#### CONTRACT NO: HK/2011/07

# WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 2)

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

### MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- NOVEMBER 2012 -

CLIENTS:

**Civil Engineering and Development Department** 

and

**Highways Department** 

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**CERTIFIED BY:** 

Raymond Dai

**Environmental Team Leader** 

DATE:

/3 December 2012

Ref.: AACWBIECEM00 0 3467L.12

13 December 2012

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 (November 2012) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009

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

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

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

Yours sincerely,

David Yeung

Independent Environmental Checker

Mr. Jones Lai c.c. HyD Mr. Patrick Keung CEDD

Mr. Francis Leong / Mr. Stephen Lai **AECOM** Mr. Raymond Dai Lam

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i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –November 2012 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009. This report presents the environmental monitoring findings and information recorded during the period October 2012 to November 2012. The cut-off date of reporting is at 27<sup>th</sup> of each reporting month.

#### Construction Activities for the Reported Period

- ii. During this reporting period, the major work activities for Contract no. HK/2009/01 included: Marine Works (at Wan Chai)
  - Rockfilling for HKCEC3E (East of HKCEC) between CH290 and CH385
  - Grouting works to pipe pile at Expo Drive East. Advance excavation works for installation of tie back and installation of tie back
  - Removal of existing seawall and rock armour at Expo Drive East
  - Dredging underneath Expo Drive East by telescopic excavator
  - Fabrication of 3 nos. of precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay 10) and 2 nos. precast discharge outfall in precasting yard at Guangdong, China

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

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- Connection work between land pipeline and marine pipeline
- Reinstatement works for the TST landfall

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

- Mainlaying works at Zone B1-5A, B2-1, B3-1, A1-1, A1-2, A1-4, A1-2A & A1-3A, A2-3D, A3-2A, A3-4B, A3-3C, C1-6 and run-out of Renaissance Hotel
- Mainlaying works at TTA Zone A2-3D and A1-4
- Pipe laying works at heading No. H1 and Zone A3-4B
- Mainlaying works at Zone A3-3C
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Mainlaying works at Expo Drive East in Zone C1-10 was substantially completed and subsequent TTA Zone C1-6
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains

#### E&M

- Electrical works in cooling water pumping stations P5
- Major cabling works from existing LV Switch-board Room to Cooling Water Pumping Station P5
- Power energization to L.V. switchboard for cooling water pumping stations P5
- Full commissioning for Cooling Water Pumping Stations P1
- iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
  - Repairing of door hinges in the New Public Toilet..
  - Modification work of PTI at Expo Drive East
  - · Modification work of bus station at Expo Drive East near EVA
  - Pre-inspection for P9 (SHK) Pumping Station.Reinstatement at Convention Avenue and Harbour Road junction
  - Cooling mains installation at west of Gate 1 inside ex-pet garden
  - Cooling main remedial works for the bending pipes
  - · Installation of optic fiber and power cable
  - E&M works and ABWFs installation at WSD Salt Water Pumping Station
  - Concreting of boundary wall of EVA at WSD Pumping Station
  - Concreting of Inspection Manhole and Access Chamber of Salt Water Intake Culvert at Bay 19B & 20
  - Concreting of the wall and top slab at salt water intake culvert Bay 19a
  - Concreting of the blinding layer at salt water intake culvert Bay 9 Bay 11 at WCR1
  - Concreting of the wall and top slab at salt water intake culvert Bay 9 at WCR1 and steel fixing of base slab at Bay 10
  - Cutting the sheetpile wall at salt water intake culvert Bay 11 to jacking pit
  - Concreting of wall and top slab of Bay 2a in salt water intake seaside cofferdam
- iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
  - TZ1 and TS2 reclamation works
  - Formation of temporary seawall at TS2
- v. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
  - Pile head breaking
  - · Platform Disassembly
  - Bored Pile cutting
- vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
  - Marine bored piling
  - Construction works for Box Culvert T

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#### **Noise Monitoring**

- vii. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting month.
- viii. No action level exceedance and two limit level exceedances were recorded at M6 on 1 and 6 November 2012. The limit level exceedances were considered as non-project related.

#### Real-time Noise Monitoring

- ix. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- x. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xi. No exceedance was recorded in this reporting month.

#### **Air Quality Monitoring**

- xii. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xiii. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:

CMA2a: from 8 and 14 November 2012 to 9 and 15 November 2012

CMA5a: from 8 November 2012 to 9 November 2012

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

#### Water Quality Monitoring

- xv. Based on the safety concern when the lighting system for the access to C3 was off, the water quality monitoring were cancelled in the following dates and tides:
  - 2 Nov 2012 Mid-Flood tide

3 Nov 2012 Mid-Ebb tide

5 Nov 2012 Mid-Flood tide

6 Nov 2012 Mid-Ebb tide

xvi. Due to the lighting system for the access to C3 was off on 19 Nov 2012 during ebb , the sample for C3 was taken in the alternative location under contingency plan

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- xvii. Due to the blockage of road access to C5e and C5w on 17 Nov 2012 during mid-flood and mid-ebb tide, the sample was taken under contingency plan and the result was presented in C5e WQM result on 17 Nov 2012 during mid-flood and mid-ebb
- xviii. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.
- xix. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and was completed on 6 Feb 2012 water quality monitoring.
- xx. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- xxi. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- xxii. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- xxiii. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- xxiv. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.
- xxv. Water quality monitoring at 14 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table I*.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

	Water	Mid-flood						Mid-ebb					
Contract no.		0	Turb	idity	S	S	D	0	Turb	idity	S	S	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	2	1	0	1	0	0	3	2	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0

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	Water			Mid-1	flood					Mid-	ebb		
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	1	0	0	0	0	0	0	0	0	0	0	0
	C4w	1	0	0	0	0	0	0	0	0	0	1	0
Manitarina finishadan 27 April 2042	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD7	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	1	0	1	0
	C5w	0	0	1	1	0	1	0	0	0	1	1	0
Monitoring started on	WSD21	0	0	0	0	0	0	0	0	1	1	1	1
8 Feb 2012	WSD9	0	0	1	0	0	1	0	0	0	0	0	0
	WSD17	0	0	4	2	0	3	0	0	2	0	0	1
HY/2009/15	C7	1	0	0	1	0	0	0	0	0	0	0	0
HY/2009/19	C8	0	0	1	1	0	0	0	0	1	1	0	0
Monitoring started on 28 Jan 2012	C9	0	0	3	4	2	0	0	0	1	1	0	0
Total	Total		0	12	10	3	6	0	0	9	6	4	3

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

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- xxvi. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the Section 6.4.
- xxvii. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

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

Contract		Mid-f	lood	Mid-ebb		
	Water Monitoring Station	D	<b>O</b>	DO		
		AL	LL	AL	LL	
	C6	0	0	1	0	
HY/2009/15	C7	0	1	1	0	
H1/2009/13	Ex-WPCWA SW	0	6	1	1	
	Ex-WPCWA SE	4	5	5	3	

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	ontract Water Monitoring no. Station	Mid-	flood	Mid-ebb	
Contract no.		DO		DO	
		AL	LL	AL	LL
	Total	4	12	8	4

xxviii. There were 12 action level exceedances and 28 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the Section 6.4.

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

#### Complaints, Notifications of Summons and Successful Prosecutions

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

#### Site Inspections and Audit

xxxi. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15 HK/2010/06 and HY/2009/19 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

#### Future Key Issues

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

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

#### Marine Works

- Fabrication of precast concrete caisson seawalls, precast box culvert (Bay 10) and precast discharge outfall in precasting yard at Guangdong, China
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier would be commenced after completion of removal of high spot of Grade 75 rock fill along the submarine pipeline of cross-harbour watermains.
- Excavation work and tie back system for construction of pipe pile wall near expo



#### drive East

- Removal of seawall and rock armour at Expo Drive East
- Rockfilling at east of HKCEC near Expo Drive East
- Trust block construction at TST landfall
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore including removal of silt screen
- Fresh water flushing, final cleaning and sterilization for cross-harbour watermains
   CHA, CHB, CHE & CHF
- Installation of Impressed Current Cathodic Protection (ICCP) system to CHA and CHB

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

- Works would be continued at Zone B1-5A, B2-1, B3-1, A1-1, A1-2, A2-2,
   A1-4(CHWM), A2-3D, A3-2A, A3-4B, A3-3C, run-out of Renaissance Hotel and C1-6
- Mainlaying works at Zone C1-6
- Reinstatement works at Zone B1-5A and B2-1
- · Mainlaying works at Zone B3-1
- Mainlaying works at Convention Avenue in Zone A1-1 and A1-2 and the next TTA workfront at Zone A1-2 (CHWM) would be commenced accordingly.
- Mainlaying works and grouting works at jacking pit in Zone A1-2A & A1-3A of Convention Avenue would be resumed upon completion of pressure test for intake and discharge pipeline of SOC and HKAPA.
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street would be continued.
- Pipe laying works for Heading no. H1 would be continued .The remaining pipe works at Zone A3-2A
- Mainlaying works at Zone A3-4B would be continued and the works at Zone A3-4A &
  A3-5A would be subsequently commenced concurrently after the Zone A3-4B had
  been completed reinstated and reopened to public.
- Pressure test for the 1 no. cooling watermains (AF)

#### E&M Works

- Electrical works in Cooling Water Pumping Stations P5
- Power supply to cooling water pumping station P5 from L.V. switchboard
- Initial commissioning for Cooling Water Pumping Stations P5
- Power energization for Cooling Water Pumping Stations P5
- Full commissioning for Cooling Water Pumping Stations P3, P4 & P5

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

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- Complete rectification works of cooling mains and pressure test.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Continue entrance area works at WSD Pumping Station
- Continue the finishing and E&M works of WSD Salt Water Pumping Station.
- Continue construction of Bay 1b 2 Salt water intake culverts at WCR1 area.
- Complete salt water intake culverts Bay 10 11 construction.
- Continue salt water intake culvert at transition bays inside jacking pit.
- Continue remaining drainage works and reinstatement works along Wan Shing Street.
- Complete Outfall Pipe B connection inside outfall seaside cofferdam and Dye Tests
- Continue construction of 1800 connection of Box Culvert N1, Bay 4 & Bay 5 and FRP installation at WCR1 area.
- Commence concreting works for the Observation Deck Level at the New Ferry Pier.

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

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

# <u>Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line</u>

- · Pile head breaking
- Platform Disassembly
- Dredging
- Bored Pile cutting

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

- Construction works for Box Culvert T
- Marine Piling



#### 1. Introduction

#### 1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "Environmental Monitoring and Audit Requirements" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 and during the period of October to November. The cut-off date of reporting is at 27<sup>th</sup> 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.

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**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	DP3, DP6	23 July 2010	
	Kong Convention and Exhibition Centre	DP1, DP2	25 August 2011	
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010	
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011	
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010	
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010	
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011	
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011	
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010	
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010	
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011	
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011	

#### 2.4 Project Organization and Contact Personnel

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

Table 2.3 Contact Details of Key Personnel

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



Party	Role	Post	Name	Contact No.	Contact Fax
Joint Venture	HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	
venture		Deputy Site Agent	Mr Andy Yu	96484896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL	Contractor under Contract no.	Site Agent	Mr. Chan Sing Cho	3658 3002	2827 9996
Joint Venture	HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State	Contractor under Contract no.	Project Director	Chan Wai Hung	2823 7813	2865 5229
Constructi on Engineerin g (HK) Ltd.	HY/2009/15	Site Manager	P J Fan	3557 6368	2566 2192
		Contractor's Representativ e	Mr. David Lau	3557 6358	
		Head of Construction Manager	Roger Cheung	3557 6371	
		Senior Construction Manager	Gene Cheung	3557 6395	
		Environmental Officer	Mr. Daniel Sin	3557 6347	
Gammon -Leader JV	Contractor under Contract no.	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
	HK/2010/06	Site Agent	Mr. Keith Tse	2529 2068	
		Environmental Officer	Mr. Lee Wai Man	9481 6024	
Chun Wo - CRGL -	Contractor under Contract no.	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
MBEC_ Joint Venture	HY/2009/19	Site Agent	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager	Patrick Cheung	9643 3012	
		(Land)			
		Construction Manager (Land)	Eric Fong	6191 9337	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

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

Marine Works (at Wan Chai)

- Rockfilling for HKCEC3E (East of HKCEC) between CH290 and CH385
- Grouting works to pipe pile at Expo Drive East. Advance excavation works for installation of tie back and installation of tie back
- Removal of existing seawall and rock armour at Expo Drive East
- Dredging underneath Expo Drive East by telescopic excavator
- Fabrication of 3 nos. of precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay 10) and 2 nos. precast discharge outfall in precasting yard at Guangdong, China

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

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- · Connection work between land pipeline and marine pipeline
- · Reinstatement works for the TST landfall

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

- Mainlaying works at Zone B1-5A, B2-1, B3-1, A1-1, A1-2, A1-4, A1-2A & A1-3A, A2-3D, A3-2A, A3-4B, A3-3C, C1-6 and run-out of Renaissance Hotel
- Mainlaying works at TTA Zone A2-3D and A1-4

- Pipe laying works at heading No. H1 and Zone A3-4B
- Mainlaying works at Zone A3-3C
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Mainlaying works at Expo Drive East in Zone C1-10 was substantially completed and subsequent TTA Zone C1-6
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains

#### E&M

- Electrical works in cooling water pumping stations P5
- Major cabling works from existing LV Switch-board Room to Cooling Water Pumping Station P5
- Power energization to L.V. switchboard for cooling water pumping stations P5
- Full commissioning for Cooling Water Pumping Stations P1
- 2.4.4. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
  - Repairing of door hinges in the New Public Toilet...
  - Modification work of PTI at Expo Drive East
  - · Modification work of bus station at Expo Drive East near EVA
  - Pre-inspection for P9 (SHK) Pumping Station.Reinstatement at Convention Avenue and Harbour Road junction
  - Cooling mains installation at west of Gate 1 inside ex-pet garden
  - · Cooling main remedial works for the bending pipes
  - Installation of optic fiber and power cable
  - E&M works and ABWFs installation at WSD Salt Water Pumping Station
  - Concreting of boundary wall of EVA at WSD Pumping Station
  - Concreting of Inspection Manhole and Access Chamber of Salt Water Intake Culvert at Bay 19B & 20
  - Concreting of the wall and top slab at salt water intake culvert Bay 19a
  - Concreting of the blinding layer at salt water intake culvert Bay 9 Bay 11 at WCR1
  - Concreting of the wall and top slab at salt water intake culvert Bay 9 at WCR1 and steel fixing of base slab at Bay 10
  - Cutting the sheetpile wall at salt water intake culvert Bay 11 to jacking pit
  - Concreting of wall and top slab of Bay 2a in salt water intake seaside cofferdam
- 2.4.5. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
  - TZ1 and TS2 reclamation works
  - Formation of temporary seawall at TS2
- 2.4.6. For Contract no. HK/2010/06, the principal work activities in this reporting month included:

- · Pile head breaking
- Platform Disassembly
- Bored Pile cutting
- 2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
  - Marine bored piling
  - Construction works for Box Culvert T
- 2.4.8. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

#### Marine Works

- Fabrication of precast concrete caisson seawalls, precast box culvert (Bay 10) and precast discharge outfall in precasting yard at Guangdong, China
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier would be commenced after completion of removal of high spot of Grade 75 rock fill along the submarine pipeline of cross-harbour watermains.
- Excavation work and tie back system for construction of pipe pile wall near expo drive East
- Removal of seawall and rock armour at Expo Drive East
- Rockfilling at east of HKCEC near Expo Drive East
- Trust block construction at TST landfall
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore including removal of silt screen
- Fresh water flushing, final cleaning and sterilization for cross-harbour watermains
   CHA, CHB, CHE & CHF
- Installation of Impressed Current Cathodic Protection (ICCP) system to CHA and CHB

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

- Works would be continued at Zone B1-5A, B2-1, B3-1, A1-1, A1-2, A2-2, A1-4(CHWM), A2-3D, A3-2A, A3-4B, A3-3C, run-out of Renaissance Hotel and C1-6
- Mainlaying works at Zone C1-6
- Reinstatement works at Zone B1-5A and B2-1
- Mainlaying works at Zone B3-1



- Mainlaying works at Convention Avenue in Zone A1-1 and A1-2 and the next TTA workfront at Zone A1-2 (CHWM) would be commenced accordingly.
- Mainlaying works and grouting works at jacking pit in Zone A1-2A & A1-3A of Convention Avenue would be resumed upon completion of pressure test for intake and discharge pipeline of SOC and HKAPA.
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street would be continued.
- Pipe laying works for Heading no. H1 would be continued .The remaining pipe works at Zone A3-2A
- Mainlaying works at Zone A3-4B would be continued and the works at Zone A3-4A & A3-5A would be subsequently commenced concurrently after the Zone A3-4B had been completed reinstated and reopened to public.
- Pressure test for the 1 no. cooling watermains (AF)

#### **E&M Works**

- Electrical works in Cooling Water Pumping Stations P5
- Power supply to cooling water pumping station P5 from L.V. switchboard
- Initial commissioning for Cooling Water Pumping Stations P5
- Power energization for Cooling Water Pumping Stations P5
- Full commissioning for Cooling Water Pumping Stations P3, P4 & P5

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

- PTI modification works after completion of New Public Toilet in East Island at Expo Drive East.
- Complete all cooling mains and cabling works for P7, P8 & P9 Pumping Stations permanent power-on and signal control.
- 800MS pipe installation inside Ex-pet Garden.
- Modification work of EVA & Vehicle access at WSD Pumping Station
- Finishing works of WSD Salt Water Pumping Station.
- Construction of Bay 1b 2, Bay 6 8 salt water intake culverts at WCR1 area.
- ELS of the salt water intake culverts Bay 9 11 to formation level at WCR1 area and commence culvert works.
- Salt water intake culvert at transition bays inside jacking pit and receiving pit.
- Remaining drainage works and reinstatement works along Wan Shing Street.
- HDPE piping inside outfall seaside cofferdam.
- Construction for Box Culvert N1 at WCR1 area.
- Concreting works for the Mezzanine Level at the New Ferry Pier.

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Seawall strengthening works at WCR2 area.

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (November2012)

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

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

### <u>Contract no. HK/2010/06 - Wan Chai Development Phase II - Central - Wan Chai Bypass over MTR Tsuen Wan Line</u>

- Pile head breaking
- Platform Disassembly
- Dredging
- Bored Pile cutting

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

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



- 3. Status of Regulatory Compliance
- 3.1 Status of Environmental Licensing and Permitting under the Project
- 3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	17 Aug 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Valid
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Valid

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

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

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/01 under FEP-02/356/2009 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0460-12	10 May 2012	13 May 2012 to 6 Nov 2012	Expired
	GW-RS0514-12	14 May 2012	27 May 2012 to 26 Nov 2012	Expired
	GW-RS0855-12	16 Aug 2012	17 Aug 2012 to 9 Feb 2013	Cancelled
	GW-RS0862-12	20 Aug 2012	28 Aug 2012 to 27 Feb 2013	Cancelled
	GW-RS0949-12	12 Sep 2012	16 Sep 2012 to 15 Mar 2013	Cancelled
	GW-RS0545-12	24 May 2012	26 May 2012 to 25 Nov 2012	Expired
	GW-RS0546-12	25 May 2012	26 May 2012 to 25 Nov 2012	Expired
	GW-RS0760-12	18 Jul 2012	20 Jul 2012 to 19 Jan 2013	Valid
	GW-RS0806-12	3 Aug 2012	4 Aug 2012 to 03 Feb 2013	Cancelled
	GW-RS0823-12	3 Aug 2012	3 Aug 2012 to 02 Feb 2013	Cancelled

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0852-12	16 Aug 2012	16 Aug 2012 to 01 Feb 2013	Cancelled
	GW-RS0994-12	25 Sep 2012	25 Sep 2012 to 19 Nov 2012	Expired
	GW-RS1011-12	26 Sep 2012	30 Sep 2012 to 29 Mar 2013	Cancelled
	GW-RS1017-12	27 Sep 2012	30 Sep 2012 to 24 Mar 2013	Valid
	GW-RE0793-12	21 Sep 2012	30 Sep 2012 to 29 Mar 2013	Valid
	GW-RS1040-12	8 Oct 2012	13 Oct 2012 to 12 Apr 2013	Valid
	GW-RS1177-12	15 Nov 2012	17 Nov 2012 to 10 May 2013	Valid
	GW-RS1184-12	15 Nov 2012	17 Nov 2012 to 8 May 2013	Valid
	GW-RS1185-12	19 Nov 2012	21 Nov 2012 to 8 May 2013	Valid
	GW-RS1179-12	20 Nov 2012	22 Nov 2012 to 21 May 2013	Valid
	GW-RS1187-12	20 Nov 2012	27 Nov 2012 to 26 May 2013	Valid
	GW-RS1199-12	20 Nov 2012	26 Nov 2012 to 25 May 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-004	23 May 2012	24 May 2012 to 23 Nov 2012	Expired
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/13-062	9 Oct 2012	10 Oct 2012 to 9 Nov 2012	Expired
Type 2 – Confined Marine Disposal)	EP/MD/13-089	8 Nov 2012	12 Nov 2012 to 11 Dec 2012	Valid

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan (Rev. 5)	24 Aug 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010

EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
Canditions 2.0	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
Conditions 2.8 and 2.9	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010
Outside 0.40	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
Condition 2.18	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0671-12	25 June 2012	17 Jul 2012 to 16 Jan 2013	Valid
	GW-RS0730-12	9 July 2012	10 Jul 2012 to 8 Jan 2013	Valid
	GW-RS0736-12	9 July 2012	9 Jul 2012 to 8 Jan 2013	Valid
	GW-RE0283-12	5 Apr 2012	1 May 2012 to 30 Nov 2012	Valid





Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0739-12	9 July 2012	1 Aug 2012 to 31 Jan 2013	Valid
	GW-RS1038-12	10 Oct 2012	10 Oct 2012 to 9 Apr 2013	Valid
	GW-RS1069-12	17 Oct 2012	19 Oct 2012 to 18 Apr 2013	Valid
	GW-RS0380-12	12 Apr 2012	1 May 2012 to 31 Oct 2012	Expired
	GW-RS0388-12	13 Apr 2012	1 May 2012 to 31 Oct 2012	Expired
	GW-RS0418-12	30 Apr 2012	23 May 2012 to 22 Nov 2012	Expired
	GW-RS0420-12	30 Apr 2012	18 May 2012 to 17 Nov 2012	Cancelled
	GW-RS0423-12	30 Apr 2012	19 May 2012 to 18 Nov 2012	Cancelled
	GW-RS0427-12	30 Apr 2012	23 May 2012 to 22 Nov 2012	Expired
	GW-RS0533-12	21 May 2012	21 May 2012 to 10 Nov 2012	Expired
	GW-RS0550-12	25 May 2012	7 June 2012 to 6 Dec 2012	Valid
	GW-RS0611-12	14 June 2012	15 Jun 2012 to 28 Nov 2012	Valid
	GW-RS0633-12	13 June 2012	16 Jun 2012 to 14 Dec 2012	Valid
	GW-RS0814-12	3 Aug 2012	6 Aug 2012 to 5 Dec 2012	Valid
	GW-RS0850-12	10 Aug 2012	14 Aug 2012 to 13 Feb 2013	Valid
	GW-RS0870-12	21 Aug 2012	16 Sept 2012 to 31 Dec 2012	Valid
	GW-RS0996-12	25 Sept 2012	26 Sept 2012 to 25 Mar 2013	Valid
	GW-RS1076-12	25 Oct 2012	1 Nov 2012 to 30 Apr 3013	Valid
	GW-RS1084-12	25 Oct 2012	1 Nov 2012 to 30 Apr 2013	Valid
	GW-RS1086-12	25 Oct 2012	28 Oct 2012 to 16 Apr 2013	Valid
	GW-RS1174-12	9 Nov 2012	11 Nov 2012 to 10 May 2013	Valid
	GW-RS1158-12	16 Nov 2012	18 Nov 2012 to 16 May 2013	Valid
	GW-RS1167-12	16 Nov 2012	23 Nov 2012 to 21 May 2013	Valid
	GW-RS1204-12	9 Nov 2012	29 Nov 2012 to 23 May 2013	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Cancelled
	WT00006757-2010	28 May 2010	31 May 2015	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 -	EP/MD/13015	25 May 2012	29 May 2012 to 28 Nov 2012	Expired
Open Sea Disposal)	EP/MD/13-095	19 Nov 2012	29 Nov 2012 to 28 May 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-077	28 Sept 2012	6 Oct 2012 to 5 Nov 2012	Expired
	EP/MD/13-086	31 Oct 2012	6 Nov 2012 to 5 Dec 2012	Valid

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

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
Condition 2.8	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.0	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
Condition 2.9	ondition 2.9 Silt Screen Deployment Plan	
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010



EP Condition	Submission	Date of Submission
	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
Condition 2.17	Noise Management Plan	6 May 2010
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010
Condition 2.18	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-01/416/2011	11 Nov 2011	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for Filling and Diaphragm Wall Works at TS4/ME4	GW-RS0924-12	31 Aug 2012	01 Sep 2012 to 28 Feb 2013	Cancelled
	GW-RS1191-12	26 Nov 2012	26 Nov 2012 to 11 May 2013	Valid
Construction Noise Permit (CNP) for bored pile construction at Eastern Breakwater of CBTS	GW-RS1009-12	03 Oct 2012	03 Oct 2012 to 25 Mar 2013	Valid
Construction Noise Permit (CNP) for Removal Works at TS1	GW-RS0607-12	12 Jun 2012	13 Jun 2012 to 7 Dec 2012	Valid
Construction Noise Permit (CNP) for Dredging at TS2	GW-RS1023-12	05 Oct 2012	09 Oct 2012 to 25 Mar 2013	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	03 Oct 2012	17 Oct 2012 to 16 Jan 2013	Valid
Dumping Permit (Type 1 - Open Sea Disposal)	EP/MD/13-018	6 Jun 2012	6 Jun 2012 to 5 Dec 2012	Valid
Dumping Permit (Type 1 – Open	EP/MD/13-076	28 Sep 2012	8 Oct 2012 to 7 Nov 2012	Expired
Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-094	19 Nov 2012	24 Nov 2012 to 23 Dec 2012	Valid

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

Submission	Date of Submission
Works Schedule and Location Plans	27 Oct 2010
Amendment for Works Schedule and Location Plans	12 Nov 2010
Silt Curtain Deployment Plan	30 Nov 2010
Amendment for Silt Curtain Deployment Plan	24 Feb 2011
Amendment for Silt Curtain Deployment Plan	11 May 2011
Amendment for Silt Curtain Deployment Plan	11 Sep 2012
Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Silt Screen Deployment Plan	19 Oct 2010
Amendment for Silt Screen Deployment Plan	18 Feb 2011
Amendment for Silt Screen Deployment Plan	15 Jun 2011
Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Landscape Plan	18 Feb 2011
Noise Management Plan	20 Oct 2010
Amendment for Noise Management Plan	27 Jan 2011
	Amendment for Works Schedule and Location Plans Silt Curtain Deployment Plan Amendment for Silt Screen Deployment Plan Amendment for Proposal for the Removal of Odorous Sediment and Slime Amendment for Proposal for the Removal of Odorous Sediment and Slime Amendment for Proposal for the Removal of Odorous Sediment and Slime Amendment For Proposal for the Removal of Odorous Sediment and Slime Annadscape Plan Joise Management Plan

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

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

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

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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
Futther Environmental Fermit	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0012-12	18 June 2012	6 Jul 2012 to 5 Jan 2013	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0989-12	21 Sept 2012	6 Oct 2012 to 5 Apr 2013	Valid
To non piling equipment	GW-RS0658-12	21 June 2012	13 Jul 2012 to 12 Jan 2013	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G25 33-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 November 2011	31 July 2016	Valid`

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

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

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

3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.12*.

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



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0871-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0507-12	22-May-12	23-Nov-12	Cancelled
Construction Noise Permit (CNP) (For Bored pile construction at Portion III, V)	GW-RS0885-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP)	GW-RS0589-12	18-Jun-12	17-Dec-12	Cancelled
(For Watson Road)	GW-RS1230-12	28-Nov-12	25-May-13	Valid
Construction Noise Permit (CNP)	GW-RS0953-12	17-Sep-12	20-Mar-13	Cancelled
(For IEC)	GW-RS1210-12	29-Nov-12	28-May-13	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1065-12	16-Oct-12	20-Apr-13	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
Registration as a Waste Producer	7012306	21 Jan 2011	Registered	-
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-150	14-May-12	14-Nov-12	Expired

#### 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	

#### **REAL-TIME NOISE MONITORING STATIONS**

- 4.1.2. The real-time noise monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.
- 4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

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

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION



- 4.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L<sub>eq</sub>). L<sub>eq (30 minutes)</sub> 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<sub>eq (5 minutes)</sub> shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 4.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

# **MONITORING EQUIPMENT**

- 4.1.8. As referred to in the Technical Memorandum ™ issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.9. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

# 4.2 Air Monitoring

#### AIR QUALITY MONITORING STATIONS

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

Table 4.3 Air Monitoring Station

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

#### Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (November2012)

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

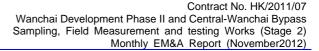
<sup>\*</sup> Remarks: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were renamed as remark.

# AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

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

# SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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



shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

# **LABORATORY MEASUREMENT / ANALYSIS**

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 4.2.9. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.10. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

# IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
  - be at least 16 years of age;
  - · be free from any respiratory illnesses; and
  - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
  - before and during odour patrol
- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.



- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
  - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
  - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
  - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
  - 3 Strong Identifiable, likely to have odour nuisance;
  - 4 Extreme Severe odour, and unacceptable odour level.
- 4.2.16. The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in *Appendix 6.1*.
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

# 4.3 Water Quality Monitoring

- 4.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 4.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April September) will be effected and applied to the water quality monitoring data from 30 April 2011.

#### Water Quality Monitoring Stations

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

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water 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



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

# WATER QUALITY PARAMETERS

RC7

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

837245.2

816156.6

Windsor House (Temporary Dilution)

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

# SAMPLING PROCEDURES AND MONITORING EQUIPMENT

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

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid-flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

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

#### Notes:

- 1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory. DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT
- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
  - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

# **TURBIDITY MEASUREMENT INSTRUMENT**

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

#### **SAMPLER**

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

#### SAMPLE CONTAINER AND STORAGE

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

#### WATER DEPTH DETECTOR

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



# **SALINITY**

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

# MONITORING POSITION EQUIPMENT

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

#### **CALIBRATION OF IN-SITU INSTRUMENTS**

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

#### LABORATORY MEASUREMENT / ANALYSIS

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

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

- 4.3.21. The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 4.3.22. Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 4.6* and *Figure 4.1*.

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

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

#### DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 4.3.25. The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data sahll be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

# ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 4.3.26. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.3.27. The proposed DO monitoring stations of the Project are shown in *Table 4.7* and *Figure 4.1*.

