01	6.47	6.68	6.50	11	12.00
10/9/2010	19:39	Cloudy	Middle	1.5	28.31	28.31	20.54	7.27	7.27	1.21	29.30	29.30	29.29	62.9	60.2	00.7	4.16	3.99	4.01	6.38	6.46	0.50	13	12.00
18/9/2010	17:44	Fine	Middle	1.5	29.83	29.84	29.85	7.25	7.25	7.25	28.70	28.70	28.70	66.8	63.1	66.1	4.32	4.08	4.28	6.43	6.23	6.27	12	11.50
10/3/2010	17:51	Tillo	Middle	1.5	29.86	29.86	20.00	7.24	7.24	7.20	28.70	28.70	20.70	66.6	67.9	00.1	4.31	4.40	4.20	6.36	6.05	0.27	11	11.50
20/9/2010	-	Rain	Middle	1	-	-		ı	-	_	-	-	_	-	-	_	-	-		-	-	_	•	_
20/3/2010	-	Nain	Middle	-	-	-		ı	-		-	-		-	-		-	•		-	-		-	
22/9/2010	18:42	Cloudy	Middle	1.5	26.93	26.92	26.92	6.76	6.76	6.77	29.96	29.96	29.97	60.6	61.7	62.0	4.09	4.16	4.18	4.72	4.65	4.56	8	9.00
22,0/2010	18:49	Cloudy	Middle	1.5	26.91	26.91	20.02	6.77	6.77	0.11	29.97	29.97	20.01	63.0	62.5	02.0	4.25	4.22	7.10	4.25	4.62	1.00	10	0.00
24/9/2010	18:47	Fine	Middle	1.5	28.23	28.23	28.22	6.70	6.70	6.69	30.57	30.57	30.59	53.1	57.2	55.8	3.50	3.76	3.67	7.53	7.41	7.29	9	10.00
24/0/2010	18:55	1 1110	Middle	1.5	28.21	28.21	20.22	6.68	6.68	0.00	30.61	30.61	00.00	56.5	56.4	55.5	3.72	3.71	0.01	7.05	7.18	7.20	11	10.00
27/9/2010	8:12	Sunny	Middle	1.5	26.80	26.80	26.95	8.05	8.05	8.05	31.08	31.08	31.08	84.7	83.0	83.6	5.67	5.53	5.59	9.03	8.13	8.08	22	20.00
21/3/2010	8:15	Carriny	Middle	1.5	27.10	27.10	20.00	8.04	8.04	0.00	31.08	31.08	01.00	83.8	83.0	33.0	5.61	5.55	0.00	7.84	7.33	0.00	18	20.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	OO Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	12:28	Cloudy	Middle	1.5	28.06	28.06	28.09	6.94	6.94	6.04	30.84	30.84	30.85	85.3	85.1	94.6	5.61	5.59	5.56	7.71	7.43	7.24	12	12.50
30/6/2010	12:31	Cloudy	Middle	1.5	28.11	28.11	20.09	6.93	6.93	6.94	30.85	30.85	30.05	83.1	84.9	84.6	5.45	5.57	5.56	6.86	6.94	7.24	13	12.50
2/9/2010	19:30	Rainy	Middle	1.5	29.42	29.45	29.50	7.37	7.38	7.39	30.57	30.56	30.55	74.3	73.1	72.7	5.62	5.58	5.47	2.13	2.38	2.21	8	7.50
2/3/2010	19:31	rtuiry	Middle	1.5	29.57	29.56	20.00	7.40	7.41	7.00	30.54	30.54	00.00	72.4	71.0	72.7	5.46	5.21	0.11	2.22	2.11	2.21	7	7.00
4/9/2010	21:55	Cloudy	Middle	1.5	28.11	28.10	28.09	7.08	7.09	7.08	30.06	30.06	30.06	45.5	42.2	44.0	3.22	2.98	<u>3.12</u>	3.44	3.42	3.54	4	4.00
	21:56	,	Middle	1.5	28.06	28.08		7.07	7.07		30.04	30.06		44.7	43.7		3.17	3.10		3.64	3.65		4	
6/9/2010	18:37	Fine	Middle	1.5	28.67	28.56	28.59	6.99	7.00	7.00	29.87	29.84	29.85	52.4	52.0	51.5	3.40	3.30	3.41	2.10	1.94	2.39	7	8.00
	18:42		Middle	1.5	28.56	28.56		7.00	7.01		29.84	29.84		50.3	51.2		3.45	3.48		2.77	2.74		9	<u> </u>
8/9/2010	19:19	Fine	Middle	1.5	28.34	28.33	28.40	7.02	7.02	7.01	30.79	30.78	30.75	59.7	60.1	59.7	3.93	3.95	3.93	5.78	5.52	5.38	7	8.00
	19:25		Middle	1.5	28.46	28.47		7.00	7.00		30.71	30.70		59.8	59.2		3.92	3.91		5.16	5.07		9	<u> </u>
10/9/2010	9:44	Cloudy	Middle	2.0	27.10	27.10	27.10	7.98	7.98	7.97	30.85	30.84	30.85	53.2	51.9	51.9	3.53	3.47	3.47	9.19	7.72	7.90	9	9.00
	9:46		Middle	2.0	27.10	27.10		7.95	7.95		30.85	30.85		51.2	51.1		3.43	3.43		7.44	7.23		9	<u> </u>
13/9/2010	12:30	Sunny	Middle	2.0	26.70	26.70	26.70	7.95	7.95	7.96	30.29	30.30	30.30	61.8	58.1	59.4	4.49	3.91	4.08	5.45	5.13	5.26	9	8.00
	12:34		Middle	2.0	26.70	26.70		7.97	7.97		30.29	30.31		57.4	60.4		3.86	4.07		5.27	5.19		7	<u> </u>
16/9/2010	19:27	Cloudy	Middle	1.5	28.54	28.54	28.53	7.27	7.27	7.27	29.28	29.28	29.29	60.1	58.1	58.4	3.96	3.70	3.82	6.46	5.88	6.17	9	9.00
	19:32		Middle	1.5	28.51	28.51		7.26	7.26		29.30	29.30		57.6	57.8		3.80	3.81		5.91	6.42		9	
18/9/2010	17:35	Fine	Middle	1.5	30.11	30.27	30.22	7.06	7.06	7.07	27.26	27.26	27.28	57.1	57.4	57.0	3.70	3.72	3.69	13.70	13.50	<u>13.50</u>	13	13.00
	17:40		Middle	1.5	30.25	30.25		7.08	7.08		27.29	27.29		56.2	57.1		3.64	3.71		13.30	13.50		13	<u> </u>
20/9/2010		Rain	Middle		-	-	-		-	-	-	-	-	-	-	-			-	-	-	-	-	_
	40.00		Middle	-	-	- 00.04		- 0.00			- 00.57	- 20.57		-	-		4.04	1.00					-	
22/9/2010	18:32	Cloudy	Middle Middle	1.5	26.84	26.84	26.85	6.68	6.67	6.68	29.57	29.57	29.57	59.6	59.0	59.2	4.04	4.00	4.01	5.18	5.28	5.51	10	11.00
	18:39		Middle	1.5	27.45	26.85			6.69			29.56		58.8	59.5 53.8		3.98	4.03 3.57		5.69 6.90	5.89		12	
24/9/2010	18:37	Fine	Middle	1.5	27.45	27.45	27.45	6.54	6.55 6.55	6.55	31.05	31.06	31.06	54.4	53.8	53.4	3.39	3.57	3.54	7.51	7.40	7.26	12	12.50
	7:47		Middle	1.5	27.44	27.20		8.03	8.03		31.07	31.07		74.9	73.1		4.95	4.83		6.62	6.45		18	
27/9/2010	7:50	Sunny	Middle	1.5	27.70	27.70	27.45	8.04	8.04	8.04	31.11	31.11	31.19	74.9	76.1	74.7	4.95	5.02	4.93	6.52	6.04	6.41	20	19.00
	7.50		iviidale	1.5	21.10	21.10		0.04	0.04		31.11	31.11		14.0	70.1		4.92	5.02		0.02	0.04		20	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	9:30	Claudi	Middle	2.0	27.30	27.20	07.40	7.02	7.01	7.05	32.70	32.00	32.40	78.6	78.5	77.0	5.42	5.41	F 20	3.64	3.44	2.50	7	7.50
30/8/2010	9:30	Cloudy	Middle	2.0	27.50	27.70	27.43	7.10	7.08	7.05	32.60	32.30	32.40	80.0	73.4	77.6	5.59	5.11	5.38	3.61	3.55	3.56	8	7.50
2/9/2010	18:50	Rainy	Middle	2.5	27.65	27.64	27.63	7.42	7.40	7.39	30.78	30.80	30.81	83.6	82.7	82.7	5.79	5.74	5.73	1.21	1.42	1.37	4	4.50
2/9/2010	18:51	Itality	Middle	2.5	27.63	27.61	27.03	7.38	7.37	7.55	30.82	30.83	30.01	82.3	82.0	02.7	5.70	5.67	5.75	1.57	1.29	1.57	5	4.30
4/9/2010	21:26	Cloudy	Middle	2.5	28.60	28.59	28.61	7.24	7.25	7.25	30.55	30.57	30.59	67.4	64.8	65.6	4.66	4.48	4.53	1.83	2.09	1.92	4	4.00
4/3/2010	21:27	Oloudy	Middle	2.5	28.61	28.63	20.01	7.25	7.26	7.20	30.60	30.62	00.00	66.6	63.4	00.0	4.60	4.38	1.00	1.82	1.94	1.02	4	1.00
6/9/2010	19:05	Fine	Middle	2.5	28.57	28.56	28.53	7.17	7.17	7.17	30.08	30.08	30.11	71.1	69.7	71.1	4.51	4.50	4.58	3.63	3.41	3.35	4	4.00
6/6/2010	19:10	0	Middle	2.5	28.49	28.49	20.00	7.17	7.17		30.14	30.14	00	71.5	72.2		4.66	4.64		3.10	3.27	0.00	4	
8/9/2010	18:34	Fine	Middle	2.5	28.89	28.88	28.85	7.48	7.41	7.44	30.20	30.20	30.21	57.0	60.1	57.1	3.82	3.83	3.76	4.74	4.73	4.76	6	6.00
	18:39		Middle	2.5	28.82	28.82		7.42	7.43		30.21	30.21		55.0	56.3	-	3.69	3.68		4.78	4.77		6	
10/9/2010	7:55	Cloudy	Middle	2.5	25.10	24.80	25.00	7.98	7.93	7.94	32.60	32.10	32.38	58.7	55.0	55.7	4.06	3.82	3.87	3.66	3.66	3.70	9	10.50
	7:58	,	Middle	2.5	24.90	25.20		7.95	7.91	_	32.50	32.30		55.6	53.6		3.87	3.71		3.79	3.68		12	
13/9/2010	10:05	Sunny	Middle	2.5	24.90	25.20	24.90	6.74	6.78	6.76	30.10	29.80	29.95	56.1	57.9	55.0	3.99	4.12	3.84	3.79	3.79	3.76	7	7.50
	10:08		Middle	2.5	24.80	24.70		6.75	6.75		29.90	30.00		53.3	52.8		3.64	3.59		3.73	3.71		8	<u> </u>
16/9/2010	19:20	Cloudy	Middle	2.0	28.38	28.38	28.37	7.20	7.19	7.20	29.30	29.31	29.34	53.9	53.7	54.7	3.57	3.56	3.62	3.21	3.35	3.36	6	6.00
	19:25		Middle	2.0	28.36	28.35		7.19	7.20		29.37	29.37		54.4	56.8		3.60	3.76		3.41	3.46		6	
18/9/2010	18:35	Fine	Middle	2.0	28.75	28.75	28.75	7.06	7.06	7.07	28.95	28.95	28.95	57.9	62.0	60.3	3.81	4.08	3.96	2.96	2.93	2.65	7	6.00
	18:40		Middle	2.0	28.75	28.75		7.07	7.07		28.95	28.95		61.1	60.0		4.02	3.94		2.38	2.34		5	
20/9/2010	1	Rain	Middle	-	-	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-	I	-	
22/9/2010	18:35	Cloudy	Middle	2.0	27.04	27.04	27.03	6.77	6.77	6.77	29.78	29.78	29.79	56.9	57.7	57.3	3.89	3.89	3.88	3.30	3.38	3.24	3	3.00
	18:40		Middle	2.0	27.02	27.02		6.77	6.77		29.80	29.80		57.4	57.1		3.87	3.86		3.08	3.18	<u> </u>	3	<u> </u>
24/9/2010	19:05	Fine	Middle	2.0	27.22	27.22	27.23	6.56	6.57	6.57	30.97	30.97	30.98	50.7	50.2	51.0	3.39	3.36	3.40	2.63	2.47	2.38	4	4.00
	19:10		Middle	2.0	27.23	27.23		6.57	6.56		30.99	30.99		52.3	50.6		3.49	3.37		2.25	2.15	<u> </u>	4	<u> </u>
27/9/2010	10:50	Sunny	Middle	2.5	28.70	28.90	28.68	7.93	7.92	7.93	30.10	30.30	30.25	97.4	94.6	93.7	6.77	6.56	6.51	2.36	2.30	2.33	6	5.50
	10:53		Middle	2.5	28.50	28.60		7.94	7.93		30.40	30.20		91.9	90.7		6.40	6.30		2.39	2.28		5	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	9:11	Cloudy	Middle	1.5	27.60	26.90	27.35	7.05	7.03	7.01	31.70	31.00	31.35	66.0	62.8	62.9	4.63	4.37	4.39	3.53	3.43	3.47	6	7.00
30/6/2010	9:14	Cloudy	Middle	1.5	27.10	27.80	21.33	6.97	6.98	7.01	31.50	31.20	31.33	61.6	61.3	02.9	4.29	4.25	4.39	3.42	3.51	3.47	8	7.00
2/0/2010	20:35	Doiny	Middle	2.0	27.83	27.82	27.81	7.27	7.27	7.07	30.64	30.63	20.66	85.8	85.3	05.0	5.93	5.90	F 00	1.31	1.15	4 45	6	5.00
2/9/2010	20:36	Rainy	Middle	2.0	27.81	27.78	27.81	7.26	7.27	7.27	30.68	30.67	30.66	85.0	85.0	85.3	5.88	5.80	5.88	1.01	1.12	1.15	4	5.00
4/9/2010	21:41	Cloudy	Middle	2.0	28.54	28.53	28.51	7.32	7.32	7.33	30.60	30.61	30.62	67.9	68.6	68.1	4.67	4.72	4.68	1.11	1.16	1.17	4	4.00
4/9/2010	21:42	Cloudy	Middle	2.0	28.48	28.49	20.51	7.33	7.34	7.55	30.64	30.64	30.02	69.4	66.3	00.1	4.78	4.56	4.00	1.14	1.26	1.17	4	4.00
6/9/2010	18:54	Fine	Middle	2.0	28.64	28.63	28.61	7.12	7.13	7.12	30.37	30.38	30.41	72.0	71.6	71.4	4.61	4.64	4.60	2.33	1.98	2.14	3	4.00
6/9/2010	18:59	rine	Middle	2.0	28.58	28.57	20.01	7.12	7.12	7.12	30.43	30.44	30.41	71.4	70.7	71.4	4.60	4.56	4.00	2.05	2.18	2.14	5	4.00
8/9/2010	19:55	Fine	Middle	2.0	28.89	28.89	28.85	7.34	7.34	7.35	30.01	30.01	30.03	55.7	54.4	55.3	3.81	3.86	3.73	2.40	2.36	2.35	3	3.50
0/3/2010	20:01	Tillo	Middle	2.0	28.80	28.80	20.00	7.36	7.36	7.55	30.04	30.04	30.03	54.5	56.6	33.3	3.66	3.60	0.70	2.35	2.27	2.00	4	3.30
10/9/2010	7:40	Cloudy	Middle	2.0	24.80	24.50	24.65	7.99	7.92	7.94	32.00	31.80	31.90	72.2	70.9	70.3	5.05	4.98	4.93	4.52	4.48	4.31	8	8.00
10/9/2010	7:43	Cloudy	Middle	2.0	24.60	24.70	24.03	7.90	7.93	7.54	31.70	32.10	31.90	70.6	67.5	70.5	4.93	4.75	4.93	4.21	4.01	4.51	8	0.00
13/9/2010	9:45	Sunny	Middle	2.0	25.60	25.70	25.68	7.71	7.70	7.71	31.40	31.50	31.48	54.7	54.3	53.6	3.69	3.67	3.63	2.99	3.07	3.06	15	13.50
13/3/2010	9:48	Outiny	Middle	2.0	25.90	25.50	20.00	7.72	7.71	7.71	31.60	31.40	31.40	53.1	52.4	33.0	3.60	3.56	0.00	3.05	3.11	3.00	12	13.30
16/9/2010	20:58	Cloudy	Middle	2.0	28.56	28.56	28.55	7.33	7.33	7.33	29.07	29.07	29.08	67.4	66.6	68.2	4.48	4.40	4.48	3.91	3.40	3.62	8	7.00
10/0/2010	21:04	Oloddy	Middle	2.0	28.54	28.54	20.00	7.33	7.33	7.00	29.09	29.09	20.00	70.1	68.8	00.2	4.49	4.54	1.10	3.79	3.36	0.02	6	7.00
18/9/2010	17:42	Fine	Middle	2.0	29.23	29.23	29.26	7.23	7.23	7.23	28.11	28.12	28.10	51.2	56.0	53.5	3.36	3.67	3.51	2.15	2.00	1.94	5	4.50
10,0,2010	17:50	1 1110	Middle	2.0	29.29	29.29	20:20	7.23	7.23	7.20	28.09	28.09	20.10	51.7	54.9	00.0	3.39	3.60	0.01	1.82	1.78		4	
20/9/2010	-	Rain	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	_
20/0/2010	-	raiii	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/9/2010	18:15	Cloudy	Middle	2.0	26.91	26.91	26.91	6.64	6.63	6.64	29.57	29.57	29.57	59.5	59.0	58.4	4.02	3.99	3.94	2.00	1.94	1.96	3	3.50
22/0/2010	18:20	oloudy	Middle	2.0	26.91	26.91	20.01	6.65	6.64	0.0 .	29.57	29.58	20.01	57.6	57.3	0011	3.87	3.87	0.0 .	1.72	2.16		4	0.00
24/9/2010	18:52	Fine	Middle	2.0	27.22	27.22	27.22	6.60	6.60	6.58	30.80	30.80	30.80	60.1	57.8	56.3	4.02	3.67	3.71	1.97	1.64	1.70	3	2.50
2 ., 3/2010	19:00	0	Middle	2.0	27.21	27.21		6.56	6.56	5.50	30.80	30.80	22.00	53.8	53.3	33.0	3.59	3.56	J., 1	1.57	1.60	0	2	
27/9/2010	9:40	Sunny	Middle	1.5	28.80	28.90	28.70	7.83	7.84	7.83	31.00	31.20	31.05	76.6	78.1	77.2	5.05	5.15	5.09	2.83	2.72	2.75	6	6.00
2.,0,20.0	9:43	55	Middle	1.5	28.50	28.60	200	7.82	7.83		31.10	30.90	000	77.5	76.4		5.10	5.05		2.73	2.71	20	6	0.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids a/L
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	10:41	Cloudy	Middle	2.5	28.20	27.90	27.88	7.20	7.11	7.14	31.20	31.40	31.28	69.8	66.2	66.9	4.86	4.58	4.63	6.01	5.65	5.43	11	10.00
30/0/2010	10:44	Cloudy	Middle	2.5	28.30	27.10	27.00	7.13	7.12	7.14	31.00	31.50	31.20	65.8	65.7	00.9	4.55	4.53	4.00	5.01	5.03	5.45	9	10.00
2/9/2010	20:17	Rainy	Middle	3.0	27.73	27.73	27.75	7.29	7.28	7.28	30.61	30.61	30.61	80.3	79.4	78.7	5.56	5.53	5.47	1.28	1.25	1.28	2	2.50
2,0,2010	20:18	. tuy	Middle	3.0	27.72	27.80	210	7.28	7.28	7.120	30.60	30.62	00.01	77.7	77.4		5.42	5.38	0	1.25	1.32	20	3	2.00
4/9/2010	23:02	Cloudy	Middle	3.0	28.43	28.44	28.45	7.35	7.36	7.36	30.67	30.68	30.69	72.8	74.4	71.5	5.01	5.12	4.93	1.65	1.73	1.70	4	5.00
	23:03	,	Middle	3.0	28.46	28.45		7.36	7.35		30.69	30.70		69.2	69.7		4.77	4.80		1.69	1.71		6	
6/9/2010	18:29	Fine	Middle	3.0	28.96	28.96	28.79	7.09	7.09	7.09	30.50	30.49	30.49	67.5	65.2	65.7	4.38	4.24	4.27	2.97	2.92	3.01	6	6.00
	18:34		Middle	3.0	28.62	28.62		7.09	7.09		30.48	30.48		65.0	65.0		4.23	4.23		3.08	3.07		6	<u> </u>
8/9/2010	19:44	Fine	Middle	2.5	28.89	28.91	28.91	6.98	6.97	6.97	30.00	30.00	30.00	60.8	61.2	60.6	3.98	3.99	3.96	4.35	4.22	4.31	5	5.00
	19:50		Middle	2.5	28.91	28.91		6.97	6.97		30.00	30.01		59.4	61.1		3.89	3.99		4.37	4.31		5	
10/9/2010	8:54	Cloudy	Middle	3.0	24.50	24.10	24.40	7.92	7.91	7.91	32.70	32.00	32.38	66.9	67.9	65.6	4.65	4.70	4.55	5.09	4.73	4.85	8	9.00
	8:57		Middle	3.0	24.40	24.60		7.88	7.93		32.50	32.30		64.4	63.3		4.45	4.38		4.80	4.78		10	
13/9/2010	11:12	Sunny	Middle	2.5	25.70	25.90	25.73	7.76	7.74	7.76	33.10	33.00	32.80	65.3	58.2	58.8	4.41	3.94	3.99	6.02	5.60	5.45	14	13.00
	11:15	<u> </u>	Middle	2.5	25.50	25.80		7.75	7.77		32.80	32.30		56.2	55.6		3.84	3.77		5.20	4.96		12	<u> </u>
16/9/2010	20:42	Cloudy	Middle	2.5	28.35	28.36	28.34	7.34	7.34	7.35	29.05	29.05	29.06	65.4	62.7	64.6	4.33	4.15	4.30	2.97	2.20	2.49	6	5.50
	20:47		Middle Middle	2.5	28.32	28.32		7.35	7.35		29.07	29.07		63.6	66.8		4.28	4.43		2.22	2.56		5 8	
18/9/2010	18:01	Fine	Middle	2.5	28.70	28.70	28.72	7.24	7.24	7.24	29.02	29.01	29.01	54.0	58.1 58.7	56.2	3.55	3.83	3.65	2.44	2.51	2.33	7	7.50
	-		Middle	-	20.74	20.74		7.25	7.23		29.00	29.00		33.9	30.7		-	5.00		2.20	2.17			
20/9/2010	_	Rain	Middle	-	_	_	-	-	_	-	_	_	-	_	_	-	-	_	-	_	_	-	_	-
	17:46		Middle	2.5	27.20	27.20		6.47	6.47		29.27	29.27		61.5	61.0		4.15	4.11		3.05	3.02		5	
22/9/2010	17:50	Cloudy	Middle	2.5	27.17	27.17	27.19	6.47	6.47	6.47	29.29	29.29	29.28	61.2	61.5	61.3	4.13	4.16	4.14	2.99	3.08	3.04	5	5.00
	18:30		Middle	3.0	27.90	27.89		6.77	6.77		29.95	29.95		49.3	49.3		3.47	3.47		3.00	3.02		3	
24/9/2010	18:36	Fine	Middle	3.0	27.89	27.89	27.89	6.76	6.76	6.77	29.93	29.92	29.94	51.1	52.4	50.5	3.39	3.48	3.45	2.53	2.35	2.73	5	4.00
	9:02		Middle	2.5	28.70	28.90		7.90	7.91		30.70	30.80		55.9	58.8		3.85	4.03		3.61	3.71		6	
27/9/2010	9:05	Sunny	Middle	2.5	28.80	28.60	28.75	7.89	7.88	7.90	30.50	30.60	30.65	59.8	60.0	58.6	4.08	4.13	4.02	3.64	3.53	3.62	7	6.50