Table 4.7 Marine Water Quality Stations for Additional DO Monitoring

Station	Easting	Northing
Α	835468	815857
В	835572	815961
С	835659	816271

4.3.28. The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed,

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except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



# 5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <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. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
  - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
  - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
  - Contract no. HK/2010/06 Wan Chai Development Phase II Central-Wan Chai Bypass over MTR Tsuen Wan Line
  - Contract no. HY/2009/19- Cental- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

# 5.1 Noise Monitoring Results

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

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

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

Station	Description	
M1a	Harbour Road Sports Centre	

- **5.1.2.** Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.3. No exceedance was recorded in this reporting period. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2* 
  - <u>Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)</u>
- 5.1.4. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

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

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

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

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

5.1.6. The proposed division of noise monitoring stations are summarized in *Table 5.4* below.

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

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

5.1.7. No action level exceedance and two limit level exceedances were recorded at M6 on 1 and 6 November 2012. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</u>

# 5.2 Real-time Noise Monitoring

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

- 5.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 5.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 5.2.4 No exceedance was recorded in this reporting month.
- 5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012



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

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

- Real time noise monitoring results and graphical presentation during night time period are for information only.
- RTN2 had been relocated to RTN2a since 5 Oct 2012
- RTN1 monitoring had been finished on 28 Nov 2012
- 5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to <a href="#">Appendix 5.5.</a>

#### 5.3 Air Monitoring Results

- 5.3.1. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- 5.3.2. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:

CMA2a: from 8 and 14 November 2012 to 9 and 15 November 2012

CMA5a: from 8 November 2012 to 9 November 2012

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

5.3.3. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed divisions of air monitoring stations are summarized in *Table 5.7* below. No exceedance was recorded in the reporting month.

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

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

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

5.3.4. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations are summarized in *Table 5.8* below. No exceedance was recorded in the reporting month.

Table 5.8 Air Monitoring Station for Contract no. HK/2009/02

Station
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Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

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

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

Station	Description
СМАЗа	CWB PRE Site Office

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

5.3.6. The proposed division of air monitoring stations are summarized in Table 5.10 below. No exceedance was recorded in the reporting month.

Table 5.10 Air Monitoring Stations for Contract no. HY/2009/19

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

# 5.4 Water Monitoring Results.

- 5.4.1. Based on the safety concern when the lighting system for the access to C3 was off on 3 and 6 Nov 2012 during ebb tide and flood tide, the water quality monitoring were cancelled on 3 and 6 November during ebb tide and flood tide.
- 5.4.2. Based on the safety concern when the lighting system for the access to C3 was off, the water quality monitoring were cancelled in the following dates and tides:
  - 2 Nov 2012 Mid-Flood tide
  - 3 Nov 2012 Mid-Ebb tide
  - 5 Nov 2012 Mid-Flood tide
  - 6 Nov 2012 Mid-Ebb tide
- 5.4.3. Due to the lighting system for the access to C3 was off on 19 Nov 2012 during ebb tide, the sample for C3 was taken in the alternative location under contingency plan
- 5.4.4. Due to the blockage of road access to C5e and C5w on 17 Nov 2012 during mid flood and mid-ebb tide, the sample was taken under contingency plan and the result was presented in C5e WQM result on 17 Nov 2012 during mid-flood and mid-ebb
- 5.4.5. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage

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Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.

- 5.4.6. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- 5.4.7. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 5.4.8. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- 5.4.9. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 5.4.10. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 5.4.11. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.12. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.
  - <u>Contract no. HK/2009/01 Wan Chai Development Phase II Central -Wanchai Bypass at HKCEC</u>
- 5.4.13. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.12* below.
- 5.4.14. Based on the safety concern when the lighting system for the access to C3 was off, the water quality monitoring were cancelled in the following dates and tides:
  - 3 Nov 2012 During flood tide and ebb tide
  - 5 Nov 2012 During flood tide

6 Nov 2012 During ebb tide

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

Station Ref.	Location	Easting	Northing				
WSD Salt Water Intake							
WSD7	Kowloon South	834150.0	818300.3				
WSD19	Sheung Wan	833415.0	816771.0				
WSD20	Kennedy Town	830750.6	816030.3				
Cooling Water 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	Great Eagle Centre	835932.8	815888.2				
C4w	Wan Chai Tower	835629.8	815889.2				

#### Remarks:

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

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

- 5.4.15. Water monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations are summarized in *Table 5.13* below.
- 5.4.16. Due to the blockage of road access to C5e and C5w on 17 Nov 2012 during mid flood and mid-ebb tide, the sample was taken under contingency plan and the result was presented in C5e WQM result on 17 Nov 2012 during mid-flood and mid-ebb.

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

Station Ref.	Location	Easting	Northing				
WSD Salt Water Intake							
WSD21	Wan Chai	836220.8	815940.1				
WSD9	Tai Wan	837921.0	818330.0				
WSD17	Quarry Bay	839790.3	817032.2				
Cooling Water Inta	Cooling Water Intake						
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2				
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2				

#### Remarks:

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



- No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8
   Feb 2012.

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

5.4.17. Water monitoring for Contract no. HK/2010/06 was commenced on 8 March 2011. The proposed division of water monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2010/06

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

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

- 5.4.18. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 5.4.19. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in *Table 5.15* below.

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

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

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

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

5.4.20. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012. The proposed division of water monitoring stations are summarized in *Table 5.16* below.

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

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

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



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- 5.4.21. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external facade refurbishment work.
- 5.4.22. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 5.4.23. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake C6 was terminated effective from 26 May 2011.
- 5.4.24. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 5.4.25. Water monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in Appendix 5.4.

Table 5.17	Summar	y of Water G	Quality Monitoring	g Exceedances in	Reporting Month
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	Water			Mid-f	flood					Mid-	ebb		
Contract no.	Monitoring	DO		Turbidity		SS		DO		Turbidity		SS	
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	2	1	0	1	0	0	3	2	0	1
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	1	0	0	0	0	0	0	0
	C4e	1	0	0	0	0	0	0	0	0	0	0	0
	C4w	1	0	0	0	0	0	0	0	0	0	1	0
	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD7	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	0	0	0	0	0	1	0	1	0
	C5w	0	0	1	1	0	1	0	0	0	1	1	0
Monitoring started on	WSD21	0	0	0	0	0	0	0	0	1	1	1	1
8 Feb 2012	WSD9	0	0	1	0	0	1	0	0	0	0	0	0
	WSD17	0	0	4	2	0	3	0	0	2	0	0	1
HY/2009/15	C7	1	0	0	1	0	0	0	0	0	0	0	0
HY/2009/19	C8	0	0	1	1	0	0	0	0	1	1	0	0
Monitoring started on 28 Jan 2012	C9	0	0	3	4	2	0	0	0	1	1	0	0
Total		3	0	12	10	3	6	0	0	9	6	4	3

- Remarks: The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
  - WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
  - 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
  - C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
  - WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- 5.4.26. Investigation found that no exceedance was related to project works. The details of the recorded exceedances can be referred to the Section 6.4.
- 5.4.27. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table* 5.18.

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

Contract	Water Monitoring	Mid-flood	Mid-ebb
no.	Station	DO	DO



		AL	LL	AL	LL
	C6	0	0	1	0
HY/2009/15	C7	0	1	1	0
HY/2009/15	Ex-WPCWA SW	0	6	1	1
	Ex-WPCWA SE	4	5	5	3
	Total		12	8	4

- 5.4.28. There were 12 action level exceedances and 16 limit level exceedances recorded in enhanced dissolved oxygen monitoring in this reporting period.
- 5.4.29. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in Appendix 5.4a.

# 5.5 Waste Monitoring Results

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

5.5.1. No Inert C&D waste was disposed and non- inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.19*.

Table 5.19 Details of Waste Disposal for Contract no. HK/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	0	22245.415	TKO137, TM38
Inert C&D materials recycled, m <sup>3</sup>	0	5104.5	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	42.38	1092.08	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	200	8250	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0 (Bulk Volume)	91164.2 (Bulk Volume)	South of Cheung Chau



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	0 (Bulk Volume)	43785 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

5.5.2. There were no marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in the reporting month.

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

5.5.3. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.20*.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	5677.63	219417.03	TKO137 / TM 38
Inert C&D materials recycled, m <sup>3</sup>	0	18161	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	48.37	697.37	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	N/A	N/A	N/A
Chemical waste disposed, kg	700	6221	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0	154,827 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	782	115246 (Bulk volume)	East of Sha Chau

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	NIL	141579.2	Tuen Mun Area 38
m <sup>3</sup>	NIL	65216	TKO137 FB
Inert C&D materials recycled,	NIL	304	ex-PCWA
m <sup>3</sup>	NIL	111.9	TS4
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	252.2	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A
Chemical waste disposed, kg	NIL	8,200	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL	97,857 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	NIL	207,285 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	7,050 (Bulk Volume)	East of Sha Chau

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

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

5.5.5. Non-inert C&D waste was disposed and Inert C&D waste was recycled in this reporting month.

Details of the waste flow table are summarized in *Table 5.22*.

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	0	11366.23	TM38
Inert C&D materials recycled, m <sup>3</sup>	36.3	348.1	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	18.96	21.35	N/A
Non-inert C&D materials recycled, kg	0	1374.5	N/A
Chemical waste disposed, L	0	600	N/A

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Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (November2012)

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

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m <sup>3</sup>	17872.18	93591.24	TM38
Inert C&D materials recycled, m <sup>3</sup>	195	1323	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	39.32	151.53	N/A
Non-inert C&D materials recycled, kg	6.58	111.22	N/A
Chemical waste disposed, L	NIL	0.29	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	0	83	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m <sup>3</sup>	0	482	East Sha Chau

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



### 6. Compliance Audit

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

# 6.1 Noise Monitoring

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

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.4 No exceedance was recorded in the reporting month.

Contract no. HY/2009/19 – Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

6.1.5 Two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 1 and 6 November 2012 in the reporting month. Investigations found that major traffic noise was contributed in the noise monitoring and not related to the Project.

#### 6.2 Real-time noise Monitoring

6.2.1 No exceedance was recorded in this reporting month

# 6.3 Air Monitoring

6.3.1. No exceedance was recorded in 1-hr TSP and 24-hrs TSP monitoring in the reporting month.

# 6.4 Water Quality Monitoring

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

- 6.4.1 There were occasionally DOand SS exceedances recorded at C3, C4e and C4w in this reporting month. Confirmed with Contractor, trimming work on CHWM was conducted during the water quality monitoring. In view that the water quality at monitoring stations located nearest the marine work site well below the Action level and the silt screen was in proper condition, the exceedances were considered not project related.
- 6.4.2 Turbidity and SS exceedances at WSD19 were occasionally recorded in this reporting month. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedances were possible in relation to the changes of water quality in the vicinity of the water quality monitoring station and not project related.

Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (November2012)

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

- 6.4.3 There were turbidity and SS exceedances recorded at C5w on 29 Oct 2012 during flood tide. Checking with Contractor's work, no marine work was conducted during monitoring. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. The exceedance was possible in relation to the trapping of unknown particles inside the silt screen. Contractor was reminded the water quality near to the intake should be provided with sufficient protection. The exceedance was not related to project works.
- 6.4.4 There was turbidity exceedance recorded at C5w on 31 Oct 2012 during flood tide. Checking with Contractor's work, no filling was conducted on that day. Checking with contractor's inspection record, cleaning screen panel at SHK intake was conducted during monitoring. The exceedance was possibly due to the cleaning of screen panels at the SHK intake. Materials from cleaning of screen panels was unavoidably collected during monitoring. The exceedance was considered not project related
- 6.4.5 There were turbidity and SS exceedances recorded at C5w and C5e on 31 October 2012 during ebb tide. Checking with Contractor's records, diver inspection at SHK's well was conducted at 1300. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition. The exceedance was possible in relation to the disturbance of sediment during diver inspection inside the SHK's well. The exceedances were considered not work related.
- 6.4.6 There was SS exceedance recorded at C5e on 17 Nov 2012 during ebb tide. Checking with Contractor's work, no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day. The exceedance was possibly relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station. The exceedance was considered not project related.
- 6.4.7 There were occasionally DO, turbidity and SS exceedances recorded at WSD21 on 8 and 17 November 2012 during ebb tide. Confirmed with Contractor, there was no work conducted during the water quality monitoring. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.8 There were occasionally turbidity and SS exceedances recorded at WSD17 and WSD9 in this reporting month. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedance was possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

6.4.9 There were turbidity and DO exceedances recorded at C7 during mid-flood on 17 and 22 November 2012 respectively in this reporting month. After checking with the Contractor's works, the deployed silt curtain was in proper condition for TS2 seawall construction and

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reclamation. The exceedances were possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

6.4.10 There were occasionally DO exceedances at Ex-WPCWA SE and Ex-WPCWA SW recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at ex-WPCWA. The exceedances were possible in relation to the accumulation of organic particles discharge from culvert near monitoring station and considered not related to the Projects works.

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

6.4.11 No exceedance was recorded in this reporting month.

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

- 6.4.12 There were occasionally turbidity and SS exceedances at C8 and C9 recorded in this reporting month. Confirmed with Contractor, there was no marine work conducted near C8 and C9. The exceedances were possible in relation to the accumulation of particles discharged from outfalls near monitoring stations and not related to project.
- 6.4.13 Summary for notification of exceedances can be referred to Appendix 6.2.

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

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

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

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

# 7. Cumulative Construction Impact due to the Concurrent Projects

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Monthly EM&A report (October 2012) of Central Reclamation Phase III (CRIII), filling works, building construction works and pipe works were performed in the November 2012 reporting month. The water quality monitoring was completed in October 2011 and no project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities at Reclamation Shoreline Sub-zones under Wan Chai Development Phase II were the filling at HKCEC3w, dredging at submarine sewage pipelines, reinstatement of seawall block construction at TCBR1W and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at, Causeway Bay and Wan Chai.
- 7.0.4. The major environmental impacts generated from the reclamation work at Central Reclamation Phase III were only located along the coastline of Central and Admiralty. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact was insignificant.



#### 8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HK/2010/06 and HY/2009/19. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HK/2009/01 was carried out on 31 October 2012, 7, 14 and 22 November 2012 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

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

Item	Date	Observations	Action taken by Contractor	Outcome
121031_01	31-Oct-12	The oil leakage was observed at several locations which should be removed as chemical waste the source of leakage should be identified. (Expo East Bridge, Near to Grand Hyatt)	removed	Completion as observed on 7-Nov-12
121107_01		The oil leakage was observed on the platform of Leader 2 which should be removed as chemical waste (Leader 2 Dredger)	removed	Completion as observed on 14-Nov-12
121114_01	14-Nov-12	The muddy water dispersion out of the silt curtain was observed during filling. Gaps between silt curtain should be prevented before filling operation (Expo Drive East)	condition was improved.	Completion as observed on 22-Nov-12
121114_02	14-Nov-12	removed and disposed as chemical waste (Playground Area)	removed	observed on 22-Nov-12
121122_01	22-Nov-12	The oil stain was observed on grounf which should be removed and disposed as chemical waste (VIP area)	removed	Completion as observed on 28-Nov-12
121122_02	22-Nov-12	The C&D materials around tree should be removed. (Playground Area)	The C&D materials near to tree was removed.	

8.0.3. Four site inspections for Contract no. HK/2009/02 was carried out on 1, 8, 16 and 23 November 2012 during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.2*.

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

Item	Date	Observations	Action taken by Contractor	Outcome
121101_01		The oil stain was observed on the ground which should be removed as chemical waste (WCR1, Wan Shing Street)	removed.	Completion as observed on 8-Nov-12
121101_02	1-Nov-12	The silt accumulated in	The silt was	Completion as



Item	Date	Observations	Action taken by Contractor	Outcome
		U-channel should be removed. (WCR2)		observed on 8-Nov-12
121115_02	15-Nov-12	The stockpile should be covered by tarpaulin sheet (Harbour Road)	covered.	Completion as observed on 23-Nov-12
121123_01	23-Nov-12	l ·		observed on

8.0.4. Five site inspections for Contract no. HY/2009/15 was carried out on 30 October 2012, 6, 14, 20 and 27 November 2012 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.

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

Item	Date	Observations	Action taken by	Outcome
			Contractor	
121030_01	30-Oct-12	Drip trays should be provided for	Drip trays were	Completion as
		Chemical drums	provided	observed on
		(TS1,TS4,Ex-PCWA)		6-Nov-12
121120_01	20-Nov-12	Filling materials should be avoid	Filling materials	Completion as
		resting at the edge of seawall	had been removed	observed on
		block to prevent overflow (TZ1)	from the edge of	27-Nov-12
			seawall block	
121120_02	20-Nov-12	Impermeable barrier behind filling	Silt curtain was	Completion as
		works should be tightened to	deployed.	observed on 27
		avoid gaps (TS2)		Nov-12
121127_01	27-Nov-12	The oil stain was observed on	The oil stain was	Completion as
		ground which should be cleaned	removed	observed on 5
		and removed as chemical waste		Dec12
		(TS4)		

8.0.5. Five site inspections for Contract no. HK/2010/06 was carried out on 29 October 2012, 5, 12, 22 and 26 November 2012 in reporting month. The results of these inspections and outcomes are summarized in Table 8.4.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2010/06

Item	Date	Observations	Action taken by Contractor	Outcome
121112_01	12-Nov-12	Watering within site area should be provided more regularly. (Section 2)		Completion as observed on 22-Nov-12
121112_02	12-Nov-12	The grouting materials on ground should be tidied up and disposed as inert waste(2e)	materials on	Completion as observed on 22-Nov-12
121122_01	22-Nov-12	The oil stain was observed on the platform which should be removed and disposed as chemical waste (2w)	The oil stain was removed.	Completion as observed on 26-Nov-12

8.0.6. Four site inspections for Contract no. HY/2009/19 was carried out on 31 October 2012, 7, 15 and 21 November 2012 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.5*.

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

Item	Date	Observations	Action taken by	Outcome
			Contractor	
121107_01		Protection should be provided for public gully before road surface breaking works	provided	Completion as observed on 15-Nov-12

# 9. Complaints, Notification of Summons and Prosecution

- 9.0.1. There was no complaint received in this reporting month.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*.
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

**Table 9.1 Cumulative Statistics on Complaints** 

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	27
November 2012	0
Project-to-Date	27

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



#### 10. Conclusion

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.
- 10.0.3. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 10.0.4. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 10.0.5. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 were implemented with respect to HK/2009/02 for the water quality monitoring scheduled on 8 Feb 12 onwards;
- 10.0.6. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 January 2012.
- 10.0.7. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 10.0.8. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 10.0.9. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.
- 10.0.10. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui- DP6 was completed on 26 March 2012, the temporary suspension of impact water



quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	<ul> <li>Marine Works</li> <li>Fabrication of precast concrete caisson seawalls, precast box culvert (Bay 10) and precast discharge outfall in precasting yard at Guangdong, China</li> <li>Dredging works for Type 2 sediment underneath Expo Drive East Bridge</li> <li>Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier would be commenced after completion of removal of high spot of Grade 75 rock fill along the submarine pipeline of cross-harbour watermains.</li> <li>Excavation work and tie back system for construction of pipe pile wall near expo drive East</li> <li>Removal of seawall and rock armour at Expo Drive East</li> <li>Rockfilling at east of HKCEC near Expo Drive East</li> <li>Trust block construction at TST landfall</li> <li>Rockfilling and rock armour protection works to cross-harbour watermains</li> <li>Reinstatement works at TST seashore including removal of silt</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen deployment plan</li> <li>Frequency spray water on the dry dusty road and on the surface of concrete breaking</li> <li>To cover the dusty material or stockpile by impervious sheet</li> <li>To space out noisy equipment and position as far as possible from sensitive receiver.</li> <li>To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.</li> <li>Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>



Contract No.	Key Construction Works	Recommended Mitigation Measures
	screen	
	Fresh water flushing, final	
	cleaning and sterilizatioin for	
	cross-harbour watermains CHA,	
	CHB, CHE & CHF	
	Installation of Impressed Current	
	Cathodic Protection (ICCP)	
	system to CHA and CHB	
	Fresh Watermains, Cooling	
	Watermains and Salt Watermains	
	(On Land)	
	Works would be continued at	
	Zone B1-5A, B2-1, B3-1, A1-1,	
	A1-2, A2-2, A1-4(CHWM),	
	A2-3D, A3-2A, A3-4B, A3-3C,	
	run-out of Renaissance Hotel	
	and C1-6	
	<ul> <li>Mainlaying works at Zone C1-6</li> </ul>	
	Reinstatement works at Zone	
	B1-5A and B2-1	
	Mainlaying works at Zone B3-1	
	Mainlaying works at Convention	
	Avenue in Zone A1-1 and A1-2	
	and the next TTA workfront at	
	Zone A1-2 (CHWM) would be	
	commenced accordingly.	
	Mainlaying works and grouting	
	works at jacking pit in Zone	
	A1-2A & A1-3A of Convention	
	Avenue would be resumed upon	
	completion of pressure test for	
	intake and discharge pipeline of	
	SOC and HKAPA.	
	Mainlaying works at traffic island	
	near junction between	



Contract No.	Key Construction Works	Recommended Mitigation Measures
	Convention Avenue and Fenwick	
	Pier Street would be continued.	
	Pipe laying works for Heading	
	no. H1 would be continued .The	
	remaining pipe works at Zone	
	A3-2A	
	Mainlaying works at Zone A3-4B	
	would be continued and the	
	works at Zone A3-4A & A3-5A	
	would be subsequently	
	commenced concurrently after	
	the Zone A3-4B had been	
	completed reinstated and	
	reopened to public.	
	Pressure test for the 1 no.	
	cooling watermains (AF)	
	E&M Works	
	Electrical works in Cooling Water	
	Pumping Stations P5	
	Power supply to cooling water	
	pumping station P5 from L.V.	
	switchboard	
	Initial commissioning for Cooling	
	Water Pumping Stations P5	
	Power energization for Cooling	
	Water Pumping Stations P5	
	Full commissioning for Cooling	
	Water Pumping Stations P3, P4	
	& P5	
HK/2009/02	Complete rectification works of	To cover the dusty material or
1110/2009/02	cooling mains and pressure test.	stockpile by impervious sheet;
	Continue 800MS pipe installation	Frequency spray water on the dry  due to read and an the surface of
	inside Ex-pet Garden.	dusty road and on the surface of concrete breaking
	Continue entrance area works at	To well maintain the mechanical
	WSD Pumping Station	equipments / machineries to avoid abnormal noise nuisance and dark
	Continue the finishing and E&M	smoke emission
	works of WSD Salt Water	To conform the installation and setting as in the silt screen and silt



Contract No.	Key Construction Works	Recommended Mitigation Measures
Contract No.	Pumping Station.  Continue construction of Bay 1b – 2 Salt water intake culverts at WCR1 area.  Complete salt water intake culverts Bay 10 – 11 construction.  Continue salt water intake culvert at transition bays inside jacking pit.  Continue remaining drainage works and reinstatement works along Wan Shing Street.  Complete Outfall Pipe B connection inside outfall seaside cofferdam and Dye Tests  Continue construction of 1800 connection of Box Culvert N1, Bay 4 & Bay 5 and FRP installation at WCR1 area.  Commence concreting works for the Observation Deck Level at the New Ferry Pier.	curtain deployment plan  Movable noise barrier shall be deployed for demolition works  Daily visual inspection of silt screen and silt curtain to ensure its operation properly  Review silt screen deployment and silt curtain deployment and resubmit associate plans to EPD  Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/15	<ul> <li>Formation of temporary seawall at TS2</li> <li>TZ1 and TS2 reclamation works</li> </ul>	<ul> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> <li>Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.</li> </ul>
HK/2010/06	<ul> <li>Pile head breaking</li> <li>Platform Disassembly</li> <li>Dredging</li> <li>Bored Pile cutting</li> </ul>	<ul> <li>To conform the installation and setting as in the silt screen and silt curtain deployment plan</li> <li>To space out noisy equipment and position as far as possible from sensitive receiver.</li> <li>Daily visual inspection of silt screen and silt curtain to ensure its operation properly</li> </ul>

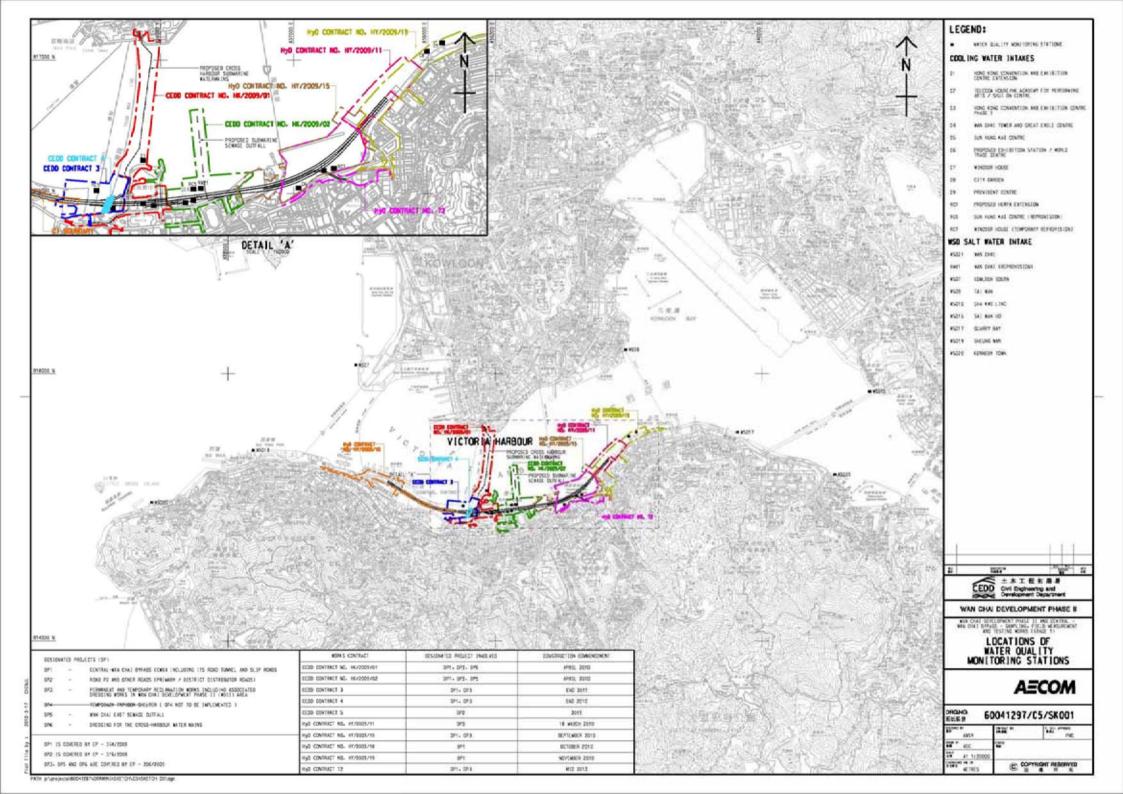
# **Lam Geotechnics Limited**

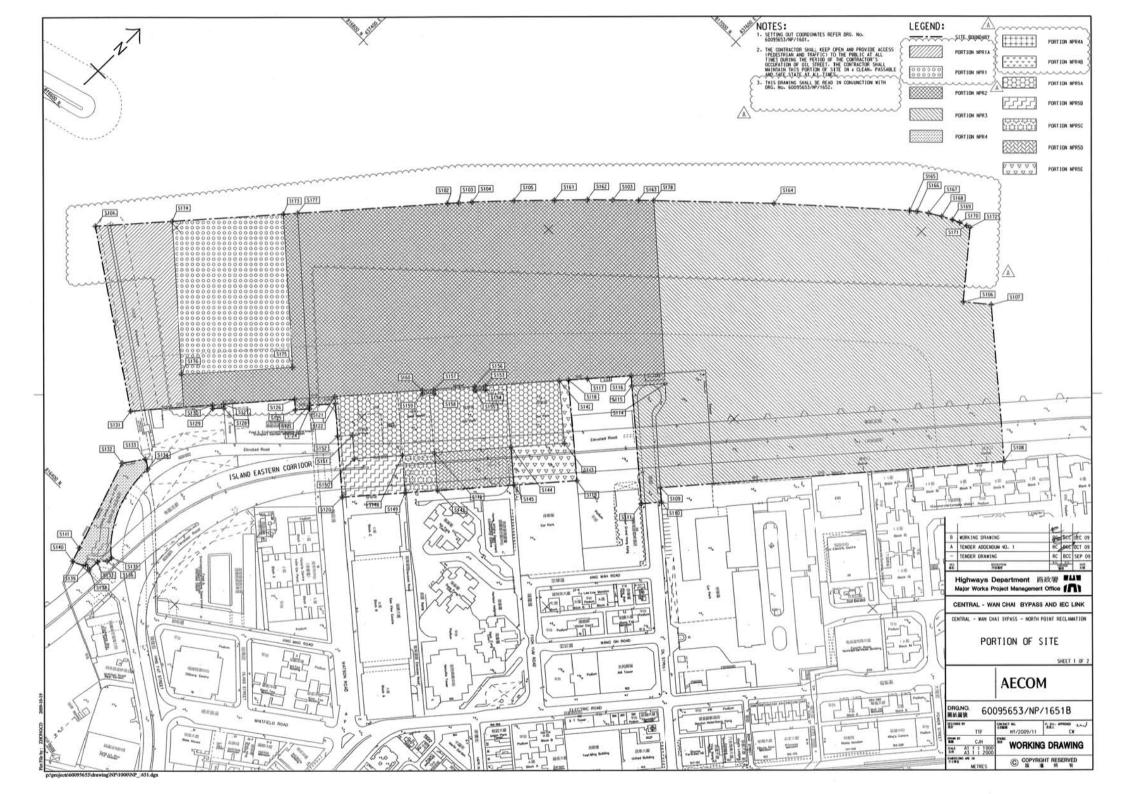
Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Monthly EM&A Report (November2012)

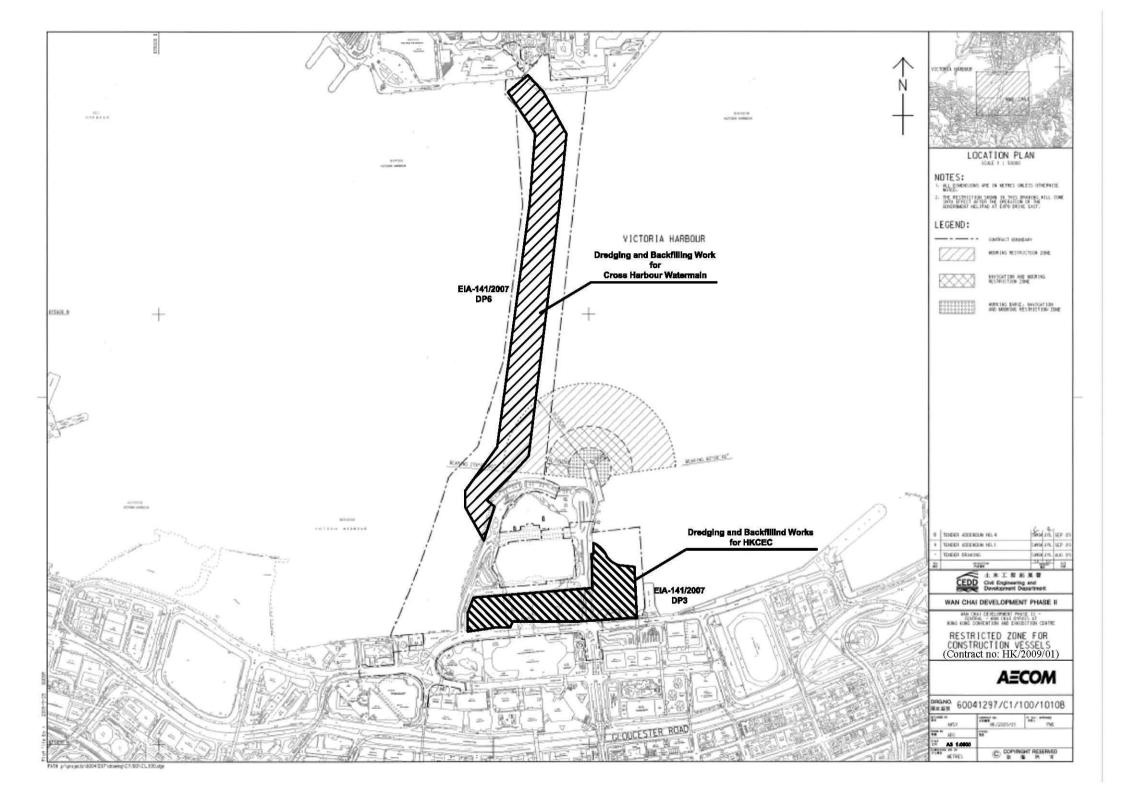
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/19	<ul> <li>Construction works for Box Culvert T</li> <li>Marine Piling</li> <li>Construction of 1500</li></ul>	To conform the installation and setting as in the silt screen and silt curtain deployment plan

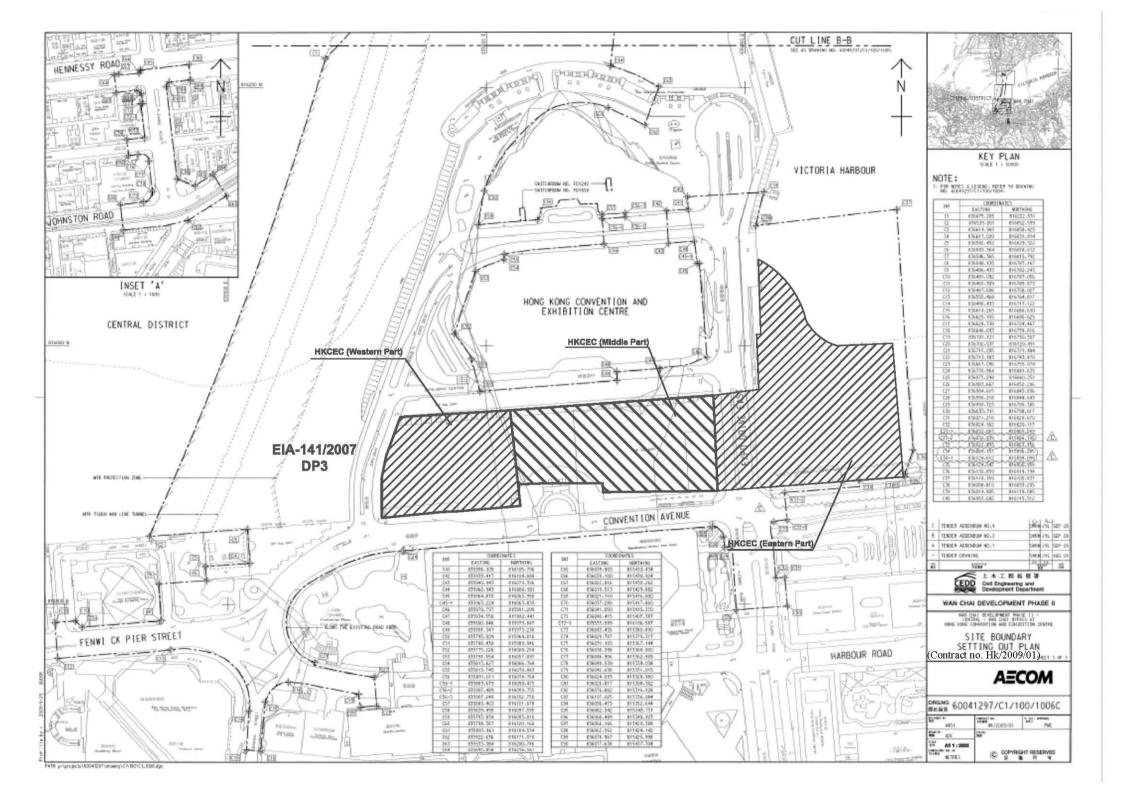
Figure 2.1

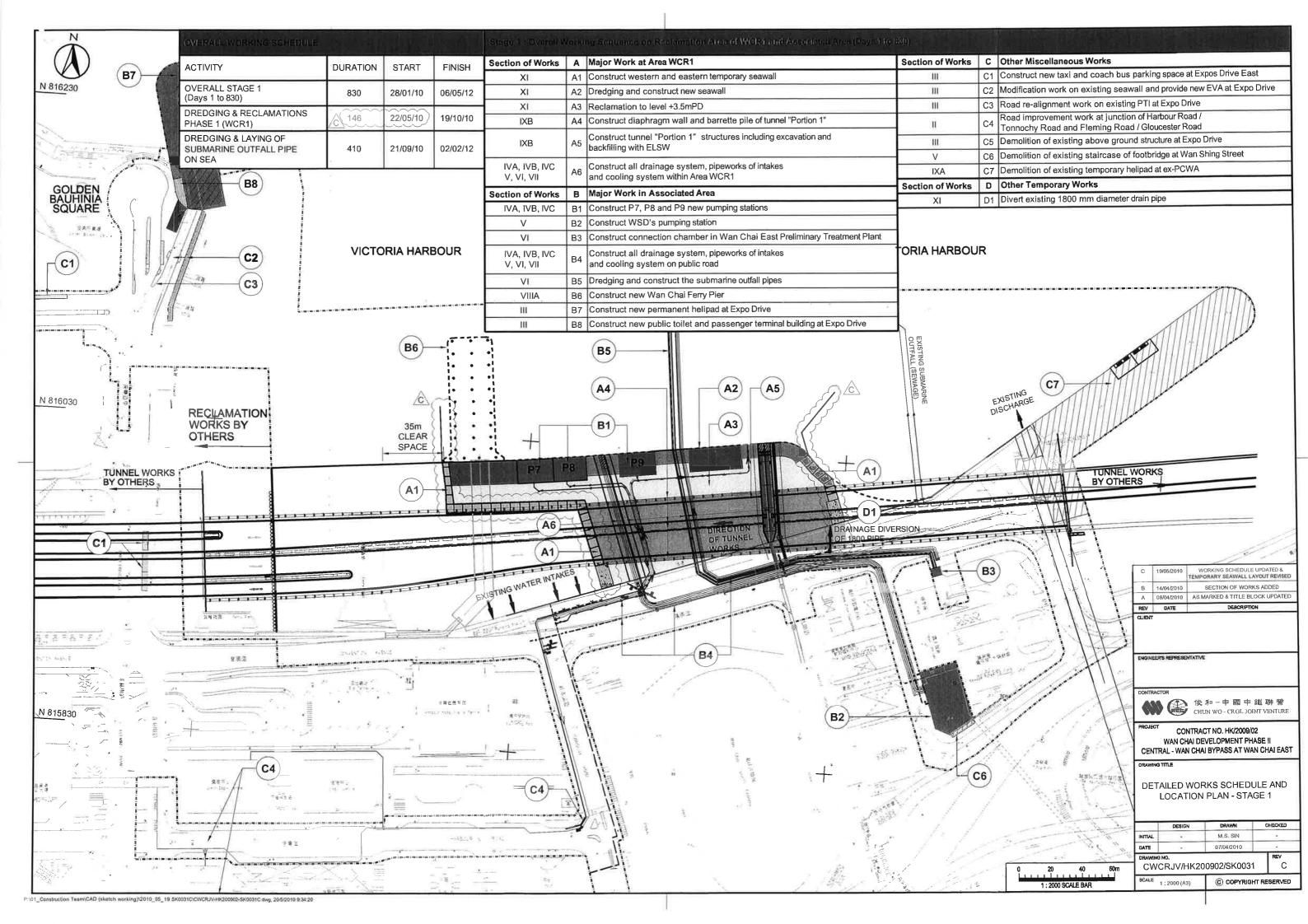
Project Layout

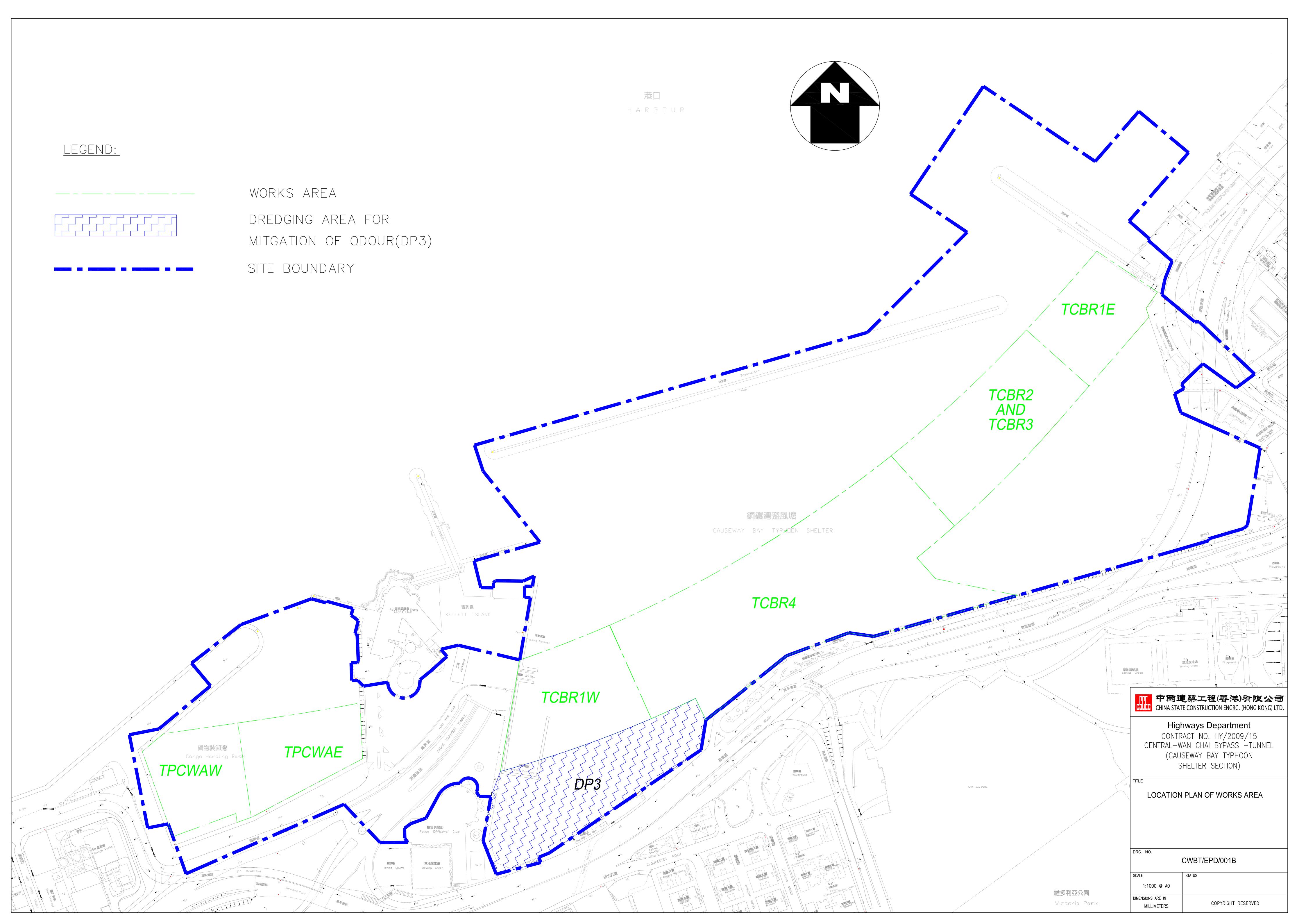


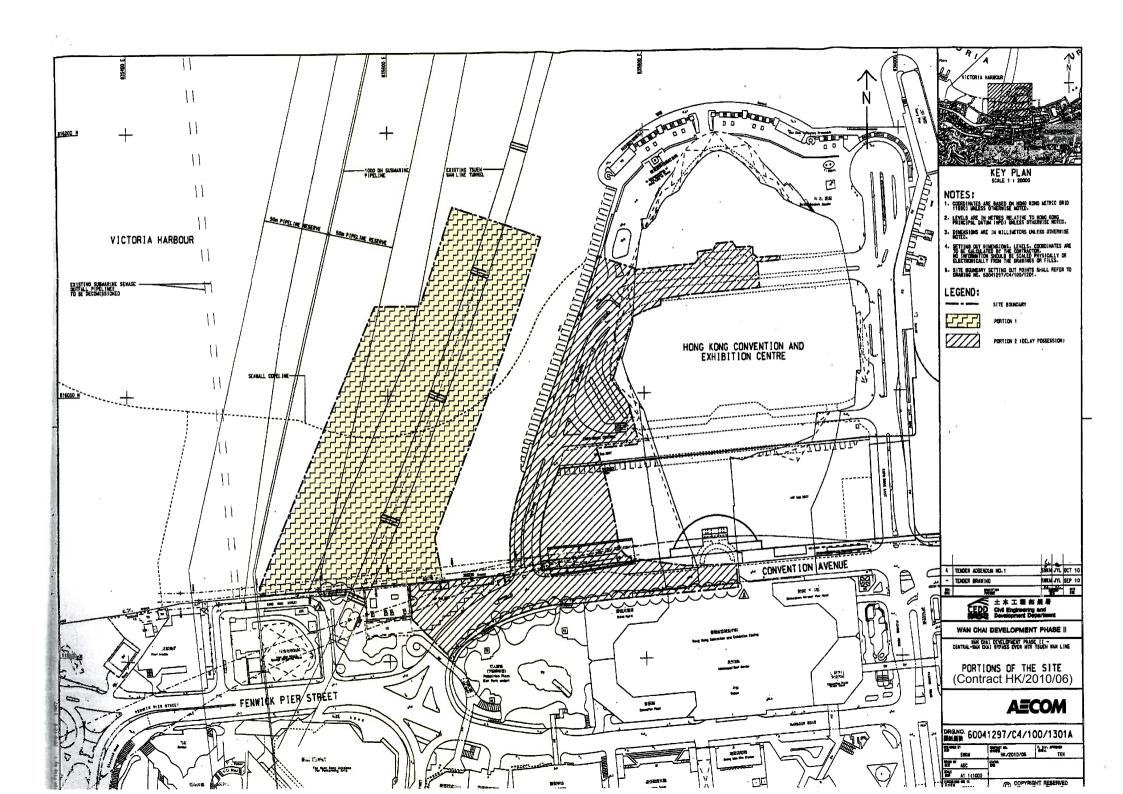






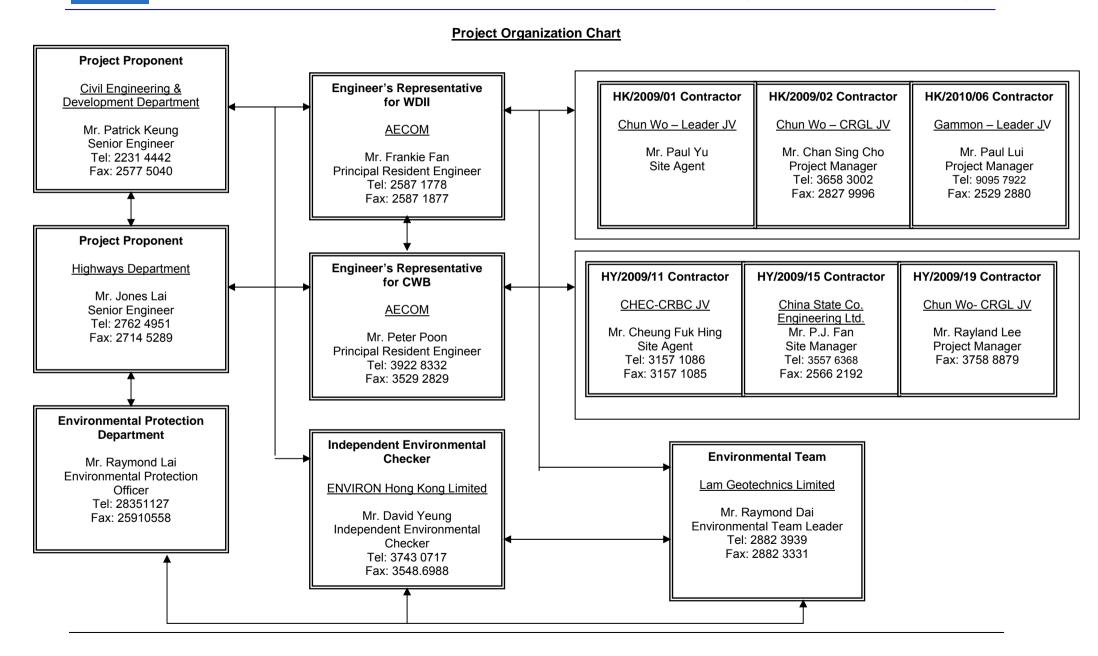






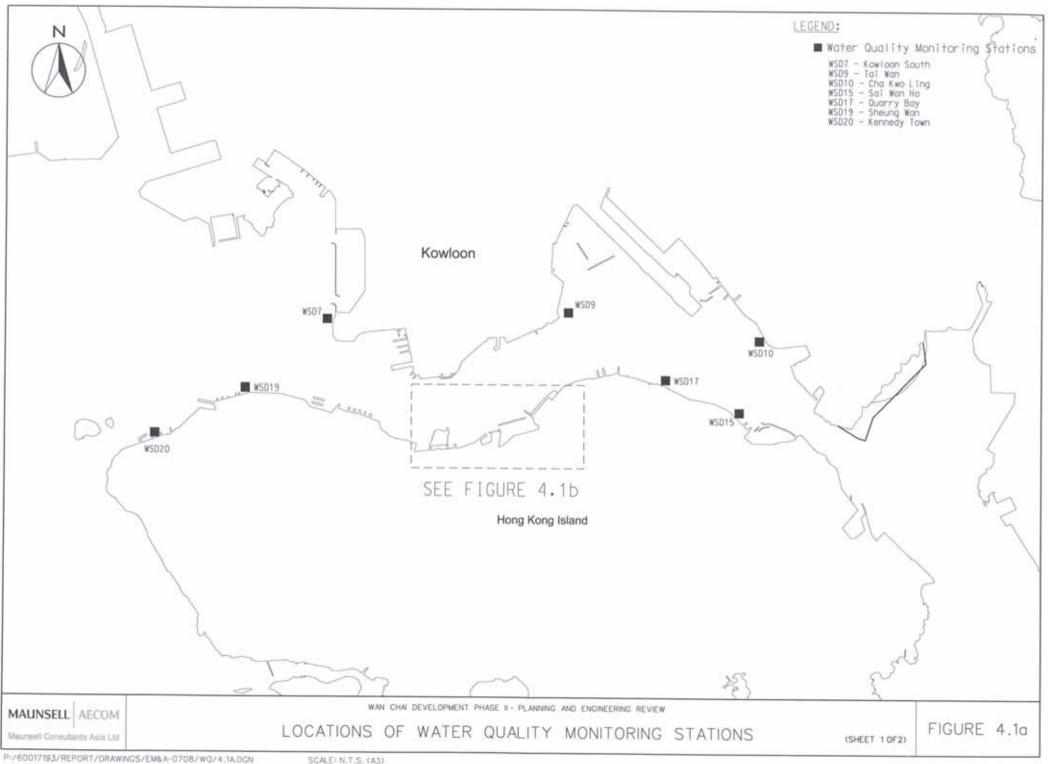
# Figure 2.2

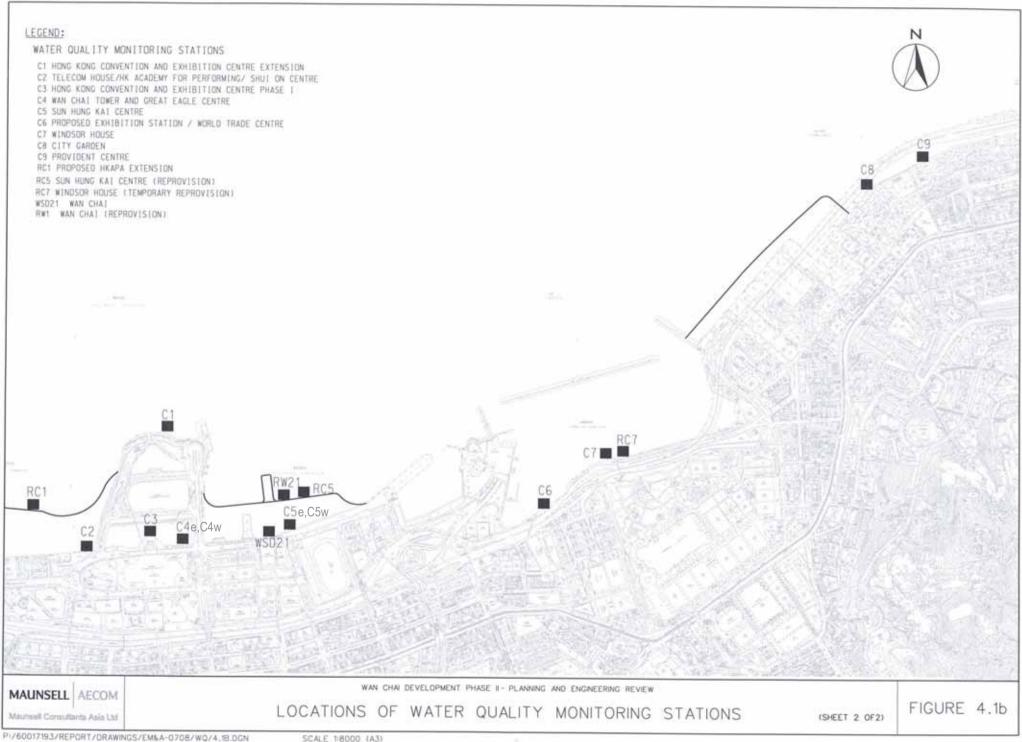
**Project Organization Chart** 

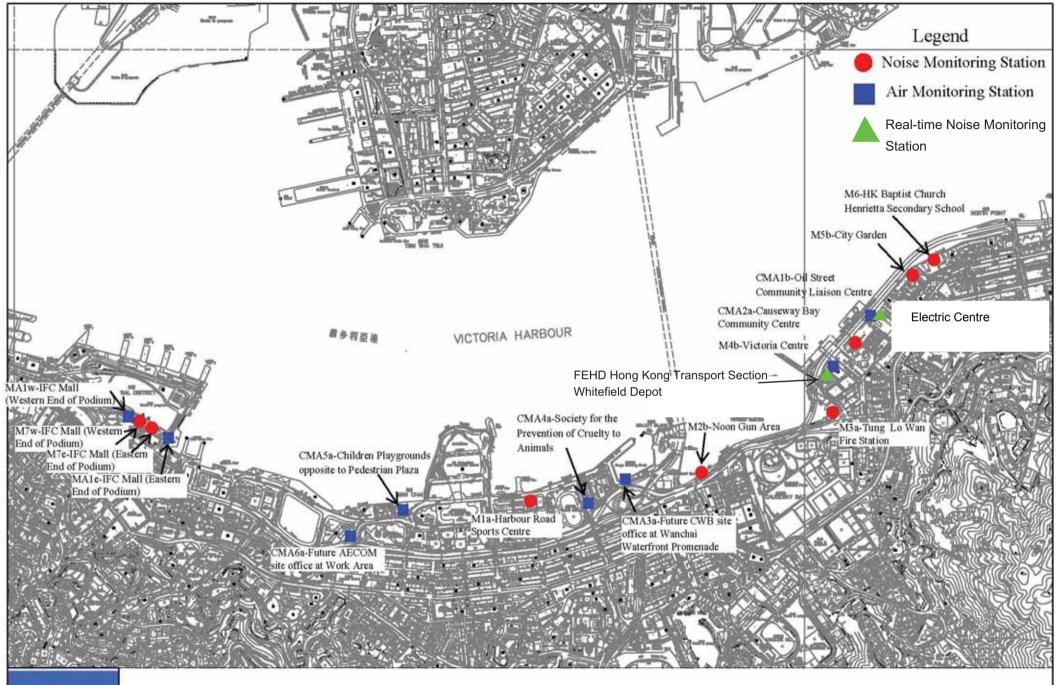


# Figure 2.3

**Locations of Monitoring Stations** 

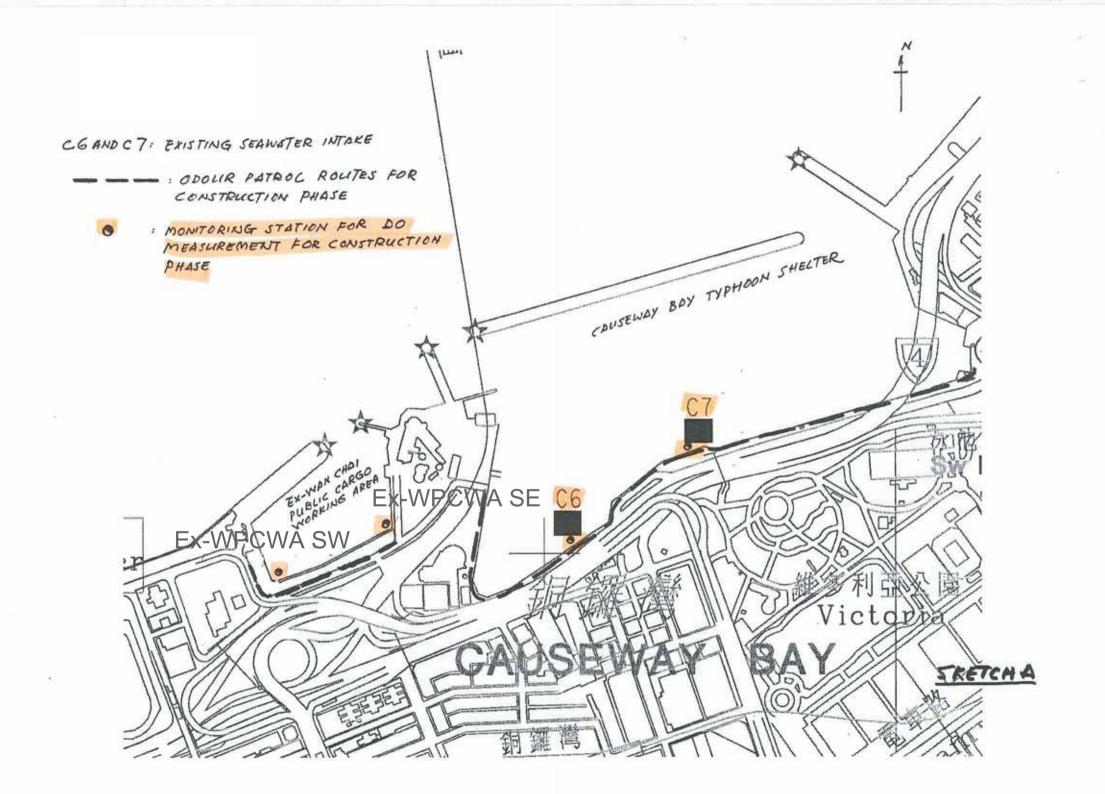


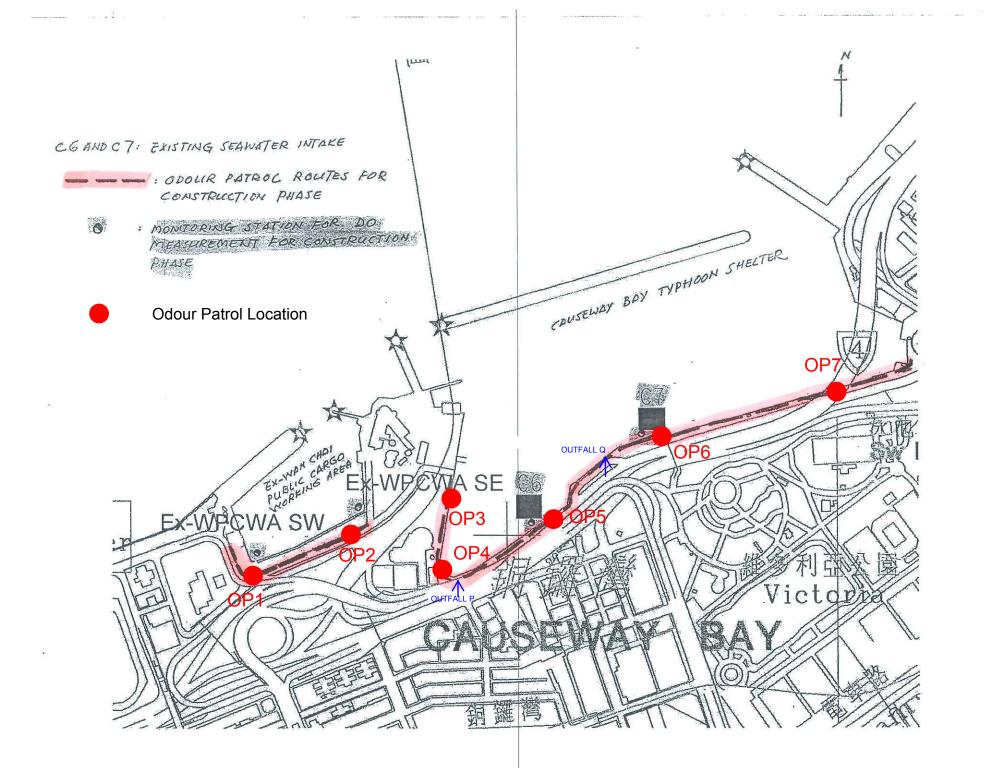


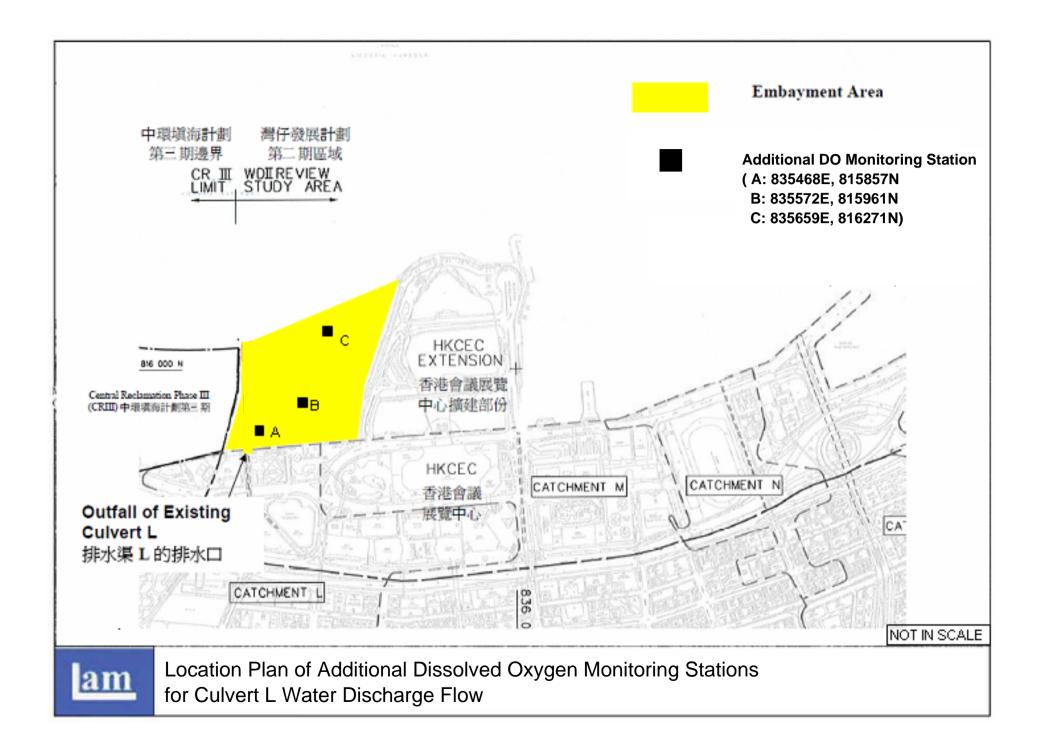


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Location plan of Environmental Monitoring Stations







**Environmental Mitigation Implementation Schedule** 

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Environmental Mitigation Implementation Schedule

### Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation and Guidelines
		8	Agent	Des	C	o	Dec	and Guidelines
Constructio								
For the Who	ole Project							
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		٨			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
2111111		Doewion, Timing		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 <sup>2</sup>		√			EIAO-TM
Operation I	Phase	I	I	l	1	1	1	
For the Who	ole Project		·					·

<sup>&</sup>lt;sup>1</sup> CEDD will identify an implementation agent.