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit ppt	ty	D	O Satur	ation		DO mg/L			Turbid	-,	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	10:25	Cloudy	Middle	1.5	27.60	27.10	27.30	6.96	6.92	6.95	30.70	31.20	30.83	69.9	68.8	68.9	4.78	4.71	4.72	3.64	3.51	3.52	10	10.00
	10:28	,	Middle	1.5	27.20	27.30		6.98	6.95		30.50	30.90		68.5	68.4	1	4.69	4.68		3.50	3.41		10	
2/9/2010	19:55	Rainy	Middle	1.5	27.64	27.63	27.64	7.21	7.22	7.22	30.71	30.72	30.72	77.1	75.3	74.7	5.38	5.22	5.20	1.33	1.23	1.26	5	5.00
	19:56		Middle	1.5	27.64	27.63		7.22	7.22	1	30.71	30.72		73.4	72.8		5.12	5.06		1.20	1.28		5	<u> </u>
4/9/2010	22:42	Cloudy	Middle	1.5	28.59	28.60	28.60	7.28	7.27	7.28	30.57	30.58	30.58	68.6	66.7	66.4	4.72	4.58	4.57	1.36	1.43	1.44	<2	2.00
	22:43		Middle	1.5	28.60	28.61		7.27	7.28		30.57	30.58		65.7	64.6		4.52	4.44		1.40	1.56		2	
6/9/2010	18:38	Fine	Middle	1.5	28.91	28.91	28.93	7.02	7.02	7.02	30.67	30.67	30.67	60.6	60.8	61.4	3.92	4.07	3.98	1.96	1.84	1.99	4	4.50
	18:42		Middle	1.5	28.94	28.94		7.01	7.02		30.66	30.66		63.8	60.3	l	3.98	3.96		2.18	1.98	l	5	
8/9/2010	19:32	Fine	Middle	1.5	27.78	27.77	27.79	7.24	7.24	7.24	30.25	30.25	30.25	57.3	57.8	56.9	3.81	3.84	3.80	3.40	3.28	3.22	6	6.00
	19:38		Middle	1.5	27.81	27.81		7.24	7.24		30.24	30.24		55.9	56.5		3.79	3.75		3.07	3.13		6	
10/9/2010	8:39	Cloudy	Middle	2.0	24.30	24.50	24.60	7.96	7.93	7.94	31.80	32.00	32.05	61.9	59.5	60.2	4.28	4.13	4.17	6.12	5.24	5.65	12	11.00
	8:42		Middle	2.0	24.70	24.90		7.91	7.95		32.10	32.30		58.3	61.2		4.03	4.23		5.68	5.54		10	
13/9/2010	10:55	Sunny	Middle	1.5	25.70	25.90	25.63	7.85	7.84	7.85	31.90	31.80	31.80	55.4	56.1	55.4	3.75	3.79	3.75	3.50	3.47	3.43	12	11.00
	10:58		Middle	1.5	25.50	25.40		7.86	7.85		31.60	31.90		56.1	54.1		3.80	3.66		3.38	3.35		10	<u> </u>
16/9/2010	20:24	Cloudy	Middle	1.5	28.47	28.47	28.46	7.22	7.22	7.22	29.17	29.17	29.17	60.3	59.4	60.3	3.97	3.92	3.73	3.15	3.01	3.05	4	4.00
	20:31		Middle Middle	1.5 1.5	28.45	28.45		7.22	7.22		29.17	29.17		59.0 51.6	62.6 57.0	<u> </u>	3.90	3.14		2.98	3.04 2.25	<u> </u>	4	<u> </u>
18/9/2010	18:14	Fine	Middle	1.5	28.98	28.98	28.92	7.04	7.04	7.04	28.87	28.98	28.94	54.3	54.1	54.3	3.57	3.75	3.57	2.50	2.42	2.44	6	5.00
	-		Middle	-	20.90	20.90		7.04	7.04		-	20.90		34.3	34.1		3.37	3.37		2.59	-		-	
20/9/2010	-	Rain	Middle	-	_	_	-	_	_	-	-	_	-	_	_	-	_	-	-	_	_	-	-	-
	17:52		Middle	1.5	26.67	26.67		6.72	6.73		29.84	29.84		62.1	61.3		4.21	4.16		2.56	2.27		3	
22/9/2010	18:00	Cloudy	Middle	1.5	26.67	26.67	26.67	6.72	6.72	6.72	29.84	29.84	29.84	60.4	59.4	60.8	4.05	4.03	4.11	2.42	2.11	2.34	2	2.50
	18:37		Middle	1.5	28.10	28.10		6.69	6.69		30.21	30.21		51.6	49.9		3.41	3.30		2.37	1.82		2	
24/9/2010	18:40	Fine	Middle	1.5	28.10	28.10	28.10	6.69	6.69	6.69	30.20	30.20	30.21	51.1	49.9	50.6	3.38	3.49	3.40	1.90	1.98	2.02	3	2.50
	9:25		Middle	1.5	28.70	28.50		7.93	7.91		31.20	31.00		63.9	62.7		4.33	4.26		2.89	2.98		5	
27/9/2010	9:28	Sunny	Middle	1.5	28.60	28.40	28.55	7.92	7.95	7.93	31.50	31.10	31.20	62.3	62.0	62.7	4.23	4.21	4.26	3.08	2.96	2.98	7	6.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salini	ty	D	OO Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	10:32	Claudi	Middle	1.5	27.90	28.20	20.42	7.00	6.97	0.00	31.00	30.70	20.00	63.8	63.2	C2 0	4.35	4.32	4.04	2.40	2.51	2.32	6	5.00
30/6/2010	10:35	Cloudy	Middle	1.5	28.10	28.30	28.13	6.98	6.95	6.98	30.60	31.20	30.88	62.9	62.2	63.0	4.30	4.26	4.31	2.16	2.19	2.32	4	5.00
2/9/2010	20:03	Rainy	Middle	1.5	27.67	27.67	27.66	7.13	7.14	7.14	30.45	30.43	30.44	80.9	79.5	78.6	5.57	5.52	5.46	1.11	1.10	1.18	6	5.00
2/3/2010	20:04	rtailly	Middle	1.5	27.66	27.65	27.00	7.14	7.14	7.14	30.44	30.43	30.44	77.5	76.3	70.0	5.40	5.33	0.40	1.25	1.27	1.10	4	3.00
4/9/2010	22:52	Cloudy	Middle	1.5	28.35	28.34	28.34	7.23	7.23	7.24	30.19	30.20	30.20	65.4	64.6	64.9	4.53	4.47	4.50	1.10	1.01	1.02	5	4.50
	22:53	5.5.2.5	Middle	1.5	28.33	28.34		7.24	7.25		30.20	30.21		63.7	66.0		4.41	4.57		0.99	0.99		4	
6/9/2010	18:43	Fine	Middle	1.5	28.24	28.24	28.23	7.01	7.01	7.02	30.49	30.40	30.43	60.3	62.1	60.9	3.91	3.43	3.77	1.71	1.70	1.56	3	4.00
	18:49		Middle	1.5	28.22	28.22		7.02	7.02		30.42	30.42		60.6	60.7		3.86	3.87		1.48	1.35		5	
8/9/2010	19:39	Fine	Middle	1.5	27.83	27.83	27.83	6.94	7.24	7.02	29.92	29.92	29.93	84.5	84.8	82.1	5.30	5.35	5.33	4.17	4.05	4.04	5	5.50
	19:43		Middle	1.5	27.82	27.82		6.94	6.94		29.94	29.94		80.9	78.2		5.29	5.36		4.03	3.89		6	
10/9/2010	8:46	Cloudy	Middle	2.0	23.90	24.30	24.20	7.92	7.93	7.93	32.00	32.10	32.20	62.5	60.8	61.2	4.34	4.25	4.28	3.46	3.26	3.47	8	9.00
	8:49		Middle	2.0	24.50	24.10		7.90	7.95		32.30	32.40		60.7	60.9		4.27	4.26		3.59	3.57		10	
13/9/2010	11:05	Sunny	Middle	1.5	25.50	25.80	25.58	7.84	7.82	7.84	32.80	32.70	32.60	57.2	54.0	54.3	3.82	3.67	3.67	3.06	3.06	3.05	8	9.00
	11:08		Middle	1.5	25.40	25.60		7.85	7.83		32.50	32.40		53.5	52.4		3.61	3.56		3.01	3.05		10	
16/9/2010	20:34	Cloudy	Middle	1.5	28.47	28.47	28.46	7.13	7.13	7.14	29.09	29.09	29.10	57.7	58.5	57.3	3.81	3.86	3.79	4.30	4.89	4.75	15	13.50
	20:40		Middle	1.5	28.44	28.44		7.15	7.14		29.11	29.11		58.0	55.0		3.83	3.64		4.74	5.05		12	
18/9/2010	18:15	Fine	Middle	1.5	28.51	28.51	28.52	6.79	6.79	6.78	28.84	28.84	28.84	54.9	54.4	55.5	3.63	3.60	3.66	3.08	2.98	2.96	5	5.50
	18:22		Middle	1.5	28.52	28.52		6.77	6.77		28.84	28.84		56.9	55.7		3.76	3.63		2.76	3.02		6	
20/9/2010	-	Rain	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:01		Middle Middle	1.5	26.81	26.81		6.50	6.50		29.22	29.23		69.4	69.5		4.71	4 74		4.76	4.26		10	
22/9/2010	18:07	Cloudy	Middle	1.5	26.81	26.80	26.81	6.48	6.48	6.49	29.22	29.23	29.22	68.4	67.9	68.8	4.62	4.71	4.66	4.14	4.26	4.30	11	10.50
	18:44		Middle	1.5	28.04	28.04		6.65	6.66		30.40	30.40		47.3	47.4		3.43	3.43		1.59	1.62		2	
24/9/2010	18:49	Fine	Middle	1.5	28.04	28.04	28.04	6.64	6.64	6.65	30.40	30.40	30.40	47.2	46.8	47.2	3.52	3.69	3.52	1.51	1.47	1.55	3	2.50
	9:15		Middle	1.5	28.50	28.40		7.92	7.93		31.00	31.20		63.2	62.6		4.28	4.25		4.67	5.01		6	<u> </u>
27/9/2010	9:18	Sunny	Middle	1.5	28.70	28.20	28.45	7.90	7.93	7.92	31.30	30.90	31.10	62.5	61.9	62.6	4.23	4.19	4.24	4.83	5.10	4.90	6	6.00
	3.10		Middle	1.0	20.70	20.20		7.50	7.51		31.00	30.30		02.0	01.5		7.20	7.10		7.00	5.10		· ·	



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	С	OO Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	10:05	Cloudy	Middle	1.5	27.90	28.40	28.23	7.02	6.94	7.00	31.60	30.60	30.80	70.3	69.8	69.2	4.91	4.88	4.83	5.45	5.11	5.26	8	8.00
30/6/2010	10:08	Cloudy	Middle	1.5	28.40	28.20	20.23	6.98	7.04	7.00	30.80	30.20	30.00	68.8	67.7	03.2	4.81	4.72	4.03	5.24	5.23	3.20	8	0.00
2/9/2010	19:21	Rainy	Middle	1.5	27.66	27.67	27.67	7.16	7.17	7.17	30.63	30.62	30.63	83.6	82.7	82.7	5.79	5.74	5.73	1.30	1.32	1 22	3	3.50
2/9/2010	19:22	Railly	Middle	1.5	27.68	27.68	27.07	7.17	7.18	7.17	30.64	30.62	30.63	82.3	82.0	02.7	5.70	5.67	5.73	1.31	1.34	1.32	4	3.50
4/9/2010	22:13	Cloudy	Middle	1.5	28.17	28.15	28.17	7.27	7.26	7.26	30.60	30.62	30.62	69.6	67.5	66.6	4.94	4.79	4.73	1.75	1.81	1.77	2	2.50
4/9/2010	22:14	Cloudy	Middle	1.5	28.19	28.18	20.17	7.25	7.25	7.20	30.63	30.63	30.02	65.2	64.2	00.0	4.63	4.56	4.73	1.75	1.75	1.77	3	2.50
6/9/2010	19:45	Fine	Middle	1.5	28.54	28.54	28.53	7.10	7.10	7.10	30.18	30.18	30.20	68.8	68.3	68.3	4.44	4.42	4.42	2.38	2.49	2.21	3	3.50
0/9/2010	19:50	Fille	Middle	1.5	28.52	28.52	20.55	7.10	7.10	7.10	30.20	30.22	30.20	68.2	68.0	00.3	4.40	4.41	4.42	1.97	2.01	2.21	4	3.50
8/9/2010	19:05	Fine	Middle	1.5	27.72	27.72	27.72	7.13	6.93	7.08	29.62	29.62	29.63	64.4	66.7	64.2	4.30	4.32	4.25	3.44	3.55	3.46	8	7.50
0/3/2010	19:10	Tillo	Middle	1.5	27.72	27.71	21.12	7.13	7.13	7.00	29.63	29.63	20.00	62.7	62.9	04.2	4.18	4.20	4.25	3.38	3.45	3.40	7	7.50
10/9/2010	8:20	Cloudy	Middle	2.0	23.80	24.00	24.13	7.95	7.91	7.92	32.30	33.00	32.63	60.9	663.0	212.9	4.27	4.61	4.45	4.52	4.43	4.36	6	7.00
10/9/2010	8:23	Cloudy	Middle	2.0	24.50	24.20	24.13	7.90	7.92	7.52	32.70	32.50	32.03	64.2	63.4	212.9	4.49	4.41	4.40	4.51	3.98	4.50	8	7.00
13/9/2010	10:32	Sunny	Middle	2.0	25.80	25.40	25.63	7.82	7.80	7.82	32.40	32.60	32.48	53.4	51.9	51.7	3.60	3.50	3.49	4.15	4.29	4.21	8	8.00
13/3/2010	10:35	Outiny	Middle	2.0	25.70	25.60	20.00	7.81	7.83	7.02	32.50	32.40	32.40	51.0	50.4	31.7	3.44	3.41	0.40	4.18	4.20	7.21	8	0.00
16/9/2010	19:46	Cloudy	Middle	1.5	28.46	28.45	28.43	7.15	7.15	7.15	29.27	29.27	29.31	52.7	55.8	54.1	3.48	3.68	3.57	2.20	1.94	2.21	4	3.50
10,0,2010	19:52	oloudy	Middle	1.5	28.40	28.40	20.10	7.15	7.15		29.34	29.34	20.01	54.5	53.2	U	3.60	3.51	0.0.	2.45	2.24		3	0.00
18/9/2010	19:02	Fine	Middle	1.5	30.13	30.13	30.13	7.26	7.26	7.24	28.59	28.59	28.59	82.7	82.5	80.0	5.36	5.32	5.17	2.50	1.92	2.31	6	6.00
10,0,2010	19:09		Middle	1.5	30.13	30.12	00.10	7.22	7.22		28.58	28.58	20.00	77.8	77.1	00.0	5.02	4.97	0	2.65	2.16	2.0.	6	0.00
20/9/2010	-	Rain	Middle	-	-	-	_	ı	-	_	-	-	_	-	-	_	-	-	-	-	-	_	-	_
20,0,20.0	-	7.0	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/9/2010	19:02	Cloudy	Middle	1.5	27.38	27.38	27.38	6.86	6.87	6.87	29.64	29.64	29.64	62.1	62.7	62.2	4.16	4.20	4.17	3.78	3.92	3.53	7	6.50
22,0,20.0	19:10	o.ouu,	Middle	1.5	27.37	27.37	27.00	6.87	6.87	0.01	29.64	29.64	20.01	62.0	62.0	02.2	4.16	4.16		3.27	3.15	0.00	6	0.00
24/9/2010	19:33	Fine	Middle	1.5	27.96	27.96	27.96	6.60	6.60	6.60	30.71	30.71	30.71	58.0	57.9	58.1	3.83	3.82	3.83	1.86	1.80	1.73	4	3.50
2 ., 0, 20 . 0	19:39		Middle	1.5	27.95	27.95	200	6.60	6.60	5.55	30.71	30.71		58.0	58.3		3.83	3.85	0.00	1.62	1.65		3	0.00
27/9/2010	10:15	Sunny	Middle	1.5	29.30	29.10	29.08	7.90	7.91	7.92	30.90	31.20	31.10	64.9	64.4	63.9	4.41	4.37	4.34	5.12	4.72	4.93	9	9.50
2.,0,20.0	10:18	54,	Middle	1.5	29.00	28.90	20.00	7.93	7.92	2	31.10	31.20	00	63.7	62.7	00.0	4.32	4.26		4.90	4.97		10	0.00



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids a/L
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	10:12	Cloudy	Middle	1.5	28.10	27.90	27.73	7.02	7.00	7.02	31.00	30.70	30.98	78.9	77.1	77.1	5.45	5.32	5.32	4.79	4.68	4.66	8	9.00
30/6/2010	10:15	Cloudy	Middle	1.5	27.60	27.30	21.13	7.05	7.01	7.02	31.20	31.00	30.96	76.3	76.1	77.1	5.26	5.25	5.52	4.52	4.63	4.00	10	9.00
2/9/2010	19:29	Rainy	Middle	1.5	27.63	27.62	27.63	7.24	7.23	7.23	30.03	30.05	30.04	85.8	85.3	85.3	5.93	5.90	5.88	2.20	1.92	1.99	4	4.50
2/0/2010	19:30	rtainy	Middle	1.5	27.63	27.64	27.00	7.24	7.22	7.20	30.04	30.03	00.01	85.0	85.0	00.0	5.88	5.80	0.00	1.94	1.91	1.00	5	4.00
4/9/2010	22:22	Cloudy	Middle	1.5	28.23	28.25	28.24	7.29	7.28	7.28	30.62	30.63	30.62	67.8	65.1	67.5	4.85	4.66	4.83	1.45	1.42	1.43	4	3.50
	22:23	Í	Middle	1.5	28.25	28.24		7.28	7.25		30.62	30.62		67.1	69.8		4.80	4.99		1.44	1.41		3	<u> </u>
6/9/2010	19:56	Fine	Middle	1.5	28.46	28.46	28.47	6.86	6.87	6.87	30.51	30.51	30.51	63.4	63.8	65.2	4.12	4.12	4.23	2.70	2.93	2.61	4	4.00
	20:04		Middle	1.5	28.48	28.49		6.87	6.87		30.50	30.50		66.8	66.8		4.31	4.37		2.38	2.44		4	<u> </u>
8/9/2010	19:14	Fine	Middle	1.5	27.48	27.48	27.49	7.09	7.13	7.10	29.73	29.73	29.73	62.6	63.6	62.4	4.16	4.26	4.17	3.72	3.71	3.71	6	6.00
	19:20		Middle	1.5	27.49	27.49		7.09	7.09		29.73	29.73		62.9	60.5		4.21	4.05		3.66	3.75		6	
10/9/2010	8:29	Cloudy	Middle	2.0	24.10	24.00	24.13	7.95	7.92	7.94	31.90	32.30	32.15	63.9	61.6	61.4	4.52	4.34	4.33	3.83	3.88	3.87	6	6.50
	8:32		Middle	2.0	24.50	23.90		7.95	7.94		32.40	32.00		60.9	59.2		4.27	4.19		3.79	3.96		7	
13/9/2010	10:38	Sunny	Middle	2.0	25.40	25.80	25.53	7.76	7.75	7.76	32.00	32.50	32.30	53.0	52.0	51.5	3.62	3.51	3.50	6.59	6.42	6.48	12	11.00
	10:41		Middle	2.0	25.60	25.30		7.77	7.75		32.30	32.40		51.1	49.7		3.47	3.38		6.47	6.43		10	<u> </u>
16/9/2010	19:56	Cloudy	Middle Middle	1.5	28.35	28.35	28.35	7.20	7.20	7.20	29.37	29.37	29.37	60.8	62.3	61.4	4.02 3.98	4.12	4.06	3.02	3.27	3.17	3	3.50
	19:14		Middle	1.5	28.35 30.26	28.35		7.19	7.20		29.37	29.38		60.4	62.0		4.27	4.10 4.27		2.30	2.14		7	
18/9/2010	19:14	Fine	Middle	1.5	30.25	30.24	30.25	7.18	7.10	7.19	28.89	28.89	28.82	64.9	65.6	65.9	4.19	4.21	4.24	2.06	2.03	2.13	8	7.50
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
20/9/2010	_	Rain	Middle	-	_	_	-	_	_	-	_	_	-	_	_	-	_	-	-	_	-	-	-	-
	19:13		Middle	1.5	27.33	27.33		6.80	6.81		29.52	29.52		51.4	51.1		3.94	3.91		2.78	2.77		4	
22/9/2010	19:22	Cloudy	Middle	1.5	27.32	27.32	27.33	6.81	6.81	6.81	29.52	29.52	29.52	51.4	51.1	51.3	3.95	3.93	3.93	2.49	2.77	2.70	6	5.00
	19:42		Middle	1.5	27.71	27.71		6.61	6.61		30.78	30.78		63.3	61.6		4.91	4.08		2.77	2.34		8	
24/9/2010	19:48	Fine	Middle	1.5	27.75	27.75	27.73	6.60	6.60	6.61	30.76	30.76	30.77	59.6	59.7	61.1	3.95	3.96	4.23	2.41	2.55	2.52	6	7.00
	10:23		Middle	1.5	29.00	29.10		7.92	7.91		31.20	31.30		66.6	65.1		4.58	4.49		3.46	3.20		10	
27/9/2010	10:26	Sunny	Middle	1.5	29.50	29.30	29.23	7.93	7.92	7.92	31.00	30.80	31.08	64.4	63.8	65.0	4.44	4.39	4.48	3.21	3.33	3.30	8	9.00



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	С	O Satur	ation		DO mg/L	-		Turbid NTU		Suspend	led Solids g/L
			n	n 	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/8/2010	9:45	Cloudy	Middle	2.0	27.40	27.10	27.40	7.12	7.10	7.10	31.70	31.50	31.28	72.2	68.3	67.3	5.04	4.80	4.73	6.04	6.29	6.26	9	8.50
30/6/2010	9:48	Cloudy	Middle	2.0	27.30	27.80	27.40	7.11	7.07	7.10	31.00	30.90	31.20	65.9	62.9	07.3	4.64	4.43	4.73	6.47	6.25	0.20	8	6.50
2/9/2010	19:05	Rainy	Middle	2.0	29.07	29.05	29.12	7.44	7.43	7.47	30.73	30.71	30.68	80.9	80.0	79.9	5.54	5.57	5.51	2.02	2.02	1.95	6	5.00
2/9/2010	19:06	Railly	Middle	2.0	29.18	29.16	29.12	7.50	7.52	7.47	30.64	30.65	30.00	79.6	79.2	79.9	5.53	5.40	5.51	1.88	1.86	1.95	4	5.00
4/9/2010	22:02	Cloudy	Middle	2.0	28.06	28.08	28.05	7.30	7.29	7.29	30.49	30.48	30.44	62.7	60.5	62.1	4.28	4.13	4.24	1.73	1.84	1.62	3	4.00
4/9/2010	22:03	Cloudy	Middle	2.0	28.02	28.04	26.05	7.27	7.28	7.29	30.38	30.41	30.44	63.8	61.4	02.1	4.36	4.20	4.24	1.48	1.43	1.02	5	4.00
6/9/2010	19:35	Fine	Middle	2.0	28.11	28.11	28.24	7.01	7.01	7.02	30.61	30.61	30.55	55.5	57.8	57.2	3.60	3.75	3.71	1.83	1.72	1.86	4	4.00
0/9/2010	19:40	Fille	Middle	2.0	28.37	28.37	20.24	7.03	7.03	7.02	30.49	30.50	30.33	56.3	59.3	57.2	3.64	3.83	3.71	2.04	1.85	1.00	4	4.00
8/9/2010	18:55	Fine	Middle	2.0	28.05	28.05	28.03	7.17	7.17	7.17	29.60	29.61	29.65	66.1	63.3	66.2	4.38	4.20	4.39	4.04	4.01	4.01	7	8.50
0/3/2010	19:01	Tillo	Middle	2.0	28.01	28.00	20.00	7.16	7.16	7.17	29.69	29.69	20.00	68.0	67.4	00.2	4.51	4.47	4.00	4.03	3.97	4.01	10	0.50
10/9/2010	8:10	Cloudy	Middle	2.5	24.00	24.30	24.23	7.87	7.85	7.86	32.00	32.60	32.35	73.5	67.6	68.3	5.13	4.72	4.76	4.81	4.78	4.68	7	7.00
10/9/2010	8:13	Cloudy	Middle	2.5	24.50	24.10	24.23	7.87	7.85	7.00	32.50	32.30	32.33	66.3	65.9	00.5	4.65	4.55	4.70	4.71	4.42	4.00	7	7.00
13/9/2010	10:20	Sunny	Middle	2.0	25.90	26.30	26.00	7.74	7.73	7.73	31.90	32.00	31.98	61.5	61.2	61.6	4.15	4.13	4.16	2.71	2.65	2.68	5	6.00
13/3/2010	10:23	Outiny	Middle	2.0	26.00	25.80	20.00	7.71	7.72	7.75	32.20	31.80	01.00	62.0	61.8	01.0	4.18	4.17	4.10	2.68	2.66	2.00	7	0.00
16/9/2010	19:36	Cloudy	Middle	2.0	29.24	29.24	29.24	7.24	7.23	7.23	29.27	29.27	29.28	60.1	66.5	62.7	3.92	4.33	4.06	4.62	5.16	4.80	10	11.00
10/0/2010	19:42	Oloddy	Middle	2.0	29.23	29.23	20.24	7.23	7.23	7.20	29.28	29.28	20.20	60.7	63.3	02.1	3.85	4.12	1.00	4.93	4.49	1.00	12	11.00
18/9/2010	18:51	Fine	Middle	2.0	30.29	30.29	30.28	7.14	7.14	7.14	28.75	28.75	28.76	54.8	54.1	54.2	3.52	3.47	3.48	3.63	3.31	3.25	11	11.00
10/0/2010	18:57	1 1110	Middle	2.0	30.27	30.27	00.20	7.14	7.14	7.1.4	28.76	28.76	20.70	55.6	52.4	01.2	3.57	3.37	0.40	3.00	3.05	0.20	11	11.00
20/9/2010	-	Rain	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	ı	-	_	-	-	_	-	_
20,0,20.0	-	7.0	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/9/2010	18:53	Cloudy	Middle	2.0	27.71	27.70	27.63	6.84	6.83	6.85	29.55	29.55	29.60	59.8	58.6	59.0	3.99	3.91	3.94	2.61	2.56	2.45	5	6.00
22,0,20.0	18:59	oloudy	Middle	2.0	27.56	27.56	27.00	6.86	6.85	0.00	29.65	29.65	20.00	58.4	59.2	00.0	3.90	3.96	0.0 .	2.42	2.20	2.10	7	0.00
24/9/2010	19:24	Fine	Middle	2.0	27.26	27.26	27.27	6.54	6.54	6.54	30.61	30.61	30.61	56.5	59.3	57.9	3.78	3.95	3.84	2.27	2.06	2.14	5	4.00
2 ., 0, 20 . 0	19:31		Middle	2.0	27.27	27.27	22.	6.54	6.54	0.0 .	30.60	30.60	00.01	58.1	57.5	00	3.88	3.75	0.0.	2.17	2.06		3	
27/9/2010	9:50	Sunny	Middle	2.0	28.90	29.10	29.13	7.90	7.88	7.90	30.70	30.90	30.85	70.9	66.6	66.5	4.85	4.51	4.54	5.48	5.02	5.17	14	12.50
2.,0,20.0	9:53	55,	Middle	2.0	29.20	29.30	200	7.89	7.91		31.00	30.80	00.00	64.9	63.6	55.5	4.46	4.35		5.01	5.17	J	11	.2.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	С	OO Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	11:02	Claudi	Middle	2.0	28.24	28.24	28.24	7.05	7.05	7.05	30.09	30.09	30.09	89.8	87.6	07.0	5.90	5.76	5.75	7.99	7.86	7.89	12	12.00
30/6/2010	11:05	Cloudy	Middle	2.0	28.24	28.24	20.24	7.05	7.05	7.05	30.09	30.09	30.09	87.7	85.9	87.8	5.77	5.55	5.75	7.92	7.77	7.09	12	12.00
2/9/2010	18:47	Rainy	Middle	1.5	28.26	28.29	28.32	7.37	7.38	7.39	30.45	30.47	30.48	76.0	75.7	76.3	5.09	5.07	5.11	2.81	2.78	2.55	8	7.00
2/0/2010	18:48	rtuiry	Middle	1.5	28.37	28.35	20.02	7.39	7.40	7.00	30.51	30.49	00.10	76.5	77.0	70.0	5.13	5.16	0.11	2.38	2.21	2.00	6	7.00
4/9/2010	21:12	Cloudy	Middle	1.5	28.40	28.41	28.36	7.30	7.29	7.31	30.60	30.61	30.60	75.9	75.5	75.9	5.33	5.30	5.34	2.60	2.59	2.47	6	6.00
	21:13	,	Middle	1.5	28.30	28.32		7.32	7.33		30.59	30.61		76.7	75.5		5.40	5.31		2.36	2.32	1	6	
6/9/2010	19:43	Fine	Middle	1.5	28.78	28.78	28.69	7.04	7.04	7.03	30.10	30.10	30.07	67.7	67.3	68.5	4.42	4.40	4.50	3.27	3.44	3.15	6	5.50
	19:50		Middle	1.5	28.59	28.59		7.02	7.02		30.04	30.04		68.8	70.3		4.58	4.61		2.94	2.95		5	
8/9/2010	19:00	Fine	Middle	1.5	28.78	28.78	28.58	7.33	7.33	7.34	29.21	29.21	29.48	53.8	53.9	55.3	3.81	3.88	3.76	4.16	4.12	4.30	12	9.50
	19:07		Middle	1.5	28.38	28.39		7.34	7.34		29.75	29.75		55.6	57.8		3.61	3.75		4.43	4.47		7	
10/9/2010	8:30	Cloudy	Middle	5.0	28.80	28.80	28.90	7.80	7.80	7.80	30.30	30.30	30.30	64.8	64.8	64.8	4.39	4.38	4.37	3.88	3.64	3.73	12	13.00
	8:33		Middle	5.0	29.00	29.00		7.79	7.79		30.30	30.30		64.7	64.7		4.37	4.35		3.71	3.69		14	
13/9/2010	10:58	Sunny	Middle	1.5	27.20	27.20	27.35	7.88	7.88	7.88	29.56	29.56	29.48	53.2	54.2	52.7	3.87	3.91	3.88	5.05	4.90	4.78	7	8.00
	11:00	<u> </u>	Middle	1.5	27.50	27.50		7.87	7.87		29.40	29.40		52.7	50.7		3.83	3.90		4.63	4.54	<u> </u> 	9	<u> </u>
16/9/2010	20:48	Cloudy	Middle	1.5	29.06	29.06	29.06	7.49	7.48	7.49	28.63	28.63	28.63	60.3	60.5	60.4	3.95	3.97	3.96	3.66	3.22	3.44	8	8.00
	20:48		Middle Middle	1.5	29.06	29.06		7.49	7.48		28.63	28.63		60.3	60.5		3.95	3.97		3.66	3.22		8	
18/9/2010	18:55	Fine	Middle	1.5	29.57	29.75	29.68	7.11	7.11	7.11	28.16	28.16	28.16	81.2 78.4	79.5 78.4	79.4	5.28	5.17	5.21	3.44	3.00	3.46	6	5.00
	-		Middle	-	29.03	29.73		7.10	7.10		20.10	20.10		70.4	70.4		5.20	5.20		3.03	3.33		-	
20/9/2010	_	Rain	Middle	-	_	_	-		_	-	_	_	-	_	_	-	-	_	-	_	_	-	_	-
	18:07		Middle	1.5	27.57	27.55		6.83	6.83		29.54	29.55		57.6	56.5		3.86	3.73		3.45	3.31		8	
22/9/2010	18:14	Cloudy	Middle	1.5	27.55	27.45	27.53	6.84	6.84	6.84	29.62	29.63	29.59	60.0	59.0	58.3	3.95	3.95	3.87	3.30	3.14	3.30	9	8.50
	20:03		Middle	1.5	27.31	27.31		6.50	6.50		28.57	28.58		57.7	57.2		3.88	3.86		2.18	2.16		4	
24/9/2010	20:10	Fine	Middle	1.5	27.35	27.35	27.33	6.50	6.49	6.50	28.55	28.55	28.56	57.4	56.6	57.2	3.87	3.81	3.86	2.33	2.24	2.23	3	3.50
07/0/0040	10:25		Middle	1.5	28.00	28.00	22.12	7.86	7.86		30.37	30.37	22.22	63.4	62.6		4.18	4.13	4.40	3.24	3.64	0.40	9	0.50
27/9/2010	10:28	Sunny	Middle	1.5	28.20	28.20	28.10	7.86	7.86	7.86	30.39	30.39	30.38	63.1	61.4	62.6	4.16	4.04	4.13	3.70	3.35	3.48	8	8.50