 $<sup>^{\</sup>rm 2}$  CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zarra ominina i i oceonom vicuom con vicuom co			Des	C	0	Dec	and Guidelines
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 <sup>1</sup>			√		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
S3.6.53 -	The design parameters of the East and Central Ventilation	East and Central	HyD			1		
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			1		EIAO-TM

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

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 $\label{thm:chain} \mbox{Wan Chai Development Phase II and Central-Wanchai Bypass}$ 

- Sampling, Field Measurement and Testing Works (Stage 2)

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#### Table A13.2 Implementation Schedule for Noise Control

Construction Phase	EIA Ref	<b>Environmental Protection Measures / Mitigation Measures</b>	Location / Timing	Implementation Agent	Des	1	entati ges* O	on Dec	Relevant Legislation and Guidelines
Constituction I mast	Constructio	n Phase							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation		
22.2.10.	Zivi oznacima 11000000 izanom oz viniginom izanom oz	Location / Timing	Agent	Des	C	0	Dec	and Guidelines	
S4.9.4	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.</li> </ul>	Work Sites / During Construction	Contractor		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			EIAO-TM, NCO	
For DP1 –	CWB (Within the Project Boundary)								

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	О	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		V			EIAO-TM, NCO
	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		V			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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation	
	8		Agent	Des	C	0	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)  Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:  • Installation of a new pipeline (land section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks:  • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		1			EIAO-TM, NCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
			Agent	Des	C	0	Dec	
Operation 1	Phase							
For DP1 -	CWB (Within the Project Boundary)							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	Relevant Legislation		
			Agent	Des	C	О	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 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	Near North Point / Before commencement of operation of road project	HyD	√ √	√	√		EIAO-TM	
	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  about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC	In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	√	√#				

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta		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					
		Temple	Tin Hau Temple					

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

<sup>#</sup> 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	Implementation Stages*				Relevant Legislation
LIII KCI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	C	0	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		√			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		1			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		1			EIAO-TM, WPCO

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Prot	tection Measures / N	Aitigation	ı Measures		Location /	Implementation	Ir	nplem Sta	entati ges*	ion	Relevant Legislation
						Timing	Agent	Des	C	О	Dec	and Guidelines
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.				Work site / During the construction period	Contractor		√			EIAO-TM, WPCO	
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface					Work site / During the construction	Contractor		<b>√</b>			EIAO-TM, WPCO
	and extending down the HKCEC1 communication discharge flows from contractor will man HKCEC2W are carri	mences. The barr m Culvert L to the intain this barrier	rier will outside until th	channel the of the emb	he stormwater payment. The tion works in	period						
S5.8, Figure 5.3	,				Work site / During the construction period	Contractor		<b>V</b>			EIAO-TM, WPCO	
	Reclama	tion Area		m Dredging Rate m³ per hour (for 16 hrs	Maximum Dredging Rate (m³ per week)							
	per day)											
	Dredging along seawall or breakwater											
	Causeway Bay TBW 1,500 94 10,500											
	Shoreline Zone	TCBR	6,000	375	42,000							
	PCWA Zone		5,000	313	35,000							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	C	О	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)         6,000         375         42,000           HKCEC Shoreline Zone (HKCEC)         HKCEC Stage 1 & 3         1,500         94         10,500           (HKCEC)         HKCEC Stage 2         6,000         375         42,000           Cross Harbour Water Mains         1,500         94         10,500           Wan Chai East Submarine Sewage Pipeline         1,500         94         10,500							
	Note: 1,500 m <sup>3</sup> per day shall be applied for construction of the western seawall of WCR1.							
S5.8, Figure 5.3	Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBRIW, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater intakes at interim construction stages as stated below:    Interim Construction   Location of Applications	Work site / During the construction period	Contractor		1			EIAO-TM, WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	<b>S</b>	Timing	Agent	Des	C	О	Dec	and Guidelines
	TBW, NP and Water Mains Zone    Convention and Exhibition Centre Phase I, Telecon House / HK Academy for Performing Arts / Shun Or 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, Telecon House / HK Academy for Performing Arts / Shun Or Centre, Wan Chai Tower / Revenue Tower Immigration Tower and Sun Hung Kai Centre (Cooling water intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Governmen 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, Excelsio Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	Other mitigation measures include:  • mechanical grabs, if used, shall be designed and maintained to avo spillage and sealed tightly while being lifted. For dredging of an contaminated mud, closed watertight grabs must be used;  • all vessels shall be sized so that adequate clearance is maintained betwee vessels and the seabed in all tide conditions, to ensure that und	construction period	Contractor		1			ProPECC PN 1/94; WPCO (TM-DSS)
	turbidity is not generated by turbulence from vessel movement propeller wash;  all hopper barges and dredgers shall be fitted with tight fitting seals	or						
	their bottom openings to prevent leakage of material;  construction activities shall not cause foam, oil, grease, scum, litter other objectionable matter to be present on the water within the site dumping grounds;	or						
	loading of barges and hoppers shall be controlled to prevent splashing dredged material into the surrounding water. Barges or hoppers shall n be filled to a level that will cause the overflow of materials or pollut- water during loading or transportation; and	ot						

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		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

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
22.7.10.7	Zinyi olimetikii 1 tottottoi intensii tot, intensii tot	Timing	Agent	Des	C	0	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 Sgenerated 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

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EIA Ref	Fr	nvironmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	ProPECC PN 1/94; WPCO (TM-DSS)
LIA KU	Li	ivitolimental Protection (vicasures / ivitigation (vicasures	Timing	Agent	Des	C	0	Dec	
For the Wh	ole .	Project					•		
S5.8	•	Construction Runoff and Drainage	Work site	Contractor		<b>V</b>			,
	•	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						wico (im-bss)
	•	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							

 $<sup>^{\</sup>rm 3}$  CEDD will identify an implementation agent.

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- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
	8	Timing	Agent	Des	C	О	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		1			WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
2111101	23. To the total of the total o	Timing	Agent	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	<b>V</b>	V			WPCO
Operation	Phase	I.	l.		1		1	<u>I</u>
	B (within the Project Boundary)							
\$5.8	For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO:  • The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.	CWB/During design and operational period	HyD/TD <sup>3</sup>	√ 		√		WPCO
	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,							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	entatio	on	Relevant Legislation
	Zana omitoria a control a	Timing	Agent	Des C O Dec	and Guidelines		
	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.						

<sup>\*</sup> Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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

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- Sampling, Field Measurement and Testing Works (Stage 2)

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*		Relevant Legislation		
		g	Agent	Des	C	o	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		√			
For the Wh	ole Project	1						1

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Ent itel	Environmental Protection Measures / Mitigation Measures	Document Timing	Agent	Des	C	О	Dec	and Guidelines
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, recycled and disposed of (including the disposal sites).	Work site / During the construction period	Contractor		1			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
		g	Agent	Des	C	О	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;  • to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;  • any unused chemicals or those with remaining functional capacity shall be recycled;  • use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material.  • prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;  • proper storage and site practices to minimise the potential for damage or contamination of construction materials; and  • plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Work site / During planning and design stage, and construction stage	Contractor	1	7			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir		entati ges*	on	Relevant Legislation and Guidelines
		_	Agent	Des	C	0	Dec	and Guidennes
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		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
\$6.7.12	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		1			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	
22.7.1.0.	Zarra omnericar i recession racessares, racegurous racessares	200mion, 1mmig	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	
\$6.7.14	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.	Work site / During the construction period	Contractor		1			ProPECC PN 1/94	
	If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.								
	If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal.								

<sup>\*</sup> 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
Litter	Environmental Protection Neusures / Mitigation Neusures	Location / Timing	Agent	Des	C	0	Dec	and Guidelines
Constructi								
For the Wh	nole 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	<b>V</b>				"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	<b>V</b>				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		g	Agent	Des	C	o	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

Appendix 5.	٩p	pendix	3.	•
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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
EIA KCI	Environmental Proceedon Measures / Mitigation Measures	Location / Timing	Agent	Des	C	0	Dec	and Guidelines
	Air Quality Mitigation Measures     The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system.     The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations.     All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement.     Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.							
	Noise Mitigation Measures     The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers.     Simultaneous operation of mixing facilities and other equipment shall be avoided.     Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers.     Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Stages			Relevant Legislation	
	8		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.							

<sup>\*</sup> 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	res Location / Timing Implementation			nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	C	O	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	<b>√</b>				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.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
22.7 10.7	Environmental Frotestical Medical Co.	Bookin, Timing	Agent	Des	Des C O			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		√			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	Iı	nplem Sta	entati ges*	ion	Relevant Legislation
2111101	Zaria ominera i rottotton i zenom co / riangunon i zenom co	Location / Timing	Agent	Des	C	О	Dec	and Guidelines
8.9.7.6	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	Work site / during construction phase	Contractor		√ 			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.7	effectively implemented.  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		<b>√</b>			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		√			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

<sup>\*</sup>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	Ir		entati ges*	on	Relevant Legislation and Guidelines
					Des	C	О	Dec	
Construction	Phase			•					•
For the Whole	Project								
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	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	√	<b>√</b>			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	<b>√</b>			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	<b>√</b>	<b>√</b>			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		√			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		√			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)	1						
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	<b>V</b>	<b>V</b>			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	<b>V</b>	1			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	1	1			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		1			EIAO TM

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	О	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	or Roads (Road P2)							
Table 10.5		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	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	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	<b>√</b>			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		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 DP5 - War	n Chai l	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	СМЗ	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		<b>V</b>			EIAO TM

Monthly EM&A Report

- Sampling, Field Measurement and Testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	О	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 Table 10.13	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		√			EIAO TM
	ss-Harb	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		V			EIAO TM
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 Table 10.13	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se					-			
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	1	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	<b>V</b>	1	1		ETWB TCW 2/2004

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing Implementati Agent	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/	<b>√</b>	√	√		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 <u></u>	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	CEDD/HyD	√	√	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	1		ETWB TCW 2/2004
For DP1 - CW	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	√		√		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, 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	<b>V</b>	1	1		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	1	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	1	1	1		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

<sup>&</sup>lt;sup>4</sup> CEDD will identify an implementation agent

- Sampling, Field Measurement and Testing Works (Stage 2)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			on	Relevant Legislation and Guidelines
					Des	C	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	1		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		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	CEDD/HyD		√	√		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	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_	√	V	<b>√</b>		ETWB TCW 2/2004

<sup>\*</sup>Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 3.1

 $<sup>^{\</sup>rm 5}$  CEDD will identify an implementation agent

## Appendix 4.1

Action and Limit Level



#### **Lam Geotechnics Limited**

### **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) <sup>Note 1</sup>

#### 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 $\mu$ g/m <sup>3</sup>	n $\mu$ g/m <sup>3</sup> 24-hour TSP Level in $\mu$ g	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b Note 2	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a Note 2	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5a Note 2	332.0	500	181.0	260
CMA6a Note 2	300.1	500	187.3	260

#### Note 2:

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

### Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season					
r ai ailletei 3	Action	Action Limit		Limit				
WSD Salt Water Intake								
SS in mg L <sup>-1</sup>	13.00	14.43	16.26	19.74				
Turbidity in NTU	8.04	9.49	10.01	11.54				
DO in mg/L	3.66	3.28	3.17	2.63				
Cooling Water Inta	Cooling Water Intake							
SS in mg L <sup>-1</sup>	15.00	22.13	18.42	27.54				
Turbidity in NTU	9.10	10.25	11.35	12.71				
DO in mg/L	3.36	2.73	3.02	2.44				

#### Remarks:

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

#### Action and Limit Levels for Odour Patrol

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

### Appendix 4.2

Copies of Calibration Certificates



4 Pages 23551 Page Certificate No.

Customer: Lam Geotechnics Limited

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

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

Item Tested

Description : Digital Sound Level Meter

Manufacturer: B&K

: 2100736 Serial No. Model : Type 2236

**Test Conditions** 

Supply Voltage : --Date of Test: 12-Jun-12

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

**Test Specifications** 

Calibration check.

Ref. Document/Procedure: Z01.

**Test Results** 

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

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

Main Test equipment used:

Traceable to Equipment No. Description Cert. No. SCL-HKSAR Multi-Function Generator C101623 S017

NIM-PRC & SCL-HKSAR Sound Level Calibrator 15136 S024

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 :

12-Jun-12

Date:

This Certificate is issued by:

Hong Kong Calibration Ltd.

Tel: 2425 8801 Fax: 2425 8646

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



Certificate No. 23551

Page 2 of 4 Pages

### Results:

### 1. SPL Accuracy

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

IEC 651 Type 1 Spec. :  $\pm$  0.7 dB

Uncertainty:  $\pm 0.1 dB$ 

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

UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	113.8	-0.1	± 0.7 dB
130	104.0	103.9	0.0	
120	94.0	93.9 (Ref.)		
110	84.0	83.9	0.0	
100	74.0	73.9	0.0	
90	64.0	63.9	0.0	
90	54.0	53.9	0.0	

Uncertainty: ± 0.1 dB



Certificate No. 23551

Page 3 of 4 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	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)		
	95.0	94.8	-0.1	± 0.2 dB

Uncertainty: ± 0.1 dB

## 4. Frequency Weighting

## A weighting

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

Uncertainty: ± 0.1 dB

### 5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^2$	40.0	39.8	
$1/10^3$	40.0	39.7	± 1.0 dB
1/10 <sup>4</sup>	40.0	39.5	

Uncertainty: ± 0.1 dB



Certificate No. 23551

Page 4 of 4 Pages

### 6. Filter Response

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

Uncertainty: ± 0.2 dB

Remark: 1. UUT: Unit-Under-Test

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

3. Atmospheric Pressure: 992 hPa

----- END -----



25144 Certificate No.

Page

2 Pages

Customer: Lam Geotechnics Limited

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

Order No.: Q22033

Date of receipt

2-Aug-12

Item Tested

**Description**: Sound Level Calibrator

Manufacturer: B & K

Modei

: Type 4230

Serial No.

: 1411076

**Test Conditions** 

Date of Test: 10-Aug-12

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.

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

Main Test equipment used:

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

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

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

Calibrated by :

10-Aug-12

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

The copyright of this certificate is owned by Hong Kong Calibration Ltd., It may not be reproduced except in full.



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

# TEST REPORT Performance Check / Calibration of Turbidity Meter

Date of issue: 04-10-2012

Page 1 of 1 page(s)

Castco LRN: EN0120924-1

### Sample details as supplied by customer:-

Customer: Lam Geotechnics Ltd.

Customer Ref. No.: --

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

Contract No.: --

Job Title: --

Sample Identification No.: --

Date Sampled: --

#### Laboratory Test Results:-

Date of sample received: 24-09-2012

Test period: 26-09-2012

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

#### Remark(s):

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

Checked by:

Li Yiu Wah

Certified by:

MA HIU TUNG

Assistant Technical Manager

End of Report

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



# ALS Technichem (HK) Pty Ltd

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MS EMILY KONG

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

PROJECT:

WORK ORDER:

HK1222848

LABORATORY: DATE RECEIVED: HONG KONG 28/08/2012

DATE OF ISSUE:

04/09/2012

### **COMMENTS**

It is certified that the item under calibration/checking has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal aceptance criteria of ALS will be followed.

Scope of Test:

Dissolved Oxygen, pH, Salinity and Temperature

Description:

Multimeter YSI

Brand Name: Model No.:

YSI Professional Plus

Serial No.:

11F100421

Equipment No.:

Date of Calibration: 04 September, 2012

### **NOTES**

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

### ISSUING LABORATORY: HONG KONG

### Address

ALS Technichem (HK) Pty Ltd

Phone:

852-2610 1044

11/F Chung Shun Knitting Centre

Fax:

852-2610 2021

1-3 Wing Yip Street

Email:

hongkong@alsglobal.com

Kwai Chung HONG KONG

Mr Chan Kwok Fai.

Laboratory Manager - Hong Kong

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Page 1 of 2

### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue:

HK1222848 04/09/2012

Client:

LAM GEOTECHNICS LIMITED



Description:

Multimeter

Brand Name:

YSI

Model No.:

YSI Professional Plus

Serial No.:

11F100421

Equipment No.:

\_\_

Date of Calibration:

04 September, 2012

Date of next Calibration:

04 December, 2012

Parameters:

**Dissolved Oxygen** 

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)			
1.64	1.51	0.12			
1.64	1.51	-0.13			
4.71	4.61	-0.10			
8.19	8.02	-0.17			
	9-2007/4				
	Tolerance Limit (±mg/L)	0.20			

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)		
4.0	3.97	-0.03		
7.0	6.95	-0.05		
10.0	9.94	-0.06		
	Tolerance Limit (±unit)	0.20		

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)		
0	0.00			
10	9.86	-1.4		
20	20.46	2.3		
30	29.25	-2.5		
	Tolerance Limit (±%)	10.0		

**Temperature** 

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C )	Tolerance (°C)		
8.0	7.6	-0.4		
27.0	27.3	0.3		
40.0	41.0	1.0		
	Tolerance Limit (°C)	2.0		

Mr Chan Kwok Fai, Godfrey Laboratory Manager – Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Page 2 of 2



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

	l 19, 2012 Tisch	Rootsmeter Orifice I.I	D / = .	138320 0005	Ta (K) - Pa (mm) -	298 751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3840 0.9760 0.8730 0.8340 0.6890	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)
0.9850 0.9809 0.9788 0.9777 0.9725	0.7117 1.0050 1.1212 1.1723 1.4115	1.4066 1.9892 2.2240 2.3326 2.8132		0.9957 0.9915 0.9894 0.9883 0.9831	0.7194 1.0159 1.1333 1.1850 1.4268	0.8903 1.2591 1.4078 1.4765 1.7807
Qstd slo intercep coeffici	t (b) =	2.01145 -0.02803 0.99995		Qa slop intercep coeffici	t (b) = ent (r) =	1.25953 -0.01774 0.99995
v axis =	SORT [H2O(	- Pa/760)(298/	Ta)]	'y axis =	SQRT [H20 (	[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 =  $1/m\{[SQRT H2O(Ta/Pa)] - b\}$ 



Location		CIVIA ID		Calbration Date .				. 10-001-12			
Equipment no.		EL452			Calbratio	on Due Dat	:	16-Dec-12			
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER								
			A	mbient Co	ondition						
Temperature, T <sub>a</sub>		301		Kelvin	Pressure, P	a		1010	mmHg		
			Orifice Tra	nsfer Stan	dard Informa	ation					
Equipment No.		EL086		Slope, m <sub>c</sub>	2.0114	45 II	ntercept, bo	;	-0.02803		
Last Calibration Date		19-Jul-1	2		(HxF	P <sub>a</sub> / 1013	2.3 x 298	/T <sub>a</sub> )	1/2		
Next Calibration Date		19-Jul-1	3		=	$m_c \times G$	$Q_{std} + b_c$				
			C	alibration	of RSP						
Calibration	Mar	nometer R	eading	C	) <sub>std</sub>	Continuo	us Flow		IC		
Point	Н (	inches of	water)	(m <sup>3</sup>	/ min.)	Record	ler, W	(W(P <sub>a</sub> /10	013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	x-	axis	(CF	M)		Y-axis		
1	6.1	6.1	12.2	1.	7389	62	2		61.5897		
2	5.0	5.0	10.0	1.9	5757	55	5		54.6360		
3	4.1	4.1	8.2	1.4	4281	48	3		47.6824		
4	2.5	2.5	5.0	1.	1182	36	6		35.7618		
5	1.4	1.4	2.8	0.8	8403	25	5		24.8346		
By Linear Regression of	Y on X										
	Slope, m	=	40.7	641	Inte	ercept, b =	-9	9.7338			
Correlation Co	oefficient*	=	0.99	994							
Calibration	Accepted	=	Yes/l	Ne**							
* if Correlation Coefficier	nt < 0.990,	, check and	I recalibratio	n again.							
** 5 1 .											
** Delete as appropriate.											
Remarks :											
		•				<u> </u>					
Calibrated by		Sam				Checked	ю	:	Derek Lo		
Date :	1	6-Oct-12				Date		:	16-Oct-12		



Location :		CMA5a		Calbration Date : 1					16-Oct-12		
Equipment no.		EL380		Calbration Due Dat : 16					16-Dec-12		
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER								
			A	mbient Co	ondition						
Temperature, T <sub>a</sub>		301		Kelvin	Pressure, P	a		1010	) mmHg		
			Orifice Tra	nsfer Stan	dard Informa	ation					
Equipment No.		EL086		Slope, m <sub>c</sub>	2.0114	45	Intercept, b	С	-0.02803		
Last Calibration Date		19-Jul-1	2		(HxF	P <sub>a</sub> / 10	13.3 x 298	/ T	a) <sup>1/2</sup>		
Next Calibration Date		19-Jul-1	3				$\times Q_{std} + b_{d}$				
			C	alibration	of RSP						
Calibration	Mar	nometer R	eading	d	Q <sub>std</sub>	Continuous Flow		Continuous Flow			IC
Point	Н (	inches of	water)	(m <sup>3</sup>	/ min.)	Rec	order, W	(W(F	P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	x-	axis	(	(CFM)	Y-axis			
1	6.1	6.1	12.2	1.	7389		57		56.6228		
2	5.0	5.0	10.0	1.	5757		52		51.6559		
3	3.8	3.8	7.6	1.3	3754		45		44.7022		
4	2.4	2.4	4.8	1.0	0959		35	34.7684			
5	1.5	1.5	3.0	0.	8693		27		26.8213		
By Linear Regression of	Y on X										
	Slope, m	=	34.5	420	Inte	ercept, b	=	3.063	33		
Correlation Co	oefficient*	=	0.99	997							
Calibration	Accepted	=	Yes/	Ne**							
* if Correlation Coefficier	nt < 0.990,	check and	d recalibratio	n again.							
** Delete as appropriate.											
Remarks :											
Calibrated by		Sam				Chec	ked by	:	Derek Lo		
Date :	1	6-Oct-12				Date		:_	16-Oct-12		



Location :		CMA4a			Calbration Date			: 16-Oct-12			
Equipment no.		EL390			Calbration Due Dat			:	16-Dec-12		
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER								
			Α	mbient Co	ndition						
Temperature, T <sub>a</sub>		301	l	Kelvin	Pressure, P	a		1010	mmHg		
			Orifice Tra	nsfer Stan	dard Informa	ation					
Equipment No.		EL086		Slope, m <sub>c</sub>	2.0114	45	Intercept, b	С	-0.02803		
Last Calibration Date		19-Jul-1	2		(HxF	P <sub>a</sub> / 101	3.3 x 298	/T <sub>a</sub>	) 1/2		
Next Calibration Date		19-Jul-1	3		=	$m_c x$	$Q_{std} + b_{o}$	;			
			C	alibration	of RSP						
Calibration	Mar	nometer R	eading	C	) <sub>std</sub>	Continu	ontinuous Flow		Continuous Flow		IC
Point	Н (	inches of	water)	(m <sup>3</sup>	/ min.)	Recorder,		(W(P <sub>a</sub> /	1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)		
	(up)	(down)	(difference)	X-	axis	(C	(CFM)		Y-axis		
1	6.1	6.1	12.2	1.	7389		60		59.6030		
2	5.0	5.0	10.0	1.5	5757		53		52.6493		
3	3.8	3.8	7.6	1.3	3754		44		43.7088		
4	2.4	2.4	4.8	1.0	0959		34		33.7750		
5	1.4	1.4	2.8	0.8	3403		23		22.8478		
By Linear Regression of	Y on X										
	Slope, m	=	40.4	660	Inte	ercept, b	=	11.1111	1		
Correlation Co	oefficient*	=	0.99	994							
Calibration	Accepted	=	Yes/	Ne**							
* if Correlation Coefficier	nt < 0.990.	. check and	d recalibratio	n again.							
** Delete as appropriate.											
Remarks :											
Calibrated by		Sam				Check	ed by	:	Derek Lo		
Date :	1	6-Oct-12				Date		:	16-Oct-12		



Location :		CMA3a				ation Date	: 16-Oct-12		
Equipment no. :		EL888				Calbr	ation Due Dat	: _	16-Dec-12
								_	
CALIBRATION OF CON	ITINUOUS	S FLOW R							
	ı		Α	mbient Co	ondition				
Temperature, T <sub>a</sub>		301		Kelvin	Pressure, P	a		1010	) mmHg
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.		EL086		Slope, m <sub>c</sub>	2.0114	45	Intercept, b	С	-0.02803
Last Calibration Date		19-Jul-1	2		(HxF	P <sub>a</sub> / 10	13.3 x 298	/T	a) <sup>1/2</sup>
Next Calibration Date		19-Jul-1	3		=	$m_c$	$(Q_{std} + b_{c})$	:	
			C	alibration	of RSP				
Calibration	Mar	ometer R	eading	C	Q <sub>std</sub>	Contin	uous Flow	IC	
Point	Н (і	inches of	water)	(m <sup>3</sup>	/ min.)	Rec	order, W	(W(F	<sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up) (down) (diff				axis	(	CFM)		Y-axis
1			12.2	1.	7389		50		49.6691
2	4.7	4.7	9.4	1.	5281		42		41.7221
3	4.0	4.0	8.0	1.	4108	38			37.7485
4	2.4	2.4	4.8	1.0	0959		24	23.8412	
5	1.4	1.4	2.8	0.	8403		14	13.9074	
By Linear Regression of	Y on X								
	Slope, m	=	40.2	808	Inte	ercept, b	= -	19.90	65
Correlation Co	oefficient*	=	0.99	994					
Calibration	Accepted	=	Yes/	No**					
* if Correlation Coefficier	nt < 0.990,	check and	d recalibratio	n again.					
** Delete as appropriate.									
Remarks :									
Calibrated by		Sam				Chec	ked by	:	Derek Lo
Date	1	6-Oct-12				Date		: -	16-Oct-12
<del>-</del>								_	



Location :		CMA2a			16-Oct-12				
Equipment no.		EL449				Calbr	ation Due Dat	:	16-Dec-12
CALIBRATION OF COM	NTINUOUS	S FLOW R	ECORDER						
				mbient Co	ondition				
Temperature, T <sub>a</sub>		301	<u> </u>	Kelvin	Pressure, P	a		1010	mmHg
			0 'C T						
		=1.000			dard Inform				0.0000
Equipment No.		EL086		Slope, m <sub>c</sub>			Intercept, b		-0.02803
Last Calibration Date		19-Jul-1					13.3 x 298		) "-
Next Calibration Date		19-Jul-1	3		=	m <sub>c</sub> z	$x Q_{std} + b_c$	;	
			C	alibration	of RSP				
Calibration	Mar	nometer R	eading	d	) <sub>std</sub>	Contir	nuous Flow		IC
Point	Н (	inches of	water)	(m <sup>3</sup>	/ min.)	Rec	order, W	(W(P <sub>a</sub>	/1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-	axis	(	(CFM)		Y-axis
1	6.0	6.0	12.0	1.	7247		53		52.6493
2	5.0	5.0	10.0	1.5	5757		45		44.7022
3	4.0	4.0	8.0	1.4	4108		38		37.7485
4	2.5	2.5	5.0	1.	1182		26		25.8279
5	1.5	1.5	3.0	0.	8693		15		14.9007
By Linear Regression of	Y on X								
	Slope, m	=	43.3	273	Int	ercept, b	= -2	22.882	2
Correlation C	oefficient*	=	0.99	992					
Calibration	Accepted	=	Yes/	No**					
* if Correlation Coefficier	nt < 0.990,	, check and	d recalibratio	n again.					
** Delete as appropriate									
Remarks :									
		Sam				Chec	ked by	:	Derek Lo
Calibrated by	1	6-Oct-12				Date	•	. —	16-Oct-12
Date									



Location :		CMA6a				Calbr	ation Date	:	16-Oct-12			
Equipment no.		EL448				Calbr	ation Due Da	1:	16-Dec-12			
CALIBRATION OF CON	ITINUOUS	S FLOW R	ECORDER									
				mbient Co	ndition							
Temperature, T <sub>a</sub>		301		Kelvin	Pressure, P	a	Т	1010	mmHg			
			Orifice Tra	nsfer Stan	dard Informa	ation						
Equipment No.		EL086		Slope, m <sub>c</sub>	2.011	45	Intercept, b	С	-0.02803			
Last Calibration Date		19-Jul-1	2	$(HxP_a/1013.3x298/T_a)^{1/2}$								
Next Calibration Date		19-Jul-1	3	-			$(Q_{std} + b_{d})$					
			C	Calibration	of RSP							
Calibration	Mar	nometer R	eading	G	std	Contin	uous Flow		IC			
Point	Н (	inches of	water)	(m <sup>3</sup>	/ min.)	Rec	order, W	(W(P	<sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)			
	(up)	(down)	(difference)	X-	axis	(	CFM)		Y-axis			
1	6.0	6.0	12.0	1.	7247		61		60.5963			
2	5.0	5.0	10.0	1.5	5757		54		53.6427			
3	4.0	4.0	8.0	1.4	<b>1</b> 108		46		45.6956			
4	2.5	2.5	5.0	1.	1182		34		33.7750			
5	1.5	1.5	3.0	0.8	3693		23		22.8478			
By Linear Regression of	Y on X											
	Slope, m	=	43.8	163	Into	ercept, b	= -	15.39	16			
Correlation Co	oefficient*	=	0.99	996								
Calibration	Accepted	=	Yes/	No**								
* if Correlation Coefficier	nt < 0.990.	check and	d recalibratio	n again.								
				ga								
** Delete as appropriate.												
Remarks :												
Calibrated by		Sam				Chec	ked by	:_	Derek Lo			
Date :	1	6-Oct-12				Date		:	16-Oct-12			

### Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

# Contract No. HK/2011/07 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage2)

#### Tentative Environmental Monitoring Schedule November 2012

			November			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						27-No
						24hr TSP
28-Oct	29-Oc	t 30-Oct	31-Oct	1-Nov	2-Nov	3-No
				Noise monitoring		
				-		
					24hr TSP	
	1hr TSP					1hr TSP
	Impact WQM		Impact WQM		Impact WQM	Impact WQM
	Mid-flood: 6:05		Mid-ebb: 12:58		impast regin	Mid-ebb: 1:4
	Mid-ebb: 11:55	4	Mid-flood: 18:34		Mid-flood: 18:39	Wild Cob.
				0.11		40.11
4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-No
		Noise monitoring				
					24hr TSP(CMA2a,	
				24hr TSP	CMA5a)	
					1hr TSP	
	Impact WQM			Impact WQM		Impact WQM
		Mid-ebb: 3:58		Mid-ebb: 6:19		Mid-ebb: 9:0
	Mid-flood: 20:04			Mid-flood: 14:19		Mid-flood: 15:2
11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-No
		Noise monitoring				
			24hr TSP	24hr TSP(CMA2a)		
				1hr TSP		
	Impact WQM		Impact WQM			Impact WQM
	Mid-ebb: 10:50		Mid-ebb: 12:27			Mid-ebb: 2:1
	Mid-Flood: 16:38	3	Mid-flood: 17:56			Mid-flood: 9:2
18-Nov	19-Nov		21-Nov	22-Nov	23-Nov	24-No
		Noise monitoring				
		_				
		24hr TSP				
			1hr TSP			
	Impact WQM			Impact WQM		Impact WQM
	Mid-ebb: 4:00	<b>i</b>		Mid-flood: 14:16		Mid-flood: 15:3
	Mid-flood: 11:24			Mid-ebb: 20:29		Mid-ebb: 22:1
25-Nov	26-Nov	27-Nov	28-Nov		30-Nov	1-De
25-NOV	26-1101	27-NOV	28-NOV	29-Nov	30-NOV	1-De
				N-i		
		1		Noise monitoring		
		1				
	24hr TSP	l				24hr TSP
		1hr TSP				
	Impact WQM	1	Impact WQM	Impact WQM	Impact WQM	Impact WQM
	Mid-flood: 16:37			Mid-ebb: 0:27		Mid-ebb: 1:1:
	Mid-ebb: 23:27		Mid-flood: 17:27		Mid-flood: 18:01	

# Contract No. HK/2011/07 Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage2)

#### Tentative Environmental Monitoring Schedule December 2012

			Decening:	LU 1 L		
2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec
		Naine maritarine				
		Noise monitoring				
					24hr TSP	
	1hr TSP					1hr TSP
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb: 2:07		Mid-ebb: 3:23		Mid-ebb: 5:07	
	Mid-flood: 9:51		Mid-flood: 11:30		Mid-flood: 13:07	
9-Dec	10-Dec		12-Dec	13-Dec	14-Dec	15-Dec
		Noise monitoring				
				24hr TSP		
					1hr TSP	
	Impact WQM		Impact WQM			Impact WQM
	Mid-ebb: 9:30		Mid-flood: 16:45			Mid-ebb: 1:14
	Mid-flood: 15:16		Mid-ebb: 23:37			Mid-flood: 8:27
16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec
	Noise monitoring					
		24hr TSP				
			1hr TSP			24hr TSP
		Impact WQM		Impact WQM		Impact WQM
		Mid-ebb: 3:33		Mid-ebb: 5:01		Mid-flood: 13:52
		Mid-flood: 10:48		Mid-flood: 12:23		Mid-ebb: 21:12
23-Dec	24-Dec	25-Dec	26-Dec	27-Dec		
1						
				Noise monitoring		
				Noise monitoring		
	1hr TSP					
	Impact WQM		Impact WQM			
	Mid-flood: 15:10		Mid-flood: 16:18			
	Mid-ebb: 22:39		Mid-ebb: 23:42			

### Appendix 5.2

Noise Monitoring Results and Graphical Presentations



#### **Noise Monitoring Result**

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level	
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq	
						Unit: dB(A), (3	(30-min)		
01/11/12	10:25	Fine	72.4	75.5	66.0	72	59	75	
06/11/12	10:15	Fine	73.2	76.0	67.5	72	66	75	
13/11/12	11:25	Fine	72.0	75.0	65.5	72	72	75	
20/11/12	08:05	Cloudy	73.4	75.5	68.5	72	67	75	

Location: M2b - Noon-day gun area

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
						Unit: dB(A), (30-min)				
01/11/12	11:00	Fine	70.7	72.5	68.5	68	68	75		
06/11/12	11:00	Fine	71.4	72.5	69.0	68	69	75		
13/11/12	13:00	Fine	72.8	74.5	70.8	68	71	75		
20/11/12	9:10	Cloudy	71.0	74.0	67.0	68	68	75		

Location: M3a - Tung Lo Wan Fire Station

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level			
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq			
						Unit: dB(A), (	Unit: dB(A), (30-min)				
01/11/12	13:00	Fine	66.8	68.5	63.5	69	67	75			
06/11/12	13:00	Fine	67.0	68.5	63.5	69	67	75			
13/11/12	13:40	Fine	67.1	68.5	64.5	69	67	75			
20/11/12	13:15	Cloudy	66.2	67.5	63.5	69	66	75			

Location: M4b - Victoria Centre

			Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30min)	
01/11/12	13:39	Fine	73.2	75.0	70.0	67	72	75
06/11/12	13:35	Fine	71.3	72.5	69.5	67	69	75
13/11/12	14:25	Fine	71.2	72.0	69.0	67	69	75
20/11/12	14:00	Cloudy	71.4	72.5	68.0	67	69	75

Location: M5b - City Garden

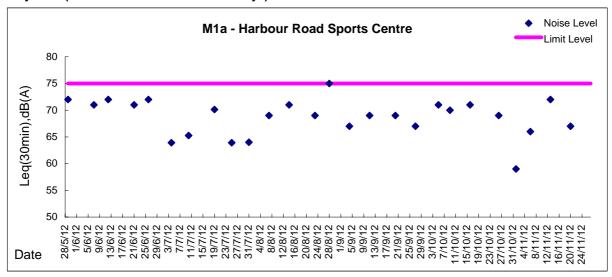
ſ	D			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
	Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
l							Unit: dB(A), (	30min)	
Ì	01/11/12	14:20	Fine	72.4	73.0	70.5	68	70	75
	06/11/12	14:15	Fine	71.1	72.0	69.5	68	68	75
	13/11/12	15:10	Fine	70.5	71.0	69.0	68	67	75
ſ	20/11/12	14:50	Cloudy	69.8	71.0	68.0	68	65	75

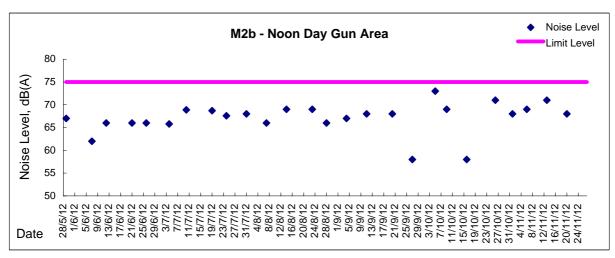
Location: M6 - HK Baptist Church Henrietta Secondary School

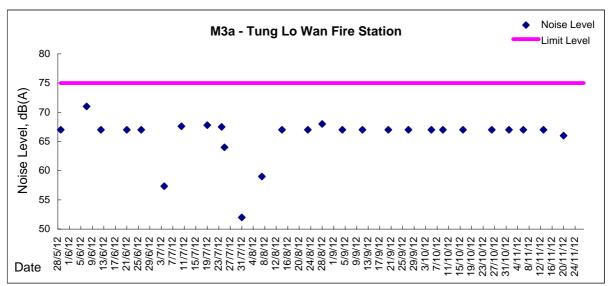
				ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level		
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq		
					•	Unit: dB(A), (30-min)				
01/11/12	15:00	Fine	74.3	75.5	72.5	71	72	70		
06/11/12	15:00	Fine	74.2	75.0	72.5	71	72	70		
13/11/12	15:50	Fine	72.9	76.3	67.8	71	69	70		
20/11/12	15:30	Cloudy	72.5	73.5	70.5	71	68	70		



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

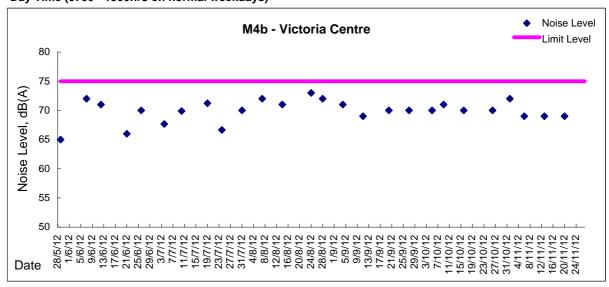


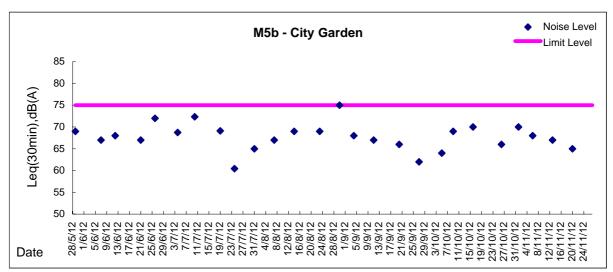


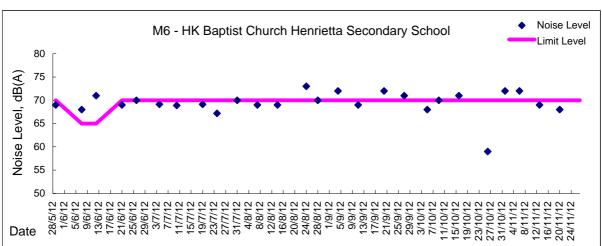




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







## Appendix 5.3

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



Location: CMA1b - Oil St Community Liaison Centre

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	Elapse Time, hr		Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
27-Oct-12	8:00	Fine	004085	2.7945	2.9758	1843.14	1867.14	24.00	1.23	1.20	1.22	1757	103
2-Nov-12	8:00	Fine	004061	2.7824	2.9565	1870.14	1894.14	24.00	1.21	1.16	1.19	1714	102
8-Nov-12	8:00	Cloudy	003799	2.7410	2.8778	1897.14	1921.14	24.00	1.14	0.99	1.07	1886	73
14-Nov-12	8:00	Cloudy	003796	2.7428	2.8714	1924.13	1948.13	24.00	1.09	1.00	1.04	1498	86
20-Nov-12	8:00	Cloudy	003817	2.7528	2.9484	1951.13	1975.13	24.00	1.21	1.19	1.20	1728	113
26-Nov-12	8:00	Cloudy	004225	2.6951	2.9927	1978.13	2002.13	24.00	1.19	1.20	1.19	1719	173

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Oct-12	14:35	Fine	003953	2.7367	2.7470	1867.13	1868.13	1.00	0.99	0.92	0.96	57	179
29-Oct-12	15:42	Fine	003983	2.7360	2.7557	1868.13	1869.13	1.00	1.28	1.23	1.25	75	262
29-Oct-12	16:50	Fine	003985	2.7566	2.7733	1869.13	1870.13	1.00	1.21	1.21	1.21	72	231
3-Nov-12	8:20	Fine	003808	2.7606	2.7704	1894.14	1895.14	1.00	1.02	1.02	1.02	61	160
3-Nov-12	9:25	Fine	003776	2.7610	2.7758	1895.14	1896.14	1.00	1.26	1.19	1.22	73	202
3-Nov-12	10:30	Fine	003774	2.7600	2.7731	1896.14	1897.15	1.01	1.14	1.11	1.13	68	192
9-Nov-12	8:30	Cloudy	003800	2.7493	2.7598	1921.14	1922.14	1.00	1.23	1.16	1.19	72	147
9-Nov-12	9:35	Cloudy	003798	2.7575	2.7674	1922.14	1923.14	1.00	1.23	1.21	1.22	73	136
9-Nov-12	10:40	Cloudy	003797	2.7669	2.7758	1923.14	1924.14	1.00	1.18	1.13	1.16	70	128
15-Nov-12	8:25	Cloudy	003791	2.7377	2.7474	1948.13	1949.13	1.00	0.95	0.95	0.95	57	170
15-Nov-12	9:30	Cloudy	003813	2.7520	2.7641	1949.13	1950.13	1.00	1.04	0.97	1.01	61	200
15-Nov-12	10:50	Cloudy	003816	2.7574	2.7681	1950.13	1951.13	1.00	0.90	0.90	0.90	54	198
21-Nov-12	10:00	Cloudy	004052	2.8020	2.8125	1975.13	1976.13	1.00	1.23	1.19	1.21	73	145
21-Nov-12	11:05	Cloudy	004228	2.6986	2.7068	1976.13	1977.13	1.00	1.19	1.19	1.19	71	115
21-Nov-12	13:00	Cloudy	004227	2.7000	2.7100	1977.13	1978.13	1.00	1.16	1.14	1.15	69	145
27-Nov-12	8:05	Rainy	004041	2.8059	2.8182	2002.13	2003.13	1.00	1.20	1.20	1.20	72	171
27-Nov-12	9:12	Rainy	004043	2.8116	2.8236	2003.13	2004.13	1.00	1.20	1.20	1.20	72	167
27-Nov-12	10:15	Rainy	004039	2.8013	2.8131	2004.13	2005.13	1.00	1.20	1.20	1.20	72	164



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	t, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
27-Oct-12	8:00	Fine	004086	2.8095	2.9553	11558.00	11582.00	24.00	1.50	1.50	1.50	2160	68
2-Nov-12	8:00	Fine	004062	2.8032	2.9959	11585.00	11609.00	24.00	1.51	1.51	1.51	2174	89
9-Nov-12	13:00	Cloudy	003795	2.7399	2.8399	11635.68	11659.68	24.00	1.39	1.37	1.38	1987	50
15-Nov-12	13:10	Cloudy	003818	2.7380	2.9763	11669.05	11693.05	24.00	1.42	1.49	1.45	2088	114
20-Nov-12	8:00	Cloudy	003779	2.7641	2.9597	11693.05	11717.05	24.00	1.49	1.49	1.49	2146	91
26-Nov-12	8:00	Cloudy	004221	2.7243	2.8425	11720.04	11744.04	24.00	1.51	1.52	1.52	2184	54

<sup>\*</sup>Due to lack of electricity supply, the 24hr-TSP was rescheduled from 8 Nov 2012 to 9 Nov 2012 and from 14 Nov 2012 to 15 Nov 2012.

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	w Rate, m³/r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m <sup>3</sup>
29-Oct-12	14:45	Fine	003952	2.7305	2.7540	11582.00	11583.00	1.00	1.66	1.61	1.64	98	239
29-Oct-12	15:50	Fine	003984	2.7367	2.7616	11583.00	11584.00	1.00	1.48	1.48	1.48	89	280
29-Oct-12	16:55	Fine	003986	2.7484	2.7698	11584.00	11585.00	1.00	1.48	1.48	1.48	89	241
3-Nov-12	8:10	Fine	003809	2.7499	2.7563	11609.00	11610.00	1.00	1.31	1.28	1.30	78	82
3-Nov-12	9:15	Fine	003778	2.7668	2.7759	11610.00	11611.00	1.00	1.46	1.46	1.46	88	104
3-Nov-12	10:20	Fine	003775	2.7663	2.7738	11611.00	11612.00	1.00	1.06	1.33	1.20	72	105
9-Nov-12	8:15	Cloudy	003789	2.7372	2.7436	11632.68	11633.68	1.00	1.42	1.46	1.44	86	74
9-Nov-12	9:20	Cloudy	003772	2.7718	2.7784	11633.68	11634.68	1.00	1.46	1.46	1.46	88	75
9-Nov-12	10:25	Cloudy	003771	2.7657	2.7732	11634.68	11635.68	1.00	1.46	1.46	1.46	88	86
15-Nov-12	8:15	Cloudy	003792	2.7546	2.7683	11666.05	11667.05	1.00	1.46	1.46	1.46	88	156
15-Nov-12	9:20	Cloudy	003810	2.7563	2.7648	11667.05	11668.05	1.00	1.37	1.37	1.37	82	103
15-Nov-12	10:40	Cloudy	003815	2.7582	2.7708	11668.05	11669.05	1.00	1.51	1.42	1.46	88	143
21-Nov-12	10:30	Cloudy	004038	2.8205	2.8321	11717.05	11718.05	1.00	1.55	1.53	1.54	92	125
21-Nov-12	13:30	Cloudy	004222	2.7306	2.7394	11718.05	11719.05	1.00	1.46	1.51	1.49	89	99
21-Nov-12	14:35	Cloudy	004226	2.7190	2.7400	11719.05	11720.04	0.99	1.42	1.37	1.40	83	253
27-Nov-12	8:06	Rainy	004046	2.7808	2.7899	11744.04	11745.04	1.00	1.52	1.52	1.52	91	100
27-Nov-12	9:10	Rainy	004056	2.8125	2.8226	11745.04	11746.04	1.00	1.52	1.52	1.52	91	111
27-Nov-12	10:14	Rainy	004040	2.8036	2.8136	11746.04	11747.04	1.00	1.52	1.52	1.52	91	110



Location: CMA3a - CWB PRE Site Office Area

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

Date	Sampling	Weather	Filter paper				Elapse Time, hr		Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
27-Oct-12	8:00	Fine	003963	2.7340	2.9967	12319.18	12343.18	24.00	1.52	1.57	1.54	2218	118
2-Nov-12	8:00	Fine	003956	2.7466	3.0557	12346.88	12370.88	24.00	1.55	1.52	1.54	2218	139
8-Nov-12	8:00	Cloudy	004070	2.8169	3.1940	12373.88	12397.88	24.00	1.62	1.57	1.59	2290	165
14-Nov-12	8:06	Cloudy	004025	2.8190	3.1738	12400.88	12424.88	24.00	1.64	1.64	1.64	2290	155
20-Nov-12	8:00	Cloudy	004101	2.8030	3.1721	12427.88	12451.88	24.00	1.55	1.55	1.55	2232	165
26-Nov-12	8:00	Cloudy	004047	2.7947	2.9937	12454.87	12478.87	24.00	1.65	1.66	1.65	2382	84

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Oct-12	8:10	Fine	003958	2.7422	2.7666	12343.18	12344.18	1.00	1.59	1.54	1.57	94	259
29-Oct-12	9:15	Fine	003954	2.7192	2.7439	12344.18	12345.18	1.00	1.54	1.50	1.52	91	271
29-Oct-12	10:20	Fine	003981	2.7549	2.7803	12345.18	12346.18	1.00	1.54	1.54	1.54	93	274
3-Nov-12	8:22	Fine	004063	2.7914	2.8122	12370.88	12371.88	1.00	1.64	1.64	1.64	99	211
3-Nov-12	9:28	Fine	004065	2.8038	2.8244	12371.88	12372.88	1.00	1.60	1.57	1.58	95	217
3-Nov-12	10:32	Fine	004067	2.8231	2.8464	12372.88	12373.88	1.00	1.57	1.57	1.57	94	247
9-Nov-12	8:05	Cloudy	004008	2.7597	2.7803	12397.88	12398.88	1.00	1.45	1.45	1.45	87	237
9-Nov-12	9:09	Cloudy	004021	2.7903	2.8002	12398.88	12399.88	1.00	1.45	1.45	1.45	87	114
9-Nov-12	10:15	Cloudy	004023	2.8053	2.8294	12399.88	12400.88	1.00	1.45	1.45	1.45	87	277
15-Nov-12	8:10	Cloudy	004096	2.7983	2.8239	12424.88	12425.88	1.00	1.62	1.57	1.60	96	267
15-Nov-12	9:20	Cloudy	004098	2.7726	2.7988	12425.88	12426.88	1.00	1.55	1.55	1.55	93	282
15-Nov-12	10:25	Cloudy	004099	2.7943	2.8189	12426.88	12427.88	1.00	1.55	1.55	1.55	93	265
21-Nov-12	8:04	Cloudy	004050	2.7882	2.8133	12451.88	12452.88	1.00	1.64	1.67	1.66	99	253
21-Nov-12	9:10	Cloudy	004051	2.8032	2.8260	12452.88	12453.88	1.00	1.69	1.64	1.67	100	228
21-Nov-12	10:15	Cloudy	004055	2.7882	2.8110	12453.88	12454.88	1.00	1.62	1.60	1.61	96	236
27-Nov-12	13:00	Rainy	003806	2.7443	2.7603	12478.82	12479.82	1.00	1.51	1.51	1.51	91	176
27-Nov-12	14:20	Rainy	003787	2.7345	2.7513	12479.82	12480.82	1.00	1.51	1.51	1.51	91	185
27-Nov-12	15:25	Rainy	003763	2.7537	2.7718	12480.82	12481.82	1.00	1.51	1.51	1.51	91	200



Location: CMA4a - SPCA

 $\begin{array}{lll} \mbox{Report on 24-hour TSP monitoring} \\ \mbox{Action Level } (\mu g/m3) - & 171.2 \\ \mbox{Limit Level } (\mu g/m3) - & 260 \end{array}$ 

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time	Elapse Time, hr		Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
27-Oct-12	8:00	Fine	003964	2.7313	2.9014	15756.21	15780.21	24.00	1.39	1.34	1.37	1973	86
2-Nov-12	8:00	Fine	003957	2.7360	2.9528	15783.21	15807.21	24.00	1.37	1.32	1.35	1944	112
8-Nov-12	8:00	Cloudy	004069	2.8012	3.0269	15810.21	15834.21	24.00	1.35	1.32	1.33	1915	118
14-Nov-12	8:00	Cloudy	004024	2.8105	3.0884	15837.21	15861.21	24.00	1.28	1.28	1.28	1843	151
20-Nov-12	8:00	Cloudy	004100	2.7904	3.0346	15864.21	15888.21	24.00	1.25	1.23	1.24	1786	137
26-Nov-12	8:00	Cloudy	004053	2.8246	2.9298	15891.21	15915.21	24.00	1.33	1.34	1.33	1919	55

 $\begin{array}{ccc} \text{Report on 1-hour TSP monitoring} \\ \text{Action Level } (\mu\text{g/m3}) & - & 312.5 \\ \text{Limit Level } (\mu\text{g/m3}) & - & 500 \\ \end{array}$ 

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Oct-12	8:03	Fine	003959	2.7421	2.7613	15780.21	15781.21	1.00	1.51	1.44	1.47	88	217
29-Oct-12	9:06	Fine	003955	2.7209	2.7392	15781.21	15782.21	1.00	1.37	1.37	1.37	82	223
29-Oct-12	10:11	Fine	003982	2.7451	2.7634	15782.21	15783.21	1.00	1.37	1.34	1.35	81	225
3-Nov-12	8:34	Fine	004064	2.7744	2.7922	15807.21	15808.21	1.00	1.35	1.32	1.34	80	222
3-Nov-12	9:40	Fine	004066	2.8013	2.8132	15808.21	15809.21	1.00	1.32	1.32	1.32	79	150
3-Nov-12	10:42	Fine	004068	2.7970	2.8085	15809.21	15810.21	1.00	1.32	1.32	1.32	79	145
9-Nov-12	8:03	Cloudy	004019	2.8126	2.8210	15834.21	15835.21	1.00	1.32	1.30	1.31	78	107
9-Nov-12	9:05	Cloudy	004020	2.8299	2.8353	15835.21	15836.21	1.00	1.06	1.01	1.03	62	87
9-Nov-12	10:10	Cloudy	004022	2.8026	2.8121	15836.21	15837.21	1.00	1.30	1.27	1.28	77	123
15-Nov-12	8:02	Cloudy	004095	2.7966	2.8128	15861.21	15862.21	1.00	1.32	1.32	1.32	79	204
15-Nov-12	9:08	Cloudy	004097	2.8006	2.8214	15862.21	15863.21	1.00	1.32	1.32	1.32	79	262
15-Nov-12	10:45	Cloudy	004109	2.7810	2.8030	15863.21	15864.21	1.00	1.32	1.32	1.32	79	277
21-Nov-12	8:05	Cloudy	004054	2.7829	2.7982	15888.21	15889.21	1.00	1.32	1.32	1.32	79	193
21-Nov-12	9:10	Cloudy	004049	2.7928	2.8065	15889.21	15890.21	1.00	1.32	1.32	1.32	79	172
21-Nov-12	10:14	Cloudy	004048	2.7707	2.7822	15890.21	15891.21	1.00	1.18	1.16	1.17	70	164
27-Nov-12	13:20	Rainy	003807	2.7441	2.7517	15915.21	15916.20	0.99	1.24	1.24	1.24	74	103
27-Nov-12	14:30	Rainy	003788	2.7392	2.7454	15916.20	15917.20	1.00	1.48	1.48	1.48	89	70
27-Nov-12	15:35	Rainv	003760	2.7390	2.7511	15917.20	15918.20	1.00	1.29	1.29	1.29	77	157



Location: CMA5a - Children Garden opposite to Pedestrian Plaza

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

Date	Sampling	Weather	Filter paper	Filter Weigh	ıt, g	Elapse Time, hr		Sampling	Flow Rate, m <sup>3</sup> /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μ <b>g</b> /m³
27-Oct-12	8:00	Fine	003460	2.7937	2.9657	16765.51	16789.51	24.00	1.48	1.48	1.48	2131	81
2-Nov-12	8:00	Fine	003835	2.6907	2.8478	16771.51	16795.51	24.00	1.65	1.57	1.61	2318	68
9-Nov-12	14:15	Cloudy	003794	2.7415	2.9216	16805.74	16829.74	24.00	1.48	1.45	1.47	2117	85
14-Nov-12	8:00	Cloudy	004304	2.6881	2.9660	16830.74	16854.74	24.00	1.48	1.49	1.49	2146	130
20-Nov-12	8:00	Cloudy	004013	2.7497	3.0232	16857.74	16881.74	24.00	1.52	1.51	1.51	2174	126
26-Nov-12		Cloudy	003819	2.7000	2.9510	16884.74	16908.74	24.00	1.44	1.44	1.44	2075	121

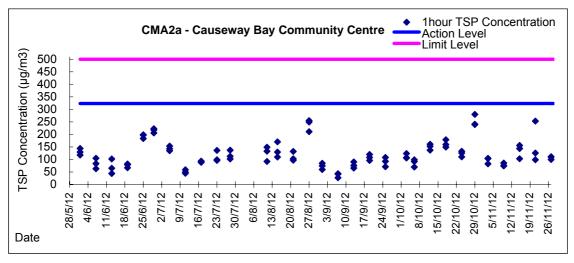
<sup>\*</sup>Due to lack of electricity supply, the 24hr -TSP was rescheduled from 8 Nov 2012 to 9 Nov 2012.

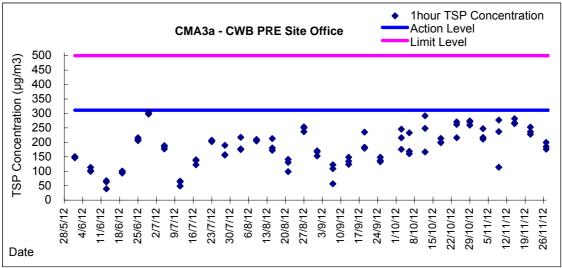
Report on 1-hour TSP monitoring Action Level (µg/m3) - 332 Limit Level (µg/m3) - 500

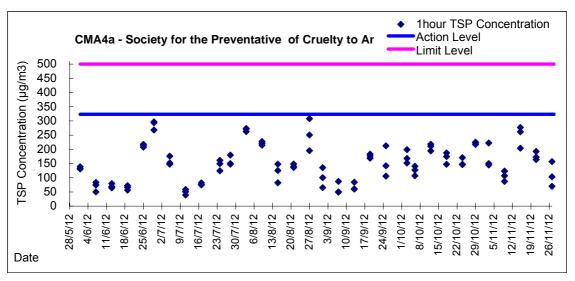
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, Q <sub>sf</sub>	Average	Volume, m <sup>3</sup>	μg/m³
29-Oct-12	8:11	Fine	003829	2.7344	2.7447	16768.51	16769.51	1.00	1.20	1.20	1.20	72	143
29-Oct-12	9:30	Fine	003831	2.7183	2.7304	16770.51	16771.51	1.00	1.26	1.20	1.23	74	164
29-Oct-12	10:33	Fine	003833	2.6986	2.7106	16769.51	16770.51	1.00	1.31	1.31	1.31	79	152
3-Nov-12	8:10	Fine	004017	2.8213	2.8344	16795.51	16796.51	1.00	1.48	1.48	1.48	89	147
3-Nov-12	9:12	Fine	004010	2.7423	2.7557	16797.51	16798.51	1.00	1.48	1.48	1.48	89	151
3-Nov-12	10:20	Fine	004018	2.8231	2.8326	16796.51	16797.51	1.00	1.46	1.45	1.46	87	109
9-Nov-12	8:21	Cloudy	004089	2.8268	2.8348	16802.30	16803.30	1.00	1.29	1.29	1.29	77	104
9-Nov-12	9:24	Cloudy	003238	2.7842	2.7960	16804.30	16805.30	1.00	1.31	1.31	1.31	79	150
9-Nov-12	13:00	Cloudy	004094	2.8092	2.8202	16803.30	16804.30	1.00	1.42	1.45	1.44	86	127
15-Nov-12	8:10	Cloudy	004027	2.8066	2.8237	16854.74	16855.74	1.00	1.46	1.46	1.46	87	195
15-Nov-12	9:15	Cloudy	004029	2.7968	2.8163	16856.74	16857.74	1.00	1.46	1.46	1.46	87	223
15-Nov-12	10:20	Cloudy	003991	2.7560	2.7775	16855.74	16856.74	1.00	1.46	1.46	1.46	87	246
21-Nov-12	8:30	Cloudy	004103	2.7998	2.8130	16881.74	16882.74	1.00	1.46	1.46	1.46	87	151
21-Nov-12	13:00	Cloudy	004306	2.6983	2.7089	16883.74	16884.74	1.00	1.32	1.32	1.32	79	134
21-Nov-12	14:10	Cloudy	003751	2.7425	2.7513	16882.74	16883.74	1.00	1.15	1.09	1.12	67	131
27-Nov-12	8:25	Rainy	003801	2.7386	2.7558	16908.74	16909.74	1.00	1.22	1.22	1.22	73	235
27-Nov-12	9:30	Rainy	003802	2.7412	2.7522	16909.74	16910.74	1.00	1.50	1.50	1.50	90	122
27-Nov-12	10:40	Rainy	003762	2.7542	2.7653	16910.74	16911.74	1.00	1.33	1.33	1.33	80	139



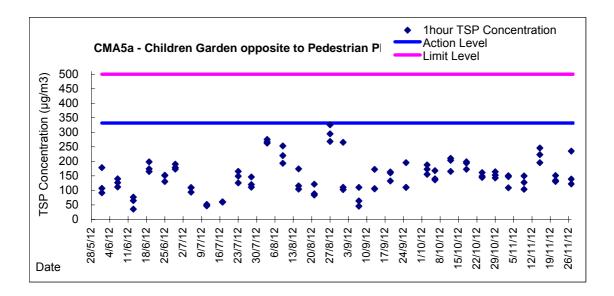
**Graphic Presentation of 1 hour TSP Result** 



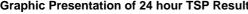


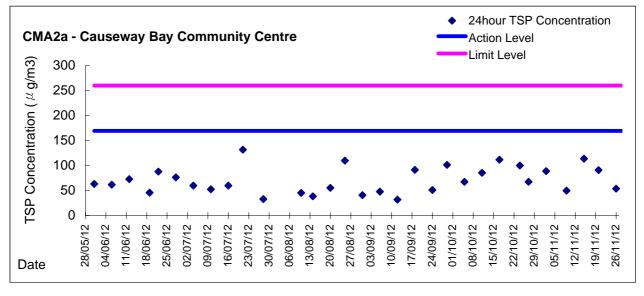


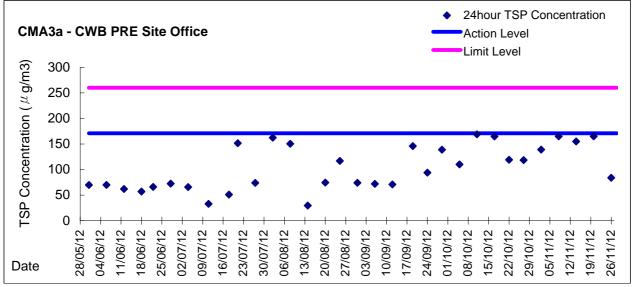
**Graphic Presentation of 1 hour TSP Result** 