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	С	O Satur	ation		DO mg/L	-		Turbid NTU		Suspend	led Solids g/L
			r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/8/2010	11:45	Cloudy	Middle	1.5	27.70	27.70	27.82	6.97	697	6.92	30.39	30.39	30.37	87.0	86.2	86.2	5.77	5.74	5.75	7.62	7.20	6.89	8	8.50
30/6/2010	11:48	Cloudy	Middle	1.5	27.94	27.94	21.02	6.89	6.89	0.92	30.35	30.35	30.37	86.1	85.4	00.2	5.77	5.73	5.75	6.66	6.07	0.09	9	0.30
2/9/2010	19:08	Rainy	Middle	2.0	28.27	28.31	28.32	7.56	7.55	7.56	30.62	30.60	30.60	66.0	66.0	65.9	4.42	4.42	4.41	1.96	2.02	1.96	6	5.00
2/9/2010	19:09	Railly	Middle	2.0	28.35	28.36	20.32	7.56	7.55	7.50	30.59	30.60	30.60	65.7	65.7	65.9	4.40	4.40	4.41	2.02	1.82	1.90	4	5.00
4/9/2010	21:33	Cloudy	Middle	2.0	27.99	27.96	27.99	7.43	7.42	7.41	30.19	30.19	30.20	87.4	87.5	85.4	6.19	6.20	6.05	1.43	1.47	1.50	5	4.50
4/9/2010	21:34	Cloudy	Middle	2.0	27.98	28.01	27.99	7.39	7.40	7.41	30.20	30.20	30.20	83.1	83.6	00.4	5.89	5.92	0.05	1.55	1.54	1.50	4	4.50
6/9/2010	19:34	Fine	Middle	1.5	28.78	28.78	28.78	7.11	7.11	7.12	29.72	29.72	29.73	65.6	63.1	65.8	4.30	4.14	4.31	2.61	2.30	2.50	6	F F0
6/9/2010	19:37	rine	Middle	1.5	28.77	28.77	20.70	7.12	7.12	7.12	29.73	29.73	29.73	68.6	65.9	05.0	4.49	4.31	4.51	2.85	2.23	2.50	5	5.50
8/9/2010	18:43	Fine	Middle	1.5	28.91	28.91	28.92	7.03	7.03	7.02	28.87	28.87	28.88	84.8	83.2	83.4	5.35	5.37	5.35	8.52	8.16	0 22	12	12.50
0/9/2010	18:47	rine	Middle	1.5	28.92	28.92	20.92	7.02	7.01	7.02	28.88	28.88	20.00	83.4	82.1	03.4	5.39	5.30	5.35	8.02	8.21	8.23	13	12.50
10/9/2010	9:10	Cloudy	Middle	4.0	27.40	27.40	27.50	7.85	7.85	7.86	29.66	29.66	29.67	66.0	66.0	65.9	4.42	4.42	4.41	3.74	4.11	4.01	6	5.50
10/9/2010	9:13	Cloudy	Middle	4.0	27.60	27.60	27.50	7.87	7.87	7.80	29.67	29.67	29.67	65.7	65.7	65.9	4.40	4.40	4.41	4.06	4.12	4.01	5	5.50
13/9/2010	10:20	Cunny	Middle	1.5	27.30	27.30	27.45	7.91	7.91	7.90	28.69	28.69	28.73	54.1	53.3	52.4	3.64	3.58	3.67	7.64	7.43	7.26	8	9.00
13/9/2010	10:23	Sunny	Middle	1.5	27.60	27.60	27.45	7.89	7.89	7.90	28.77	28.77	20.73	51.1	51.2	52.4	3.73	3.74	3.07	7.07	6.89	7.20	10	9.00
16/9/2010	20:33	Cloudy	Middle	1.5	28.35	28.35	28.34	7.43	7.43	7.43	28.71	28.71	28.72	61.1	60.4	60.7	4.11	4.09	4.06	3.02	3.28	3.08	8	7.50
10/9/2010	20:38	Cloudy	Middle	1.5	28.32	28.32	20.34	7.43	7.43	7.43	28.72	28.72	20.72	61.9	59.3	00.7	4.11	3.94	4.00	2.95	3.08	3.06	7	7.50
18/9/2010	18:40	Fine	Middle	1.5	29.66	29.66	29.68	7.38	7.38	7.37	27.51	27.50	27.50	67.4	71.0	69.1	4.76	4.70	4.62	1.96	2.04	1.98	5	5.00
10/9/2010	18:45	Tille	Middle	1.5	29.69	29.69	29.00	7.36	7.36	7.57	27.50	27.50	27.50	69.9	68.0	09.1	4.56	4.44	4.02	2.02	1.91	1.90	5	3.00
20/9/2010	-	Rain	Middle	ı	-	-		ı	-		1	-		-	-	_	ı	i	_	-	-	_	-	_
20/3/2010	-	Naiii	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/9/2010	17:52	Cloudy	Middle	1.5	26.68	26.68	26.69	6.76	6.76	6.76	29.17	29.17	29.17	66.1	65.7	65.5	4.50	4.47	4.46	4.16	3.94	4.14	6	6.50
22/0/2010	17:57	Oloddy	Middle	1.5	26.70	26.70	20.00	6.76	6.76	0.70	29.16	29.16	20.11	65.4	64.8	00.0	4.46	4.41	1.10	4.42	4.03	7.17	7	0.00
24/9/2010	19:48	Fine	Middle	1.5	27.71	27.72	27.76	6.69	6.69	6.69	30.05	30.05	30.05	55.8	54.8	55.3	3.71	3.65	3.68	3.35	2.95	3.20	4	5.00
2 110/2010	19:53	1 1110	Middle	1.5	27.80	27.80	21.10	6.69	6.69	0.00	30.05	30.05	00.00	56.1	54.4	00.0	3.73	3.61	0.00	3.24	3.25	0.20	6	0.00
27/9/2010	10:52	Sunny	Middle	2.0	26.70	26.70	27.00	8.02	8.02	8.02	30.03	30.03	30.03	75.3	74.1	74.9	5.05	4.97	5.02	6.42	6.17	6.17	7	6.50
2170/2010	10:55	Carriny	Middle	2.0	27.30	27.30	27.00	8.01	8.01	0.02	30.02	30.02	00.00	75.6	74.7	17.0	5.07	5.00	0.02	6.22	5.87	0.17	6	0.00



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			n	n 	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/8/2010	8:40	Cloudy	Middle	1.5	27.44	27.44	27.45	7.13	7.13	7.13	29.74	29.74	29.74	87.2	86.5	86.0	5.84	5.79	5.76	6.38	5.56	5.72	7	8.00
30/6/2010	8:43	Cloudy	Middle	1.5	27.45	27.45	27.45	7.12	7.13	7.13	29.73	29.73	29.74	85.4	84.8	60.0	5.72	5.68	5.70	5.42	5.51	5.72	9	6.00
2/9/2010	17:56	Rainy	Middle	2.5	27.63	27.64	27.65	7.32	7.32	7.32	30.73	30.71	30.71	71.8	72.9	72.6	4.98	4.97	4.97	2.47	2.45	2.51	13	- 11.00
2/9/2010	17:57	Railly	Middle	2.5	27.66	27.65	27.05	7.33	7.31	7.32	30.70	30.69	30.71	72.8	72.8	72.0	4.97	4.97	4.97	2.54	2.58	2.51	9	11.00
4/9/2010	20:12	Cloudy	Middle	2.5	28.08	28.07	28.06	7.21	7.22	7.22	30.48	30.47	30.50	83.8	81.0	81.9	5.82	5.72	5.76	2.28	2.22	2.27	7	8.00
4/9/2010	20:13	Cloudy	Middle	2.5	28.04	28.06	26.00	7.22	7.23	1.22	30.51	30.52	30.50	83.3	79.3	61.9	5.88	5.61	5.70	2.27	2.30	2.21	9	6.00
6/9/2010	17:29	Fine	Middle	2.5	28.71	28.70	28.68	7.14	7.14	7.14	29.82	29.83	29.84	87.8	87.4	86.5	5.64	5.62	5.57	3.38	3.12	3.13	6	5.50
0/9/2010	17:36	Fille	Middle	2.5	28.65	28.65	20.00	7.14	7.14	7.14	29.86	29.86	29.04	85.5	85.3	80.5	5.52	5.50	5.57	2.97	3.03	3.13	5	5.50
8/9/2010	17:40	Fine	Middle	2.5	29.30	29.31	29.32	7.18	7.18	7.17	28.29	28.29	28.28	65.6	62.6	64.7	3.89	3.98	3.95	4.75	4.29	4.36	7	7.00
0/3/2010	17:48	Tillo	Middle	2.5	29.33	29.32	20.02	7.16	7.16	7.17	28.27	28.28	20.20	67.5	63.2	04.7	4.01	3.93	3.33	4.07	4.31	4.00	7	7.00
10/9/2010	6:30	Cloudy	Middle	4.0	27.70	27.70	27.80	7.66	7.66	7.66	30.11	30.11	30.11	72.8	72.9	72.8	4.98	4.97	4.97	3.76	3.94	3.66	12	11.50
10/9/2010	6:32	Cloudy	Middle	4.0	27.90	27.90	27.00	7.65	7.65	7.00	30.10	30.11	30.11	72.8	72.8	72.0	4.97	4.97	4.57	3.58	3.35	3.00	11	11.50
13/9/2010	9:30	Sunny	Middle	1.5	27.30	27.30	27.45	7.87	7.87	7.86	28.80	28.80	28.77	54.2	52.1	52.5	3.61	3.50	3.69	11.60	11.10	11.50	21	19.00
13/3/2010	9:34	Outiny	Middle	1.5	27.60	27.60	27.40	7.84	7.84	7.00	28.73	28.73	20.77	53.3	50.2	32.0	3.78	3.87	3.03	12.30	11.00	11.00	17	15.00
16/9/2010	18:54	Cloudy	Middle	2.5	28.33	28.35	28.42	7.41	7.41	7.41	28.62	28.61	28.61	66.2	65.7	65.5	4.38	4.31	4.31	1.90	1.92	1.87	10	9.00
10/0/2010	19:00	Oloddy	Middle	2.5	28.49	28.49	20.12	7.41	7.41	7.41	28.60	28.60	20.01	64.5	65.4	00.0	4.20	4.34	4.01	1.88	1.77	1.01	8	0.00
18/9/2010	16:35	Fine	Middle	2.5	29.66	29.67	29.46	7.19	7.19	7.20	28.16	28.16	28.15	65.8	68.3	65.6	4.10	4.40	4.24	1.85	1.96	2.03	7	6.00
10,0,2010	16:42		Middle	2.5	29.25	29.25	20.10	7.20	7.20	7.20	28.14	28.14	20110	63.5	64.7	00.0	4.27	4.17		2.09	2.20	2.00	5	0.00
20/9/2010	-	Rain	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	•	-	_	-	-	_	-	_
20,0,20.0	-	7.0	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
22/9/2010	17:12	Cloudy	Middle	2.5	26.54	26.56	26.56	6.74	6.75	6.75	28.62	28.62	28.62	69.5	69.1	69.0	4.75	4.73	4.72	4.13	3.85	3.87	8	7.50
	17:19	2.200,	Middle	2.5	26.56	26.56		6.75	6.75		28.62	28.62		68.3	69.1	23.0	4.67	4.72		3.96	3.55	2.0.	7	
24/9/2010	17:45	Fine	Middle	2.5	28.38	28.37	28.36	6.64	6.64	6.65	29.97	29.97	29.98	55.9	56.7	55.4	3.72	3.73	3.68	3.81	3.54	3.69	8	7.00
5, 20 . 0	17:53	0	Middle	2.5	28.35	28.35		6.65	6.65	2.00	29.99	29.99		55.2	53.6		3.64	3.63	2.00	3.98	3.41	2.00	6	
27/9/2010	6:42	Sunny	Middle	1.5	27.00	27.00	27.20	8.08	8.08	8.09	30.20	30.20	30.20	65.2	64.8	64.7	4.31	4.29	4.28	4.04	3.72	3.73	7	8.00
2.,0,20.0	6:44	54,	Middle	1.5	27.40	27.40	220	8.10	8.10	5.55	30.20	30.20	00.20	64.7	64.0	J	4.29	4.22	20	3.60	3.55	00	9	0.00



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
20/0/2040	16:35	Clavidi	Middle	2.0	28.26	28.26	20.20	7.03	7.03	7.02	31.19	31.19	24.40	85.6	85.4	00.4	5.60	5.59	F.00	4.11	4.07	4.07	7	0.00
30/8/2010	16:39	Cloudy	Middle	2.0	28.31	28.32	28.29	7.01	7.02	7.02	31.18	31.18	31.19	87.5	87.1	86.4	5.73	5.70	5.66	4.24	3.86	4.07	5	6.00
2/9/2010	5:43	Cloudy	Middle	2.0	29.22	29.22	29.27	7.17	7.17	7.17	30.64	30.64	30.66	90.7	88.9	88.7	5.87	5.74	5.70	1.20	1.71	1.41	6	5.50
2/9/2010	5:45	Cloudy	Middle	2.0	29.31	29.31	29.21	7.16	7.16	7.17	30.67	30.67	30.00	88.9	86.4	00.7	5.61	5.58	5.70	1.44	1.28	1.41	5	3.30
4/9/2010	7:25	Rainy	Middle	2.5	27.19	27.19	27.20	7.20	7.21	7.21	30.49	30.49	30.49	76.3	76.1	76.5	5.11	5.09	5.12	1.83	1.79	1.81	3	4.00
17072010	7:29	rtuiry	Middle	2.5	27.20	27.20	27.20	7.21	7.21	7.21	30.48	30.48	00.10	76.9	76.5	70.0	5.15	5.12	0.12	1.88	1.74	1.01	5	1.00
6/9/2010	9:03	Fine	Middle	2.0	27.88	27.88	27.88	7.42	7.42	7.41	30.11	30.11	30.10	89.9	89.1	89.1	5.66	5.62	5.61	2.22	2.02	2.09	3	3.50
5/5/2515	9:06		Middle	2.0	27.88	27.88	27.100	7.39	7.39		30.09	30.09	00.10	88.3	88.9		5.57	5.60	0.01	2.05	2.08	2.00	4	0.00
8/9/2010	14:15	Sunny	Middle	2.0	29.20	29.20	29.35	7.90	7.90	7.91	30.38	30.38	30.39	54.0	52.2	53.7	3.48	3.37	3.46	5.56	5.06	5.53	4	5.50
	14:18	,	Middle	2.0	29.50	29.50		7.91	7.91		30.40	30.40		55.1	53.3		3.55	3.44		5.87	5.64		7	
10/9/2010	13:05	Cloudy	Middle	2.0	28.10	28.10	28.40	7.97	7.97	7.97	30.72	30.72	30.75	75.3	75.3	75.4	4.97	4.97	4.98	4.44	4.62	4.16	8	7.50
	13:08	,	Middle	2.0	28.70	28.70		7.96	7.96		30.77	30.77		75.4	75.4	-	4.98	4.98		3.89	3.67		7	
13/9/2010	2:20	Cloudy	Middle	2.0	26.19	26.19	26.25	7.14	7.14	7.15	30.12	30.12	30.13	79.6	74.4	78.2	5.42	5.07	5.33	1.81	1.97	1.61	4	3.50
	2:26		Middle	2.0	26.30	26.30		7.15	7.15		30.13	30.13		79.3	79.6		5.40	5.42		1.26	1.38		3	
16/9/2010	5:57	Sunny	Middle	2.0	28.10	28.10	28.15	7.94	7.94	7.94	29.94	29.94	29.94	64.8	64.2	64.8	4.29	4.24	4.28	3.04	2.81	2.85	14	10.00
	5:59	•	Middle	2.0	28.20	28.20		7.94	7.94		29.95	29.94		65.3	64.7		4.32	4.28		2.86	2.69		6	
18/9/2010	8:08	Sunny	Middle	2.0	28.90	28.90	29.05	7.91	7.91	7.93	29.38	29.38	29.28	74.2	72.4	73.0	4.82	4.69	4.70	2.66	2.25	2.46	7	7.50
	8:11		Middle	2.0	29.20	29.20		7.94	7.94		29.17	29.17		74.4	70.9		4.81	4.49		2.54	2.40		8	
20/9/2010	10:06	Cloudy	Middle	2.5	29.00	29.00	29.20	8.06	8.06	8.07	29.76	29.76	29.76	69.8	65.8	67.3	4.51	4.25	4.35	1.82	2.02	1.98	4	3.50
	10:09		Middle	2.5	29.40	29.40		8.07	8.07		29.76	29.76		67.0	66.5		4.33	4.30		2.14	1.95		3	
22/9/2010	13:28	Cloudy	Middle	2.0	25.80	25.80	25.85	7.99	7.99	7.99	29.43	29.43	29.43	60.0	58.2	58.8	4.13	4.01	4.05	2.25	2.44	2.43	6	5.00
	13:31		Middle	2.0	25.90	25.90		7.99	7.99		29.42	29.42		59.3	57.6		4.08	3.97		2.71	2.30		4	
24/9/2010	11:49	Sunny	Middle	2.5	26.70	26.70	26.75	7.95	7.95	7.95	30.79	30.79	30.82	69.2	67.4	68.7	4.65	4.53	4.62	1.82	1.70	1.74	8	7.00
	11:52		Middle	2.5	26.80	26.80		7.94	7.94		30.84	30.84		70.0	68.1		4.71	4.58		1.71	1.71		6	
27/9/2010	15:19	Sunny	Middle	2.0	28.10	28.10	28.15	8.14	8.14	8.14	31.09	31.09	31.09	86.4	85.9	86.0	5.67	5.63	5.64	2.84	3.06	2.94	4	4.50
	15:22	-	Middle	2.0	28.20	28.20		8.14	8.14		31.09	31.09		86.6	85.1		5.68	5.58		2.95	2.90		5	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		рН			Salini ppt	ту	С	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	m	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
	17:00	<u> </u>	Middle	2.0	27.79	27.79		7.15	7.15		31.01	31.01		84.1	81.4		5.56	5.38		3.37	3.86		10	
30/8/2010	17:05	Cloudy	Middle	2.0	27.84	27.84	27.82	7.16	7.16	7.16	31.02	31.02	31.02	79.2	81.1	81.5	5.23	5.36	5.38	3.59	3.52	3.59	8	9.00
0/0/0040	6:10	Observation	Middle	2.0	28.18	28.18	00.04	7.17	7.17	7.47	30.97	30.97	00.07	84.0	83.6	00.0	5.52	5.49	5.54	1.52	1.59	4.50	4	4.50
2/9/2010	6:13	Cloudy	Middle	2.0	28.23	28.23	28.21	7.16	7.16	7.17	30.97	30.97	30.97	84.1	83.9	83.9	5.52	5.51	5.51	1.47	1.41	1.50	5	4.50
4/9/2010	8:00	Rainv	Middle	2.5	26.94	26.94	26.95	7.23	7.23	7.23	30.55	30.55	30.55	64.1	63.6	63.5	4.31	4.27	4.27	2.86	2.80	2.83	6	6.00
4/9/2010	8:03	Kalliy	Middle	2.5	26.95	26.95	26.95	7.22	7.22	1.23	30.55	30.56	30.55	63.2	63.1	03.5	4.25	4.24	4.27	2.78	2.87	2.03	6	6.00
6/9/2010	10:25	Fine	Middle	1.5	29.81	29.81	29.81	7.26	7.26	7.26	31.27	31.27	31.27	92.2	92.1	92.3	5.87	5.87	5.88	2.11	2.64	2.38	5	5.50
0/9/2010	10:28	rille	Middle	1.5	29.81	29.81	29.01	7.26	7.26	7.20	31.26	31.26	31.27	92.3	92.5	92.3	5.88	5.89	5.66	2.50	2.28	2.36	6	5.50
8/9/2010	14:40	Sunny	Middle	2.5	28.80	28.80	28.80	7.90	7.90	7.90	30.08	30.08	30.08	54.0	53.3	52.8	3.52	3.48	3.44	7.70	7.44	7.33	6	5.50
0/0/2010	14:45	Culliny	Middle	2.5	28.80	28.80	20.00	7.90	7.90	7.00	30.08	30.08	00.00	52.3	51.5	02.0	3.41	3.36	<u>0.7-7</u>	7.13	7.06	7.00	5	0.00
10/9/2010	12:25	Cloudy	Middle	2.0	28.60	28.60	28.70	8.02	8.02	8.02	31.12	31.12	31.11	64.8	64.8	64.7	4.34	4.34	4.33	5.94	6.06	5.90	8	7.50
10/0/2010	12:28	Oloudy	Middle	2.0	28.80	28.80	20.70	8.01	8.01	0.02	31.10	31.10	01.11	64.6	64.6	01	4.32	4.32	1.00	5.88	5.72	0.00	7	7.00
13/9/2010	1:45	Cloudy	Middle	2.0	26.45	26.43	26.46	7.12	7.12	7.13	32.04	32.05	32.07	70.7	69.7	71.8	4.76	4.76	4.82	2.36	2.34	2.31	7	7.00
10/0/2010	1:56	o.ouu,	Middle	2.0	26.47	26.47	20110	7.15	7.14		32.10	32.10	02.01	73.9	72.8	70	4.85	4.89	2	2.30	2.23	2.0.	7	1.00
16/9/2010	6:25	Sunny	Middle	2.0	27.90	27.90	27.95	7.97	7.97	7.97	29.53	29.36	29.49	76.6	66.2	69.7	4.49	4.42	4.51	2.71	2.86	2.64	3	3.00
	6:28	,	Middle	2.0	28.00	28.00		7.97	7.97	_	29.54	29.53		68.8	67.2		4.60	4.53	-	2.42	2.57		3	
18/9/2010	8:57	Sunny	Middle	2.0	28.90	28.90	28.95	8.18	8.18	8.15	28.45	28.45	28.46	87.6	85.7	84.4	5.73	5.65	5.55	2.77	2.62	2.56	5	5.50
	9:00		Middle	2.0	29.00	29.00		8.17	8.07		28.47	28.47		82.1	82.3		5.40	5.41		2.36	2.50		6	
20/9/2010	10:39	Cloudy	Middle	2.5	28.40	28.40	28.45	8.14	8.14	8.15	29.22	29.22	29.22	76.0	74.7	76.1	5.02	4.93	5.03	3.40	2.88	3.06	7	6.00
	10:42		Middle	2.5	28.50	28.50		8.15	8.15		29.22	29.22		77.4	76.4		5.11	5.04		2.93	3.02		5	
22/9/2010	13:00	Cloudy	Middle	2.5	25.60	25.60	25.70	8.02	8.02	8.01	29.35	29.35	29.31	56.2	54.5	55.9	3.88	3.77	3.86	3.33	2.94	2.91	6	6.00
	13:04		Middle	2.5	25.80	25.80		8.00	8.00		29.27	29.27		57.6	55.1		3.97	3.80		2.73	2.64		6	
24/9/2010	14:38	Sunny	Middle	2.0	27.20	27.20	27.25	7.97	7.97	7.97	31.08	31.08	31.09	71.3	70.8	71.3	4.75	4.72	4.75	2.67	2.45	2.56	5	5.00
	14:40	-	Middle	2.0	27.30	27.30		7.97	7.97		31.10	31.10		72.0	71.0		4.80	4.73		2.54	2.56		5	
27/9/2010	16:05	Sunny	Middle	1.5	27.90	27.90	27.95	8.14	8.14	8.14	31.05	31.05	31.04	86.0	83.7	84.1	5.68	5.57	5.56	3.91	3.82	3.86	6	7.00
	16:08	-	Middle	1.5	28.00	28.00		8.14	8.14		31.03	31.03		84.2	82.6		5.54	5.44		3.74	3.95		8	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salinit	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt ilue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
	14:18		Middle	2	29.39	29.39		7.33	7.33		30.95	30.96		87.4	85.8		5.62	5.51		2.37	3.44	J	6	
30/8/2010	14:23	Cloudy	Middle	2	29.46	29.49	29.43	7.32	7.32	7.33	30.94	30.94	30.95	86.1	84.2	85.9	5.53	5.41	5.52	3.68	3.70	3.30	4	5.00
0/0/0040	6:50	Observation	Middle	2	28.23	28.23	00.05	7.19	7.19	7.40	30.93	30.93	00.04	63.5	62.5	00.5	4.17	4.10	4.47	2.59	2.88	0.57	3	0.50
2/9/2010	6:53	Cloudy	Middle	2	28.27	28.27	28.25	7.19	7.19	7.19	30.95	30.95	30.94	64.7	63.2	63.5	4.24	4.16	4.17	2.18	2.62	2.57	4	3.50
4/9/2010	8:52	Rainy	Middle	2	26.99	26.99	27.01	7.09	7.09	7.09	30.97	30.97	30.97	54.2	54.0	54.7	3.63	3.62	3.67	2.49	2.83	2.55	6	6.00
4/9/2010	8:56	Rainy	Middle	2	27.02	27.02	27.01	7.09	7.10	7.03	30.98	30.97	30.91	56.3	54.4	54.7	3.77	3.64	3.07	2.55	2.32	2.55	6	0.00
6/9/2010	11:20	Fine	Middle	3	27.66	27.67	27.67	7.12	7.12	7.12	31.06	31.06	30.80	80.2	79.3	78.1	5.27	5.23	5.15	4.38	4.38	4.52	12	12.50
0/3/2010	11:22	Tille	Middle	3	27.66	27.70	27.07	7.12	7.12	7.12	30.03	31.03	30.00	77.1	75.7	70.1	5.09	4.99	0.10	4.59	4.72	4.02	13	12.50
8/9/2010	11:20	Sunny	Middle	2	28.90	28.90	29.10	7.72	7.72	7.75	31.39	31.39	31.39	47.9	47.7	48.1	3.09	3.08	<u>3.10</u>	4.16	4.42	4.03	6	5.00
	11:23		Middle	2	29.30	29.30		7.77	7.77		31.39	31.39		48.9	48.0		3.15	3.07		3.88	3.67		4	
10/9/2010	11:28	Cloudy	Middle	2	28.20	28.20	28.33	8.02	8.02	8.02	29.17	29.17	29.34	77.4	77.4	77.3	5.09	5.09	5.09	7.64	5.60	7.36	20	20.50
	11:31		Middle	2	28.40	28.50		8.02	8.02		29.50	29.50		77.2	77.2		5.08	5.08		8.45	7.74		21	
13/9/2010	3:39	Cloudy	Middle	3	26.30	26.30	26.20	7.05	7.05	7.04	30.86	30.86	31.00	76.9	77.1	80.5	5.22	5.23	5.29	1.93	2.07	1.69	8	7.00
	3:45	,	Middle	3	26.10	26.10		7.02	7.05		31.20	31.06		84.2	83.7		5.35	5.34		1.38	1.39		6	<u> </u>
16/9/2010	6:58	Sunny	Middle	2	28.30	28.30	28.35	8.00	8.00	8.00	30.19	30.19	30.17	70.5	69.3	69.6	4.63	4.55	4.57	2.61	2.44	2.36	7	6.50
	7:01		Middle	2	28.40	28.40		8.00	8.00		30.15	30.15		70.8	67.9		4.64	4.45		2.11	2.28		6	<u> </u>
18/9/2010	9:30	Sunny	Middle	2	29.10	29.10	29.25	8.13	8.13	8.14	29.10	29.10	29.08	81.0	78.0	78.3	5.27	5.08	5.10	2.38	2.40	2.55	4	5.00
	9:33		Middle	2	29.40	29.40		8.14	8.14		29.05	29.05		78.3	76.0		5.10	4.95		2.94	2.49		6	1
20/9/2010	11:20	Cloudy	Middle	2	27.90	27.90	28.05	8.07	8.07	8.07	29.95	29.95	29.89	65.7	63.6	66.4	4.34	4.19	4.38	3.70	3.04	3.18	5	5.50
	11:23		Middle	2	28.20	28.20		8.07	8.07		29.83	29.83		69.7	66.6		4.59	4.38		2.80	3.16		6	
22/9/2010	14:05	Cloudy	Middle	2	25.60	25.60	25.65	7.96	7.96	7.96	29.99	29.99	29.99	55.3	54.4	54.6	3.81	3.75	3.76	3.02	2.95	2.87	4	3.50
	14:08		Middle	2	25.70	25.70		7.96	7.96		29.98	29.98		55.0	53.8		3.79	3.70		2.70	2.81		3	
24/9/2010	13:45	Sunny	Middle	3	27.10	27.10	27.20	7.98	7.98	7.98	31.39	31.39	31.39	67.2	65.6	65.1	4.47	4.37	4.34	2.19	2.14	2.17	5	4.00
	13:48		Middle	3	27.30	27.30		7.98	7.98		31.38	31.38		64.1	63.6		4.27	4.23		2.13	2.22		3	<u> </u>
27/9/2010	16:35	Sunny	Middle	2	27.50	27.50	27.60	8.10	8.10	8.11	31.01	31.01	31.01	84.1	82.9	83.6	5.57	5.45	5.52	2.79	2.84	2.85	9	8.50
	16:38		Middle	2	27.70	27.70		8.11	8.11		31.01	31.01		84.0	83.2		5.56	5.51		2.80	2.97		8	<u> </u>