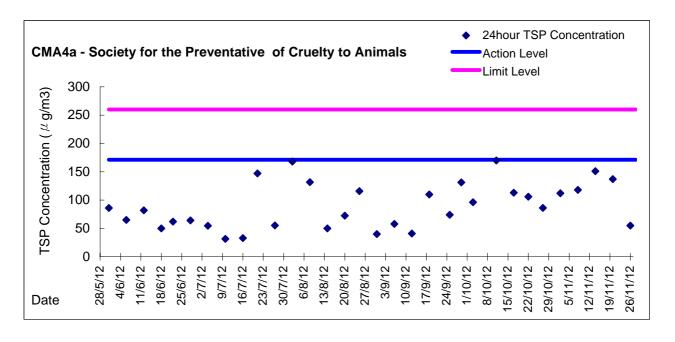


**Graphic Presentation of 24 hour TSP Result** 



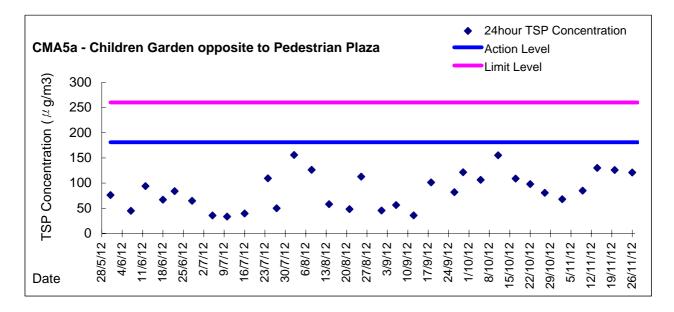








**Graphic Presentation of 24 hour TSP Result** 



## Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	ed Solids
		Condition	n	n	Va		Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue %	Average	Va		Average	Va	lue	Average	_	Average
29/10/2012	4:35	Cloudy	Middle	2.5	25.60	25.60	25.60	8.43	8.43	8.43	33.27	33.27	33,27	83.9	85.7	85.1	5.68	5.81	5.72	8.76	8.95	8.84	7	8.00
29/10/2012	4:36	Cloudy	Middle	2.5	25.60	25.60	25.60	8.43	8.43	0.43	33.27	33.27	33.21	85.0	85.8	00.1	5.59	5.81	5.72	8.89	8.75	0.04	9	6.00
31/10/2012	16:51	Fine	Middle	2.5	24.60	24.60	24.60	8.41	8.41	8.41	32.37	32.37	32.37	90.2	89.7	90.8	6.25	6.22	6.30	7.06	7.02	6.83	8	7.00
01/10/2012	16:52	1 1110	Middle	2.5	24.60	24.60	24.00	8.41	8.41	0.41	32.37	32.37	02.01	91.6	91.7	50.5	6.35	6.36	0.00	6.69	6.55	0.00	6	7.00
2/11/2012	17:40	Cloudy	Middle	2.5	23.80	23.80	23.80	8.46	8.46	8.46	32.42	32.42	32.42	93.8	93.7	93.1	6.65	6.61	6.60	5.20	5.59	5.48	6	6.00
	17:41	Í	Middle	2.5	23.80	23.80		8.46	8.46		32.42	32.42		92.5	92.2		6.59	6.56		5.47	5.64		6	<u> </u>
5/11/2012	18:38	Haze	Middle	2.5	24.70	24.80	24.78	8.38	8.38	8.37	32.47	32.47	32.47	89.4	89.8	89.7	6.17	6.18	6.19	3.81	3.64	3.73	9	8.50
	18:39		Middle	2.5	24.80	24.80		8.36	8.36		32.47	32.47		89.8	89.9		6.19	6.20		3.77	3.69		8	<u> </u>
8/11/2012	12:37	Fine	Middle	2.5	24.10	24.10	24.05	8.41	8.41	8.41	32.53	32.53	32.53	93.0	92.8	92.7	6.50	6.49	6.48	5.12	4.89	4.82	16	<u>15.00</u>
	12:39		Middle	2.5	24.00	24.00		8.40	8.40		32.53	32.53		92.1	93.0		6.44	6.50		4.56	4.71		14	
10/11/2012	17:13	Fine	Middle	3.0	25.30	25.30	25.30	8.38	8.38	8.38	32.37	32.37	32.38	83.5	82.3	83.4	5.71	5.66	5.71	5.46	5.55	5.39	7	8.00
	17:15		Middle	3.0	25.30	25.30		8.38	8.38		32.38	32.38		84.1	83.7		5.74	5.72	_	5.22	5.32		9	
12/11/2012	19:10	Fine	Middle	2.5	23.90	23.90	23.90	8.37	8.37	8.38	32.55	32.55	32.58	80.7	79.0	80.4	5.70	5.65	5.70	5.60	5.85	5.66	6	7.50
	19:12		Middle	2.5	23.90	23.90		8.38	8.38		32.56	32.65		80.9	81.0		5.72	5.73		5.70	5.49		9	
14/11/2012	19:05	Fine	Middle	2.5	24.10	24.10	24.10	8.37	8.37	8.38	32.59	32.59	32.59	61.9	61.2	60.7	4.30	4.26	4.18	7.08	6.26	6.57	6	5.50
	19:07		Middle	2.5	24.10	24.10		8.38	8.38		32.58	32.58		60.2	59.6		4.02	4.15		6.44	6.51		5	
17/11/2012	7:32	Fine	Middle	2.5	23.00	23.00	23.00	8.40	8.40	8.40	32.81	32.81	32.81	85.8	85.6	85.3	6.09	6.08	6.06	6.72	6.82	6.59	13	12.50
	7:34		Middle	2.5	23.00	23.00		8.40	8.40		32.80	32.80		84.6	85.3		6.01	6.06		6.49	6.33		12	<u> </u>
19/11/2012	9:48	Fine	Middle	3.0	23.50	23.50	23.45	8.36	8.36	8.35	31.57	31.57	31.58	79.7	80.7	79.7	5.63	5.69	5.63	3.61	3.65	3.59	4	3.50
	9:50		Middle	3.0	23.40	23.40		8.34	8.34		31.58	31.58		78.3	80.0		5.52	5.67		3.62	3.47		3	
22/11/2012	11:11	Fine	Middle	2.0	24.20	24.20	24.25	8.39	8.38	8.39	32.19	32.19	32.20	83.0	82.6	82.9	5.77	5.75	5.76	6.48	6.12	6.48	3	3.50
	11:13		Middle	2.0	24.30	24.30		8.40	8.40		32.20	32.20		82.2	83.8		5.70	5.81		6.47	6.84		4	<u> </u>
24/11/2012	12:30	Fine	Middle	2.5	22.40	22.40	22.35	8.40	8.40	8.39	32.62	32.62	32.65	64.2	64.5	68.7	4.62	4.64	4.95	3.44	3.53	3.66	3	3.00
	12:31		Middle	2.5	22.30	22.30		8.38	8.38		32.68	32.68		71.9	74.3		5.17	5.36		3.88	3.80		3	
26/11/2012	14:15	Cloudy	Middle	2.0	22.30	22.30	22.20	8.02	8.02	8.01	33.13	33.13	33.14	88.4	88.5	87.7	6.36	6.36	6.30	4.66	5.07	4.91	4	4.00
	14:17		Middle	2.0	22.10	22.10		8.00	8.00		33.14	33.14		87.5	86.2		6.29	6.20		5.01	4.88		4	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	7:50	Claudy	Middle	3.0	25.40	25.40	25.40	8.53	8.53	8.53	33.56	33.56	33.56	95.9	96.3	0E 1	7.41	6.77	6.75	8.56	8.76	0.60	9	8.50
29/10/2012	7:51	Cloudy	Middle	3.0	25.40	25.40	25.40	8.53	8.53	8.53	33.56	33.56	33.30	94.6	93.6	95.1	6.44	6.36	0.75	8.82	8.32	<u>8.62</u>	8	8.50
31/10/2012	18:53	Fine	Middle	3.0	24.20	24.20	24.20	8.44	8.44	8.44	32.41	32.41	32.41	90.9	90.5	89.9	6.34	6.33	6.28	12.20	11.70	12.05	16	17.00
31/10/2012	18:54	rine	Middle	3.0	24.20	24.20	24.20	8.44	8.44	6.44	32.41	32.41	32.41	89.1	89.2	69.9	6.22	6.22	0.28	11.90	12.40	12.05	18	17.00
2/11/2012	19:50	Cloudy	Middle	3.0	23.50	23.50	23.50	8.51	8.51	8.51	32.42	32.42	32.42	87.7	88.1	87.6	6.19	6.21	6.18	9.05	9.10	0.26	9	9.50
2/11/2012	19:51	Cloudy	Middle	3.0	23.50	23.50	23.50	8.51	8.51	0.01	32.42	32.42	32.42	87.9	86.7	87.0	6.20	6.11	0.18	9.71	9.58	9.36	10	9.50
5/11/2012	21:24	Llone	Middle	3.0	23.80	23.80	23.80	8.39	8.39	8.39	32.40	32.40	32.40	91.2	91.1	90.5	6.40	6.40	6.36	5.06	5.02	5.12	6	5.50
5/11/2012	21:25	Haze	Middle	3.0	23.80	23.80	23.60	8.39	8.39	0.39	32.40	32.40	32.40	90.6	89.2	90.5	6.36	6.27	0.30	5.42	4.98	5.12	5	5.50
8/11/2012	14:59	Fine	Middle	3.5	24.80	24.80	24.80	8.51	8.51	8.51	32.81	32.81	32.80	94.6	94.3	95.3	6.50	6.49	6.55	7.77	7.62	7.67	8	8.50
6/11/2012	15:01	rille	Middle	3.5	24.80	24.80	24.00	8.50	8.50	0.51	32.78	32.78	32.00	95.5	96.7	95.5	6.57	6.65	0.55	7.82	7.45	7.07	9	6.50
10/11/2012	15:47	Fine	Middle	3.5	25.40	25.40	25.45	8.38	8.38	8.37	32.50	32.50	32.51	82.7	83.8	83.0	5.63	5.68	5.66	5.45	5.57	5.43	8	7.50
10/11/2012	15:49	rille	Middle	3.5	25.50	25.50	25.45	8.36	8.36	0.57	32.51	32.51	32.31	81.7	83.6	65.0	5.57	5.74	5.00	5.45	5.24	5.45	7	7.50
12/11/2012	17:10	Fine	Middle	3.5	24.20	24.20	24.20	8.47	8.47	8.46	32.51	32.51	32.51	93.1	92.0	91.9	6.48	6.40	6.39	11.90	11.10	11.60	17	- 16.50
12/11/2012	17:12	rille	Middle	3.5	24.20	24.20	24.20	8.45	8.45	0.40	32.51	32.51	32.31	91.1	91.2	91.9	6.34	6.34	0.39	12.10	11.30	<u>11.60</u>	16	10.30
14/11/2012	17:25	Fine	Middle	3.5	24.10	24.10	24.10	8.38	8.38	8.38	32.55	32.55	32.56	71.6	70.0	68.8	4.99	4.88	4.80	7.07	7.07	7.07	10	10.00
14/11/2012	17:27	Tille	Middle	3.5	24.10	24.10	24.10	8.38	8.38	0.50	32.56	32.56	32.30	68.1	65.5	00.0	4.75	4.57	4.00	7.18	6.97	7.07	10	10.00
17/11/2012	9:33	Fine	Middle	3.0	23.60	23.60	23.60	8.49	8.49	8.49	32.47	32.47	32.48	90.0	89.2	89.7	6.34	6.32	6.32	9.14	8.86	9.20	15	<u> 15.50</u>
17/11/2012	9:35	Tille	Middle	3.0	23.60	23.60	23.00	8.49	8.49	0.49	32.48	32.48	32.40	90.6	88.9	09.7	6.37	6.25	0.32	9.38	9.40	9.20	16	13.30
19/11/2012	13:00	Fine	Middle	3.0	23.50	23.50	23.50	8.52	8.52	8.52	32.91	32.91	32.91	75.1	73.3	72.6	5.29	5.16	5.11	7.41	7.45	7.41	4	4.50
19/11/2012	13:02	Tille	Middle	3.0	23.50	23.50	23.30	8.52	8.52	0.52	32.90	32.90	32.91	71.6	70.3	72.0	5.04	4.95	3.11	7.17	7.62	7.41	5	4.50
22/11/2012	14:30	Fine	Middle	3.0	24.60	24.60	24.70	8.36	8.36	8.37	32.73	32.73	32.73	80.1	81.3	79.3	5.52	5.60	5.46	5.43	5.44	5.29	4	3.50
22/11/2012	14:32	Tille	Middle	3.0	24.80	24.80	24.70	8.37	8.37	0.57	32.73	32.73	32.73	79.7	76.1	79.5	5.49	5.24	3.40	5.06	5.23	5.29	3	3.30
24/11/2012	13:45	Fine	Middle	2.5	22.70	22.70	22.70	8.46	8.46	8.46	32.96	32.96	32.97	80.8	77.6	76.8	5.76	5.54	5.48	6.05	6.05	6.16	6	6.50
27/11/2012	13:47	1 1116	Middle	2.5	22.70	22.70	22.10	8.45	8.45	0.40	32.97	32.97	32.31	75.2	73.5	70.0	5.36	5.24	J.70	6.17	6.37	0.10	7	0.50
26/11/2012	15:46	Cloudy	Middle	3.5	22.20	22.20	22.15	8.09	8.09	8.08	33.38	33.38	33.39	88.5	90.9	90.2	6.35	6.53	6.48	8.50	8.58	8.39	11	10.50
20/11/2012	15:48	Cloddy	Middle	3.5	22.10	22.10	22.10	8.07	8.07	0.00	33.40	33.40	33.38	90.7	90.7	30.2	6.51	6.51	0.40	8.05	8.44	0.33	10	10.50



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	,	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	7:35	Cloudy	Middle	2.0	25.50	25.50	25.50	8.45	8.45	8.45	33.25	33.25	33,25	99.5	98.6	99.2	7.18	7.07	7.00	9.80	9.97	9.83	15	14.50
29/10/2012	7:36	Cloudy	Middle	2.0	25.50	25.50	25.50	8.45	8.45	0.40	33.25	33.25	33.23	99.9	98.9	99.2	6.73	7.02	7.00	9.80	9.76	9.03	14	14.50
31/10/2012	18:42	Fine	Middle	2.0	24.00	24.00	24.00	8.38	8.38	8.38	32.16	32.16	32.16	90.3	88.9	89.4	6.37	6.23	6.28	13.40	13.80	13.33	16	16.00
31/10/2012	18:43	rille	Middle	2.0	24.00	24.00	24.00	8.38	8.38	0.30	32.16	32.16	32.10	89.1	89.2	09.4	6.25	6.27	0.20	12.90	13.20	13.33	16	16.00
2/11/2012	19:25	Cloudy	Middle	2.0	24.30	24.30	24.30	8.42	8.42	8.42	32.20	32.20	32.20	93.2	92.4	92.4	6.49	6.44	6.43	7.99	7.90	8.02	12	11.00
2/11/2012	19:26	Cloudy	Middle	2.0	24.30	24.30	24.50	8.42	8.42	0.42	32.20	32.20	32.20	92.0	91.8	32.4	6.41	6.39	0.43	8.18	8.01	0.02	10	11.00
5/11/2012	20:50	Haze	Middle	2.0	24.60	24.60	24.60	8.30	8.30	8.30	32.14	32.14	32.14	86.8	87.8	88.4	6.01	6.07	6.12	12.80	13.40	12.65	9	8.50
3/11/2012	20:51	Tidze	Middle	2.0	24.60	24.60	24.00	8.30	8.30	0.50	32.14	32.14	32.14	89.3	89.6	00.4	6.18	6.21	0.12	12.20	12.20	12.03	8	0.50
8/11/2012	15:17	Fine	Middle	2.0	24.80	24.80	24.80	7.64	7.64	7.64	32.98	32.98	32.98	71.6	72.0	71.8	4.93	4.96	4.95	5.66	5.52	5.58	5	5.50
0/11/2012	15:20	1 1110	Middle	2.0	24.80	24.80	24.00	7.64	7.64	7.04	32.98	32.98	02.00	71.8	71.9	71.0	4.95	4.95	4.00	5.54	5.59	0.00	6	0.00
10/11/2012	15:30	Fine	Middle	2.0	25.30	25.30	25.40	8.27	8.27	8.27	32.24	32.24	32.24	76.8	77.8	77.6	5.25	5.31	5.30	10.50	9.96	9.94	17	16.50
10/11/2012	15:32	Tille	Middle	2.0	25.50	25.50	20.40	8.27	8.27	0.21	32.24	32.24	32.24	77.9	78.0	77.0	5.31	5.32	5.50	9.94	9.37	3.34	16	10.50
12/11/2012	16:40	Fine	Middle	2.5	24.30	24.30	24.30	8.37	8.37	8.37	32.31	32.31	32.30	81.3	78.2	82.1	5.63	5.45	5.71	7.60	7.71	7.41	9	9.50
12/1//2012	16:42	1 1110	Middle	2.5	24.30	24.30	24.00	8.37	8.37	0.07	32.29	32.29	02.00	87.0	81.9	02.1	6.06	5.68	0.71	7.02	7.32	71	10	0.00
14/11/2012	16:55	Fine	Middle	2.5	24.40	24.40	24.35	8.32	8.32	8.32	32.22	32.22	32.23	68.7	66.0	66.8	4.78	4.59	4.65	10.70	10.40	10.58	13	13.50
14/11/2012	16:57	1 1110	Middle	2.5	24.30	24.30	24.00	8.32	8.32	0.02	32.23	32.23	02.20	62.9	69.7	00.0	4.37	4.85	4.00	10.80	10.40	10.00	14	10.00
17/11/2012	11:56	Fine	Middle	2.0	23.40	23.40	23.40	8.49	8.49	8.49	32.53	32.53	32.54	81.0	81.2	81.3	5.72	5.73	5.74	9.93	10.40	10.23	12	12.00
17/17/2012	11:58	1 1110	Middle	2.0	23.40	23.40	20.40	8.48	8.48	0.40	32.55	32.55	02.04	81.8	81.2	01.0	5.78	5.74	0.14	10.40	10.20	10.20	12	12.00
19/11/2012	12:40	Fine	Middle	2.5	23.30	23.30	23.30	8.28	8.28	8.29	32.50	32.50	32.50	82.9	80.5	79.3	5.84	5.69	5.60	10.20	10.50	10.31	10	11.00
10/11/2012	12:42	10	Middle	2.5	23.30	23.30	20.00	8.29	8.29	0.20	32.50	32.50	02.00	78.1	75.7	7 0.0	5.50	5.35	0.00	9.82	10.70	<u></u>	12	11100
22/11/2012	14:11	Fine	Middle	2.0	24.20	24.20	24.20	8.00	8.00	8.00	31.29	31.29	31.30	67.1	66.7	66.4	4.70	4.67	4.66	6.76	6.77	6.68	6	6.50
	14:13	0	Middle	2.0	24.20	24.20	0	8.00	8.00		31.30	31.30	200	66.4	65.5	****	4.66	4.59	50	6.73	6.47		7	
24/11/2012	15:15	Fine	Middle	2.0	22.90	22.90	22.90	8.31	8.31	8.31	32.39	32.39	32.40	64.0	62.0	61.4	4.57	4.42	4.38	8.54	8.59	8.83	7	7.50
	15:17		Middle	2.0	22.90	22.90		8.31	8.31		32.40	32.40		60.4	59.2		4.31	4.22		9.41	8.78		8	
26/11/2012	18:45	Cloudy	Middle	2.5	21.70	21.70	21.70	8.04	8.04	8.04	33.22	33.22	33.22	76.1	74.9	74.1	5.51	5.43	5.37	7.13	6.85	6.97	7	7.00
20, 1, 1, 20, 12	18:47	5.544,	Middle	2.5	21.70	21.70	20	8.04	8.04	0.0 .	33.22	33.22	00.22	73.3	72.0		5.31	5.22	0.0.	6.88	7.00	0.0.	7	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average		Average
29/10/2012	7:22	Cloudy	Middle	2.0	25.70	25.70	25.70	8.38	8.38	8.38	32.49	32.49	32.49	82.0	83.1	82.3	5.73	5.69	5.71	5.88	5.83	5.92	7	6.00
29/10/2012	7:23	Cloudy	Middle	2.0	25.70	25.70	25.70	8.38	8.38	0.30	32.49	32.49	32.49	81.6	82.6	02.3	5.75	5.66	5.71	5.84	6.11	5.92	5	6.00
31/10/2012	18:30	Fine	Middle	2.0	24.10	24.10	24.05	8.34	8.34	8.34	31.94	31.95	31.95	81.8	82.4	81.4	5.83	5.80	5.75	7.63	7.89	7.85	9	9.50
31/10/2012	18:31	Fille	Middle	2.0	24.00	24.00	24.05	8.34	8.34	0.34	31.95	31.95	31.93	81.5	80.0	01.4	5.78	5.60	5.75	7.94	7.93	7.05	10	9.50
2/11/2012	19:13	Cloudy	Middle	2.0	24.60	24.60	24.60	8.39	8.39	8.39	32.18	32.18	32.18	81.5	81.1	80.9	5.63	5.62	5.61	6.95	6.91	6.93	8	7.00
2/11/2012	19:14	Oloudy	Middle	2.0	24.60	24.60	24.00	8.39	8.39	0.55	32.18	32.18	32.10	81.0	80.0	00.5	5.62	5.56	5.01	6.75	7.11	0.55	6	7.00
5/11/2012	20:40	Haze	Middle	2.0	24.80	24.80	24.80	8.32	8.32	8.32	31.96	31.96	31.96	77.3	77.5	77.4	5.35	5.37	5.36	8.20	8.45	8.48	8	7.50
3/11/2012	20:41	TIAZC	Middle	2.0	24.80	24.80	24.00	8.32	8.32	0.52	31.96	31.96	31.30	77.4	77.5	77.4	5.36	5.37	5.50	8.81	8.46	0.40	7	7.50
8/11/2012	15:22	Fine	Middle	2.5	24.90	24.90	24.90	7.64	7.64	7.64	33.01	33.01	33.01	72.4	73.9	73.2	4.98	5.08	5.04	7.92	7.91	7.73	9	9.00
0,11,2012	15:25		Middle	2.5	24.90	24.90	2	7.64	7.64		33.01	33.01	00.01	73.0	73.4	7 0.2	5.06	5.05	0.0 .	7.73	7.36	0	9	0.00
10/11/2012	15:10	Fine	Middle	1.5	25.80	25.80	25.85	8.46	8.46	8.46	32.16	32.16	32.16	74.3	74.5	73.8	5.04	5.05	5.00	8.29	8.92	8.69	12	11.00
10/11/2012	15:12	1 1110	Middle	1.5	25.90	25.90	20.00	8.46	8.46	0.40	32.15	32.15	02.10	73.3	73.1	70.0	4.96	4.95	0.00	8.84	8.70	0.00	10	11.00
12/11/2012	16:34	Fine	Middle	2.0	24.50	24.50	24.45	8.26	8.26	8.26	32.22	32.22	32.22	61.7	65.4	66.2	4.29	4.55	4.60	8.89	8.77	8.75	13	14.00
12/11/2012	16:36	0	Middle	2.0	24.40	24.40	20	8.26	8.26	0.20	32.21	32.21	02.22	68.7	68.9	00.2	4.77	4.79		8.57	8.77	0.10	15	1 1100
14/11/2012	16:40	Fine	Middle	2.0	24.50	24.50	24.50	8.51	8.51	8.51	32.31	32.31	32.31	77.4	76.0	76.3	5.37	5.69	5.58	8.94	8.25	8.44	10	10.50
	16:42		Middle	2.0	24.50	24.50		8.50	8.50		32.31	32.31		78.1	73.5		5.79	5.47		8.43	8.15		11	
17/11/2012	11:42	Fine	Middle	2.0	23.80	23.80	23.75	8.44	8.44	8.45	32.51	32.51	32.52	76.7	77.6	76.9	5.38	5.44	5.40	12.40	12.40	12.10	11	11.50
	11:44		Middle	2.0	23.70	23.70		8.45	8.45		32.53	32.53		77.2	76.1		5.43	5.35		11.80	11.80		12	
19/11/2012	12:24	Fine	Middle	1.5	23.60	23.60	23.55	8.65	8.65	8.65	32.44	32.44	32.44	73.6	70.8	69.8	5.19	4.99	4.92	6.65	6.85	6.70	8	8.00
	12:26		Middle	1.5	23.50	23.50		8.65	8.65		32.43	32.43		68.9	66.0		4.85	4.65		6.45	6.86		8	
22/11/2012	14:15	Fine	Middle	2.5	24.20	24.20	24.30	7.84	7.84	7.85	31.73	31.73	31.74	73.5	73.0	72.7	5.13	5.08	5.06	9.53	9.49	9.50	11	10.50
	14:17		Middle	2.5	24.40	24.40		7.85	7.85		31.74	31.74		72.3	72.0		5.01	5.02		9.51	9.46		10	
24/11/2012	15:30	Fine	Middle	2.5	22.70	22.70	22.70	8.35	8.35	8.35	32.00	32.00	32.32	77.9	75.7	74.4	5.56	5.40	5.31	7.18	7.14	7.15	7	7.50
	15:32		Middle	2.5	22.70	22.70		8.35	8.35		32.63	32.63		73.1	71.0		5.22	5.06		7.09	7.17		8	
26/11/2012	18:35	Cloudy	Middle	2.0	21.90	21.90	21.80	8.02	8.02	8.02	33.12	33.12	33.13	70.1	68.8	68.4	5.07	4.98	4.95	7.66	7.42	7.62	6	6.00
	18:37	,	Middle	2.0	21.70	21.70		8.01	8.01		33.13	33.13		67.8	67.0		4.91	4.85		8.09	7.31		6	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	ed Solids
		Condition	n	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
29/10/2012	6:25	Cloudy	Middle	1.5	25.70	25.70	25.70	8.14	8.14	8.14	32.02	32.02	32.02	67.2	67.0	67.4	4.59	4.58	4.60	2.20	2.14	2.14	2	2.00
29/10/2012	6:26	Cloudy	Middle	1.5	25.70	25.70	25.70	8.14	8.14	0.14	32.02	32.02	32.02	67.7	67.5	07.4	4.61	4.60	4.00	2.08	2.12	2.14	2	2.00
31/10/2012	18:06	Fine	Middle	1.5	23.60	23.60	23.60	8.26	8.26	8.26	30.95	30.95	30.95	74.3	73.3	73.2	5.31	5.32	5.26	2.88	2.84	2.89	4	4.00
31/10/2012	18:07	Tille	Middle	1.5	23.60	23.60	23.00	8.26	8.26	0.20	30.95	30.95	30.93	72.7	72.4	73.2	5.23	5.16	3.20	2.90	2.94	2.09	4	4.00
2/11/2012	18:50	Cloudy	Middle	1.5	24.20	24.20	24.20	8.35	8.35	8.35	31.55	31.55	31.55	73.4	74.3	73.5	5.19	5.22	5.17	3.86	3.45	3.57	6	6.00
2/11/2012	18:51	Oloudy	Middle	1.5	24.20	24.20	24.20	8.35	8.35	0.55	31.55	31.55	31.55	73.5	72.9	70.0	5.14	5.12	3.17	3.35	3.60	0.07	6	0.00
5/11/2012	19:55	Haze	Middle	1.5	24.60	24.60	24.60	8.21	8.21	8.21	31.49	31.49	31.49	77.6	77.9	77.3	5.43	5.43	5.39	3.38	3.44	3.47	4	4.00
3/11/2012	19:56	TIAZE	Middle	1.5	24.60	24.60	24.00	8.21	8.21	0.21	31.49	31.49	31.43	77.0	76.7	11.5	5.36	5.34	3.33	3.48	3.58	5.47	4	4.00
8/11/2012	15:02	Fine	Middle	1.5	25.10	25.10	25.10	7.52	7.52	7.52	32.40	32.40	32.40	54.1	55.3	55.8	4.71	3.79	4.07	4.20	3.95	4.03	2	2.50
3,11,2012	15:04		Middle	1.5	25.10	25.10	20.10	7.52	7.52	7.102	32.40	32.40	02.10	56.3	57.3	00.0	3.85	3.92		3.69	4.26		3	2.00
10/11/2012	14;52	Fine	Middle	1.5	26.30	26.30	26.35	8.17	8.17	8.17	31.73	31.73	31.73	61.4	63.4	62.9	4.15	4.27	4.24	5.54	5.64	5.53	7	6.50
10/11/2012	14:54	1 1110	Middle	1.5	26.40	26.40	20.00	8.17	8.17	0.17	31.73	31.73	01.70	63.3	63.5	02.0	4.27	4.28	7.27	5.42	5.50	0.00	6	0.00
12/11/2012	16:14	Fine	Middle	1.5	24.20	24.20	24.20	8.30	8.30	8.30	31.46	31.46	31.47	64.7	64.3	64.3	4.51	4.48	4.49	4.00	3.97	3.97	4	4.00
12/11/2012	16:16	1 1110	Middle	1.5	24.20	24.20	24.20	8.30	8.30	0.00	31.47	31.47	01.47	63.9	64.2	04.0	4.46	4.49	4.40	4.05	3.87	0.07	4	4.00
14/11/2012	16:17	Fine	Middle	1.5	24.80	24.80	24.80	8.20	8.20	8.20	31.73	31.73	31.73	65.2	65.1	63.6	4.52	4.52	4.41	3.94	4.18	4.14	5	4.50
	16:18		Middle	1.5	24.80	24.80		8.20	8.20		31.73	31.73		62.7	61.5		4.32	4.27		4.14	4.28		4	
17/11/2012	11:12	Fine	Middle	1.5	23.60	23.60	23.55	8.32	8.32	8.33	32.04	32.04	32.05	63.3	63.3	63.4	4.47	4.47	4.47	14.30	14.10	13.60	14	14.00
	11:14		Middle	1.5	23.50	23.50		8.34	8.34		32.05	32.05		63.5	63.3		4.48	4.47		13.00	13.00		14	
19/11/2012	12:10	Fine	Middle	1.5	23.90	23.90	23.90	8.23	8.23	8.23	31.84	31.84	31.85	70.1	70.0	70.2	4.95	4.94	4.95	6.92	6.97	7.09	6	7.00
	12:12		Middle	1.5	23.90	23.90		8.23	8.23		31.86	31.86		70.5	70.0		4.98	4.94		7.20	7.25		8	
22/11/2012	14:33	Fine	Middle	1.5	24.50	24.50	24.55	7.87	7.87	7.88	31.63	31.63	31.64	43.4	42.8	42.9	3.02	2.98	2.99	2.04	2.10	2.07	<2	<2
	14:35		Middle	1.5	24.60	24.60		7.88	7.88		31.65	31.65		43.0	42.5		3.00	2.95		2.05	2.07		<2	
24/11/2012	14:52	Fine	Middle	1.5	23.10	23.10	23.05	8.18	8.18	8.19	31.64	31.64	31.64	61.2	60.0	58.9	4.38	4.26	4.20	7.49	7.85	7.57	8	8.50
	14:53		Middle	1.5	23.00	23.00		8.19	8.19		31.64	31.64		58.0	56.2		4.14	4.02		7.48	7.44		9	
26/11/2012	18:15	Cloudy	Middle	1.5	21.00	21.00	21.00	7.94	7.94	7.94	32.01	32.01	32.01	75.6	74.9	74.7	5.59	5.55	5.53	6.47	6.83	6.61	5	5.50
	18:17	,	Middle	1.5	21.00	21.00		7.94	7.94		32.01	32.01		74.4	74.0		5.51	5.48		6.73	6.40		6	



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

Date	Time	Weater Condition		ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
29/10/2012	5:09	Claudy	Middle	2.5	25.50	25.50	05.05	7.54	7.54	7.55	32.68	32.68	32.68	64.3	64.1	64.0	4.39	4.38	4.37	2.88	2.86	2.04	5	4.50
29/10/2012	5:11	Cloudy	Middle	2.5	25.20	25.20	25.35	7.55	7.55	7.55	32.67	32.67	32.00	63.9	63.8	04.0	4.36	4.36	4.37	2.82	2.81	2.84	4	4.50
31/10/2012	16:36	Fine	Middle	2.0	24.70	24.70	24.50	7.60	7.60	7.60	32.75	32.75	32.74	65.5	65.3	65.3	4.54	4.53	4.53	3.78	3.78	3.76	5	5.50
31/10/2012	16:38	Tille	Middle	2.0	24.30	24.30	24.30	7.60	7.60	7.00	32.73	32.73	32.74	65.2	65.0	03.3	4.53	4.52	4.55	3.76	3.72	3.70	6	3.30
2/11/2012	18:13	Cloudy	Middle	2.5	24.60	24.60	24.45	7.59	7.59	7.59	32.78	32.78	32.78	61.9	61.8	61.7	4.33	4.33	4.32	2.97	2.94	2.93	3	3.50
2/11/2012	18:15	Oloddy	Middle	2.5	24.30	24.30	24.40	7.58	7.58	7.00	32.77	32.77	32.70	61.6	61.4	01.7	4.32	4.31	4.52	2.91	2.89	2.33	4	3.30
5/11/2012	19:45	Haze	Middle	2.5	24.90	24.90	24.80	7.52	7.52	7.53	32.83	32.83	32.82	64.1	63.7	63.7	4.27	4.25	4.25	2.35	2.33	2.32	5	5.00
3/11/2012	19:48	Tiaze	Middle	2.5	24.70	24.70	24.00	7.54	7.54	7.55	32.80	32.80	32.02	63.5	63.4	03.7	4.24	4.23	4.23	2.31	2.29	2.52	5	3.00
8/11/2012	14:18	Fine	Middle	1.5	24.70	24.70	24.70	7.59	7.59	7.59	32.85	32.85	32.85	73.5	73.3	73.4	5.08	5.06	5.07	4.25	4.28	4.07	5	4.50
0/11/2012	14:20	Tillo	Middle	1.5	24.70	24.70	24.70	7.59	7.59	7.55	32.85	32.85	32.03	73.1	73.8	75.4	5.05	5.10	3.07	3.85	3.91	4.07	4	4.50
10/11/2012	14:35	Fine	Middle	1.5	25.40	25.40	25.40	7.51	7.51	7.51	32.81	32.81	32.81	63.0	62.9	63.1	4.29	4.29	4.30	4.43	4.87	4.75	3	3.50
10/11/2012	14:37	Tillo	Middle	1.5	25.40	25.40	20.40	7.51	7.51	7.01	32.81	32.81	32.01	63.1	63.4	00.1	4.30	4.33	4.50	4.99	4.71	4.75	4	3.30
12/11/2012	15:55	Fine	Middle	1.5	24.50	24.50	24.45	7.53	7.53	7.53	32.73	32.73	32.77	61.0	61.4	61.3	4.22	4.25	4.25	3.07	3.21	3.15	6	5.00
12/1/2012	15:57		Middle	1.5	24.40	24.40	2	7.52	7.52	7.00	32.80	32.80	02.17	61.7	60.9	01.0	4.28	4.23	20	3.14	3.18	0.10	4	0.00
14/11/2012	16:15	Fine	Middle	2.0	24.60	24.60	24.60	7.55	7.55	7.55	32.94	32.94	32.94	70.6	70.7	71.0	4.90	4.91	4.93	3.29	3.26	3.25	3	3.00
. ,, . ,, _ ,	16:17		Middle	2.0	24.60	24.60		7.55	7.55		32.94	32.94		71.2	71.4		4.94	4.96		3.25	3.20	0	3	
17/11/2012	8:54	Fine	Middle	1.5	23.20	23.20	23.10	7.94	7.94	7.94	31.63	31.63	31.63	66.1	64.8	65.9	4.72	4.63	4.72	5.07	5.14	5.09	10	10.50
	8:56		Middle	1.5	23.00	23.00		7.94	7.94		31.62	31.62		66.6	66.0		4.78	4.73		5.11	5.05	0.00	11	
19/11/2012	10:51	Fine	Middle	2.5	23.60	23.60	23.93	7.94	7.94	7.93	32.43	32.43	32.43	67.3	67.0	67.3	4.75	4.73	4.75	4.70	4.63	4.64	7	7.00
	10:53		Middle	2.5	25.10	23.40		7.91	7.91		32.43	32.43		67.8	67.0		4.79	4.74		4.62	4.61		7	
22/11/2012	15:17	Fine	Middle	1.5	24.20	24.20	24.30	8.85	8.85	8.86	32.63	32.63	32.63	66.0	65.6	65.0	4.59	4.56	4.51	3.19	3.17	3.18	4	4.50
	15:19		Middle	1.5	24.40	24.40		8.87	8.87		32.62	32.62		64.3	63.9		4.46	4.44		3.16	3.19		5	
24/11/2012	14:30	Fine	Middle	1.5	22.70	22.70	22.65	7.91	7.91	7.91	32.47	32.47	32.50	65.3	64.3	65.0	4.67	4.60	4.65	1.17	1.14	1.16	3	2.50
	14:32		Middle	1.5	22.60	22.60		7.90	7.90		32.52	32.52		65.4	64.8		4.69	4.64		1.18	1.13		2	<u> </u>
26/11/2012	15:34	Cloudy	Middle	2.0	22.40	22.40	22.40	7.87	7.87	7.87	32.80	32.80	32.80	64.4	63.4	64.2	4.66	4.59	4.65	2.49	2.41	2.48	4	3.50
	15:36	,	Middle	2.0	22.40	22.40		7.86	7.86		32.80	32.80		63.8	65.1		4.62	4.74		2.47	2.56		3	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	4:50	Cloudy	Middle	2.5	25.50	25.50	25.40	7.52	7.52	7.53	32.70	32.70	32.68	62.2	62.1	61.9	4.24	4.23	4.22	1.77	1.74	1.73	6	5.00
29/10/2012	4:52	Oloudy	Middle	2.5	25.30	25.30	20.40	7.53	7.53	7.00	32.66	32.66	32.00	61.8	61.6	01.5	4.21	4.20	7.22	1.71	1.69	1.75	4	3.00
31/10/2012	16:18	Fine	Middle	2.0	24.90	24.90	24.65	7.61	7.61	7.61	32.74	32.74	32.74	67.8	67.5	67.4	4.67	4.66	4.65	4.56	4.54	4.54	7	7.00
31/10/2012	16:20	Tille	Middle	2.0	24.40	24.40	24.03	7.61	7.61	7.01	32.73	32.73	32.74	67.2	67.1	07.4	4.64	4.64	4.00	4.53	4.52	4.54	7	7.00
2/11/2012	17:50	Cloudy	Middle	2.0	24.80	24.80	24.65	7.53	7.53	7.55	32.35	32.35	32.36	62.3	62.1	62.0	4.32	4.31	4.31	4.58	4.57	4.56	6	6.50
2/11/2012	17:52	Cloudy	Middle	2.0	24.50	24.50	24.00	7.57	7.57	7.00	32.36	32.36	02.00	61.9	61.8	02.0	4.30	4.30	4.01	4.55	4.53	4.00	7	0.00
5/11/2012	19:27	Haze	Middle	2.0	25.30	25.30	25.20	7.48	7.48	7.49	32.80	32.80	32.80	61.1	60.9	60.8	4.19	4.18	4.18	1.97	1.96	1.95	5	4.50
371172012	19:29	riazo	Middle	2.0	25.10	25.10	20.20	7.49	7.49	7110	32.79	32.79	02.00	60.7	60.6	00.0	4.17	4.17		1.94	1.93	1100	4	
8/11/2012	13:18	Fine	Middle	1.5	24.70	24.70	24.70	7.59	7.59	7.59	32.95	32.95	32.95	75.1	75.3	75.3	5.18	5.19	5.19	5.89	5.84	5.85	5	4.50
371172012	13:20	1 1110	Middle	1.5	24.70	24.70	2 0	7.59	7.59	7.00	32.95	32.95	02.00	75.5	75.2	7 0.0	5.21	5.19	0.10	5.58	6.09	0.00	4	
10/11/2012	14:21	Fine	Middle	1.5	25.70	25.70	25.70	7.56	7.56	7.56	32.83	32.83	32.83	68.4	68.0	68.4	4.63	4.60	4.62	3.47	3.44	3.43	3	3.50
10/11/2012	14:23	1 1110	Middle	1.5	25.70	25.70	20.70	7.56	7.56	7.00	32.83	32.83	02.00	68.6	68.7	00.4	4.64	4.61	4.02	3.41	3.40	0.40	4	0.00
12/11/2012	15:43	Fine	Middle	1.5	24.70	24.70	24.60	7.54	7.54	7.54	32.80	32.80	32.82	63.4	62.9	63.1	4.38	4.35	4.37	2.99	2.86	2.95	6	5.50
12,11,2012	15:45	0	Middle	1.5	24.50	24.50	2 1100	7.53	7.53	7.0.	32.84	32.84	02.02	63.7	62.4	0011	4.41	4.32		2.94	3.02	2.00	5	0.00
14/11/2012	17:42	Fine	Middle	2.0	24.80	24.80	24.80	7.55	7.55	7.55	32.95	32.95	32.95	66.8	67.5	67.3	4.61	4.67	4.65	4.86	4.32	4.64	4	3.50
. , , , , , , , , , , , , , , , , , , ,	17:44		Middle	2.0	24.80	24.80		7.55	7.55		32.95	32.95		67.7	67.1		4.67	4.63		4.67	4.69		3	
17/11/2012	8:42	Fine	Middle	1.5	23.40	23.40	23.25	7.65	7.65	7.67	32.11	32.11	32.13	66.6	64.4	66.0	4.74	4.58	4.70	3.98	3.97	3.98	10	10.50
	8:44	-	Middle	1.5	23.10	23.10		7.68	7.68		32.15	32.15		66.9	66.2		4.76	4.71		4.02	3.94		11	
19/11/2012	10:35	Fine	Middle	1.5	23.80	23.80	23.80	7.84	7.84	7.87	32.36	32.36	32.38	69.9	69.3	69.7	4.91	4.87	4.89	2.32	2.37	2.31	5	4.50
	10:37		Middle	1.5	23.80	23.80		7.89	7.89		32.39	32.39		69.8	69.6		4.90	4.89		2.26	2.30		4	
22/11/2012	16:05	Fine	Middle	2.0	24.90	24.90	24.85	8.83	8.83	8.84	32.42	32.42	31.93	66.1	63.5	64.8	4.59	4.40	4.50	2.04	2.03	2.06	3	3.00
	16:07	-	Middle	2.0	24.80	24.80		8.85	8.85		31.43	31.43		64.7	64.8		4.49	4.50		2.11	2.07		3	
24/11/2012	14:18	Fine	Middle	1.5	22.80	22.80	22.85	7.77	7.77	7.79	32.62	32.62	32.63	62.4	63.9	63.5	4.44	4.54	4.52	2.07	2.14	2.07	4	3.50
	14:20		Middle	1.5	22.90	22.90		7.80	7.80		32.63	32.63		64.2	63.4		4.57	4.52		2.04	2.02		3	
26/11/2012	15:22	Cloudy	Middle	2.0	22.60	22.60	22.60	7.74	7.74	7.74	32.83	32.83	32.83	71.5	71.7	71.6	5.17	5.18	5.17	1.61	1.37	1.50	3	3.50
	15:24	,	Middle	2.0	22.60	22.60		7.74	7.74		32.83	32.83		71.4	71.6		5.16	5.18	<del></del>	1.46	1.55		4	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	6:45	Claudy	Middle	3.0	25.10	25.10	25.05	7.48	7.48	7.49	32.70	32.70	32.72	59.5	59.3	59.2	4.08	4.07	4.07	1.44	1.41	1.40	5	5.50
29/10/2012	6:47	Cloudy	Middle	3.0	25.00	25.00	25.05	7.50	7.50	7.49	32.73	32.73	32.72	59.1	59.0	59.2	4.06	4.06	4.07	1.38	1.37	1.40	6	5.50
31/10/2012	18:59	Fine	Middle	3.0	24.90	24.90	24.70	7.65	7.65	7.65	32.64	32.64	32.62	56.4	56.1	56.1	3.94	3.93	3.93	3.80	3.77	3.77	5	- 5.50
31/10/2012	19:01	Tille	Middle	3.0	24.50	24.50	24.70	7.65	7.65	7.05	32.59	32.59	32.02	56.0	55.9	30.1	3.93	3.92	3.93	3.75	3.74	3.11	6	3.30
2/11/2012	-	The lighting system	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	_
2/11/2012	-	was off	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
5/11/2012	-	The lighting system	Middle	-	-	-		-	-	_	-	-	_	-	-		-	-		-	-	_	-	_
0/11/2012	•	was off	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
8/11/2012	13:44	Fine	Middle	3.5	25.20	25.20	25.20	7.59	7.59	7.59	32.74	32.74	32.74	64.7	66.4	66.1	4.45	4.57	4.55	5.86	6.04	5.79	4	4.00
0,11,2012	13:46		Middle	3.5	25.20	25.20	20.20	7.59	7.59	7.00	32.74	32.74	02.11	66.1	67.2	00.1	4.55	4.63		5.40	5.86	0.70	4	
10/11/2012	15:37	Fine	Middle	2.5	25.60	25.60	25.60	7.41	7.41	7.41	32.20	32.20	32.20	52.8	53.1	53.2	3.60	3.62	3.62	5.21	5.43	5.37	7	7.50
10/11/2012	15:39	Tillo	Middle	2.5	25.60	25.60	20.00	7.41	7.41	7.41	32.20	32.20	02.20	53.3	53.4	00.2	3.63	3.64	0.02	5.48	5.37	0.01	8	7.00
12/11/2012	16:50	Fine	Middle	2.5	25.00	25.00	24.90	7.50	7.50	7.51	32.66	32.66	32.67	56.6	56.7	56.7	3.89	3.90	3.91	3.62	3.54	3.58	4	5.00
12/1//2012	16:52		Middle	2.5	24.80	24.80	2 1100	7.51	7.51	7.0.	32.67	32.67	02.01	57.0	56.6	00	3.93	3.90	0.01	3.58	3.56	0.00	6	0.00
14/11/2012	17:23	Fine	Middle	2.5	25.00	25.00	25.00	7.53	7.53	7.53	32.73	32.73	32.73	59.4	59.6	59.3	4.16	4.12	4.11	4.68	4.82	4.71	4	4.50
	17:25		Middle	2.5	25.00	25.00		7.53	7.53		32.73	32.73	<u> </u>	58.9	59.3		4.06	4.09		4.67	4.67		5	
17/11/2012	10:00	Fine	Middle	3.0	23.70	23.70	23.55	7.93	7.93	7.93	32.08	32.08	32.08	56.3	56.0	56.5	3.98	3.96	4.00	3.03	2.99	2.98	18	18.00
	10:02	-	Middle	3.0	23.40	23.40		7.92	7.92		32.08	32.08		57.7	56.1		4.09	3.96		3.00	2.89		18	
19/11/2012	12:07	Fine	Middle	2.5	23.70	23.70	23.65	7.92	7.92	7.91	31.95	31.95	32.02	53.2	52.9	53.3	3.76	3.73	3.76	2.95	2.98	2.95	4	3.50
	12:09		Middle	2.5	23.60	23.60		7.90	7.90		32.08	32.08		54.0	53.1		3.81	3.75		2.92	2.93		3	
22/11/2012	15:52	Fine	Middle	3.0	24.70	24.70	24.70	8.91	8.91	8.92	32.42	32.42	31.93	49.4	49.5	48.8	3.41	3.42	3.37	3.85	3.84	3.86	4	4.50
	15:54		Middle	3.0	24.70	24.70		8.92	8.92		31.43	31.43		48.4	47.8		3.34	3.30		3.87	3.88		5	
24/11/2012	15:49	Fine	Middle	3.0	22.80	22.80	22.70	7.81	7.81	7.80	32.41	32.41	32.44	51.0	50.4	50.8	3.66	3.62	3.65	2.63	2.68	2.65	4	3.50
	15:51		Middle	3.0	22.60	22.60		7.79	7.79		32.47	32.47		51.3	50.3		3.69	3.62		2.66	2.62		3	
26/11/2012	16:42	Cloudy	Middle	3.0	22.70	22.70	22.70	7.60	7.60	7.60	32.59	32.59	32.59	57.5	57.6	58.7	4.12	4.13	4.21	6.47	6.38	6.51	5	5.00
	16:44		Middle	3.0	22.70	22.70		7.60	7.60		32.59	32.59		59.4	60.1		4.27	4.32		6.67	6.53		5	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va		Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue	Average	Va		Average	Va	lue	Average	_	Average
20/40/2042	6:10	Claudy	Middle	2.5	25.60	25.60	25.45	7.52	7.52	7.50	32.56	32.56	22.50	61.3	61.2	C1.1	4.19	4.19	4.40	2.30	2.28	2.26	3	2.00
29/10/2012	6:12	Cloudy	Middle	2.5	25.30	25.30	25.45	7.53	7.53	7.53	32.55	32.55	32.56	61.0	60.9	61.1	4.18	4.17	4.18	2.25	2.21	2.26	3	3.00
31/10/2012	17:47	Fine	Middle	2.5	24.70	24.70	24.55	7.68	7.68	7.69	32.54	32.54	32.53	60.7	60.5	60.4	4.21	4.20	4.20	4.99	4.98	4.97	4	4.00
31/10/2012	17:49	Tille	Middle	2.5	24.40	24.40	24.00	7.69	7.69	7.05	32.51	32.51	32.00	60.3	60.1	00.4	4.19	4.18	4.20	4.96	4.95	4.51	4	4.00
2/11/2012	19:21	Cloudy	Middle	2.5	24.60	24.60	24.35	7.60	7.60	7.59	32.75	32.75	32.76	61.0	60.8	60.7	4.24	4.23	4.22	2.99	2.96	2.96	3	3.50
27.172012	19:23	O.oudy	Middle	2.5	24.10	24.10	2 1100	7.58	7.58	7.00	32.77	32.77	02.10	60.5	60.3	00.1	4.21	4.20		2.95	2.93	2.00	4	0.00
5/11/2012	20:27	Haze	Middle	2.5	24.60	24.60	24.40	7.48	7.48	7.49	32.64	32.64	32.64	58.5	58.3	58.2	4.08	4.07	4.07	1.73	1.70	1.69	5	5.50
	20:29		Middle	2.5	24.20	24.20		7.49	7.49		32.63	32.63		58.1	58.0		4.06	4.05		1.67	1.64		6	
8/11/2012	13:32	Fine	Middle	2.0	25.20	25.20	25.20	7.61	7.61	7.61	32.76	32.76	32.76	66.7	67.2	67.2	4.58	4.62	4.62	4.42	4.23	4.43	4	4.50
	13:35		Middle	2.0	25.20	25.20		7.61	7.61		32.76	32.76		67.3	67.6		4.62	4.64		4.59	4.49		5	
10/11/2012	15:19	Fine	Middle	1.5	25.70	25.70	25.70	7.41	7.41	7.41	32.34	32.34	32.34	44.6	44.1	44.4	2.96	2.95	2.95	2.30	2.34	2.38	4	3.50
	15:21		Middle	1.5	25.70	25.70		7.41	7.41		32.34	32.34		44.7	44.0		2.97	2.91		2.48	2.40		3	
12/11/2012	16:29	Fine	Middle	1.5	25.10	25.10	25.00	7.54	7.54	7.54	32.67	32.67	32.73	56.0	56.3	56.1	3.84	3.85	3.79	3.14	3.18	3.22	4	5.00
	16:30		Middle	1.5	24.90	24.90		7.53	7.53		32.78	32.78		56.4	55.8		3.86	3.62		3.29	3.25		6	
14/11/2012	17:03	Fine	Middle	2.0	24.90	24.90	24.90	7.54	7.54	7.54	32.78	32.78	32.78	64.3	64.1	63.9	4.15	4.44	4.35	3.26	3.25	3.31	3	3.00
	17:05		Middle	2.0	24.90	24.90		7.54	7.54		32.78	32.78	1	63.2	63.9		4.37	4.42		3.28	3.43		3	<u> </u>
17/11/2012	9:35	Fine	Middle	2.0	23.60	23.60	23.60	7.97	7.97	7.96	31.87	31.87	31.88	57.2	57.9	57.6	4.04	4.09	4.07	3.45	3.46	3.45	7	7.50
	9:36		Middle	2.0	23.60	23.60		7.94	7.94		31.89	31.89		58.0	57.2		4.10	4.04		3.44	3.46		8	1
19/11/2012	11:43	Fine	Middle	1.5	23.90	23.90	23.85	7.86	7.86	7.86	32.21	32.21	32.21	56.0	55.7	56.0	3.93	3.91	3.93	5.84	5.83	5.86	4	4.00
	11:45		Middle	1.5	23.80	23.80		7.85	7.85		32.21	32.21		56.2	55.9		3.94	3.92		5.92	5.84		4	
22/11/2012	15:40	Fine	Middle	2.0	24.90	24.90	24.90	8.62	8.62	8.63	32.40	32.40	32.40	58.7	58.1	57.8	4.04	4.01	3.98	5.62	5.62	5.68	5	5.50
	15:42		Middle	2.0	24.90	24.90		8.63	8.63		32.40	32.40		57.4	57.1		3.95	3.93		5.73	5.76		6	<u> </u>
24/11/2012	15:08	Fine	Middle	2.0	23.10	23.10	23.00	7.89	7.89	7.88	32.26	32.26	32.31	49.6	48.1	48.9	3.54	3.43	3.49	3.21	3.17	3.20	4	3.50
	15:10		Middle	2.0	22.90	22.90		7.86	7.86		32.35	32.35		49.9	48.0		3.56	3.44		3.28	3.14		3	<u> </u>
26/11/2012	16:22	Cloudy	Middle	2.5	23.00	23.00	23.00	7.88	7.88	7.88	32.56	32.56	32.56	60.7	61.8	61.8	4.36	4.45	4.45	5.53	5.47	5.61	6	5.50
	16:24		Middle	2.5	23.00	23.00		7.88	7.88		32.56	32.56		62.2	62.5		4.48	4.51		5.81	5.62		5	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	6:33	Cloudy	Middle	2.5	25.70	25.70	25.60	7.43	7.43	7.45	32.64	32.64	32.65	60.7	60.5	60.5	4.13	4.12	4.12	1.28	1.27	1.26	5	4.50
29/10/2012	6:35	Cloudy	Middle	2.5	25.50	25.50	25.60	7.46	7.46	7.45	32.66	32.66	32.00	60.4	60.3	60.5	4.11	4.11	4.12	1.25	1.23	1.20	4	4.50
31/10/2012	18:30	Fine	Middle	2.5	25.00	25.00	24.85	7.66	7.66	7.66	32.48	32.48	32.47	63.4	63.2	63.2	4.77	4.76	4.76	3.67	3.65	3.65	4	3.50
31/10/2012	18:32	Tille	Middle	2.5	24.70	24.70	24.03	7.65	7.65	7.00	32.46	32.46	32.47	63.1	63.0	03.2	4.75	4.75	4.70	3.64	3.63	3.03	3	3.30
2/11/2012	19:25	Cloudy	Middle	2.5	24.60	24.60	24.45	7.56	7.56	7.56	32.63	32.63	32.62	61.4	61.2	61.1	4.25	4.24	4.23	2.23	2.21	2.20	4	4.00
2/11/2012	19:29	Cloudy	Middle	2.5	24.30	24.30	24.40	7.55	7.55	7.50	32.60	32.60	32.02	60.9	60.8	01.1	4.22	4.21	4.23	2.19	2.17	2.20	4	4.00
5/11/2012	20:32	Haze	Middle	2.5	24.90	24.90	24.65	7.46	7.46	7.47	32.62	32.62	32.63	57.7	57.5	57.4	4.02	4.01	4.01	1.03	0.98	0.97	4	3.50
3/11/2012	20:35	Tidze	Middle	2.5	24.40	24.40	24.03	7.47	7.47	7.47	32.64	32.64	32.03	57.3	57.2	57.4	4.00	3.99	4.01	0.95	0.93	0.57	3	3.30
8/11/2012	13:39	Fine	Middle	2.0	25.10	25.10	25.10	7.59	7.59	7.59	32.73	32.73	32.73	63.2	63.8	64.2	4.33	4.38	4.40	4.80	4.08	4.23	3	3.50
0/11/2012	13:41	1 1110	Middle	2.0	25.10	25.10	20.10	7.59	7.59	7.00	32.73	32.73	02.70	64.7	65.0	04.2	4.44	4.46	4.40	4.03	4.01	4.20	4	0.00
10/11/2012	15:31	Fine	Middle	1.5	25.40	25.40	25.40	7.37	7.37	7.37	32.40	32.40	32.40	46.5	46.8	47.0	3.18	3.20	3.22	2.50	2.54	2.58	4	4.00
10/11/2012	15:33	Tille	Middle	1.5	25.40	25.40	25.40	7.37	7.37	7.57	32.40	32.40	32.40	47.2	47.6	47.0	3.23	3.25	<u> </u>	2.62	2.64	2.50	4	4.00
12/11/2012	16:37	Fine	Middle	1.5	25.10	25.10	25.05	7.50	7.50	7.51	32.72	32.72	32.72	58.8	58.2	58.7	4.04	4.00	4.04	3.33	3.40	3.38	6	6.00
12/11/2012	16:39	1 1110	Middle	1.5	25.00	25.00	20.00	7.51	7.51	7.01	32.72	32.72	02.72	59.5	58.4	00.7	4.10	4.03	4.04	3.42	3.35	0.00	6	0.00
14/11/2012	17:14	Fine	Middle	2.0	24.80	24.80	24.80	7.52	7.52	7.52	32.67	32.67	32.67	61.9	61.5	61.8	4.27	4.25	4.27	3.40	3.42	3.43	3	3.50
14/11/2012	17:16	1 1110	Middle	2.0	24.80	24.80	24.00	7.52	7.52	7.02	32.67	32.67	02.01	61.7	61.9	01.0	4.26	4.28	7.27	3.41	3.47	0.40	4	0.00
17/11/2012	9:48	Fine	Middle	1.5	23.90	23.90	23.80	7.97	7.97	7.96	32.02	32.02	32.01	56.9	56.1	56.6	4.01	3.94	3.98	2.79	2.84	2.79	7	7.50
17/17/2012	9:50	1 1110	Middle	1.5	23.70	23.70	20.00	7.95	7.95	7.00	32.00	32.00	02.01	57.1	56.3	00.0	4.02	3.95	0.00	2.77	2.75	2.70	8	7.00
19/11/2012	11:53	Fine	Middle	2.0	23.90	23.90	23.80	7.94	7.94	7.94	32.23	32.23	32.24	56.6	56.9	56.7	3.98	4.00	3.99	5.94	5.97	5.92	4	4.00
10/11/2012	11:55	1 1110	Middle	2.0	23.70	23.70	20.00	7.93	7.93	7.04	32.24	32.24	OZ.Z-	56.8	56.5	00.7	3.99	3.98	0.00	5.87	5.89	0.02	4	4.00
22/11/2012	15:44	Fine	Middle	1.5	24.80	24.80	24.85	8.51	8.51	8.52	32.84	32.84	32.35	52.3	51.7	51.8	3.62	3.58	3.58	2.95	2.94	2.94	3	3.00
	15:46	0	Middle	1.5	24.90	24.90	00	8.52	8.52		31.86	31.86		51.4	51.6	20	3.56	3.57	2.30	2.94	2.93		3	
24/11/2012	15:20	Fine	Middle	1.5	23.10	23.10	23.00	7.83	7.83	7.82	32.35	32.35	32.40	49.2	48.4	48.9	3.54	3.46	3.51	0.86	0.92	0.87	4	3.00
	15:22		Middle	1.5	22.90	22.90		7.80	7.80		32.44	32.44		49.2	48.7		3.54	3.48		0.87	0.84		2	
26/11/2012	16:30	Cloudy	Middle	2.5	22.90	22.90	22.90	7.80	7.80	7.81	32.59	32.59	32.59	56.1	56.3	56.7	4.02	4.03	4.06	3.27	3.45	3.34	4	4.50
20,11,2012	16:36	5.544,	Middle	2.5	22.90	22.90	22.00	7.82	7.82		32.59	32.59	52.00	57.1	57.3		4.09	4.11		3.36	3.29	0.0 .	5	



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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salinit	ту	D	O Satura	ation		DO mg/L			Turbid NTU			led Solids a/L
			r	n	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	Average
29/10/2012	5:50	Cloudy	Middle	1.0	25.70	25.70	25.70	8.36	8.36	8.36	32.89	32.89	32.89	78.2	79.7	78.7	5.45	5.41	5.38	5.58	5.38	5.66	11	11.50
29/10/2012	5:51	Cloudy	Middle	1.0	25.70	25.70	25.70	8.36	8.36	0.30	32.89	32.89	32.09	78.8	78.0	76.7	5.34	5.30	5.56	5.75	5.91	5.00	12	11.50
31/10/2012	20:05	Fine	Middle	1.5	24.20	24.20	24.23	8.49	8.49	8.49	31.92	31.93	31.93	83.7	83.2	82.4	6.00	5.93	5.82	5.76	6.04	6.08	7	7.00
31/10/2012	20:06	Fille	Middle	1.5	24.20	24.30	24.23	8.50	8.49	0.49	31.93	31.93	31.93	81.1	81.4	02.4	5.65	5.70	5.62	6.14	6.36	0.08	7	7.00
2/11/2012	20:22	Cloudy	Middle	1.5	23.90	23.90	23.90	8.46	8.46	8.46	32.19	32.19	32.19	76.3	77.6	77.7	5.36	5.45	5.46	4.63	4.73	4.82	7	7.00
2/11/2012	20:23	Cloudy	Middle	1.5	23.90	23.90	25.50	8.46	8.46	0.40	32.19	32.19	32.19	79.7	77.1	77.7	5.60	5.41	5.40	4.90	5.03	4.02	7	7.00
5/11/2012	22:00	Haze	Middle	1.5	24.00	24.00	24.00	8.28	8.28	8.28	32.19	32.19	32.19	81.4	81.8	81.6	5.71	5.74	5.72	3.80	3.74	3.86	4	4.00
3/11/2012	22:01	Tiaze	Middle	1.5	24.00	24.00	24.00	8.28	8.28	0.20	32.19	32.19	32.19	81.8	81.4	01.0	5.73	5.70	5.72	3.98	3.91	3.00	4	4.00
8/11/2012	14:20	Fine	Middle	1.5	25.80	25.80	25.80	8.36	8.36	8.36	32.36	32.36	32.36	72.4	71.9	72.2	4.90	4.87	4.88	4.33	4.29	4.16	5	5.50
0,11,2012	14:23	1 110	Middle	1.5	25.80	25.80	20.00	8.36	8.36	0.00	32.36	32.36	02.00	72.6	71.8		4.91	4.85		3.99	4.02	0	6	0.00
10/11/2012	14:10	Fine	Middle	1.5	26.10	26.00	26.08	8.50	8.50	8.50	32.26	32.26	32.26	66.1	65.8	66.2	4.47	4.45	4.48	7.66	7.61	7.44	4	5.00
10/11/2012	14:12	1 110	Middle	1.5	26.10	26.10	20.00	8.50	8.50	0.00	32.26	32.26	02.20	66.1	66.9	00.2	4.47	4.52	0	7.34	7.14		6	0.00
12/11/2012	15:19	Fine	Middle	1.5	24.80	24.80	24.75	8.24	8.24	8.24	32.14	32.14	32.15	71.8	71.8	70.9	4.96	4.96	4.90	4.58	4.56	4.57	7	7.00
	15:21		Middle	1.5	24.70	24.70		8.24	8.24		32.15	32.15		70.4	69.7		4.87	4.82		4.46	4.67		7	
14/11/2012	18:51	Fine	Middle	1.5	24.30	24.30	24.30	8.34	8.34	8.35	32.34	32.34	32.35	73.6	72.6	73.3	5.13	5.06	5.11	7.20	7.32	7.25	7	6.50
	18:53		Middle	1.5	24.30	24.30		8.35	8.35		32.36	32.36		73.5	73.4		5.13	5.12		7.29	7.20		6	
<b>*</b> 17/11/2012	9:23	Fine	Middle	2.0	23.80	23.80	23.80	7.95	7.95	7.95	31.86	31.86	31.85	61.7	61.0	61.6	4.34	4.29	4.33	4.88	4.70	4.77	8	9.00
	9:24		Middle	2.0	23.80	23.80		7.94	7.94		31.84	31.84		62.1	61.4		4.37	4.32		4.74	4.77		10	
19/11/2012	11:22	Fine	Middle	1.5	24.20	24.20	24.15	8.31	8.31	8.30	31.94	31.94	31.95	62.4	68.1	66.0	4.71	4.75	4.70	3.93	3.85	3.80	3	3.50
	11:24		Middle	1.5	24.10	24.10		8.29	8.29		31.95	31.95		66.6	67.0		4.65	4.69		3.78	3.63		4	
22/11/2012	13:34	Fine	Middle	1.5	25.20	25.20	25.30	8.24	8.24	8.24	32.43	32.43	32.43	68.5	67.6	68.3	4.68	4.61	4.65	4.51	4.55	4.55	5	6.00
	13:36		Middle	1.5	25.40	25.40		8.23	8.23		32.42	32.42		69.8	67.3		4.76	4.53		4.50	4.64		7	
24/11/2012	14:10	Fine	Middle	1.5	23.20	23.20	23.15	8.36	8.36	8.36	32.37	32.37	32.37	74.7	74.1	73.2	5.31	5.26	5.19	4.88	4.80	4.85	4	4.50
	14:12		Middle	1.5	23.10	23.10		8.35	8.35		32.37	32.37		72.4	71.4		5.14	5.06		4.71	5.00		5	
26/11/2012	17:06	Cloudy	Middle	1.0	22.50	22.50	22.45	7.88	7.88	7.88	33.07	33.07	33.09	56.6	56.8	56.3	4.05	4.07	4.03	2.62	2.52	2.68	2	2.50
	17:08		Middle	1.0	22.40	22.40		7.87	7.87		33.10	33.10		56.0	55.6		4.01	3.98		2.78	2.79		3	