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pH -			Salini	у	D	O Satur	ation		DO mg/L			Turbid NTU	ity	Suspende	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
30/8/2010	14:46	Cloudy	Middle	2	28.55	28.55	28.62	6.91	6.90	6.91	31.07	31.07	31.08	70.4	70.6	70.3	4.59	4.60	4.58	7.07	6.84	6.80	10	9.00
30/6/2010	14:49	Cloudy	Middle	2	28.68	28.68	20.02	6.91	6.91	0.91	31.09	31.09	31.06	70.3	69.7	70.3	4.58	4.53	4.56	6.52	6.76	0.60	8	9.00
2/9/2010	7:17	Cloudy	Middle	2	28.11	28.12	28.13	7.13	7.13	7.13	30.56	30.56	30.56	64.5	62.6	65.3	4.25	4.13	4.30	2.25	2.15	2.30	3	4.00
2/0/2010	7:20	o.ouu)	Middle	2	28.14	28.14	20.10	7.12	7.12		30.56	30.56	00.00	67.8	66.1	00.0	4.46	4.35		2.48	2.33	2.00	5	
4/9/2010	9:22	Rainy	Middle	2	27.32	27.32	27.34	7.05	7.05	7.06	30.57	30.57	30.60	52.3	52.1	53.1	3.49	3.48	3.54	8.02	7.60	7.85	20	21.50
	9:24	,	Middle	2	27.35	27.35		7.06	7.06		30.62	30.62		55.0	52.9		3.67	3.53		7.85	7.94		23	
6/9/2010	11:38	Fine	Middle	2	28.52	28.53	28.57	6.70	6.70	6.69	30.84	30.84	30.84	65.2	63.2	63.8	4.26	4.13	4.16	3.37	3.03	3.22	5	4.50
	11:41		Middle	2	28.61	28.61		6.69	6.68		30.84	30.84		64.3	62.4		4.19	4.07		3.19	3.28		4	
8/9/2010	11:44	Sunny	Middle	2	28.90	28.90	29.15	7.90	7.90	7.89	31.34	31.34	31.35	52.3	51.9	52.4	3.37	3.34	3.37	3.09	3.02	3.21	6	5.50
	11:47		Middle	2	29.40	29.40		7.87	7.87		31.35	31.35		52.9	52.4		3.40	3.37		3.33	3.41		5	
10/9/2010	11:45	Cloudy	Middle	2	27.60	27.60	27.80	7.97	7.97	7.97	31.12	31.12	31.14	73.4	73.4	73.3	4.91	4.91	4.91	8.55	6.78	7.18	7	7.50
	11:48		Middle	2	28.00	28.00	<u> </u>	7.97	7.97		31.16	31.16		73.2	73.2		4.90	4.90		6.84	6.54		8	
13/9/2010	3:23	Cloudy	Middle	3	26.32	26.31	26.30	7.08	7.08	7.08	27.81	27.81	27.83	68.8	64.8	69.3	4.71	4.47	4.76	1.68	1.49	1.52	3	2.50
	3:28		Middle	3	26.34	26.24		7.08	7.08		27.85	27.85		70.3	73.4		4.90	4.95		1.45	1.44		2	
16/9/2010	7:28	Sunny	Middle	2	27.80	27.80	27.95	7.93	7.93	7.93	30.11	30.11	30.12	68.0	66.4	67.3	4.51	4.33	4.43	2.68	2.57	2.62	8	7.00
	7:31		Middle	2	28.10	28.10		7.93	7.92		30.12	30.12		68.8	65.9		4.53	4.35		2.60	2.62		6	
18/9/2010	10:25	Sunny	Middle	2	29.30	29.30	29.40	8.06	8.06	8.06	28.87	28.87	28.94	73.0	72.0	71.8	4.75	4.68	4.67	2.65	2.75	2.69	4	4.50
	10:28		Middle	2	29.50	29.50		8.06	8.06		29.00	29.00		72.2	69.9		4.69	4.55		2.50	2.84		5	
20/9/2010	11:51	Cloudy	Middle Middle	2	27.50	27.50	27.60	8.00	8.00	8.01	31.16	31.15	31.15	55.7	54.1	54.6	3.69	3.59	<u>3.61</u>	2.70	2.93	2.78	5	5.50
	12:29		Middle	2	25.80	25.80		7.97	7.97		31.14	30.43		55.2 56.6	53.2 54.2		3.87	3.51		2.47	2.72		5	
22/9/2010	12:32	Cloudy	Middle	2	26.00	26.00	25.90	7.96	7.96	7.97	30.42	30.42	30.43	57.3	55.1	55.8	3.92	3.82	3.83	2.32	2.64	2.54	7	6.00
	13:16		Middle	3	27.10	27.10		7.97	7.97		32.00	32.00		62.7	60.7		4.15	4.01		3.10	2.99		5	
24/9/2010	13:20	Sunny	Middle	3	27.50	27.50	27.30	7.97	7.97	7.97	31.99	31.99	32.00	61.2	60.8	61.4	4.04	4.01	4.05	3.35	3.17	3.15	7	6.00
	16:57		Middle	2	27.60	27.60		8.10	8.10		30.99	30.99		81.0	79.5		5.37	5.27		3.65	3.46		7	
27/9/2010	17:00	Sunny	Middle	2	27.80	27.80	27.70	8.10	8.10	8.10	31.01	31.01	31.00	81.9	79.4	80.5	5.42	5.25	5.33	3.57	3.21	3.47	5	6.00
				_	200	200		50	00		3	3		00			J	3.20		0.0.	0.2.		Ŭ	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pH -			Salinit ppt	у	D	O Satur	ation		DO mg/L			Turbid		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va		Average	Va	lue	Average	Value	Average
00/0/0040	13:53	Observation	Middle	2	28.07	28.07	00.47	6.74	6.74	0.75	30.94	30.94	00.00	74.5	75.9	74.0	4.90	4.98	4.04	7.44	7.06	7.14	19	
30/8/2010	13:55	Cloudy	Middle	2	28.27	28.27	28.17	6.75	6.75	6.75	30.92	30.92	30.93	74.9	73.8	74.8	4.92	4.84	4.91	6.82	7.13	7.11	17	<u>18.00</u>
0/0/2040	7:48	Clavida	Middle	2	28.01	28.01	20.00	7.02	7.02	7.00	30.67	30.67	20.00	70.1	68.4	CO 0	4.65	4.53	4.50	8.48	8.57	0.20	14	42.00
2/9/2010	7:51	Cloudy	Middle	2	28.14	28.14	28.08	7.01	7.02	7.02	30.65	30.65	30.66	68.6	67.9	68.8	4.54	4.50	4.56	7.94	8.22	8.30	12	13.00
4/9/2010	11:40	Rainy	Middle	2	27.01	27.01	27.04	7.04	7.04	7.04	30.55	30.55	30.55	62.8	61.1	62.6	4.22	4.11	4.21	6.56	7.19	7.06	23	21.50
4/9/2010	11:43	ivality	Middle	2	27.06	27.06	27.04	7.03	7.03	7.04	30.54	30.55	30.33	63.4	63.2	02.0	4.27	4.25	4.21	7.03	7.46	7.00	20	21.50
6/9/2010	12:24	Fine	Middle	2	28.39	28.39	28.42	7.07	7.07	7.07	30.58	30.58	30.59	63.3	62.6	62.7	4.14	4.08	4.09	5.94	6.22	6.17	8	9.00
0/3/2010	12:27	Tille	Middle	2	28.44	28.44	20.42	7.07	7.07	7.07	30.59	30.59	50.55	63.1	61.9	02.7	4.13	4.02	4.00	6.37	6.16	0.17	10	3.00
8/9/2010	15:40	Sunny	Middle	2	28.60	28.60	28.85	7.82	7.82	7.82	29.37	29.37	29.36	51.2	51.0	50.0	3.36	3.34	3.28	9.02	8.47	8.20	14	13.50
5/5/2515	15:43	- Cu,	Middle	2	29.10	29.10	20.00	7.82	7.82	7.102	29.35	29.35	20.00	50.1	47.7	00.0	3.28	3.12	<u> </u>	7.44	7.86	0.20	13	10.00
10/9/2010	15:15	Cloudy	Middle	2	27.70	27.70	27.80	7.84	7.84	7.84	30.01	30.01	29.95	77.6	77.9	77.5	5.07	5.07	5.07	7.12	7.44	7.37	11	10.00
10/0/2010	15:18	o.ouu,	Middle	2	27.90	27.90	27.00	7.83	7.83		29.89	29.89	20.00	77.3	77.1	77.0	5.07	5.06	0.0.	7.36	7.57	7.0.	9	10.00
13/9/2010	3:08	Cloudy	Middle	2	25.96	25.96	25.96	7.06	7.06	7.06	29.23	29.23	29.24	80.5	78.3	77.9	5.54	5.39	5.37	3.79	3.37	3.63	5	5.50
	3:15		Middle	2	25.96	25.96		7.06	7.06		29.25	29.25		76.7	76.1		5.28	5.25		3.72	3.64		6	
16/9/2010	9:30	Sunny	Middle	2	27.60	27.60	27.75	8.09	8.09	8.09	28.27	28.27	28.27	68.7	67.7	68.2	4.60	4.54	4.57	9.45	9.18	9.14	15	<u>16.50</u>
	9:32		Middle	2	27.90	27.90		8.09	8.09		28.26	28.26		68.9	67.3		4.61	4.51		9.04	8.90		18	
18/9/2010	12:59	Sunny	Middle	2	29.00	29.00	29.15	8.06	8.06	8.06	28.04	28.04	28.08	68.8	67.4	67.1	4.49	4.40	4.36	9.74	10.60	10.14	19	20.00
	13:02	,	Middle	2	29.30	29.30		8.05	8.05		28.12	28.12		67.2	64.9		4.32	4.24		9.93	10.30		21	
20/9/2010	13:33	Cloudy	Middle	2	27.10	27.10	27.15	8.15	8.15	8.15	28.52	28.52	28.50	74.0	72.7	73.5	4.99	4.95	4.99	6.12	6.06	6.09	47*	12.00
	13:36		Middle	2	27.20	27.20		8.15	8.15		28.48	28.48		74.4	73.0		5.02	4.98		6.07	6.11		12	<u> </u>
22/9/2010	10:47	Cloudy	Middle	2	25.90	25.90	25.95	8.05	8.05	8.05	29.16	29.16	29.18	63.2	62.2	61.9	4.36	4.28	4.24	5.86	5.64	5.72	10	9.50
	10:50	-	Middle	2	26.00	26.00		8.04	8.04		29.20	29.20		61.3	60.9		4.21	4.12		5.72	5.66		9	<u> </u>
24/9/2010	12:45	Sunny	Middle	2	27.40	27.40	27.70	7.95	7.95	7.93	30.56	30.56	30.61	61.0	59.0	60.4	4.04	3.90	3.99	5.74	5.53	5.62	5	5.00
	12:48		Middle	2	28.00	28.00		7.90	7.90		30.66	30.66		61.6	60.0		4.06	3.96		5.59	5.62		5	<u> </u>
27/9/2010	12:15	Sunny	Middle	2	27.20	27.20	27.35	8.02	8.02	8.02	31.01	30.01	30.77	74.7	73.8	74.0	5.04	4.97	4.98	7.44	8.12	7.82	17	18.50
	12:18		Middle	2	27.50	27.50		8.01	8.01		31.02	31.02		74.2	73.3		4.99	4.92		8.08	7.65		20	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
	13:35		Middle	2	28.40	28.40		6.97	6.97		30.88	30.88		85.9	85.3		5.62	5.57		7.14	6.66		11	
30/8/2010	13:38	Cloudy	Middle	2	28.48	28.48	28.44	6.96	6.96	6.97	30.87	30.87	30.88	83.6	82.0	84.2	5.46	5.30	5.49	7.22	6.93	6.99	13	12.00
2/9/2010	7:33	Cloudy	Middle	2	27.81	27.81	27.82	6.99	6.99	6.99	30.53	30.53	30.56	68.9	70.7	70.7	4.56	4.68	4.68	9.02	8.33	8.42	12	11.00
2/9/2010	7:36	Cloudy	Middle	2	27.82	27.82	21.02	6.99	6.99	0.99	30.59	30.59	30.36	72.1	71.1	70.7	4.78	4.71	4.00	7.96	8.37	0.42	10	11.00
4/9/2010	11:25	Rainy	Middle	2	26.79	26.79	26.81	7.00	7.00	7.00	30.49	30.49	30.50	63.7	63.0	64.1	4.29	4.24	4.32	7.77	7.84	7.64	18	18.50
47.072.010	11:28	rtuiny	Middle	2	26.83	26.83	20.01	7.00	7.00	7.00	30.50	30.50	00.00	64.5	65.2	01.1	4.35	4.39	1.02	7.51	7.43	7.01	19	10.00
6/9/2010	12:10	Fine	Middle	2	28.34	28.34	28.40	7.05	7.05	7.05	30.66	30.66	30.66	62.6	61.7	62.5	4.08	4.02	4.06	6.78	6.93	6.72	10	10.00
	12:13		Middle	2	28.45	28.45		7.04	7.04		30.65	30.66		63.1	62.4		4.10	4.05		6.61	6.54	J	10	
8/9/2010	15:20	Sunny	Middle	2	29.30	29.30	29.50	7.75	7.75	7.76	28.85	28.85	28.75	49.3	46.5	48.2	3.21	3.03	3.13	9.33	8.22	8.34	6	6.00
	15:23	-	Middle	2	29.70	29.70		7.77	7.77		28.65	28.65		49.1	47.8		3.19	3.10		7.87	7.94		6	
10/9/2010	14:55	Cloudy	Middle	2	28.10	28.10	28.25	7.82	7.82	7.82	29.82	29.82	29.83	69.7	69.6	69.5	4.63	4.63	4.61	7.82	7.71	7.58	10	9.00
	14:58		Middle	2	28.40	28.40		7.81	7.81		29.84	29.84		69.3	69.2		4.59	4.59		7.14	7.63		8	
13/9/2010	2:55	Cloudy	Middle	2	26.20	26.20	26.18	7.09	7.09	7.10	29.26	29.26	29.28	75.1	76.8	75.0	5.15	5.27	5.14	1.81	1.72	1.84	6	5.50
	3:00		Middle	2	26.16	26.16		7.10	7.10		29.29	29.30		73.5	74.4		5.04	5.10		2.07	1.76		5	
16/9/2010	9:40	Sunny	Middle	2	27.80	27.80	28.00	8.07	8.07	8.08	27.99	27.99	27.93	71.6	70.7	71.0	4.79	4.71	4.74	13.90	12.60	<u>12.83</u>	19	20.50
	9:42		Middle	2	28.20	28.20		8.08	8.08		27.86	27.86		71.3	70.4		4.77	4.67		11.60	13.20		22	
18/9/2010	12:40	Sunny	Middle	2	28.80	28.80	29.00	8.09	8.09	8.09	27.85	27.85	27.85	68.7	65.4	67.0	4.53	4.31	4.41	11.70	10.90	<u>10.85</u>	14	<u>15.50</u>
	12:44		Middle	2	29.20	29.20		8.08	8.08		27.85	27.85		67.2	66.6		4.42	4.38		10.50	10.30		17	
20/9/2010	13:15	Cloudy	Middle	2	27.20	27.20	27.30	8.16	8.16	8.16	28.34	28.34	28.40	73.7	72.0	73.1	5.00	4.88	4.95	7.30	7.38	6.98	15	14.50
	13:18		Middle	2	27.40	27.40		8.15	8.15		28.46	28.46		74.6	72.1		5.06	4.87		6.87	6.35		14	
22/9/2010	9:58	Cloudy	Middle	2	25.80	25.80	25.90	8.00	8.00	7.97	29.36	29.36	29.34	59.0	58.4	58.8	4.06	4.02	4.04	7.52	6.88	6.95	13	11.50
	10:02		Middle	2	26.00	26.00		7.93	7.93		29.31	29.31		59.2	58.5		4.07	4.02		6.79	6.61		10	<u> </u>
24/9/2010	12:20	Sunny	Middle	2	27.20	27.20	27.50	7.91	7.91	7.91	30.71	30.71	30.67	62.6	61.4	62.4	4.15	4.08	4.14	3.82	3.59	3.54	6	5.50
	12:23		Middle	2	27.80	27.80		7.91	7.91		30.63	30.63		63.7	61.7		4.23	4.09		3.33	3.40		5	<u> </u>
27/9/2010	11:50	Sunny	Middle	2	27.40	27.40	27.53	8.01	8.01	8.01	30.92	30.92	30.95	70.7	70.2	70.6	4.52	4.49	4.51	5.88	5.91	5.91	19	<u>25.00</u>
	11:53		Middle	2	27.60	27.70		8.00	8.00		30.97	30.97		71.0	70.4		4.54	4.50		6.04	5.82		31	<u> </u>



Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
	14:55	<u>.</u>	Middle	2.5	27.82	27.81		6.98	6.99		30.65	30.64		72.7	67.1		4.81	4.44		3.40	3.49		8.00	
30/8/2010	14:58	Cloudy	Middle	2.5	27.78	27.77	27.80	7.00	7.00	6.99	30.67	30.66	30.66	66.3	63.6	67.4	4.39	4.22	4.47	3.35	3.31	3.39	8.00	8.00
2/9/2010	7:16	Cloudy	Middle	2.5	26.10	26.70	26.40	7.81	7.79	7.77	30.72	30.70	30.65	59.5	50.5	54.0	3.97	3.39	3.62	2.44	2.33	2.51	6.00	5.50
2/9/2010	7:19	Cloudy	Middle	2.5	26.50	26.30	20.40	7.73	7.75	7.11	30.66	30.52	30.03	54.5	51.6	34.0	3.63	3.47	3.02	2.45	2.81	2.51	5.00	3.30
4/9/2010	8:50	Rainy	Middle	2.0	27.20	27.20	27.15	7.68	7.69	7.69	28.58	28.60	28.59	68.0	64.6	65.1	4.56	4.39	4.41	2.50	2.68	2.47	7.00	7.50
1,0,2010	8:52		Middle	2.0	27.10	27.10	21110	7.69	7.69	7.00	28.59	28.58	20.00	64.1	63.7	00.1	4.36	4.33		2.33	2.35	2	8.00	7.00
6/9/2010	10:30	Fine	Middle	2.5	27.20	27.50	27.30	7.74	7.72	7.75	31.01	31.27	30.87	80.6	80.4	82.3	5.28	5.36	5.43	3.35	3.42	3.41	7.00	6.00
0.0.20.0	10:33		Middle	2.5	27.40	27.10		7.78	7.76		30.92	30.28		83.5	84.8		5.48	5.58		3.48	3.40		5.00	
8/9/2010	12:30	Sunny	Middle	2.0	26.50	26.30	26.53	7.81	7.82	7.83	31.00	31.10	30.85	60.6	58.7	58.9	4.02	3.88	3.90	5.23	5.24	5.19	8.00	7.00
	12:33	-	Middle	2.0	26.70	26.60		7.80	7.87		30.70	30.60		58.2	58.1		3.85	3.84		5.14	5.16		6.00	
10/9/2010	13:08	Cloudy	Middle	2.0	23.70	24.00	23.93	7.95	7.92	7.94	31.80	32.60	32.03	59.1	59.4	58.0	4.16	4.15	4.07	3.96	3.76	3.69	6.00	7.00
	13:11	-	Middle	2.0	23.90	24.10		7.93	7.95		31.90	31.80		57.8	55.5		4.06	3.91		3.54	3.50		8.00	
13/9/2010	2:50	Cloudy	Middle	2.5	26.50	26.50	26.50	7.04	7.04	7.05	28.66	28.67	28.68	82.4	80.8	80.5	5.64	5.53	5.50	1.29	1.30	1.29	4.00	3.50
	2:56		Middle	2.5	26.50	26.50		7.05	7.05		28.68	28.69		80.0	78.8		5.47	5.37		1.26	1.30		3.00	
16/9/2010	7:20	Sunny	Middle	2.5	25.50	25.70	25.73	7.98	7.95	7.97	33.00	32.90	32.95	79.7	78.5	78.6	5.38	5.29	5.30	2.61	2.60	2.53	11.00	11.00
	7:23		Middle	2.5	25.90	25.80		7.97	7.98		32.80	33.10		78.1	77.9		5.26	5.25		2.44	2.47		11.00	
18/9/2010	9:00	Sunny	Middle	2.5	28.90	28.90	29.00	8.22	8.22	8.22	28.47	28.47	28.45	86.2	85.0	84.4	5.63	5.52	5.51	6.04	6.18	6.07	11.00	13.00
	9:03		Middle	2.5	29.10	29.10		8.22	8.22		28.42	28.42		84.0	82.3		5.50	5.39		5.97	6.07		15.00	
20/9/2010	10:10	Cloudy	Middle	2.5	26.40	27.30	27.10	8.51	8.50	8.51	31.00	31.20	31.15	83.4	78.9	79.6	5.73	5.39	5.45	1.87	1.79	1.81	5.00	5.00
	10:13		Middle	2.5	27.50	27.20		8.52	8.51		31.30	31.10		78.2	78.0		5.34	5.32		1.68	1.90		5.00	
22/9/2010	12:28	Cloudy	Middle	2.5	27.90	28.10	28.08	8.20	8.21	8.20	31.00	31.20	31.08	78.1	78.9	77.8	5.45	5.48	5.41	2.33	2.42	2.32	5.00	4.50
	12:31		Middle	2.5	28.00	28.30		8.18	8.19		31.10	31.00		77.6	76.5		5.39	5.33		2.21	2.31		4.00	
24/9/2010	14:19	Sunny	Middle	2.5	28.30	28.50	28.35	7.70	7.71	7.71	31.00	31.20	31.10	68.6	67.9	67.7	4.82	4.77	4.76	2.72	2.36	2.57	5.00	4.00
	14:22		Middle	2.5	28.40	28.20		7.72	7.70		30.90	31.30		67.1	67.0		4.73	4.72		2.82	2.39		3.00	<u> </u>
27/9/2010	14:20	Sunny	Middle	3.0	30.80	31.00	30.85	7.92	7.91	7.93	30.70	30.80	30.68	67.8	66.9	66.7	4.60	4.56	4.53	2.61	2.29	2.38	9.00	8.50
	14:23		Middle	3.0	30.70	30.90		7.95	7.93		30.50	30.70		66.6	65.3		4.52	4.42		2.34	2.26		8.00	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	led Solids
		Ooridition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
00/0/0040	14:43	01 1	Middle	2.0	27.83	27.80	07.00	6.99	6.99	0.00	30.43	30.46	00.47	68.1	70.3		4.53	4.66	4.0=	3.23	3.21	0.00	7.0	7.00
30/8/2010	14:46	Cloudy	Middle	2.0	27.79	27.78	27.80	6.99	6.97	6.99	30.49	30.50	30.47	69.4	67.6	68.9	4.60	4.88	4.67	3.33	3.37	3.29	7.0	7.00
2/9/2010	7:07	Cloudy	Middle	2.0	26.90	26.70	26.70	7.71	7.74	7.68	30.76	30.54	30.80	64.6	65.5	63.2	4.43	4.26	4.26	2.51	2.23	2.39	6.0	5.00
2/3/2010	7:10	Cloudy	Middle	2.0	26.80	26.40	20.70	7.65	7.61	7.00	31.02	30.87	30.00	61.5	61.1	05.2	4.19	4.16	4.20	2.44	2.36	2.59	4.0	3.00
4/9/2010	8:24	Rainy	Middle	2.0	27.20	27.20	27.25	7.83	7.82	7.82	28.74	28.75	28.75	68.1	67.0	66.2	4.58	4.49	4.44	2.72	2.92	2.81	11.0	11.50
47.57.2010	8:26	ramy	Middle	2.0	27.30	27.30	27.20	7.82	7.82	7.02	28.75	28.75	20.70	66.2	63.5	00.2	4.44	4.26	1.11	2.89	2.70	2.01	12.0	11.00
6/9/2010	10:10	Fine	Middle	1.5	27.40	27.00	27.23	7.45	7.49	7.47	30.92	30.98	31.00	81.8	84.6	83.2	5.21	5.60	5.36	3.23	3.21	3.19	9.0	8.00
6,6,2010	10:13		Middle	1.5	27.20	27.30	27.20	7.47	7.45		31.03	31.07	01.00	83.6	82.6	00.2	5.22	5.41	0.00	3.09	3.24	0.10	7.0	0.00
8/9/2010	12:20	Sunny	Middle	1.5	26.40	26.20	26.55	7.88	7.85	7.86	31.50	31.70	31.68	68.4	68.1	68.7	4.53	4.50	4.56	3.77	3.59	3.64	11.0	9.50
	12:23		Middle	1.5	26.70	26.90		7.87	7.84		31.90	31.60		68.5	69.6		4.59	4.61		3.72	3.48		8.0	
10/9/2010	12:58	Cloudy	Middle	1.5	24.00	24.20	24.25	8.04	80.20	26.06	30.80	31.50	31.30	58.5	57.8	57.0	3.89	3.84	3.79	4.15	3.88	3.86	10.0	9.50
	13:01		Middle	1.5	24.30	24.50		8.00	7.99		31.70	31.20		57.3	54.2		3.82	3.61		3.71	3.69		9.0	
13/9/2010	4:45	Cloudy	Middle	2.0	26.43	26.50	26.57	7.08	7.08	7.08	28.67	28.65	28.64	84.4	80.5	80.6	5.76	5.49	5.52	1.10	1.03	1.09	6.0	5.00
	4:53		Middle	2.0	26.67	26.67		7.07	7.07		28.62	28.62		78.6	78.7		5.42	5.40		1.08	1.14		4.0	<u> </u>
16/9/2010	7:00	Sunny	Middle	1.5	26.60	26.30	26.45	8.13	8.11	8.12	31.20	31.50	31.33	77.4	76.1	76.5	5.20	5.10	5.13	5.63	5.32	5.50	9.0	8.00
	7:03		Middle	1.5	26.50	26.40		8.12	8.13		31.40	31.20		76.4	76.2		5.12	5.11		5.41	5.64		7.0	
18/9/2010	8:40	Sunny	Middle	2.0	28.60	28.60	28.70	8.18	8.18	8.18	28.49	28.49	28.51	78.7	78.0	77.4	5.21	5.16	5.13	5.42	5.03	5.15	15.0	14.50
	8:43		Middle	2.0	28.80	28.80		8.17	8.17		28.52	28.52		77.2	75.8		5.11	5.02		5.10	5.06		14.0	<u> </u>
20/9/2010	9:45	Cloudy	Middle	1.0	27.60	27.80	27.85	6.50	6.51	6.52	31.40	31.20	31.30	67.6	66.3	66.3	4.55	4.46	4.45	1.97	1.81	1.89	5.0	6.00
	9:48		Middle	1.0	27.90	28.10		6.52	6.53		31.30	31.30		65.7	65.4		4.41	4.39		2.09	1.69		7.0	<u> </u>
22/9/2010	11:38	Cloudy	Middle	1.5	28.40	28.50	28.43	8.65	8.63	8.66	31.00	30.90	30.95	81.1	79.3	79.4	5.60	5.46	5.48	1.50	1.51	1.53	7.0	7.50
	11:41		Middle	1.5	28.20	28.60		8.69	8.67		30.80	31.10		78.5	78.6		5.42	5.44		1.55	1.56		8.0	<u> </u>
24/9/2010	13:40	Sunny	Middle	2.0	28.10	28.40	28.25	7.67	7.66	7.66	28.80	28.70	28.88	72.6	71.8	71.6	5.14	5.09	5.07	3.44	2.78	3.13	6.0	7.00
	13:43		Middle	2.0	28.20	28.30		7.65	7.66		28.90	29.10		71.5	70.5		5.06	4.98		3.19	3.11		8.0	<u> </u>
27/9/2010	14:00	Sunny	Middle	2.0	30.30	30.40	30.25	7.93	7.94	7.93	30.80	31.00	30.88	63.9	63.1	62.4	4.30	4.23	4.19	2.24	2.40	2.17	15.0	15.00
	14:03		Middle	2.0	30.10	30.20		7.92	7.93		30.90	30.80		61.6	60.8		4.15	4.09		2.03	2.02		15.0	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	Average
/-/-	16:15	<u> </u>	Middle	2.5	27.35	27.35		6.99	6.98		30.30	30.30		75.2	75.7		5.02	5.06		3.31	3.23		6	
30/8/2010	16:18	Cloudy	Middle	2.5	27.36	27.36	27.36	6.97	6.97	6.98	30.30	30.29	30.30	71.4	74.3	74.2	4.77	4.97	4.96	3.20	3.05	3.20	7	6.50
2/9/2010	8:27	Cloudy	Middle	2.5	26.80	26.70	26.73	7.94	7.90	7.89	31.00	31.17	30.90	56.2	58.5	55.5	3.61	3.85	3.63	2.78	2.94	2.85	5	5.00
2/9/2010	8:30	Cloudy	Middle	2.5	26.60	26.80	20.73	7.87	7.83	7.09	30.87	30.56	30.90	54.2	52.9	55.5	3.57	3.48	3.03	2.82	2.85	2.05	5	5.00
4/9/2010	10:19	Rainv	Middle	2.5	27.20	27.10	27.15	7.42	7.43	7.43	28.40	28.39	28.39	66.1	63.2	63.2	4.42	4.24	4.25	4.42	3.72	3.86	6	6.50
4/3/2010	10:21	reality	Middle	2.5	27.10	27.20	27.10	7.43	7.42	7.40	28.39	28.39	20.55	61.3	62.1	00.2	4.15	4.20	4.20	3.64	3.67	3.00	7	0.50
6/9/2010	11:45	Fine	Middle	1.5	26.60	26.50	26.43	7.74	7.70	7.72	31.06	31.12	31.08	63.6	61.5	63.7	4.21	4.03	4.24	4.46	4.52	4.46	6	6.50
0/0/2010	11:48	1 1110	Middle	1.5	26.40	26.20	20.10	7.68	7.75	7.72	31.05	31.07	01.00	59.4	70.2	00.1	3.95	4.76	1.21	4.44	4.42	1.10	7	0.00
8/9/2010	13:45	Sunny	Middle	2.0	26.00	26.10	26.23	7.89	7.87	7.84	31.50	31.60	31.43	70.6	67.5	67.6	4.75	4.56	4.55	10.10	9.97	10.03	15	16.50
	13:48		Middle	2.0	26.30	26.50		7.79	7.82		31.30	31.30		66.6	65.6		4.48	4.42		9.85	10.20		18	
10/9/2010	14:06	Cloudy	Middle	2.0	24.90	25.20	25.25	8.02	8.06	8.03	31.80	32.20	32.13	53.5	57.0	55.4	3.68	3.99	3.80	9.41	8.63	8.79	14	13.00
	14:09		Middle	2.0	25.60	25.30		8.00	8/.05		32.00	32.50		55.9	55.2		3.80	3.73		8.87	8.26	00	12	
13/9/2010	4:23	Cloudy	Middle	2.5	26.19	26.15	26.45	7.04	7.05	7.05	29.01	29.02	28.94	64.6	68.3	66.4	4.76	4.66	4.58	1.03	1.59	1.32	4	3.50
	4:29		Middle	2.5	26.72	26.72		7.05	7.05		28.87	28.87		65.9	66.9		4.42	4.46		1.12	1.53		3	
16/9/2010	8:44	Sunny	Middle	2.5	26.00	26.20	26.18	8.18	8.16	8.16	31.50	31.00	31.30	72.2	71.2	71.0	4.87	4.80	4.79	7.30	7.37	7.21	25	23.50
	8:47	,	Middle	2.5	26.10	26.40		8.15	8.14		31.40	31.30		70.7	69.9		4.78	4.72		7.25	6.92		22	
18/9/2010	10:12	Sunny	Middle	2.0	28.50	28.50	28.55	8.21	8.21	8.22	28.35	28.35	28.37	83.8	82.9	82.8	5.65	5.59	5.59	4.45	4.33	4.27	11	16.00
	10:15	-	Middle	2.0	28.60	28.60		8.22	8.22		28.38	28.38		83.0	81.4		5.61	5.51		4.16	4.12		21	
20/9/2010	11:20	Cloudy	Middle	3.0	27.90	28.30	28.18	7.29	7.28	7.27	31.20	31.00	31.25	70.4	70.0	69.9	4.71	4.69	4.68	1.81	2.05	2.02	6	6.00
	11:23		Middle	3.0	28.10	28.40		7.25	7.27		31.30	31.50		69.7	69.6		4.67	4.66		2.11	2.12		6	
22/9/2010	11:50	Cloudy	Middle	3.0	28.70	28.60	28.55	8.39	8.32	8.35	31.10	31.20	31.15	80.6	79.4	78.8	5.58	5.49	5.45	2.89	2.75	2.78	5	6.00
	11:53		Middle	3.0	28.50	28.40		8.35	8.33		31.00	31.30		78.3	76.7		5.41	5.31		2.84	2.63		7	
24/9/2010	14:08	Sunny	Middle	2.5	28.10	28.20	28.25	8.65	8.68	8.66	29.20	29.10	29.25	81.5	81.0	81.2	5.70	5.66	5.68	5.41	5.18	5.10	6	6.00
	14:11		Middle	2.5	28.30	28.40		8.65	8.64		29.40	29.30		81.1	81.2		5.68	5.69		4.87	4.92		27*	
27/9/2010	14:43	Sunny	Middle	3.0	30.70	30.90	30.78	7.94	7.92	7.93	31.10	30.90	30.95	64.6	64.2	63.8	4.39	4.37	4.34	3.64	3.32	3.49	10	10.50
	14:46		Middle	3.0	30.80	30.70		7.93	7.93		30.80	31.00		63.7	62.5		4.34	4.26		3.54	3.47		11	



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

Date	Time	Weater Condition	•	g Depth	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids g/L
			r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	llue	Average	Value	Average
30/8/2010	15:45	Cloudy	Middle	1.5	26.99	27.34	27.25	6.90	6.90	6.90	30.57	30.45	30.49	76.2	67.9	68.9	5.09	4.54	4.61	3.02	3.05	3.11	6	6.50
30/6/2010	15:48	Cloudy	Middle	1.5	27.33	27.32	21.25	6.90	6.89	6.90	30.46	30.46	30.49	68.0	63.5	00.9	4.55	4.24	4.01	3.17	3.21	3.11	7	6.50
2/9/2010	8:05	Claudy	Middle	1.5	26.70	26.20	26.59	7.83	7.80	7.64	30.77	30.54	30.49	65.2	62.0	60.0	4.30	4.09	4.02	3.81	3.99	2.76	7	7.00
2/9/2010	8:08	Cloudy	Middle	1.5	26.50	26.90	26.58	7.48	7.46	7.04	30.23	30.40	30.49	58.7	57.6	60.9	3.88	3.81	4.02	3.64	3.61	3.76	7	7.00
4/9/2010	10:01	Rainy	Middle	2.0	27.30	27.20	27.23	7.46	7.47	7.47	28.12	28.13	28.13	61.5	60.0	59.8	4.17	4.07	4.05	2.32	2.14	2.19	7	7.00
4/9/2010	10:03	Kalliy	Middle	2.0	27.20	27.20	21.23	7.47	7.47	7.47	28.13	28.14	20.13	59.2	58.5	59.0	4.01	3.96	4.05	2.20	2.08	2.19	7	7.00
6/9/2010	11:25	Fine	Middle	1.5	26.60	26.50	26.28	7.51	7.62	7.57	30.08	30.01	30.11	68.7	70.1	69.4	4.63	4.56	4.64	3.38	3.42	3.31	10	10.50
0/9/2010	11:28	rille	Middle	1.5	26.10	25.90	20.26	7.55	7.58	7.57	30.23	30.11	30.11	69.5	69.3	09.4	4.73	4.62	4.04	3.10	3.32	3.31	11	10.50
8/9/2010	13:25	Sunny	Middle	1.5	26.00	26.50	26.35	7.88	7.89	7.86	31.80	31.40	31.48	62.6	61.6	61.5	4.18	4.12	4.10	11.00	10.90	10.95	29	20.50
0/9/2010	13:28	Suring	Middle	1.5	26.70	26.20	20.55	7.85	7.80	7.00	31.50	31.20	31.40	62.3	59.4	01.5	4.15	3.96	4.10	10.90	11.00	10.33	12	20.30
10/9/2010	13:48	Cloudy	Middle	1.5	25.50	25.70	25.78	8.04	7.95	7.98	32.00	32.30	32.25	61.8	60.3	60.4	4.16	4.09	4.08	5.37	4.89	4.86	11	12.50
10/3/2010	13:51	Cloudy	Middle	1.5	26.10	25.80	25.76	7.98	7.93	7.90	32.20	32.50	32.23	59.9	59.5	00.4	4.05	4.02	4.00	4.63	4.55	4.00	14	12.50
13/9/2010	4:05	Cloudy	Middle	1.5	26.57	26.58	26.56	7.03	7.08	7.04	28.63	28.63	28.64	72.6	72.0	70.3	4.96	4.90	4.82	1.27	1.23	1.25	2	2.00
13/3/2010	4:11	Cloudy	Middle	1.5	26.54	26.54	20.50	7.03	7.03	7.04	28.64	28.64	20.04	68.7	68.0	70.5	4.70	4.71	4.02	1.16	1.35	1.23	2	2.00
16/9/2010	8:31	Sunny	Middle	1.5	26.00	26.30	26.15	7.98	7.96	7.97	31.40	31.50	31.40	66.6	66.1	66.7	4.49	4.45	4.49	3.70	3.52	3.69	13	13.00
10/0/2010	8:33	Culliny	Middle	1.5	26.20	26.10	20.10	7.97	7.95	7.01	31.30	31.40	01.10	66.9	67.0	00.7	4.51	4.52	1.10	3.79	3.75	0.00	13	10.00
18/9/2010	9:50	Sunnv	Middle	1.0	28.10	28.10	28.20	8.18	8.18	8.18	28.36	28.36	28.36	80.6	79.3	80.1	5.40	5.31	5.37	6.11	6.06	5.99	16	15.00
10,0,2010	9:53	- Cuy	Middle	1.0	28.30	28.30	20:20	8.18	8.18	0.10	28.36	28.36	20.00	81.0	79.3	00.1	5.44	5.33	0.0.	5.84	5.95	0.00	14	10.00
20/9/2010	11:00	Cloudy	Middle	1.5	28.30	28.20	28.28	7.01	7.00	7.00	31.30	31.50	31.25	64.8	64.6	64.4	4.30	4.29	4.27	2.74	2.77	2.73	9	8.00
25/5/2015	11:03	o.ouu,	Middle	1.5	28.10	28.50	20:20	7.00	6.98	7.00	31.00	31.20	01.20	64.1	63.9	•	4.26	4.24		2.93	2.49	20	7	0.00
22/9/2010	11:58	Cloudy	Middle	1.5	28.40	28.50	28.40	8.39	8.44	8.40	31.00	31.20	31.25	78.8	78.7	79.2	5.45	5.43	5.47	2.20	2.13	2.19	8	7.00
	12:01		Middle	1.5	28.30	28.40		8.38	8.39		31.50	31.30		78.9	80.3		5.46	5.54		2.26	2.18		6	
24/9/2010	13:50	Sunny	Middle	1.5	28.60	28.40	28.53	7.74	7.72	7.74	30.00	30.20	29.85	81.1	77.8	77.6	5.68	5.41	5.41	3.07	3.10	3.16	7	8.50
	13:53	· · · · ,	Middle	1.5	28.50	28.60		7.73	7.75		29.50	29.70		77.0	74.5		5.35	5.18		3.18	3.29		10	
27/9/2010	14:25	Sunny	Middle	1.5	30.30	30.60	30.45	7.93	7.92	7.94	30.90	31.10	31.13	58.6	58.1	57.3	3.99	3.96	3.90	2.62	2.90	2.70	9	9.00
	14:28	,	Middle	1.5	30.40	30.50		7.94	7.95		31.20	31.30		57.0	55.5		3.88	3.77		2.67	2.62	•	9	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	Average
00/0/0040	15:53	0	Middle	1.5	27.35	27.34	07.04	6.82	6.83	2.00	30.32	30.31	22.22	55.6	59.4	== 1	3.72	3.97	2.25	3.07	3.15		3	0.50
30/8/2010	15:56	Cloudy	Middle	1.5	27.35	27.31	27.34	6.83	6.84	6.83	30.30	30.37	30.33	62.1	59.2	59.1	4.15	3.96	3.95	3.02	3.09	3.08	2	2.50
2/9/2010	8:15	Cloudy	Middle	1.5	26.50	26.40	26.68	7.66	7.65	7.64	30.62	30.55	30.52	59.6	58.4	54.9	3.94	3.84	3.62	3.22	3.23	3.16	5	4.50
2/3/2010	8:18	Oloudy	Middle	1.5	26.80	27.00	20.00	7.62	7.64	7.04	30.51	30.41	30.32	51.0	50.4	04.0	3.37	3.34	3.02	3.08	3.10	5.10	4	4.50
4/9/2010	10:08	Rainy	Middle	2.5	27.30	27.30	27.30	7.44	7.43	7.44	28.14	28.14	28.15	60.4	59.5	59.5	4.11	4.05	4.04	1.69	1.75	1.79	8	7.00
17.07.20.10	10:10		Middle	2.5	27.30	27.30	27.00	7.44	7.44		28.15	28.15	20.10	59.3	58.6	00.0	4.03	3.97		1.86	1.84	0	6	1.00
6/9/2010	11:35	Fine	Middle	1.5	25.10	25.20	25.53	7.03	7.06	7.05	31.21	31.00	31.00	69.0	65.7	65.7	4.58	4.38	4.37	3.64	3.52	3.58	11	17.50
0.0.20.0	11:38		Middle	1.5	26.00	25.80		7.08	7.02		30.87	30.91		65.6	62.5		4.37	4.13		3.41	3.73		24	
8/9/2010	13:33	Sunny	Middle	1.5	25.90	26.20	26.28	7.85	7.86	7.84	31.00	31.10	31.18	59.8	57.8	58.6	4.00	3.86	3.92	2.89	3.03	3.12	8	14.50
	13:36	•	Middle	1.5	26.30	26.70		7.82	7.81		30.90	31.70		58.5	58.4		3.90	3.91		3.29	3.27		21	
10/9/2010	13:56	Cloudy	Middle	1.5	26.20	26.30	26.33	8.00	7.95	7.98	31.90	32.00	31.85	59.3	50.6	54.3	4.01	3.45	3.68	4.11	3.78	3.88	5	7.00
	13:59	,	Middle	1.5	26.10	26.70		7.98	7.97		31.70	31.80		54.2	52.9		3.66	3.60		3.62	4.02		9	<u> </u>
13/9/2010	4:13	Cloudy	Middle	1.5	26.46	26.48	26.47	7.01	7.02	7.02	27.42	27.41	27.41	67.4	65.0	67.1	4.67	4.50	4.67	1.98	1.84	1.71	3	3.00
	4:20		Middle	1.5	26.46	26.46		7.02	7.02		27.40	27.40		68.0	67.8		4.67	4.84		1.09	1.94		3	<u> </u>
16/9/2010	8:36	Sunny	Middle	1.5	26.00	26.10	26.20	7.97	7.96	7.97	31.50	31.40	31.40	78.3	74.4	73.9	5.27	5.01	4.98	3.68	3.52	3.62	13	14.50
	8:39		Middle	1.5	26.30	26.40		7.98	7.95		31.40	31.30		73.1	69.7		4.92	4.70		3.65	3.62		16	
18/9/2010	9:57	Sunny	Middle	1.0	28.00	28.00	28.25	8.12	8.12	8.11	28.28	28.28	28.30	77.8	74.2	75.3	5.23	4.98	5.06	9.93	9.92	9.92	11	12.00
	10:00		Middle	1.0	28.50	28.50		8.10	8.10		28.32	28.32		77.0	72.2		5.18	4.86		9.94	9.89		13	
20/9/2010	11:08	Cloudy	Middle	1.0	28.50	28.30	28.38	7.12	7.10	7.10	31.00	30.90	31.10	67.8	65.8	65.2	4.50	4.37	4.34	2.11	2.07	2.12	11	10.00
	11:11		Middle	1.0	28.40	28.30		7.11	7.08		31.20	31.30		64.0	63.2		4.26	4.22		2.17	2.12		9	<u> </u>
22/9/2010	12:04	Cloudy	Middle	1.5	28.20	28.50	28.43	7.95	7.99	7.97	31.20	31.50	31.40	75.8	75.5	75.8	5.25	5.23	5.23	2.49	2.63	2.53	8	9.00
	12:07		Middle	1.5	28.30	28.70		7.98	7.96		31.60	31.30		76.2	75.6		5.28	5.15		2.47	2.52		10	<u> </u>
24/9/2010	13:59	Sunny	Middle	1.5	28.10	28.50	28.30	7.74	7.72	7.60	30.10	29.50	29.78	72.9	75.3	73.7	5.06	5.21	5.12	3.36	3.19	3.20	4	4.50
	14:02		Middle	1.5	28.40	28.20		7.73	7.21		29.80	29.70		74.2	72.5		5.15	5.05		3.22	3.04		5	<u> </u>
27/9/2010	14:33	Sunny	Middle	1.5	30.50	30.40	30.43	7.90	7.88	7.90	30.90	30.80	30.85	58.5	58.1	58.0	4.00	3.97	3.97	2.40	2.29	2.35	9	9.50
	14:36		Middle	1.5	30.30	30.50		7.89	7.91		30.70	31.00		57.8	57.6		3.95	3.94		2.36	2.33		10	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit	у	D	OO Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids g/L
			r	n	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Value	Average
30/8/2010	15:25	Cloudy	Middle	1.5	28.27	28.35	28.32	7.16	7.15	7.15	30.30	30.22	30.25	96.3	94.2	93.2	6.34	5.86	6.05	3.91	3.96	3.92	6	5.50
30/0/2010	15:28	Cloudy	Middle	1.5	28.34	28.30	20.52	7.15	7.12	7.10	30.21	30.27	50.25	96.3	86.0	55.2	6.34	5.66	0.00	3.87	3.92	5.52	5	3.30
2/9/2010	7:45	Cloudy	Middle	1.5	26.70	26.50	26.55	7.29	7.28	7.26	31.10	31.05	31.17	53.4	52.1	51.7	3.53	3.44	3.42	3.17	2.60	2.80	7	6.00
2/9/2010	7:48	Cloudy	Middle	1.5	26.90	26.10	20.55	7.23	7.22	7.20	31.23	31.31	31.17	51.0	50.2	51.7	3.37	3.32	3.42	2.81	2.61	2.00	5	0.00
4/9/2010	9:37	Rainy	Middle	1.5	27.40	27.40	27.45	7.52	7.53	7.53	28.42	28.43	28.43	63.8	63.0	62.4	4.42	4.36	4.32	1.94	2.05	1.93	4	5.00
4/9/2010	9:39	ivality	Middle	1.5	27.50	27.50	27.43	7.53	7.52	7.55	28.44	28.44	20.43	61.7	61.2	02.4	4.26	4.22	4.32	1.90	1.82	1.95	6	3.00
6/9/2010	11:00	Fine	Middle	1.5	26.80	26.90	26.98	7.31	7.30	7.33	31.21	31.08	31.07	70.2	74.4	71.7	4.64	4.70	4.69	3.19	2.97	3.02	8	9.00
0/9/2010	11:03	Tille	Middle	1.5	27.20	27.00	20.90	7.36	7.33	7.55	30.87	31.11	31.07	70.3	72.0	71.7	4.66	4.75	4.03	3.00	2.90	3.02	10	9.00
8/9/2010	13:05	Sunny	Middle	2.0	26.70	26.50	26.48	7.32	7.37	7.33	32.70	32.10	32.30	67.5	68.7	68.2	4.52	4.59	4.56	6.42	5.75	5.96	11	15.00
0/3/2010	13:08	Curiny	Middle	2.0	26.40	26.30	20.40	7.30	7.32	7.55	32.00	32.40	02.00	67.6	69.1	00.2	4.53	4.60	4.50	5.89	5.76	5.50	19	13.00
10/9/2010	13:30	Cloudy	Middle	1.5	24.90	25.30	25.28	7.95	7.98	7.95	31.90	32.30	32.18	67.0	66.1	65.9	4.55	4.48	4.47	4.53	4.50	4.46	9	9.00
10/9/2010	13:33	Cloudy	Middle	1.5	25.60	25.30	23.20	7.94	7.92	7.95	32.40	32.10	32.10	65.4	65.2	03.9	4.43	4.42	4.47	4.71	4.11	4.40	9	9.00
13/9/2010	3:33	Cloudy	Middle	1.5	26.08	26.26	26.31	7.06	7.06	7.06	28.89	28.89	28.90	74.2	73.3	73.6	5.08	5.01	5.04	1.57	1.52	1.59	6	7.00
10/3/2010	3:40	Cloudy	Middle	1.5	26.44	26.46	20.51	7.06	7.06	7.00	28.90	28.91	20.50	73.3	73.5	70.0	5.04	5.03	5.04	1.69	1.58	1.00	8	7.00
16/9/2010	7:55	Sunny	Middle	1.5	26.20	26.20	26.13	7.90	7.88	7.90	31.60	31.50	31.53	77.4	77.7	76.0	5.22	5.24	5.12	4.28	4.31	4.18	10	11.50
10/3/2010	7:58	Curry	Middle	1.5	26.10	26.00	20.10	7.91	7.92	7.50	31.40	31.60	01.00	75.4	73.5	70.0	5.05	4.97	5.12	4.08	4.05	4.10	13	11.00
18/9/2010	11:35	Sunnv	Middle	1.5	28.90	28.90	29.15	8.16	8.16	8.18	28.26	28.26	28.31	80.4	77.8	79.5	5.41	5.23	5.37	6.00	5.91	5.99	14	14.00
10/3/2010	11:38	Curry	Middle	1.5	29.40	29.40	23.13	8.19	8.19	0.10	28.35	28.35	20.51	81.0	78.8	70.0	5.48	5.34	0.07	6.13	5.91	0.00	14	14.00
20/9/2010	10:35	Cloudy	Middle	1.5	28.30	28.10	28.28	6.69	6.68	6.65	32.30	31.80	31.75	66.1	66.2	66.7	4.40	4.40	4.44	3.19	3.00	3.06	10	10.50
20/3/2010	10:38	Oloddy	Middle	1.5	28.20	28.50	20.20	6.59	6.63	0.00	31.50	31.40	01.70	67.1	67.3	00.7	4.46	4.48	7.77	3.01	3.03	3.00	11	10.50
22/9/2010	12:52	Cloudy	Middle	1.5	28.30	28.50	28.45	7.92	7.90	7.93	31.70	31.80	31.65	67.8	66.9	66.4	4.68	4.63	4.59	2.60	2.69	2.59	7	7.00
22/3/2010	12:55	Cloudy	Middle	1.5	28.40	28.60	20.40	7.95	7.93	7.55	31.50	31.60	01.00	66.5	64.3	00.4	4.60	4.43	4.00	2.58	2.50	2.00	7	7.00
24/9/2010	14:45	Sunny	Middle	2.0	28.20	28.90	28.58	7.72	7.73	7.73	30.20	30.10	30.25	66.3	65.5	65.1	4.52	4.47	4.44	3.64	3.38	3.40	5	6.00
2 17 07 20 10	14:48	Carrily	Middle	2.0	28.50	28.70	20.00	7.72	7.74	7.70	30.50	30.20	00.20	64.5	63.9	00.1	4.41	4.37	-17	3.11	3.45	0.40	7	0.00
27/9/2010	14:55	Sunny	Middle	2.0	30.40	30.70	30.55	7.95	7.96	7.94	31.00	31.20	31.25	59.6	59.2	58.9	4.05	4.03	4.02	3.15	3.24	3.25	7	8.00
2170/2010	14:58	Outility	Middle	2.0	30.50	30.60	50.55	7.94	7.92	7.54	31.30	31.50	01.20	58.4	58.3	50.5	4.00	3.98	7.02	3.32	3.27	0.20	9	0.00



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Ooridition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
00/0/0040	15:32	0	Middle	1.5	27.80	27.83	07.00	7.00	7.02	7.04	30.26	30.25	00.00	77.9	77.6		5.17	5.15	5.40	3.03	3.41	0.04	5	
30/8/2010	15:35	Cloudy	Middle	1.5	27.81	27.76	27.80	7.00	7.01	7.01	30.29	30.31	30.28	73.8	79.8	77.3	4.90	5.29	5.13	3.21	3.31	3.24	5	5.00
2/9/2010	7:51	Cloudy	Middle	1.5	26.20	27.20	26.98	7.77	7.42	7.49	31.37	30.98	31.17	48.4	47.6	49.3	3.30	3.36	3.37	3.30	2.70	2.84	6	5.00
2/3/2010	7:54	Cloudy	Middle	1.5	26.90	27.60	20.90	7.37	7.38	7.43	31.42	30.91	31.17	49.9	51.2	49.5	3.41	3.42	3.37	2.73	2.64	2.04	4	3.00
4/9/2010	9:43	Rainy	Middle	1.5	27.60	27.60	27.55	7.54	7.55	7.55	28.47	28.46	28.46	65.2	61.6	61.7	4.55	4.29	4.30	2.73	2.83	2.92	6	5.50
1,5,2515	9:45		Middle	1.5	27.50	27.50	27.00	7.55	7.55	7.00	28.46	28.46	20.10	60.4	59.5	· · · ·	4.20	4.14		3.40	2.71	2.02	5	0.00
6/9/2010	11:06	Fine	Middle	1.5	24.90	25.00	25.08	7.13	7.10	7.12	31.00	30.76	30.78	73.8	70.5	73.7	5.12	5.04	5.10	3.93	3.72	3.81	8	7.00
	11:09		Middle	1.5	25.30	25.10		7.09	7.15		30.55	30.81		76.1	74.5		5.23	5.01		3.66	3.92		6	
8/9/2010	13:12	Sunny	Middle	2.0	25.90	26.40	26.33	7.88	7.89	7.87	32.50	32.10	32.20	82.6	82.1	80.9	5.52	5.48	5.40	11.60	11.40	<u>11.20</u>	25	18.00
	13:15	•	Middle	2.0	26.70	26.30		7.85	7.86	1	31.90	32.30		80.4	78.3		5.36	5.24		10.80	11.00		11	
10/9/2010	13:37	Cloudy	Middle	1.5	25.70	25.30	25.68	7.89	7.93	7.92	32.00	32.40	32.30	62.5	60.1	60.2	4.22	4.10	4.09	5.08	5.02	4.95	11	11.50
	13:40	,	Middle	1.5	25.80	25.90		7.95	7.92		32.50	32.30		59.4	58.8		4.03	4.00		4.98	4.70		12	
13/9/2010	3:42	Cloudy	Middle	1.5	26.56	26.57	26.56	7.08	7.08	7.08	28.91	28.91	28.91	74.1	74.0	73.4	5.06	5.05	5.00	1.49	1.49	1.46	4	4.50
	3:49		Middle	1.5	26.56	26.56		7.08	7.08		28.91	28.91		72.9	72.4		4.96	4.94		1.45	1.41		5	
16/9/2010	8:02	Sunny	Middle	1.5	25.50	25.80	25.60	7.89	7.88	7.89	31.80	31.50	31.70	73.7	70.9	69.8	4.94	4.75	4.69	5.39	5.37	5.40	21	20.00
	8:05		Middle	1.5	25.60	25.50		7.87	7.90		31.70	31.80		68.0	66.4		4.61	4.45		5.42	5.41		19	
18/9/2010	11:42	Sunny	Middle	1.5	29.20	29.20	29.35	8.20	8.20	8.21	28.32	28.32	28.32	77.9	74.9	75.2	5.30	5.10	5.12	5.75	5.43	5.53	12	12.00
	11:45		Middle	1.5	29.50	29.50		8.21	8.21		28.32	28.32		75.2	72.8		5.12	4.96		5.44	5.49		12	
20/9/2010	10:43	Cloudy	Middle	1.5	28.40	28.30	28.35	6.54	6.53	6.54	31.70	31.50	31.63	65.9	63.6	63.6	4.39	4.28	4.25	5.21	4.80	4.96	16	14.50
	10:46		Middle	1.5	28.50	28.20		6.52	6.57		31.40	31.90		62.8	61.9		4.19	4.13		5.26	4.55		13	
22/9/2010	12:57	Cloudy	Middle	1.5	28.30	28.40	28.45	7.88	7.87	7.89	31.60	31.90	31.75	65.8	66.0	65.2	4.56	4.57	4.51	2.57	2.39	2.40	9	10.00
	13:00		Middle	1.5	28.60	28.50		7.89	7.90		31.80	31.70		65.4	63.4		4.52	4.39		2.29	2.33		11	
24/9/2010	15:02	Sunny	Middle	2.0	28.10	28.50	28.33	7.72	7.71	7.73	29.70	30.00	30.00	64.4	66.0	66.0	4.47	4.51	4.53	3.68	3.12	3.24	7	6.00
	15:05		Middle	2.0	28.30	28.40		7.73	7.74		30.10	30.20		66.2	67.5		4.60	4.52		3.24	2.90		5	<u> </u>
27/9/2010	15:03	Sunny	Middle	2.0	30.60	30.80	30.85	7.94	7.92	7.93	31.40	31.50	31.30	56.9	55.3	55.3	3.88	3.77	3.77	2.47	2.59	2.55	9	8.00
	15:06		Middle	2.0	31.10	30.90		7.93	7.93		31.20	31.10		54.8	54.3		3.74	3.69		2.56	2.57		7	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
/- / /-	15:15	<u>.</u>	Middle	2.5	28.20	28.10		7.26	7.21		30.46	30.41		98.6	94.4		6.47	6.20		4.88	4.44		9	
30/8/2010	15:18	Cloudy	Middle	2.5	28.30	28.00	28.15	7.25	7.18	7.23	30.11	30.23	30.30	93.3	96.8	95.8	6.13	6.36	6.29	4.47	4.54	4.58	7	8.00
2/9/2010	6:48	Cloudy	Middle	2.0	27.40	27.50	27.23	7.65	7.58	7.58	30.99	31.42	31.16	56.5	54.4	54.0	3.75	3.66	3.67	2.86	2.78	2.91	6	9.00
2/3/2010	6:51	Oloudy	Middle	2.0	26.90	27.10	21.20	7.56	7.54	7.50	31.07	31.15	31.10	52.9	52.2	54.0	3.65	3.61	3.01	2.92	3.09	2.51	12	3.00
4/9/2010	9:06	Rainy	Middle	2.0	27.40	27.40	27.40	7.51	7.51	7.52	28.39	28.38	28.39	57.1	55.3	54.9	3.96	3.87	3.81	2.92	2.63	2.84	6	6.50
	9:08		Middle	2.0	27.40	27.40		7.52	7.52		28.39	28.39		54.7	52.3		3.75	3.65		2.71	3.09		7	
6/9/2010	10:45	Fine	Middle	2.0	26.50	26.20	26.30	7.51	7.62	7.58	30.23	30.31	30.38	83.6	82.6	82.6	5.53	5.33	5.44	2.68	2.53	2.51	8	7.50
	10:48		Middle	2.0	26.00	26.50		7.58	7.61		30.55	30.43		81.1	83.1		5.55	5.36		2.53	2.28		7	
8/9/2010	12:45	Sunny	Middle	2.0	26.60	26.70	26.63	7.85	7.84	7.84	31.10	31.00	31.08	57.4	56.0	56.9	3.85	3.77	3.66	4.77	4.52	4.56	8	7.50
	12:48		Middle	2.0	26.80	26.40		7.82	7.83		30.90	31.30		57.3	56.8		3.19	3.81		4.57	4.39		7	
10/9/2010	13:18	Cloudy	Middle	2.0	25.70	25.80	19.83	8.00	7.95	7.97	32.10	32.00	32.25	52.5	51.9	51.6	4.59	3.53	3.77	3.87	3.98	3.82	13	11.00
	13:21		Middle	2.0	25.30	2.51		7.98	7.94		32.50	32.40		50.6	51.5		3.43	3.51		3.77	3.65		9	
13/9/2010	3:22	Cloudy	Middle	2.0	26.30	26.36	26.27	6.91	6.90	6.90	28.44	28.44	28.52	71.2	72.1	70.6	4.89	4.96	4.83	1.21	1.49	1.18	4	4.50
	3:27		Middle	2.0	26.23	26.19		6.90	6.90		28.59	28.59		70.1	69.0		4.72	4.75		0.97	1.03		5	
16/9/2010	7:42	Sunny	Middle	2.0	25.90	26.10	26.05	7.92	7.90	7.92	31.40	31.20	31.38	76.6	74.5	74.9	5.17	5.03	5.06	2.71	2.73	2.70	8	8.50
	7:45		Middle	2.0	26.00	26.20		7.91	7.95		31.50	31.40		74.4	74.2		5.02	5.01		2.66	2.71		9	
18/9/2010	11:20	Sunny	Middle	1.5	29.80	29.60	29.65	8.18	8.16	8.17	28.20	28.23	28.24	76.1	77.7	74.7	5.63	5.82	5.55	9.64	9.50	9.43	30*	13.00
	11:23		Middle	1.5	29.50	29.70		8.17	8.17		28.24	28.29		71.3	73.5		5.29	5.45		9.24	9.32		13	
20/9/2010	10:25	Cloudy	Middle Middle	2.0	28.70	28.50	28.55	6.83	6.82	6.83	31.80	32.00	31.88	67.5	65.8	65.2	4.53	4.42	4.38	2.25	2.22	2.20	6	6.00
	10:28		Middle	2.0	28.40	28.60		6.80 8.11	6.85 8.12		31.90	31.80		70.3	62.8 70.1		4.34 4.85	4.24		1.97	1.84		5	
22/9/2010	12:37	Cloudy	Middle	1.5	28.50	28.40	28.43	8.15	8.16	8.14	31.70	31.50	31.48	70.3	70.1	70.4	4.83	4.83	4.86	1.97	1.87	1.89	4	4.50
	14:40		Middle	2.0	28.50	28.70		7.71	7.72		30.20	30.50		68.1	66.7		4.69	4.59		3.50	3.85		8	
24/9/2010	14:43	Sunny	Middle	2.0	29.00	28.80	28.75	7.73	7.74	7.73	30.40	30.20	30.33	65.6	64.5	66.2	4.52	4.45	4.56	3.55	3.56	3.62	6	7.00
	14:45		Middle	2.0	31.00	30.90		7.75	7.74		31.30	31.40		79.5	78.9		5.44	5.39		3.63	3.65		10	<u> </u>
27/9/2010	14:48	Sunny	Middle	2.0	30.80	31.10	30.95	7.96	7.98	7.96	31.20	31.50	31.35	78.4	79.2	79.0	5.36	5.42	5.40	3.79	3.57	3.66	11	10.50
	10				00.00	00		1	1		J 20	200		. 5. 1	1 . 5.2		0.00	J. 12		0.70	5.57			



Water Monitoring Result at WSD20 - Sheung Wan Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit	У	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
00/0/0040	15:37	Observation	Middle	2.5	28.34	28.34	00.05	6.89	6.89	0.00	30.58	30.58	00.50	76.4	78.3	77.4	5.01	5.13	5.05	7.10	7.05	0.00	9	0.50
30/8/2010	15:39	Cloudy	Middle	2.5	28.36	28.36	28.35	6.89	6.89	6.89	30.58	30.58	30.58	76.7	77.1	77.1	5.02	5.05	5.05	6.82	6.97	6.99	10	9.50
2/9/2010	8:13	Cloudy	Middle	1.5	28.06	28.06	28.11	7.02	7.02	7.02	30.65	30.65	30.66	68.9	71.4	70.4	4.54	4.69	4.63	2.51	2.37	2.35	10	10.50
2/3/2010	8:16	Cloudy	Middle	1.5	28.15	28.15	20.11	7.01	7.01	7.02	30.66	30.67	30.00	71.3	70.0	70.4	4.68	4.61	4.03	2.29	2.24	2.55	11	10.50
4/9/2010	10:24	Rainy	Middle	1.5	27.50	27.50	27.52	7.08	7.07	7.07	30.69	30.70	30.70	62.5	61.9	62.7	4.20	4.17	4.22	5.81	5.88	5.86	7	6.50
1,5,2515	10:27		Middle	1.5	27.54	27.55	27.102	7.07	7.07		30.71	30.71	30.73	63.6	62.9	02	4.27	4.23		5.74	6.02	0.00	6	0.00
6/9/2010	11:48	Fine	Middle	2.5	28.54	28.54	28.55	6.91	6.91	6.91	29.47	29.47	29.47	65.1	63.7	64.9	4.28	4.19	4.42	6.59	6.77	6.46	11	11.50
	11:50	-	Middle	2.5	28.55	28.55		6.91	6.91		29.47	29.47	-	61.2	69.7		4.63	4.58		6.28	6.19		12	
8/9/2010	12:15	Sunny	Middle	2.5	29.00	29.00	29.00	7.79	7.79	7.79	28.93	28.93	28.93	44.4	43.8	43.7	2.87	2.85	2.84	8.42	8.42	8.45	9	9.50
	12:20	,	Middle	2.5	29.00	29.00		7.79	7.79		28.93	28.93		43.3	43.2		2.82	2.82		8.17	8.77		10	
10/9/2010	13:50	Cloudy	Middle	1.5	28.20	28.20	28.40	7.95	7.95	7.96	30.02	30.02	30.02	52.5	51.9	51.6	3.79	3.73	3.74	3.97	3.85	3.65	8	9.00
	13:54	ŕ	Middle	1.5	28.60	28.60		7.96	7.96		30.01	30.01		50.6	51.5		3.73	3.71		3.25	3.54		10	
13/9/2010	4:24	Cloudy	Middle	1.5	26.64	26.64	26.59	7.05	7.05	7.03	28.51	28.51	28.42	82.0	84.9	81.7	5.61	5.60	5.50	3.09	2.99	2.77	5	4.50
	4:30		Middle	1.5	26.54	26.54		7.00	7.00		28.33	28.33		80.7	79.2		5.35	5.43		2.43	2.55		4	
16/9/2010	7:57	Sunny	Middle	1.5	28.00	28.00	28.05	8.04	8.04	8.05	28.61	28.61	28.53	76.4	74.5	74.9	5.11	4.98	5.01	4.06	4.11	4.07	8	8.50
	7:59		Middle	1.5	28.10	28.10		8.05	8.05		28.45	28.45		74.7	73.9		5.00	4.93		3.89	4.20		9	
18/9/2010	11:35	Sunny	Middle	1.5	30.20	30.20	30.30	8.16	8.16	8.16	28.36	28.36	28.37	82.3	81.8	81.3	5.30	5.26	5.23	3.41	3.45	3.39	6	6.00
	11:38		Middle	1.5	30.40	30.40		8.15	8.15		28.37	28.37		82.2	79.0		5.28	5.07		3.50	3.20		6	<u> </u>
20/9/2010	12:20	Cloudy	Middle	1.5	27.90	27.90	28.05	8.15	8.15	8.15	28.36	28.36	28.37	70.7	68.9	68.6	4.73	4.60	4.58	3.32	3.28	3.24	4	4.50
	12:23		Middle	1.5	28.20	28.20		8.15	8.15		28.37	28.37		68.9	66.0		4.60	4.40		3.11	3.23		5	
22/9/2010	11:52	Cloudy	Middle	2.0	26.30	26.30	26.35	7.90	7.90	7.91	28.43	28.43	28.44	59.9	58.7	59.2	4.11	4.03	4.06	3.12	3.18	3.11	5	6.00
	11:55		Middle	2.0	26.40	26.40		7.91	7.91		28.44	28.44		59.7	58.5		4.10	4.01		3.20	2.94		7	
24/9/2010	11:01	Sunny	Middle	2.0	27.10	27.10	27.15	7.91	7.91	7.91	29.81	29.81	29.82	58.3	57.4	57.4	3.90	3.85	3.85	3.15	3.64	3.35	4	4.00
	11:04		Middle	2.0	27.20	27.20		7.91	7.91		29.82	29.82		57.8	55.9		3.88	3.75		3.22	3.37		4	
27/9/2010	13:45	Sunny	Middle	1.5	28.40	28.40	28.45	7.92	7.92	7.92	30.07	30.07	30.06	74.3	73.0	74.4	4.88	4.79	4.89	4.41	4.72	4.53	8	7.50
	13:48		Middle	1.5	28.50	28.50		7.92	7.92		30.05	30.05		75.3	75.0		4.94	4.93		4.54	4.46		7	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
00/0/0040	15:20	0	Middle	1.5	28.50	28.50	00.50	7.03	7.03		30.92	30.92	22.22	74.3	76.8		4.87	5.05		7.86	7.21	7.40	9	0.50
30/8/2010	15:25	Cloudy	Middle	1.5	28.50	28.50	28.50	7.03	7.03	7.03	30.91	30.91	30.92	75.8	82.3	77.3	4.98	5.41	5.08	7.31	7.44	7.46	10	9.50
2/9/2010	8:45	Cloudy	Middle	1.5	27.84	27.84	27.85	7.16	7.16	7.15	30.42	30.42	30.42	76.9	76.1	75.9	5.09	5.03	5.01	2.17	2.22	2.36	6	7.00
2/9/2010	8:48	Cloudy	Middle	1.5	27.86	27.87	27.00	7.14	7.15	7.15	30.42	30.42	30.42	75.7	74.8	75.9	5.00	4.92	5.01	2.54	2.50	2.30	8	7.00
4/9/2010	11:22	Rainy	Middle	1.5	27.07	27.07	27.08	7.30	7.30	7.28	30.27	30.27	30.26	88.8	87.1	87.2	5.96	5.85	5.86	3.34	3.72	3.36	10	10.00
17672010	11:25		Middle	1.5	27.09	27.10	27.00	7.26	7.26	7.20	30.25	30.26	00.20	87.7	85.3	07.12	5.89	5.72	0.00	2.92	3.44	0.00	10	10.00
6/9/2010	12:30	Fine	Middle	1.5	29.33	29.33	29.25	6.90	6.90	6.89	29.33	29.33	29.33	55.0	51.2	55.6	3.64	3.39	3.68	11.90	11.40	11.80	25	23.50
	12:32		Middle	1.5	29.33	28.99		6.87	6.87		29.33	29.33		58.9	57.2		3.90	3.78		10.80	13.10		22	
8/9/2010	13:04	Sunny	Middle	1.5	28.90	28.90	29.10	7.85	7.85	7.87	28.00	28.00	27.96	51.0	50.0	51.2	3.36	3.29	3.37	4.57	4.17	4.41	7	5.50
	13:07		Middle	1.5	29.30	29.30		7.88	7.88		27.92	27.92		52.9	50.9		3.48	3.33		4.66	4.24		4	
10/9/2010	14:19	Cloudy	Middle	1.5	28.20	28.20	28.30	7.84	7.84	7.84	30.00	30.00	29.97	72.7	72.0	72.2	4.85	4.85	4.85	4.01	3.82	3.81	5	6.50
	14:22		Middle	1.5	28.40	28.40		7.83	7.83		29.94	29.94		72.0	72.0		4.84	4.84		3.66	3.74		8	
13/9/2010	4:10	Cloudy	Middle	1.5	26.47	26.47	26.47	7.10	7.10	7.10	28.20	28.20	28.20	76.6	78.0	77.1	5.26	5.35	5.29	1.57	1.59	1.52	3	4.00
	4:14		Middle	1.5	26.46	26.46		7.10	7.10		28.20	28.20		77.2	76.5		5.30	5.25		1.45	1.47		5	<u> </u>
16/9/2010	8:15	Sunny	Middle	1.5	28.30	28.30	28.35	8.17	8.17	8.17	27.70	27.70	27.70	83.6	83.0	84.2	5.57	5.53	5.61	2.82	2.88	2.76	9	9.50
	8:18		Middle	1.5	28.40	28.40		8.16	8.16		27.70	27.70		86.6	83.7		5.77	5.58		2.74	2.61		10	
18/9/2010	12:01	Sunny	Middle	1.5	29.30	29.30	29.50	8.30	8.30	8.29	28.07	28.07	28.04	75.4	74.8	73.4	4.91	4.87	4.78	3.44	3.69	3.56	8	8.00
	12:04		Middle	1.5	29.70	29.70		8.28	8.28		28.01	28.01		72.7	70.5		4.74	4.60		3.51	3.58		8	
20/9/2010	12:42	Cloudy	Middle	1.5	27.70	27.70	27.75	8.18	8.18	8.18	27.98	27.98	27.99	76.7	74.4	75.3	5.16	5.00	5.06	3.23	2.39	2.70	4	4.50
	12:45		Middle	1.5	27.80	27.80		8.18	8.18		27.99	28.00		75.5	74.5		5.07	5.01		2.37	2.80		5	
22/9/2010	11:30	Cloudy	Middle	1.5	26.30	26.30	26.35	7.98	7.98	7.99	28.41	28.41	28.35	64.5	62.5	63.1	4.43	4.29	4.33	2.77	2.89	2.61	6	6.00
	11:33		Middle	1.5	26.40	26.40		7.99	7.99		28.29	28.29		63.4	61.9		4.36	4.25		2.30	2.47		6	
24/9/2010	10:25	Sunny	Middle Middle	1.5	26.20	26.20	26.45	7.99	7.99	7.98	29.98	29.98	29.44	56.9	56.1	56.5	3.86	3.81	3.82	6.43	6.23	6.07	5	4.50
	10:28			1.5	26.70	26.70		7.97	7.97		28.89	28.89		57.1	55.9		3.87	3.72		5.90	5.73		4	<u> </u>
27/9/2010	14:09	Sunny	Middle	1.5	27.10	27.10	27.35	7.95	7.95	7.96	29.70	29.70	29.62	73.1	72.1	72.4	4.90	4.82	4.85	4.04	4.06	3.89	7	11.50
	14:12		Middle	1.5	27.60	27.60		7.96	7.96		29.54	29.54		72.9	71.5		4.88	4.78		3.66	3.81		16	

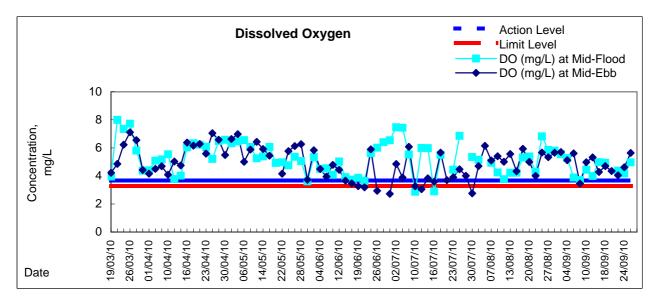


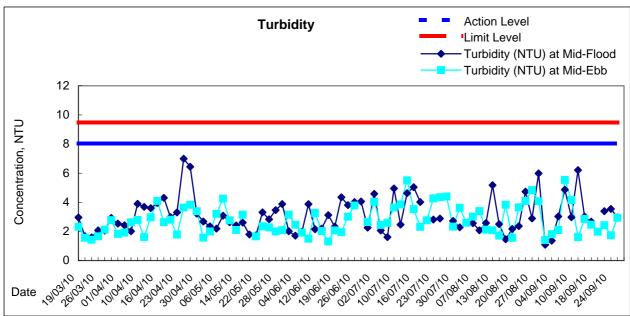
Water Monitoring Result at WSD7 - Kowllon South Mid-Ebb Tide

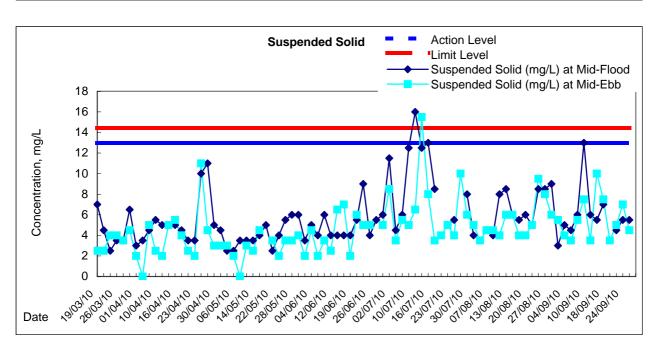
Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp °C	erature		pH -			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
20/0/2040	16:00	Clavidi	Middle	1.5	28.01	28.01	20.07	7.01	7.01	7.04	30.41	30.41	20.40	79.1	77.8	70.0	5.22	5.13	F 00	4.38	5.66	4.00	11	40.00
30/8/2010	16:05	Cloudy	Middle	1.5	28.13	28.13	28.07	7.00	7.00	7.01	30.39	30.39	30.40	79.6	79.0	78.9	5.25	5.21	5.20	4.82	4.70	4.89	9	10.00
2/9/2010	9:18	Cloudy	Middle	1.5	27.87	27.87	27.89	6.86	6.86	6.86	30.66	30.66	30.66	78.6	77.2	76.9	5.20	5.10	5.09	3.07	3.44	3.31	13	12.50
2/9/2010	9:23	Cloudy	Middle	1.5	27.90	27.90	27.09	6.85	6.85	0.00	30.66	30.66	30.00	75.7	76.1	70.9	5.01	5.03	3.09	3.52	3.22	3.31	12	12.50
4/9/2010	10:52	Rainy	Middle	1.5	27.23	27.23	27.24	6.97	6.97	6.96	30.43	30.43	30.47	56.5	56.1	57.6	3.78	3.76	3.85	6.22	5.94	6.03	14	13.00
17.072010	10:55	rtuiry	Middle	1.5	27.25	27.25	27.27	6.95	6.95	0.00	30.51	30.51	00.17	57.8	60.0	07.0	3.86	4.01	0.00	6.06	5.88	0.00	12	10.00
6/9/2010	9:40	Fine	Middle	1.5	30.27	30.27	30.27	7.27	7.27	7.27	31.20	31.20	31.20	93.2	93.1	93.2	5.94	5.90	5.90	3.44	3.28	3.44	5	5.00
5/5/2515	9:43		Middle	1.5	30.27	30.27		7.27	7.27	7.2.	31.20	31.20	01.20	93.5	93.0	00.2	5.93	5.84	0.00	3.71	3.31	0	5	0.00
8/9/2010	13:30	Sunny	Middle	1.5	28.60	28.60	28.90	7.76	7.76	7.77	29.20	29.20	29.22	50.0	50.6	44.2	3.29	3.31	3.33	5.94	4.42	4.93	6	6.00
	13:33	,	Middle	1.5	29.20	29.20		7.77	7.77		29.24	29.24	-	50.5	25.5		3.30	3.43		4.63	4.71		6	
10/9/2010	15:50	Cloudy	Middle	1.5	27.90	27.90	27.90	7.94	7.94	7.93	30.22	30.22	30.21	78.3	78.3	78.2	5.20	5.20	5.19	3.71	3.64	3.83	9	7.50
	15:55		Middle	1.5	27.90	27.90		7.92	7.92		30.20	30.20		78.0	78.0	_	5.18	5.18		4.03	3.94		6	
13/9/2010	2:04	Cloudy	Middle	2.5	26.33	26.31	26.27	7.02	7.02	7.02	29.37	29.38	29.42	77.6	75.8	76.1	5.31	5.19	5.21	1.68	1.63	1.59	3	4.00
	2:10	ŕ	Middle	2.5	26.21	26.21		7.02	7.02		29.47	29.47		76.0	75.1		5.20	5.14		1.48	1.56		5	<u> </u>
16/9/2010	8:48	Sunny	Middle	1.5	28.20	28.20	28.35	8.16	8.16	8.16	28.02	28.02	28.02	75.6	74.2	75.0	5.03	4.93	4.98	6.74	6.69	6.74	12	13.50
	8:51		Middle	1.5	28.50	28.50		8.16	8.16		28.01	28.01		76.1	74.0		5.05	4.91		6.81	6.70		15	<u> </u>
18/9/2010	7:43	Sunny	Middle	1.5	28.50	28.50	28.60	8.12	8.12	8.12	28.07	28.07	28.11	78.9	76.9	77.0	5.19	5.06	5.06	2.46	2.23	2.34	5	5.50
	7:46		Middle	1.5	28.70	28.70		8.11	8.11		28.14	28.14		77.2	74.8		5.07	4.91		2.26	2.40	<u> </u> 	6	<u> </u>
20/9/2010	9:30	Cloudy	Middle	1.0	28.60	28.60	28.80	7.94	7.94	7.95	28.33	28.39	28.32	73.6	72.5	72.1	4.86	4.77	4.75	2.34	3.01	2.45	5	5.50
	9:33		Middle	1.0	29.00	29.00		7.96	7.96		28.27	28.27		71.9	70.5		4.71	4.64		2.23	2.20		6	<u> </u>
22/9/2010	8:50	Cloudy	Middle	1.5	25.90	25.90	25.95	7.86	7.86	7.87	29.10	29.10	29.09	56.0	54.4	55.6	3.86	3.75	3.83	3.15	2.67	2.80	7	6.00
	8:54		Middle	1.5	26.00	26.00		7.88	7.88		29.08	29.08		56.8	55.3		3.91	3.81		2.77	2.62	<u> </u>	5	<u> </u>
24/9/2010	10:00	Sunny	Middle	1.5	26.40	26.40	26.65	7.83	7.83	7.85	30.10	30.10	30.06	49.1	48.4	48.5	3.32	3.27	3.28	4.45	4.67	4.47	6	7.00
	10:03		Middle	1.5	26.90	26.90		7.87	7.87		30.02	30.02		48.9	47.7		3.30	3.22		4.21	4.54		8	<u> </u>
27/9/2010	14:35	Sunny	Middle	1.5	27.90	27.90	28.40	7.86	7.86	7.87	30.55	30.55	30.46	66.3	65.7	66.1	4.33	4.28	4.31	4.50	4.31	4.45	7	6.00
	14:38		Middle	1.5	28.90	28.90		7.87	7.87		30.36	30.36		66.9	65.5		4.36	4.27		4.64	4.36		5	



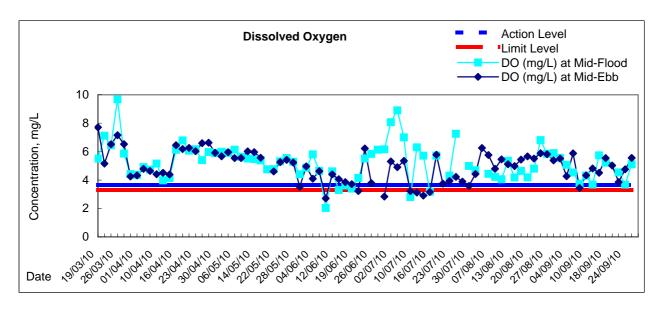
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

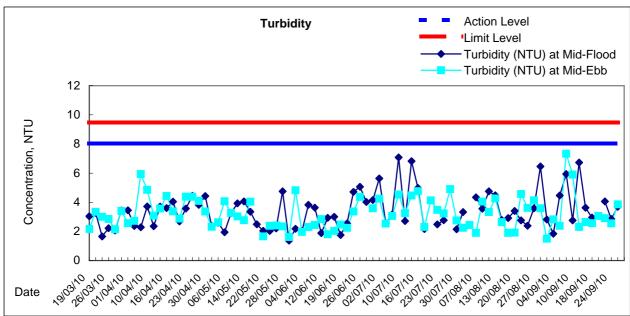


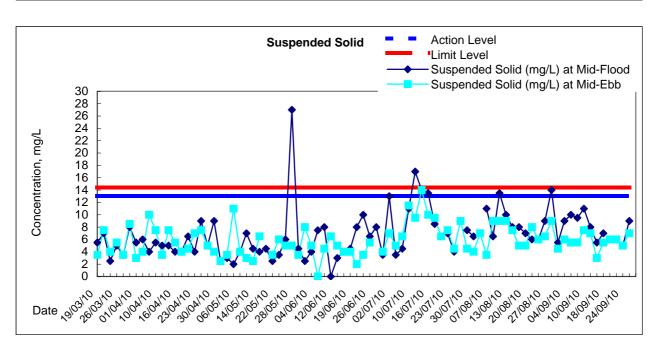




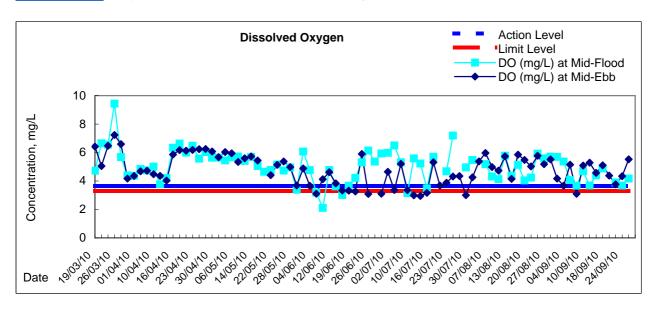
Graphic Presentation of Water Quality Result of WSD10 - Cha Kwo Ling

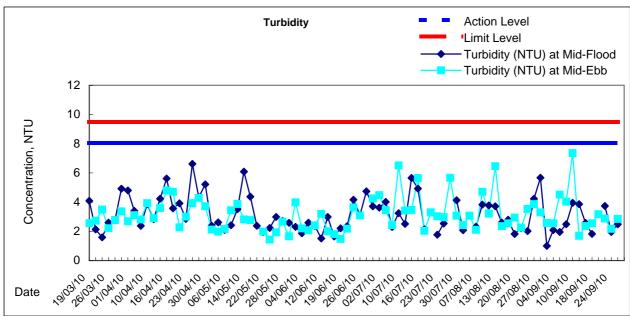


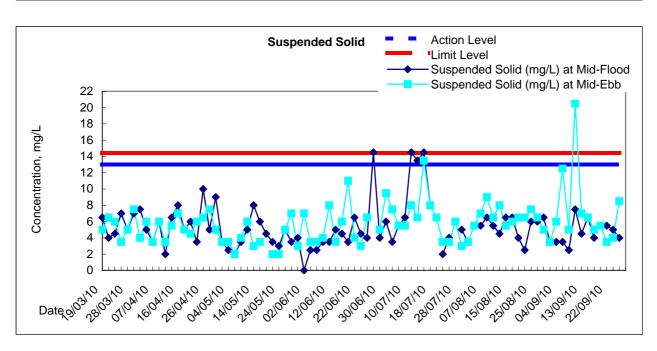




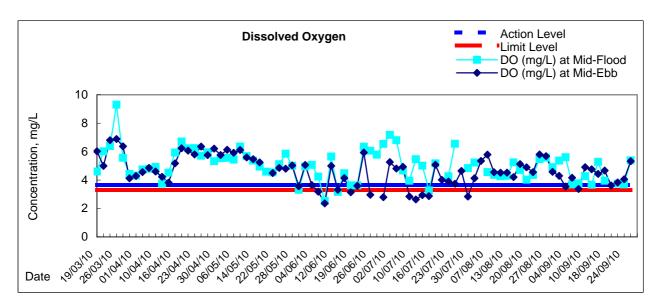
Graphic Presentation of Water Quality Result of WSD15 - Sai Wan Ho

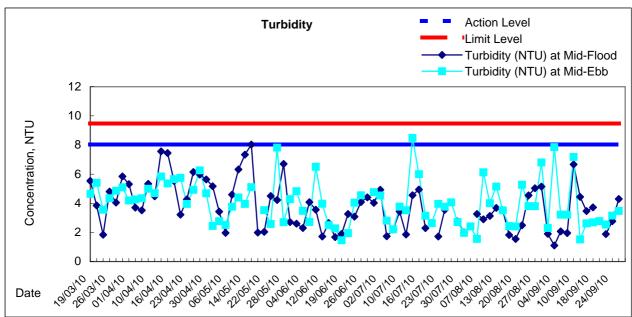


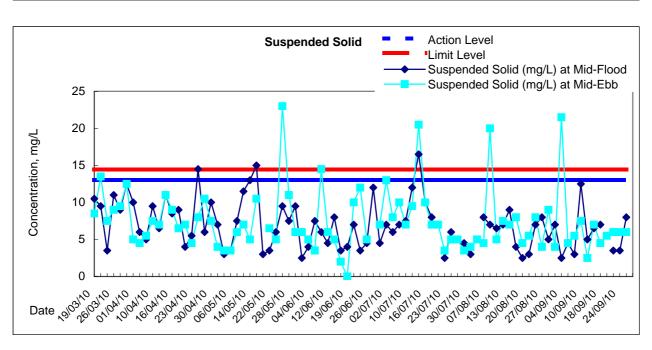




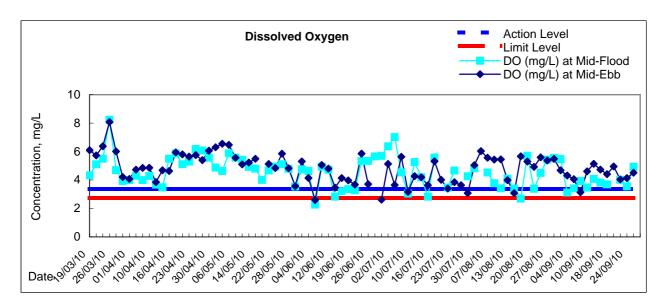
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

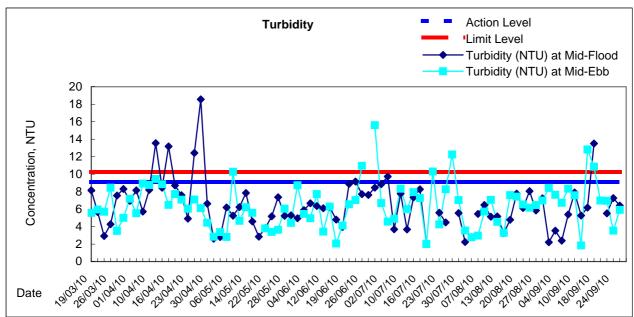


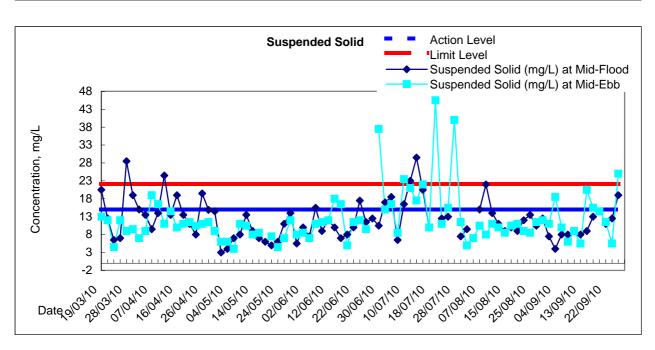




Graphic Presentation of Water Quality Result of C8 - City Garden

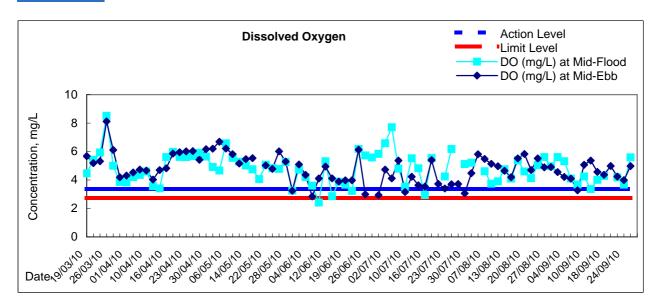


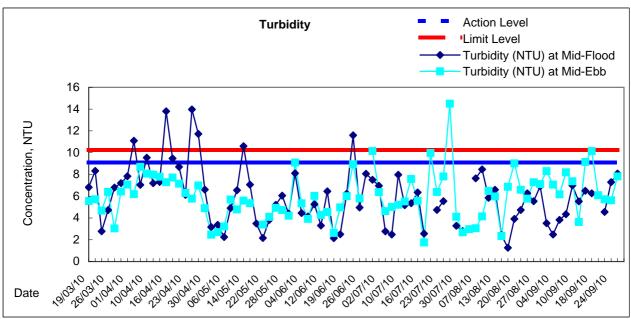


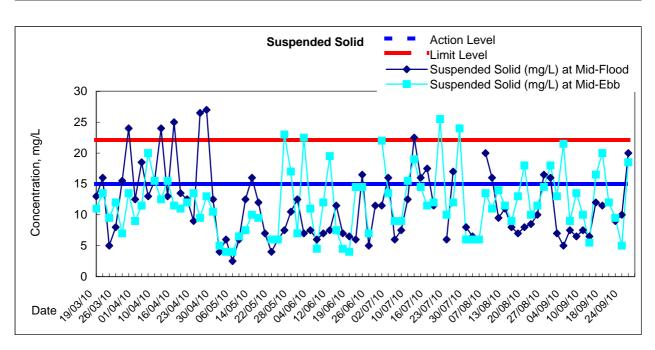




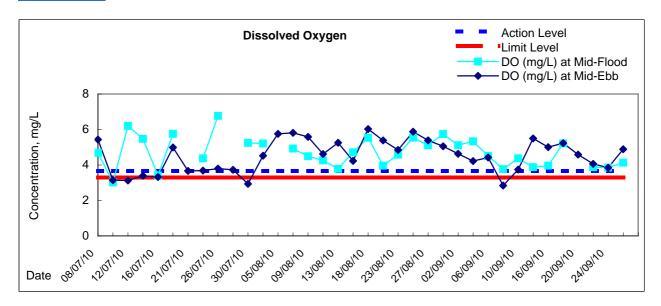
Graphic Presentation of Water Quality Result of C9 - Provident Centre

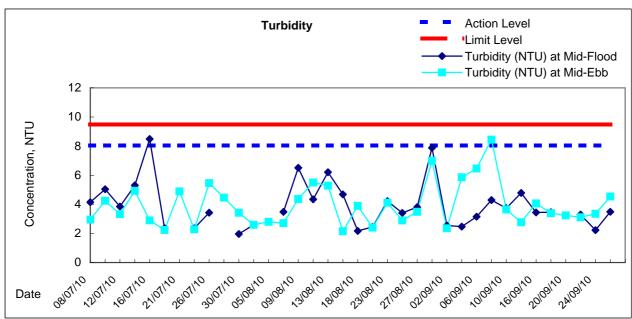


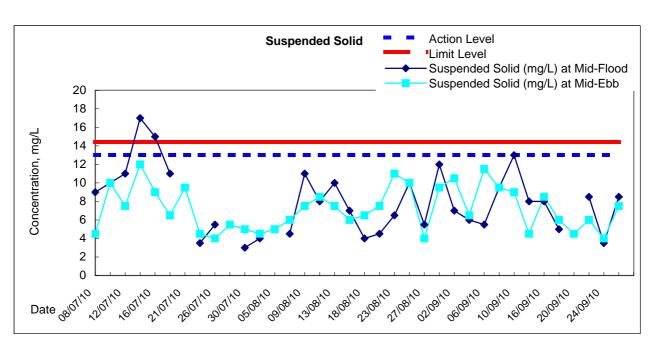




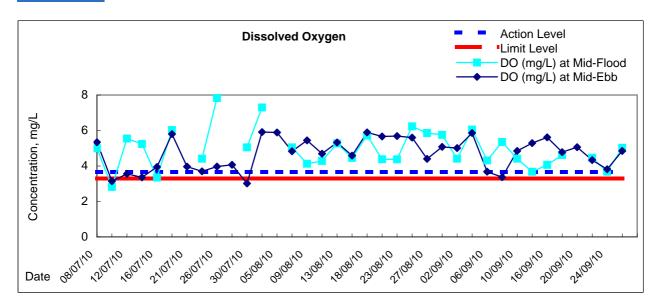
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

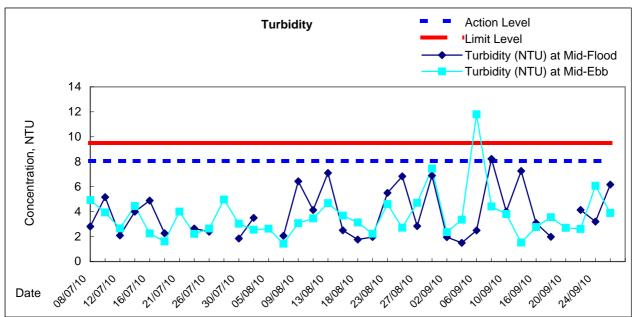


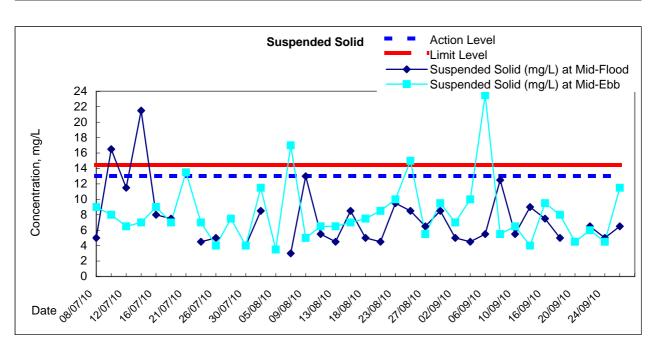




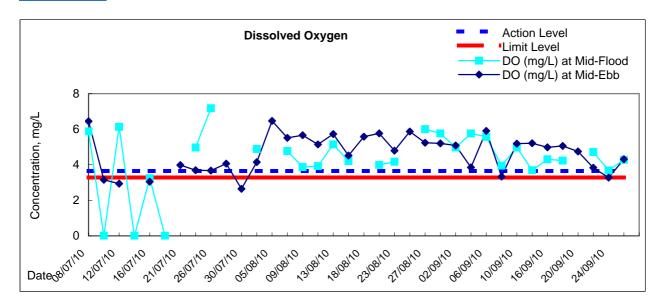
Graphic Presentation of Water Quality Result of WSD20 - Kennedy Town

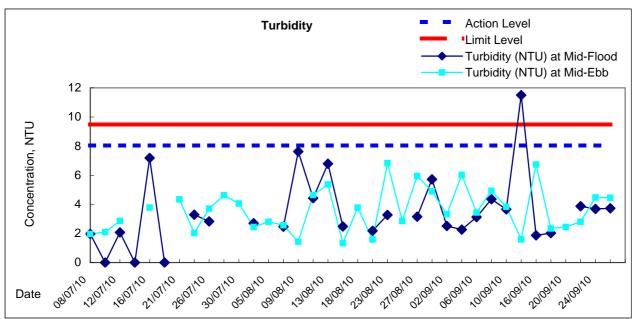


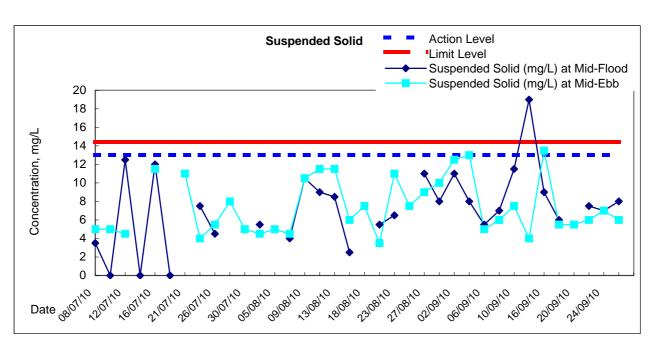




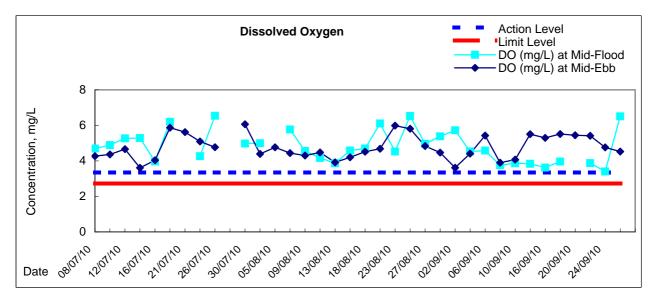
Graphic Presentation of Water Quality Result of WSD7 - Kowloon South

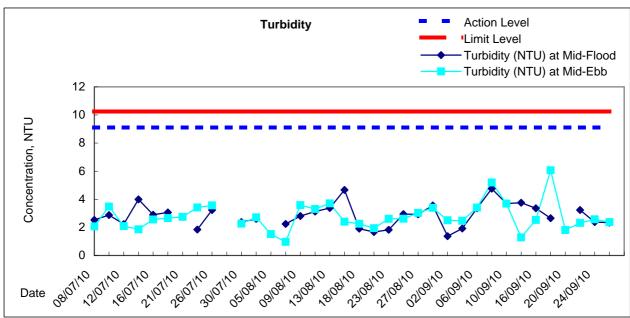


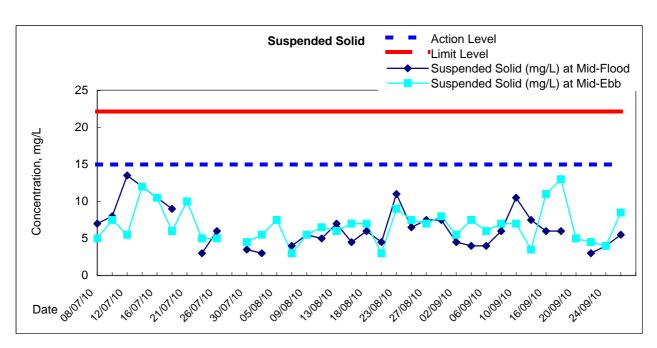




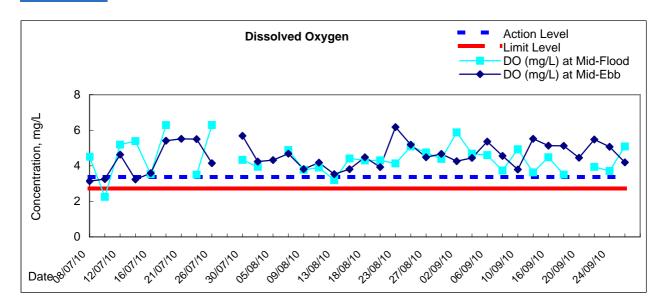
Graphic Presentation of Water Quality Result of C1 - HKCEC

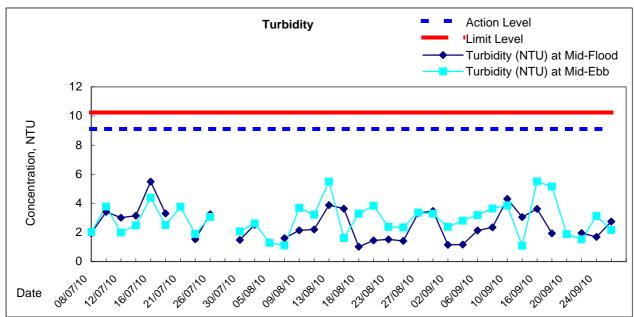


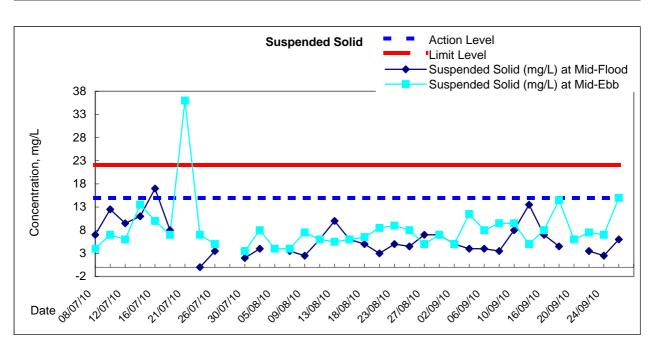




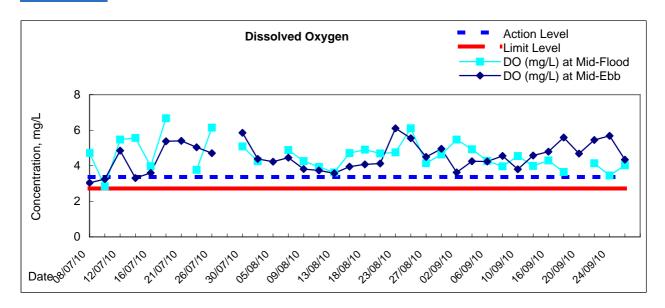
Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

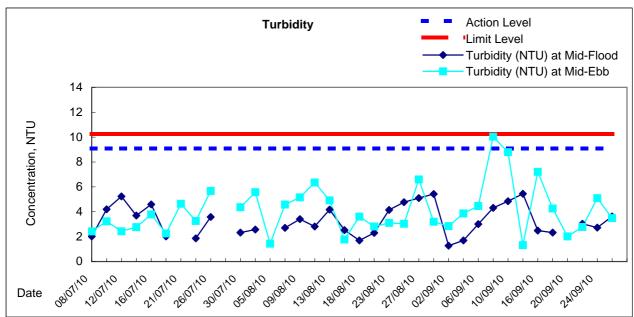


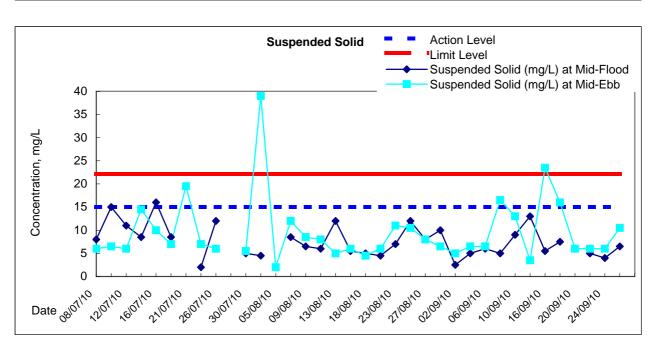




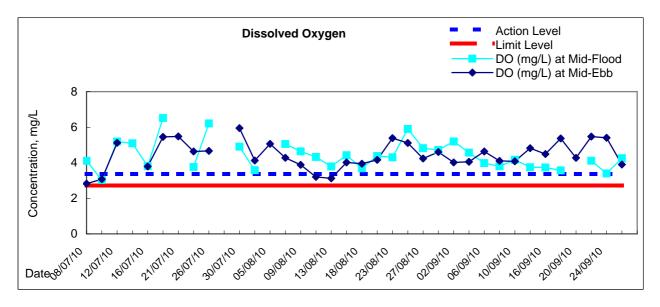
Graphic Presentation of Water Quality Result of C3 - WCT and GEC

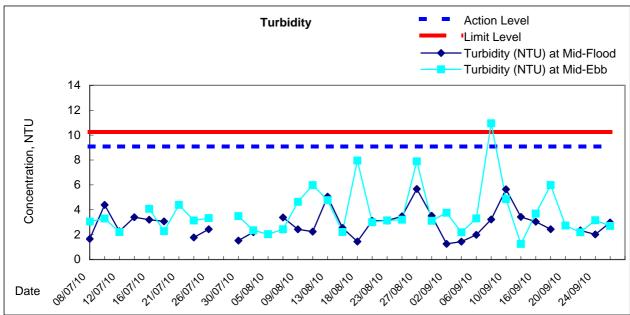


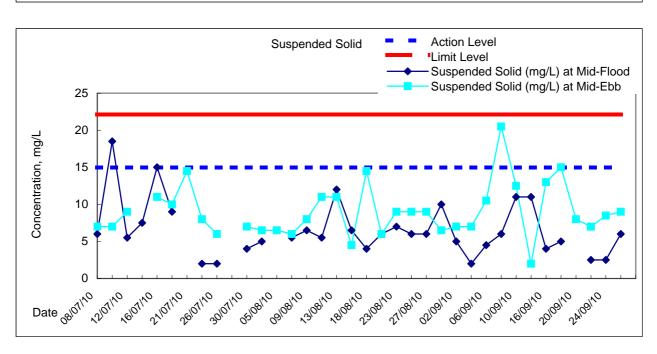




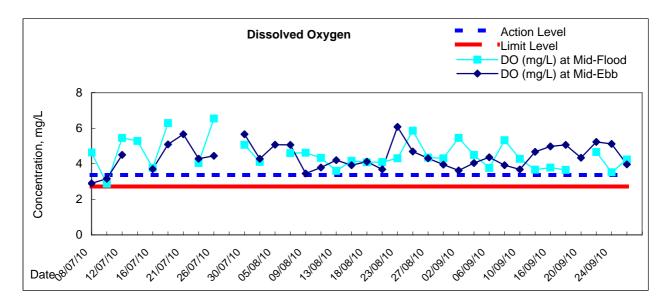
Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

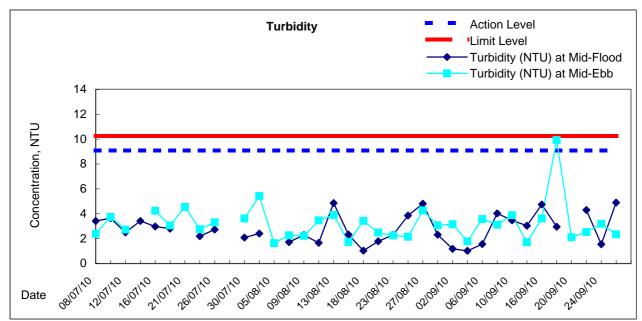


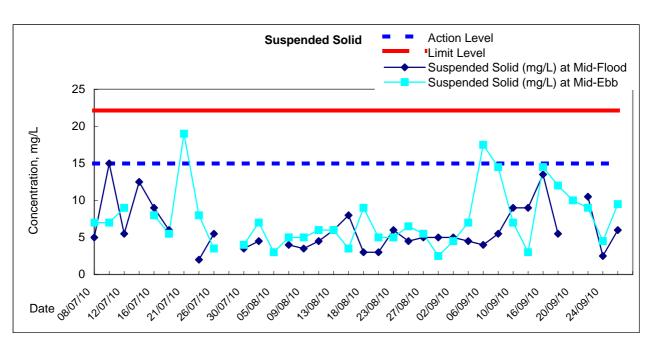




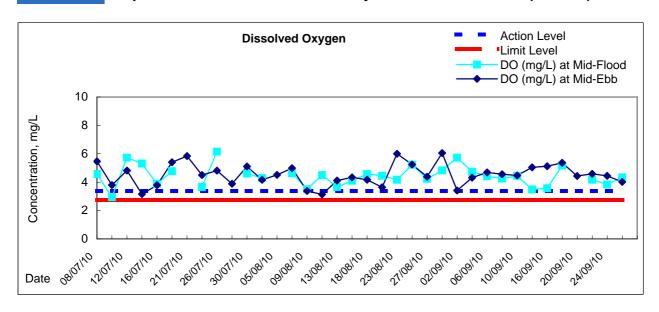
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

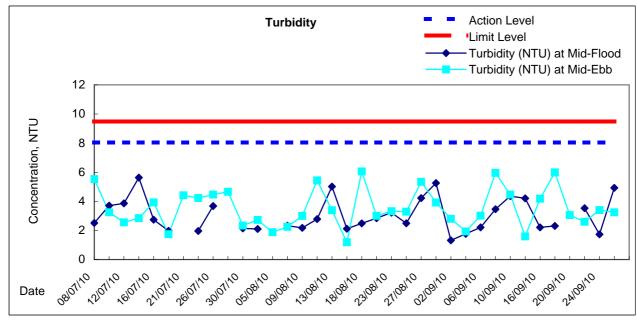


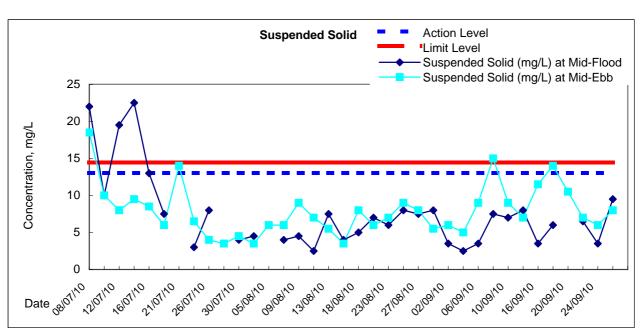




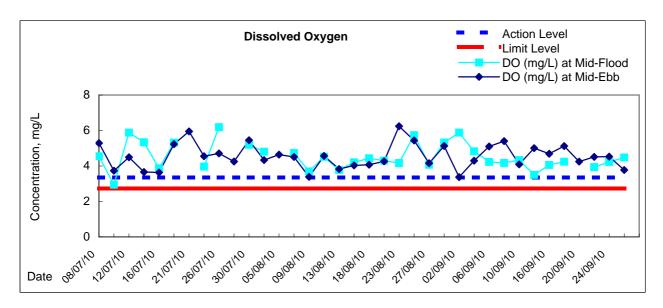
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

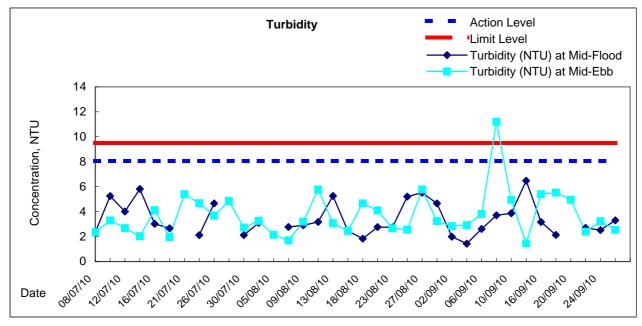


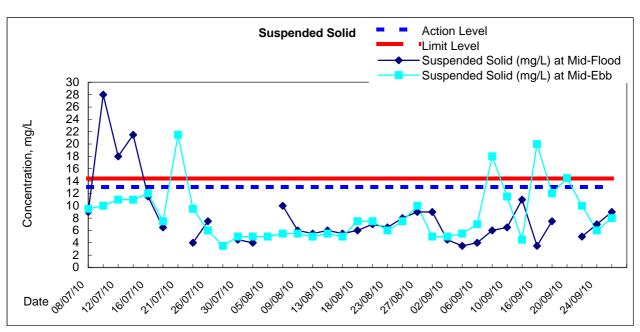




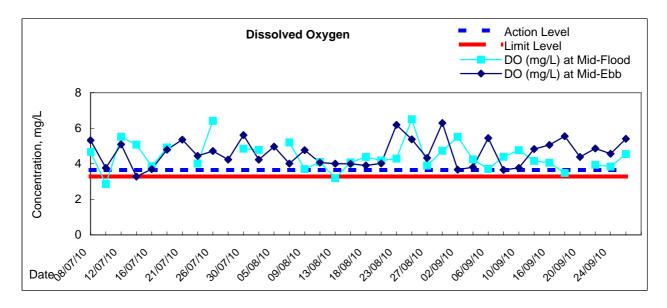
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

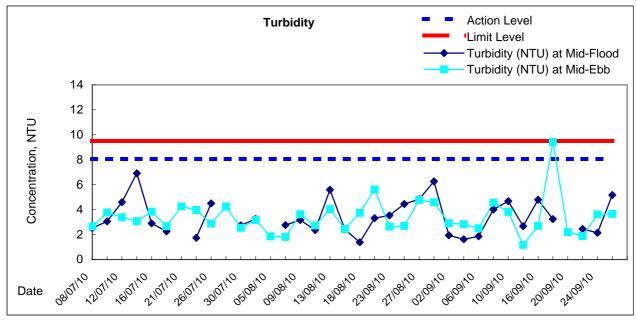


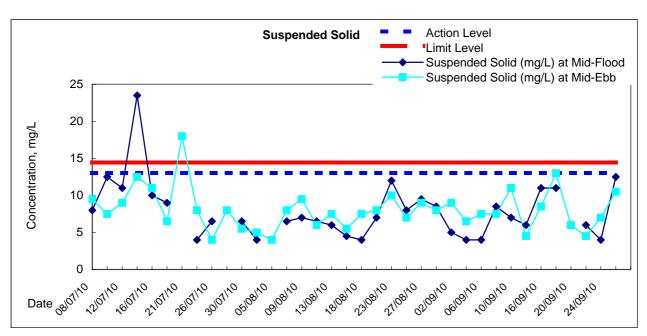




Graphic Presentation of Water Quality Result of WSD21 - Wan Chai







Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

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



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

Event / Action Dian for Construction Air Quality

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

Event and Action Plan for Marine Water Quality

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

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

Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level		
X_W111	4-Sep-10	Mid-ebb	WSD17	DO (mg/L)	3.54	3.66	3.28	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	7.85	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Floating refuse was observed during the monitoring. Silt screen
									and silt curtain were in proper condition during monitoring. The
									DO and SS exceedance are considered as causing by the natural
				Suspended Solid	21.50	13.00	14.43		variation and a non-project related exceedance.
X_W112	6-Sep-10	Mid-ebb	WSD20	DO (mg/L)	3.68	3.66	3.28	Possible reason:	Unknown local discharge near the station WSD20;
								Action taken / to be taken:	Repeat in-situ measurement and reviewed the trend of overall
				Turbidity	11.80	8.04	9.49		results at all monitoring stations
								Remarks / Other Obs:	Unknown local discharge was observed during water monitoring at
									station WSD20. No turbidity exceedance was recorded at the
									monitoring stations near the marine work area. It is concluded not
				Suspended Solid	23.50	13.00	14.43		related to the project works.
X_W113	8-Sep-10	Mid-flood	WSD20	DO (mg/L)	5.35	3.66	3.28	Possible reason:	Unknown local discharge near the station WSD20;
				Turbidity	8.23	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	As no turbidity exceedance was recorded at the monitoring
									stations near the marine work area. It is concluded not related to
				Suspended Solid	13.00	13.00			the project works.
X_W114	8-Sep-10	Mid-ebb	WSD7	DO (mg/L)	3.33	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	4.93	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	6.00	13.00			by the natural variation and no related to Project
X_W115	8-Sep-10	Mid-ebb	WSD9	DO (mg/L)	3.46	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	5.53	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	6.00	13.00			by the natural variation and no related to Project
X_W116	8-Sep-10	Mid-ebb	WSD10	DO (mg/L)	3.44	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	7.33	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	6.00	13.00			by the natural variation and no related to Project
X_W117	8-Sep-10	Mid-ebb	WSD15	DO (mg/L)	3.10	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	4.03	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	5.00	13.00	14.43		by the natural variation and no related to Project



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W118	8-Sep-10	Mid-ebb	WSD17	DO (mg/L)	3.37	3.66		Possible reason:	Natural variation or changes in ambient conditions
	-			Turbidity	3.21	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
				•				Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	6.00		14.43		by the natural variation and no related to Project
X_W119	8-Sep-10	Mid-ebb	WSD19	DO (mg/L)	2.84	3.66	3.28	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	8.45	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Silt screen was in proper condition during monitoring. Since the
									natural flow during the ebb tides indicates that the source is
				Suspended Solid	10.00		14.43		downstream, it is concluded not related to the Project works.
X_W120	8-Sep-10	Mid-ebb	WSD20	DO (mg/L)	3.37	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	4.41	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
				Suspended Solid	6.00		14.43		by the natural variation and no related to Project
X_W121	8-Sep-10	Mid-ebb	WSD21	DO (mg/L)	3.66	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	4.56	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
				Occasional and Octivi	0.00	40.00	4.4.40		consecutive monitoring, the exceedance is considered as causing
V 14/400	00 4 40	NA: al Glassal	WOD40	Suspended Solid	8.00		14.43		by the natural variation and no related to Project
X_W122	30-Aug-10	IVIIa-flood	WSD10	DO (mg/L)	5.90 5.98			Possible reason: Action taken / to be taken:	Natural variation or changes in ambient conditions
				Turbidity	5.98	8.04	9.49	Remarks / Other Obs:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs.	Since the natural flow during the flood tide indicated that the
									source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation
									or change around WSD10 and not related to the project work.
				Suspended Solid	14.00	13.00	14.43		or change around w3D to and not related to the project work.
X_W123	13-Sep-10	Mid-flood	WSD7	DO (mg/L)	3.69			Possible reason:	Natural variation or changes in ambient conditions
X_VV123	13-3ep-10	IVIIG-1100G	WODI	Turbidity	11.50	8.04		Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
				Turbidity	11.50	0.04	3.43	Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during
								Remarks / Other Obs.	monitoring. In the view of no exceedance recorded at the
									monitoring Stations near the marine works area of Contract
				Suspended Solid	19.00	13.00	14.43		no.HK/2009/01, it is considered not related to the Project.
X_W124	10-Sep-10	Mid-ebb	WSD15	DO (mg/L)	5.09			Possible reason:	Natural variation or changes in ambient conditions
	300 .0			Turbidity	7.36			Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
				,	1.50	2.0.	2.10	Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during
									monitoring. In the view of no exceedance recorded at the
									monitoring Stations near the marine works area of Contract no.
				Suspended Solid	20.50	13.00	14.43		HY/2009/11, it is considered not related to the Project.

monitoring. Since the natural flow during the ebb tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around WSD7 and not related to the

project work.

Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W125	18-Sep-10	Mid-ebb	WSD21	DO (mg/L)	5.55	3.66	3.28	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	9.43	8.04	9.49	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
								Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during
									monitoring. In the view of no exceedance recorded at the Stations C5e and C5w and in the next consecutive monitoring, it is
				Suspended Solid	13.00	13.00	14.43		considered not related to the Project.
X_W126	18-Sep-10	Mid-flood	WSD21	DO (mg/L)	3.48	3.66	3.28	Possible reason:	Natural variation or changes in ambient conditions
				T	2.05	0.04	0.40	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt
				Turbidity	3.25	8.04	9.49	Remarks / Other Obs:	screen and silt curtain Silt screen and silt curtain were in proper condition during
								Remarks / Other Obs.	monitoring. In the view of low turbidity level and no exceedance
									recorded at the Stations C5e and C5w, it is considered not related
				Suspended Solid	11.00	13.00	14.43		to the Project.
X_W127 20-Sep-10	20-Sep-10	Mid-ebb	WSD17	DO (mg/L)	3.61	3.66		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	2.78	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations and
									no exceedance was recorded at the station near to the site. As no muddy boom and low turbidity level at this station, the DO
									exceedance is considered as causing by the natural variation and
				Suspended Solid	5.50	13.00	14.43		no related to Project
X_W128	16-Sep-10	Mid-ebb	WSD7	DO (mg/L)	4.98	3.66	3.28	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity	6.74	8.04	9.49	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
								Remarks / Other Obs:	Since the natural flow during the ebb tide indicated that the source
									of impact was located at the upstream of the project site, it is
									concluded that the source of impact was due to natural variation or change around WSD7 and not related to the project work.
				Suspended Solid	13.50	13.00	14.43		of change around w3D7 and not related to the project work.
X W129	24-Sep-10	Mid-ebb	WSD7	DO (mg/L)	3.28	3.66		Possible reason:	Natural variation or changes in ambient conditions
			_	Turbidity	4.47	8.04		Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
		1		-				Remarks / Other Obs:	No exceedance was recorded in the next consecutive water

13.00

7.00

14.43

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

Suspended Solid

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C117	4-Sep-10	Mid-flood	C8	DO (mg/L)	3.12	3.36	2.73	Possible reason:	Accumulation of unknown local discharge near the intake
				Turbidity (NTU)	3.54	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	4.00	15.00	22.13	Remarks / Other Obs:	As no muddy boom was observed during the monitoring, the DO exceedance is considered as causing by the natural variation and not related to Project.
X 10C118	8-Sep-10	Mid-ebb	C3	DO (mg/L)	4.55	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
7	о сор . о			Turbidity (NTU)	10.03	9.10		Action taken / to be taken:	Reviewed the contractor work practics and the condition of silt screen and silt curtain
				SS (mg/L)	16.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain were inspected in proper condition during the trial dredging. No further dredging works was carried out after this monitoring date. It cannot be concluded the exceedances were not related to the Project. Since the dredging works was carried out in close proximity of the intakes, Contractor was reminded to ensure all mitigation measures be properly implemented.
X_10C119	8-Sep-10	Mid-ebb	C4e	DO (mg/L)	4.10	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	10.90	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	20.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain were inspected in proper condition during the trial dredging. No further dredging works was carried out after this monitoring date. It cannot be concluded the exceedances were not related to the Project. Since the dredging works was carried out in close proximity of the intakes, Contractor was reminded to ensure all mitigation measures be properly implemented.
X_10C120	8-Sep-10	Mid-ebb	C5w	DO (mg/L)	5.40	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	11.20	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	18.00	15.00		Remarks / Other Obs:	Silt screen was in proper condition during the monitoring; Comparing with the monitoring station next to C5w, no exceedance was recorded in C5e. It is concluded as not related Project.
X_10C121	8-Sep-10	Mid-ebb	C8	DO (mg/L)	3.13	3.36		Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	8.34	9.10		Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
				SS (mg/L)	6.00	15.00	22.13	Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due to no muddy boom and no exceedance recorded in the next consecutive monitoring, the exceedance is considered as causing by the natural variation and no related to Project

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured A	Action Level	Limit Level	Follow-up action	
X_10C122	8-Sep-10	Mid-ebb	C9	DO (mg/L)	3.28	3.36	2.73	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	8.20	9.10	10.25	Action taken / to be taken:	Reviewed the trend of overall results at all monitoring stations
				SS (mg/L)	13.50	15.00	22.13	Remarks / Other Obs:	Low DO levels were recorded at most of monitoring stations; Due
									to no muddy boom and no exceedance recorded in the next
									consecutive monitoring, the exceedance is considered as causing
									by the natural variation and no related to Project
X_10C123	30-Aug-10	Mid-flood	C9	DO (mg/L)	4.96	3.36		Possible reason:	Accumulation of particles from outfalls and surface runoff
				Turbidity (NTU)	6.91	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	16.00	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during
									monitoring. Since the natural flow during the flood tides indicates
									that the source is upsteam, it is concluded not related to the
									Project works.
X_10C124	30-Aug-10	Mid-ebb	C9	DO (mg/L)	4.91	3.36		Possible reason:	Accumulation of particles from outfalls and surface runoff
				Turbidity (NTU)	7.11	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	18.00	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain is in a good condition; No exceedance
									was recorded in the next consecutive monitoring. It is considered
									as not related to the Project.
X_10C125	4-Sep-10	Mid-ebb	C8	DO (mg/L)	4.32	3.36		Possible reason:	Accumulation of particles from outfalls and surface runoff
				Turbidity (NTU)	7.64	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	18.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain is in a good condition; No exceedance
									was recorded in the next consecutive monitoring. It is considered
									as not related to the Project.
X_10C126	4-Sep-10	Mid-ebb	C9	DO (mg/L)	4.21	3.36		Possible reason:	Accumulation of particles from outfalls and surface runoff
				Turbidity (NTU)	7.06	9.10		Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	21.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain is in a good condition; No exceedance was recorded in the next consecutive monitoring. It is considered
X_10C127	6-Sep-10	Mid-ebb	C4w	DO (mg/L)	4.37	3.36	2 72	Possible reason:	as not related to the Project. Accumulation of particles from outfalls near monitoring station
7_100121	0 0ep-10	IVIIU-GDD	O44V	Turbidity (NTU)	3.58	9.10		Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt
				raibiaity (1410)	3.30	3.10	10.20	Action taken / to be taken.	screen and silt curtain
				SS (mg/L)	17.50	15.00	22.13	Remarks / Other Obs:	Silt screen was in proper condition during the monitoring;
									Comparing with the monitoring stations next to C4w, no
									exceedance was recorded in C3 and C4w. It is concluded as not
									related Project.

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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C128	16-Sep-10	Mid-ebb	C8	DO (mg/L)	4.74	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	12.83	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	20.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain is in a proper condition; No exceedance was recorded in the next consecutive monitoring. It is considered as not related to the Project.
X_10C129	16-Sep-10	Mid-ebb	C9	DO (mg/L)	4.57	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	9.14	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	16.50	15.00	_	Remarks / Other Obs:	Silt screen and silt curtain is in a proper condition; No exceedance was recorded in the next consecutive monitoring. It is considered as not related to the Project.
X_10C130	18-Sep-10	Mid-flood	C8	DO (mg/L)	3.69	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station and local change after discharge the silt screen at monitoring station
				Turbidity (NTU)	13.50	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	13.00	15.00	22.13	Remarks / Other Obs:	Since the natural flow during the flood tide indicated that the source of impact was located at the upstream of the project site, it is concluded that the source of impact was due to natural variation or change around C8 and not related to the project work.
X_10C131	18-Sep-10	Mid-ebb	C8	DO (mg/L)	4.41	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station and local change after discharge the silt screen at monitoring station
				Turbidity (NTU)	10.85	9.10	10.25	Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt curtain
				SS (mg/L)	15.50	15.00	22.13	Remarks / Other Obs:	The turbidity and SS level are within the range of the baseline water monitoring at C8. Since it is considered as accumulation of particles from outfalls near station and local change after the silt screen discharged. It is concluded as not related to the Project.
X_10C132	18-Sep-10	Mid-ebb	C4w	DO (mg/L)	5.06	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
	·			Turbidity (NTU)	9.92	9.10		Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	12.00	15.00	22.13	Remarks / Other Obs:	Silt screen was in proper condition during the monitoring; Comparing with the monitoring stations next to C4w, no exceedance was recorded in C3 and C4w. It is concluded as not related Project.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X 10C133	18-Sep-10	Mid-ebb	C9	DO (mg/L)	4.36	3.36		Possible reason:	Accumulation of particles from outfalls near monitoring station
_				Turbidity (NTU)	10.14	9.10		Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	20.00	15.00		Remarks / Other Obs:	Silt screen and silt curtain is in a proper condition; No exceedance was recorded in the next consecutive monitoring. It is considered as not related to the Project.
X_10C134	16-Sep-10	Mid-ebb	C5w	DO (mg/L)	4.69	3.36		Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	5.40	9.10		Action taken / to be taken:	Reviewed the trend of monitoring results and the condition of silt screen and silt curtain
				SS (mg/L)	20.00	15.00	22.13	Remarks / Other Obs:	Silt screen was in proper condition during the monitoring; Comparing with the monitoring station next to C5w, no exceedance was recorded in C5e. It is concluded as not related Project.
X_10C135	16-Sep-10	Mid-ebb	C3	DO (mg/L)	4.79	3.36	2.73	Possible reason:	Natural variation or changes in ambient conditions
_				Turbidity (NTU)	7.21	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	23.50	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during monitoring. In the view of no exceedance recorded at the Station C2, C4e and C4w, it is considered not related to the Project.
X_10C136	18-Sep-10	Mid-ebb	C3	DO (mg/L)	5.59	3.36	2.73	Possible reason:	Natural variation or changes in ambient conditions
				Turbidity (NTU)	4.27	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	16.00	15.00	22.13	Remarks / Other Obs:	Silt screen and silt curtain were in proper condition during monitoring. In the view of no exceedance recorded at the Station C2, C4e and C4w, it is considered not related to the Project.
X_10C137	27-Sep-10	Mid-flood	C8	DO (mg/L)	5.59	3.36	2.73	Possible reason:	Accumulation of particles from outfalls and fish cluster near monitoring station
				Turbidity (NTU)	8.08	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	19.00	15.00		Remarks / Other Obs:	The exceedance within torrance of Baseline monitoring. In the view of silt curtain were in proper condition during monitoring, it is considered not related to the Project.
X_10C138	27-Sep-10	Mid-flood	C9	DO (mg/L)	4.93	3.36		Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	6.41	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	20.00	15.00		Remarks / Other Obs:	The exceedance within torrance of Baseline monitoring. In the view of silt curtain were in proper condition during monitoring, it is considered not related to the Project.
X_10C139	27-Sep-10	Mid-ebb	C8	DO (mg/L)	4.51	3.36	2.73	Possible reason:	Accumulation of particles from outfalls and fish cluster near monitoring station
				Turbidity (NTU)	5.91	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	25.00	15.00	22.13	Remarks / Other Obs:	In the view of silt curtain were in proper condition during monitoring, it is considered not related to the Project.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10C140	27-Sep-10	Mid-ebb	C9	DO (mg/L)	4.98	3.36	2.73	Possible reason:	Accumulation of particles from outfalls near monitoring station
				Turbidity (NTU)	7.82	9.10	10.25	Action taken / to be taken:	Reviewed the Contractor works and the trend of monitoring results
				SS (mg/L)	19.00	15.00	22.13	Remarks / Other Obs:	The exceedance within torrance of Baseline monitoring. In the
									view of silt curtain were in proper condition during monitoring, it is
									considered not related to the Project.

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

Appendix 9.1

Complaint Log

Environmental Complaints Log

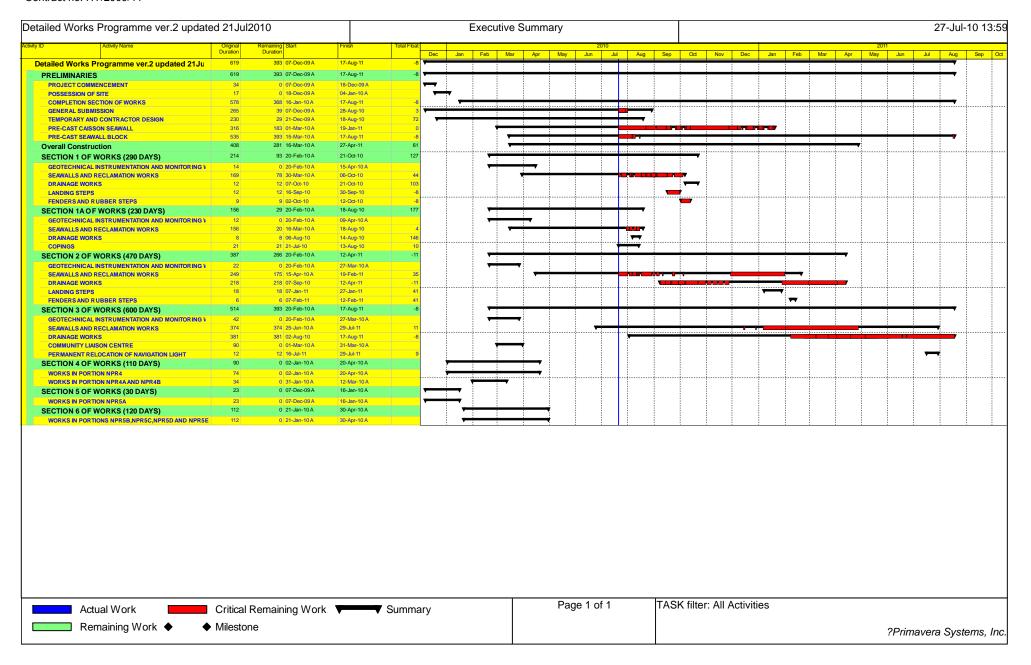
Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	
100504 4/5/	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	,	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.	
				to reduce the noise level.	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.	
						No further complaints were received in the reporting month. The complaint is considered 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		Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
				operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
						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.	
						It is considered as invalid from the EP and CNP point of view.	
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the		Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
				Harbour Height during the period from 0700 to 2200.		No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.	
						It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	

Appendix 10.1

Construction Programme of Individual Contracts



Contract No. HK/2009/01

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

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010	2011	2012	2013
Submissions before Works Commencement			Feb Ma ApriMa Jun Jul Aug Sep Oct No Dec	Jan Fed Maj App Maj Jun Jul Aug Sep Oct No De	Jan Feb Ma App Ma Jun Jul Au Sep Oct No De	Jan Feb Mai ApriMa Jun Jul Aug Sep Oct No Dec
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)