Remarks:
Single underline denotes exceedance over Action Level
Double underline denotes exceedance over Limit Level
\*Due to the blockage of road access to C5e and C5w on 17 Nov 2012 during flood tide, the sample was taken in the alternative location-C5 under contingency plan and presented in C5e WQM result on 17 Nov 2012 during flood tide



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	r	n	Va		Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue %	Average	Va		Average	Va	alue	Average	Mg Value	Average
29/10/2012	6:02	Cloudy	Middle	1.0	25.80	25.80	25.80	8.41	8.41	8.41	31.32	31.32	31.32	76.7	76.8	76.6	5.25	5.25	5.23	23.60	23.20	22.52	33	22.00
29/10/2012	6:03	Cloudy	Middle	1.0	25.80	25.80	25.60	8.41	8.41	0.41	31.32	31.32	31.32	75.8	76.9	70.0	5.19	5.23	5.25	21.10	22.20	<u>22.53</u>	31	32.00
31/10/2012	19:57	Fine	Middle	1.5	23.80	23.80	23.80	8.50	8.50	8.50	32.05	32.05	32.05	78.7	78.7	79.8	5.62	5.63	5.66	9.69	9.40	9.43	11	10.50
01/10/2012	19:58	1 1110	Middle	1.5	23.80	23.80	20.00	8.50	8.50	0.00	32.05	32.05	02.00	81.4	80.5	70.0	5.72	5.65	0.00	9.28	9.33	<u>5.40</u>	10	10.00
2/11/2012	20:31	Cloudy	Middle	1.5	23.40	23.40	23.40	8.47	8.47	8.47	32.20	32.20	32.21	74.8	77.4	76.3	5.29	5.48	5.40	4.45	5.01	4.66	5	5.00
	20:32	,	Middle	1.5	23.40	23.40		8.47	8.47		32.21	32.21		77.2	75.8		5.47	5.36		4.55	4.62		5	
5/11/2012	22:10	Haze	Middle	1.5	24.10	24.10	24.05	8.27	8.27	8.27	32.17	32.17	32.17	82.3	83.2	82.3	5.78	5.83	5.78	3.88	3.87	3.96	4	4.00
	22:11		Middle	1.5	24.00	24.00		8.27	8.27		32.17	32.17		81.9	81.8		5.78	5.73		3.87	4.20		4	<u> </u>
8/11/2012	14:28	Fine	Middle	1.5	25.70	25.70	25.70	8.33	8.33	8.33	32.34	32.34	32.34	73.6	73.3	73.3	5.00	4.98	4.98	4.22	4.27	4.15	5	5.00
	14:30		Middle	1.5	25.70	25.70		8.33	8.33		32.34	32.34		74.5	71.8		5.06	4.88		4.16	3.96		5	<u> </u>
10/11/2012	14:14	Fine	Middle	1.5	26.00	26.00	26.00	8.23	8.23	8.23	32.23	32.23	32.23	66.0	66.6	66.1	4.47	4.50	4.47	5.73	5.91	5.90	5	5.50
	14:16		Middle	1.5	26.00	26.00		8.23	8.23		32.23	32.23		66.2	65.7		4.48	4.44		5.84	6.13		6	
12/11/2012	15:23	Fine	Middle	1.5	25.00	25.00	24.90	8.29	8.29	8.28	31.75	31.75	31.75	69.0	59.2	66.3	4.76	4.77	4.75	8.79	8.79	8.69	7	6.50
	15:25		Middle	1.5	24.80	24.80		8.26	8.26		31.75	31.75	1	68.2	68.8		4.70	4.75		8.80	8.36		6	<u> </u>
14/11/2012	18:57	Fine	Middle	1.5	24.50	24.50	24.50	8.48	8.48	8.48	32.16	32.16	32.16	77.2	77.7	77.1	5.40	5.42	5.40	6.40	6.42	6.30	6	6.00
	18:59		Middle	1.5	24.50	24.50		8.48	8.48		32.16	32.16		77.0	76.5		5.39	5.37		6.21	6.17		6	
* 17/11/2012	-	-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
19/11/2012	11:26	Fine	Middle	1.5	24.20	24.20	24.20	8.27	8.27	8.27	31.95	31.95	31.96	65.3	64.2	63.6	4.55	4.48	4.43	4.58	4.31	4.55	7	6.00
	11:28		Middle	1.5	24.20	24.20		8.27	8.27		31.97	31.97		63.2	61.5		4.40	4.29		4.52	4.79		5	
22/11/2012	13:40	Fine	Middle Middle	1.5	25.10	25.10 25.20	25.15	8.25	8.25 8.24	8.25	32.47	32.47	32.47	70.0	68.6 68.5	69.3	4.77	4.67	4.72	4.26	4.30	4.26	3	3.50
	13:42			1.5	25.20	23.10						32.46		69.9							5.31		3	
24/11/2012	14:14	Fine	Middle Middle	1.5	23.10	23.10	23.10	8.27	8.27 8.28	8.28	32.29	32.29	32.30	72.5 72.4	72.8 72.6	72.6	5.15	5.17	5.16	5.06	5.45	5.26	5	4.00
	17:00		Middle	1.0	22.40	22.40		7.96	7.96		33.10	33.10		71.3	71.3		5.15	5.16		5.25	5.88		6	<u> </u>
26/11/2012	17:02	Cloudy	Middle	1.0	22.30	22.40	22.35	7.95	7.95	7.96	33.11	33.11	33.11	71.3	71.3	71.3	5.09	5.12	5.11	5.78	5.89	5.70	5	5.50
	17.02		iviidule	1.0	22.30	22.30		1.30	1.30		JJ. I I	JJ. I I		7 1.1	71.4		5.09	J. 1Z		5.70	5.09		J	<u> </u>



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	5:30	Cloudy	Middle	1.0	25.80	25.80	25.70	7.53	7.53	7.53	32.61	32.61	32.62	60.8	60.6	60.5	4.13	4.12	4.12	4.88	4.87	4.85	10	10.00
29/10/2012	5:32	Cloudy	Middle	1.0	25.60	25.60	25.70	7.53	7.53	7.55	32.63	32.63	32.02	60.4	60.3	00.5	4.11	4.11	4.12	4.84	4.81	4.00	10	10.00
31/10/2012	17:20	Fine	Middle	2.5	24.80	24.80	24.65	7.73	7.73	7.73	32.72	32.72	32.73	63.4	63.2	63.1	4.38	4.37	4.37	6.12	6.10	6.08	7	8.00
31/10/2012	17:22	Tille	Middle	2.5	24.50	24.50	24.03	7.73	7.73	7.75	32.73	32.73	32.73	63.0	62.9	00.1	4.36	4.36	4.57	6.07	6.02	0.00	9	0.00
2/11/2012	18:37	Cloudy	Middle	2.0	24.60	24.60	24.40	7.60	7.60	7.61	32.77	32.77	32.76	60.5	60.3	60.2	4.20	4.19	4.19	4.13	4.11	4.09	7	7.00
2/11/2012	18:39	Cloudy	Middle	2.0	24.20	24.20	24.40	7.61	7.61	7.01	32.74	32.74	02.70	60.1	60.0	00.2	4.18	4.18	4.10	4.07	4.06	4.00	7	7.00
5/11/2012	20:03	Haze	Middle	2.0	25.00	25.00	24.90	7.53	7.53	7.53	32.76	32.76	32.76	60.8	60.5	60.4	4.17	4.15	4.15	2.98	2.95	2.94	7	7.50
0/11/2012	20:05	razo	Middle	2.0	24.80	24.80	2 1.00	7.53	7.53	7.00	32.75	32.75	02.10	60.3	60.1	00.1	4.14	4.12	0	2.92	2.89	2.0 .	8	1.00
8/11/2012	13:59	Fine	Middle	1.5	25.60	25.60	25.60	7.59	7.59	7.59	32.84	32.84	32.84	64.2	64.6	64.6	4.37	4.40	4.40	3.70	3.66	3.74	4	4.00
0/11/2012	14:01	1 1110	Middle	1.5	25.60	25.60	20.00	7.59	7.59	7.00	32.84	32.84	02.01	64.9	64.6	0 1.0	4.43	4.41		3.73	3.88	o	4	
10/11/2012	14:58	Fine	Middle	1.5	25.70	25.70	25.70	7.51	7.51	7.51	32.76	32.76	32.76	61.1	61.3	61.5	4.15	4.16	4.17	4.71	4.58	4.87	5	5.00
10/11/2012	15:00	1 1110	Middle	1.5	25.70	25.70	20.70	7.51	7.51	7.01	32.76	32.76	02.70	61.6	61.9	01.0	4.18	4.20	7.17	5.12	5.06	4.07	5	0.00
12/11/2012	16:13	Fine	Middle	2.0	25.30	25.30	25.20	7.53	7.53	7.53	32.78	32.78	32.79	60.2	59.5	60.0	4.12	4.07	4.10	3.83	3.92	3.90	10	9.00
12/11/2012	16:15	1 1110	Middle	2.0	25.10	25.10	20.20	7.53	7.53	7.00	32.79	32.79	02.10	60.4	59.8	00.0	4.13	4.09		3.86	3.97	0.00	8	0.00
14/11/2012	16:33	Fine	Middle	2.0	24.90	24.90	24.90	7.54	7.54	7.54	32.86	32.86	32.86	61.1	61.6	61.4	4.21	4.25	4.24	4.72	4.20	4.40	5	5.50
. 1, 11, 2012	16:35	10	Middle	2.0	24.90	24.90	2 1100	7.54	7.54	7.0	32.86	32.86	02.00	61.7	61.3	· · · ·	4.25	4.23		4.19	4.47		6	0.00
17/11/2012	9:14	Fine	Middle	2.0	23.80	23.80	23.70	7.96	7.96	7.95	31.43	31.43	31.44	57.8	57.6	58.1	4.09	4.07	4.11	4.63	4.67	4.65	6	7.00
	9:15	10	Middle	2.0	23.60	23.60	20.70	7.94	7.94	1.00	31.44	31.44	0	59.1	57.7	00.1	4.19	4.09		4.62	4.66		8	1.00
19/11/2012	11:24	Fine	Middle	2.0	23.80	23.80	23.75	7.98	7.98	7.97	32.34	32.34	32.37	67.8	68.3	68.3	4.77	4.81	4.81	4.94	4.90	4.92	5	5.50
	11:27		Middle	2.0	23.70	23.70		7.95	7.95		32.40	32.40	0	68.8	68.4		4.84	4.82		4.99	4.86		6	
22/11/2012	15:30	Fine	Middle	1.5	24.90	24.90	24.90	8.97	8.97	8.96	32.57	32.57	32.57	54.5	53.6	53.3	3.75	3.69	3.66	4.17	4.18	4.19	4	4.00
	15:32	-	Middle	1.5	24.90	24.90		8.95	8.95		32.56	32.56		52.8	52.2		3.62	3.59		4.19	4.20		4	
24/11/2012	14:48	Fine	Middle	2.0	23.20	23.20	23.10	7.86	7.86	7.83	32.18	32.18	32.23	55.0	54.1	54.7	3.92	3.86	3.90	1.05	1.10	1.05	3	2.50
	14:50		Middle	2.0	23.00	23.00		7.80	7.80		32.27	32.27		55.2	54.5		3.93	3.89		1.04	1.02		2	
26/11/2012	15:57	Cloudy	Middle	2.0	22.60	22.60	22.60	7.86	7.86	7.85	32.79	32.79	32.79	65.6	66.2	66.5	4.73	4.78	4.81	3.69	3.65	3.65	11	10.50
	15:59	,	Middle	2.0	22.60	22.60		7.84	7.84		32.79	32.79		66.0	68.3		4.77	4.94		3.76	3.49		10	



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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		рН			Salini	,	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	m	Va		Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue %	Average	Va		Average	Va	lue	Average		Average
00/40/0040	5:22	Olavete	Middle	1.5	25.40	25.40	05.40	8.38	8.38	0.00	32.97	32.97	00.07	87.7	88.1	07.7	5.99	6.00	0.00	7.09	7.62	7.07	8	
29/10/2012	5:23	Cloudy	Middle	1.5	25.40	25.40	25.40	8.38	8.38	8.38	32.97	32.97	32.97	87.0	87.8	87.7	5.96	6.04	6.00	7.36	7.39	7.37	7	13.50
31/10/2012	20:45	Fine	Middle	2.0	24.10	24.10	24.10	8.50	8.50	8.50	32.03	32.03	32.04	83.4	85.6	84.0	5.90	6.02	5.92	6.65	6.31	6.48	7	7.00
31/10/2012	20:46	rille	Middle	2.0	24.10	24.10	24.10	8.50	8.50	6.50	32.05	32.05	32.04	84.0	83.1	04.0	5.91	5.85	5.92	6.51	6.44	0.40	7	7.00
2/11/2012	21:02	Cloudy	Middle	2.0	23.80	23.80	23.70	8.37	8.37	8.37	32.23	32.23	32.23	83.9	84.6	83.3	5.92	5.96	5.88	6.98	6.68	6.67	8	7.50
2/11/2012	21:03	Cloudy	Middle	2.0	23.60	23.60	20.70	8.37	8.37	0.57	32.23	32.23	32.23	82.5	82.3	00.0	5.82	5.80	5.00	6.12	6.89	0.07	7	7.50
5/11/2012	22:35	Haze	Middle	2.0	24.20	24.20	24.15	8.28	8.28	8.28	32.19	32.19	32.19	82.9	83.9	82.7	5.81	5.88	5.79	5.89	5.93	5.82	7	7.00
371172012	22:36	. Id20	Middle	2.0	24.10	24.10	20	8.28	8.28	0.20	32.19	32.19	02.10	82.1	82.0	02	5.74	5.74	00	5.90	5.57	0.02	7	1.00
8/11/2012	13:44	Fine	Middle	3.0	25.20	25.20	25.20	8.34	8.34	8.33	32.33	32.33	32.34	77.5	78.1	77.6	5.31	5.35	5.32	4.31	4.30	4.31	4	4.00
	13:46		Middle	3.0	25.20	25.20		8.32	8.32		32.35	32.36		77.7	77.2		5.33	5.29		4.44	4.17		4	
10/11/2012	13:46	Fine	Middle	2.5	25.70	25.70	25.75	8.31	8.31	8.31	32.32	32.32	32.32	81.6	81.6	81.3	5.54	5.54	5.52	9.29	9.34	9.16	11	11.50
	13:48		Middle	2.5	25.80	25.80		8.30	8.30		32.32	32.32		81.0	81.1		5.50	5.51		9.11	8.89		12	
12/11/2012	14:50	Fine	Middle	2.5	24.60	24.60	24.55	8.35	8.35	8.34	32.42	32.42	32.43	79.1	79.2	80.2	5.48	5.49	5.56	6.40	6.27	6.35	8	9.00
	14:52		Middle	2.5	24.50	24.50		8.32	8.32		32.44	32.44		80.9	81.6		5.60	5.66		6.23	6.49		10	
14/11/2012	18:15	Fine	Middle	3.0	24.00	24.00	24.00	8.32	8.32	8.32	32.39	32.39	32.39	73.7	73.3	72.0	5.15	5.13	5.04	6.57	6.68	6.53	7	7.00
	18:17		Middle	3.0	24.00	24.00		8.32	8.32		32.39	32.39		71.6	69.4		5.01	4.85		6.52	6.36		7	
17/11/2012	12:20	Fine	Middle	2.0	23.70	23.70	23.70	8.32	8.32	8.32	32.43	32.43	32.43	82.3	83.3	82.4	5.80	5.86	5.80	9.80	9.75	9.98	22	<u>21.00</u>
	12:22		Middle	2.0	23.70	23.70		8.32	8.32		32.42	32.42		82.4	81.5		5.81	5.74		10.40	9.95		20	
19/11/2012	10:51	Fine	Middle	3.0	23.50	23.50	23.45	8.41	8.41	8.41	32.11	32.11	32.11	82.5	82.4	83.2	5.82	5.81	5.87	8.06	8.52	<u>8.57</u>	4	4.00
	10:53		Middle	3.0	23.40	23.40		8.41	8.41		32.12	32.11		84.3	83.5		5.95	5.90		9.07	8.64		4	
22/11/2012	15:45	Fine	Middle	2.5	25.00	25.00	25.15	8.30	8.30	8.30	32.41	32.41	32.41	81.2	78.0	79.8	5.57	5.35	5.47	7.01	7.22	7.32	5	5.00
	15:47		Middle	2.5	25.30	25.30		8.30	8.30		32.40	32.40		80.5	79.5		5.52	5.45		7.38	7.66		5	
24/11/2012	13:30	Fine	Middle	2.5	22.70	22.70	22.70	8.38	8.38	8.38	32.47	32.47	32.48	70.0	69.1	69.8	5.06	4.94	5.00	6.62	7.07	6.64	6	5.50
	13:32		Middle	2.5	22.70	22.70		8.37	8.37		32.48	32.48		69.4	70.6		4.95	5.04		6.42	6.46		5	
26/11/2012	16:20	Cloudy	Middle	2.0	22.10	22.10	22.05	7.94	7.93	7.93	33.14	33.14	33.14	90.5	90.5	90.6	6.52	6.52	6.53	7.95	8.08	7.86	11	11.50
	16:22		Middle	2.0	22.00	22.00		7.92	7.92		33.14	33.14		90.7	90.5		6.54	6.52		7.79	7.61		12	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspend	led Solids
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va		Average	Va	llue	Average	Value	Average
29/10/2012	10:34	Cloudy	Middle	3.0	25.40	25.40	25.40	8.55	8.55	8.54	33.45	33.45	33.47	91.7	90.5	90.8	6.22	6.14	6.16	7.62	7.81	7.57	7	6.50
29/10/2012	10:36	Cloudy	Middle	3.0	25.40	25.40	25.40	8.52	8.52	0.54	33.49	33.49	33.47	90.6	90.5	90.0	6.15	6.14	0.10	7.40	7.44	7.57	6	0.30
31/10/2012	11:35	Cloudy	Middle	2.5	23.60	23.60	23.50	8.45	8.45	8.44	32.41	32.41	32.42	92.4	92.8	92.7	6.52	6.55	6.54	5.62	5.56	5.51	6	6.00
31/10/2012	11:37	Cloudy	Middle	2.5	23.40	23.40	20.00	8.43	8.43	0.44	32.42	32.42	32.42	93.0	92.4	32.1	6.56	6.52	0.54	5.49	5.38	0.01	6	0.00
3/11/2012	3:02	Cloudy	Middle	2.0	24.10	24.10	24.10	8.47	8.46	8.47	32.39	32.39	32.39	85.8	86.3	85.9	5.97	6.02	5.99	4.81	5.12	4.97	4	4.00
3/11/2012	3:03	Cloudy	Middle	2.0	24.10	24.10	24.10	8.47	8.47	0.47	32.39	32.39	32.33	85.6	86.0	00.0	5.97	6.00	0.00	4.96	4.97	4.57	4	4.00
6/11/2012	5:11	Cloudy	Middle	2.0	24.10	24.10	24.10	8.38	8.38	8.38	32.38	32.38	32.38	84.9	85.6	84.7	6.01	6.00	5.95	3.48	3.40	3.59	3	3.00
0/11/2012	5:12	Cloudy	Middle	2.0	24.10	24.10	24.10	8.38	8.38	0.00	32.38	32.38	02.00	85.0	83.4	04.7	5.94	5.83	0.00	3.58	3.88	0.00	3	0.00
8/11/2012	3:11	Cloudy	Middle	2.0	23.80	23.80	23.80	8.42	8.42	8.42	32.44	32.44	32.44	94.3	94.7	94.3	6.68	6.65	6.64	5.21	5.43	5.34	5	4.50
37172012	3:12	Cicaay	Middle	2.0	23.80	23.80	20.00	8.42	8.42	0.12	32.44	32.44	02	94.4	93.9	0 1.0	6.62	6.59	0.0 .	5.37	5.34	0.0 .	4	
10/11/2012	7:02	Fine	Middle	2.5	24.90	24.90	24.90	8.37	8.37	8.36	32.41	32.41	32.41	88.7	88.6	88.5	6.11	6.10	6.09	3.89	3.65	3.73	8	8.00
10/11/2012	7:04	1 1110	Middle	2.5	24.90	24.90	24.00	8.34	8.34	0.00	32.41	32.41	02.41	88.5	88.1	00.0	6.09	6.07	0.00	3.59	3.79	0.70	8	0.00
12/11/2012	8:50	Fine	Middle	2.0	23.70	23.70	23.65	8.41	8.41	8.41	32.47	32.47	32.48	83.8	83.8	84.0	5.89	5.89	5.90	3.37	3.38	3.35	4	4.00
12/11/2012	8:52		Middle	2.0	23.60	23.60	20.00	8.40	8.40	0	32.49	32.49	02.10	84.2	84.1	00	5.92	5.91	0.00	3.39	3.26	0.00	4	
14/11/2012	11:11	Fine	Middle	2.5	24.20	24.20	24.20	8.48	8.48	8.47	32.59	32.59	32.60	85.1	86.1	85.8	5.93	5.99	5.98	3.76	3.84	3.79	4	3.50
	11:13		Middle	2.5	24.20	24.20		8.46	8.46	• • • • • • • • • • • • • • • • • • • •	32.60	32.60		87.0	85.1		6.06	5.93		3.77	3.77		3	
17/11/2012	1:01	Cloudy	Middle	2.0	24.00	24.00	24.00	8.44	8.44	8.44	32.95	32.95	32.95	94.2	94.7	94.9	6.86	6.88	6.81	4.40	4.50	4.43	7	7.50
	1:02		Middle	2.0	24.00	24.00		8.44	8.44		32.95	32.95		95.8	94.7		6.82	6.66		4.51	4.32		8	
19/11/2012	2:30	Cloudy	Middle	2.0	22.60	22.60	22.60	8.43	8.43	8.43	32.86	32.86	32.86	95.9	95.7	95.8	7.49	7.05	7.12	3.72	3.81	3.68	4	4.00
	2:31		Middle	2.0	22.60	22.60		8.43	8.43		32.86	32.86		95.9	95.8		7.06	6.89		3.58	3.60		4	
22/11/2012	19:00	Cloudy	Middle	2.0	24.30	24.30	24.33	8.36	8.36	8.36	32.64	32.64	32.64	88.1	89.6	88.6	6.55	6.67	6.45	4.55	4.46	4.38	4	4.00
	19:01		Middle	2.0	24.40	24.30		8.35	8.36		32.64	32.64		88.2	88.6		6.31	6.25		4.25	4.24		4	
24/11/2012	21:25	Cloudy	Middle	2.0	22.20	22.20	22.20	8.44	8.44	8.44	32.99	32.99	32.99	93.0	92.5	94.8	6.80	7.18	7.09	4.76	5.22	5.07	4	4.00
	21:26		Middle	2.0	22.20	22.20		8.44	8.44		32.99	32.99		96.4	97.1		7.00	7.37		5.02	5.28		4	
26/11/2012	22:05	Cloudy	Middle	2.0	21.00	21.00	21.00	8.42	8.42	8.42	32.53	32.53	32.53	92.6	93.5	93.1	6.83	6.90	7.04	3.31	3.30	3.36	7	7.00
	22:06	,	Middle	2.0	21.00	21.00		8.41	8.41		32.53	32.53		93.4	92.8		7.49	6.94		3.38	3.46		7	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va		Average	Va	lue	Average	Val	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average		Average
00/40/0040	13:54	Oleverh	Middle	3	25.80	25.80	05.00	8.51	8.51	0.54	33.93	33.93	00.00	79.9	81.6	00.0	5.37	5.48	F F0	7.78	7.73	7.57	11	44.00
29/10/2012	13:56	Cloudy	Middle	3	25.80	25.80	25.80	8.51	8.51	8.51	33.93	33.93	33.93	83.8	83.5	82.2	5.63	5.61	5.52	7.39	7.37	7.57	11	11.00
31/10/2012	12:56	Cloudy	Middle	3	24.20	24.20	24.15	8.45	8.45	8.45	32.44	32.44	32.45	85.9	88.1	86.5	5.99	6.15	6.03	8.86	8.44	8.60	15	14.50
31/10/2012	12:58	Cloudy	Middle	3	24.10	24.10	24.13	8.44	8.44	0.43	32.45	32.45	32.43	85.6	86.2	00.5	5.97	6.01	0.03	8.58	8.53	0.00	14	14.30
3/11/2012	1:00	Cloudy	Middle	3	24.00	24.00	24.00	8.56	8.56	8.56	32.50	32.50	32.50	92.4	92.4	91.7	6.47	6.47	6.42	7.11	7.48	7.43	9	8.50
3/11/2012	1:01	Cloudy	Middle	3	24.00	24.00	24.00	8.56	8.56	0.50	32.50	32.50	32.30	91.4	90.5	31.7	6.40	6.34	0.42	7.53	7.58	7.40	8	0.50
6/11/2012	1:47	Cloudy	Middle	3	23.70	23.70	23.70	8.37	8.37	8.38	31.88	31.88	31.88	84.5	83.0	83.5	5.96	5.86	5.90	5.42	5.46	5.49	6	6.00
	1:48		Middle	3	23.70	23.70		8.38	8.38		31.88	31.88		83.5	83.1		5.89	5.88		5.61	5.47		6	
8/11/2012	6:45	Cloudy	Middle	3	24.00	24.00	24.00	8.47	8.47	8.47	32.59	32.59	32.59	92.7	93.0	92.9	6.52	6.50	6.50	5.28	5.50	5.52	5	4.50
	6:46		Middle	3	24.00	24.00		8.47	8.47		32.59	32.59		92.8	93.1		6.48	6.50		5.64	5.66		4	
10/11/2012	8:30	Fine	Middle	3	25.10	25.10	25.10	8.45	8.45	8.45	31.64	31.64	31.65	86.9	86.9	86.5	5.98	5.98	5.96	4.43	4.17	4.25	4	4.50
	8:32		Middle	3	25.10	25.10		8.45	8.45		31.65	31.65		86.0	86.1		5.92	5.94		4.24	4.16		5	
12/11/2012	10:46	Fine	Middle	3	24.30	24.30	24.25	8.42	8.42	8.41	32.33	32.33	32.34	80.3	80.2	79.9	5.60	5.59	5.57	6.74	6.51	6.56	10	9.00
	10:48		Middle	3	24.20	24.20		8.39	8.39		32.35	32.35		80.1	79.1		5.55	5.52		6.58	6.42		8	
14/11/2012	12:51	Fine	Middle	3	24.50	24.50	24.55	8.39	8.39	8.39	32.51	32.51	32.52	72.7	73.2	73.5	5.09	5.10	5.17	6.22	6.33	6.30	6	6.00
	12:53		Middle	3	24.60	24.60		8.38	8.38		32.52	32.52		73.3	74.6		5.12	5.38		6.35	6.30		6	
17/11/2012	3:58	Cloudy	Middle	3	23.20	23.30	23.28	8.44	8.44	8.44	32.32	32.32	32.32	88.3	87.8	89.1	6.26	6.22	6.31	5.71	5.44	5.56	9	8.50
	3:59		Middle	3	23.30	23.30		8.44	8.44		32.32	32.32		89.7	90.4		6.36	6.41		5.36	5.73		8	<u> </u>
19/11/2012	5:33	Cloudy	Middle	3	23.00	23.00	23.00	8.30	8.30	8.30	32.23	32.23	32.23	82.5	82.6	82.7	6.11	6.07	6.22	4.85	4.47	4.57	4	4.50
	5:34		Middle	3	23.00	23.00		8.30	8.30		32.23	32.23		82.8	83.0		6.26	6.42		4.48	4.49		5	
22/11/2012	21:10	Cloudy	Middle	3	24.50	24.50	24.50	8.34	8.34	8.34	32.38	32.38	32.38	86.4	88.4	87.7	6.03	6.12	6.14	6.08	5.93	6.11	3	4.00
	21:11		Middle	3	24.50	24.50		8.34	8.34		32.38	32.38		88.5	87.5		6.35	6.07		6.42	5.99		5	
24/11/2012	23:42	Cloudy	Middle	3	22.60	22.60	22.60	8.42	8.42	8.42	32.97	32.97	32.97	92.9	93.4	93.9	6.23	6.70	6.61	8.62	8.46	<u>8.46</u>	7	7.50
	23:43		Middle	3	22.60	22.60		8.42	8.42		32.97	32.97		94.4	94.7		6.74	6.77		8.35	8.42		8	
26/11/2012	0:10	Cloudy	Middle	3	21.30	21.30	21.25	8.42	8.42	8.42	32.48	32.48	32.48	86.6	85.5	86.1	6.53	6.61	6.75	6.38	6.02	6.21	5	4.50
	0:11		Middle	3	21.20	21.20		8.41	8.41		32.48	32.48		85.4	86.7		6.86	6.98		6.17	6.26		4	

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



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspende	led Solids g/L
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/10/2012	13:38	Cloudy	Middle	2	25.40	25.40	25.40	8.47	8.47	8.47	33.36	33.36	33.37	88.3	88.2	87.8	5.98	5.98	5.95	7.54	7.56	7.63	9	8.50
	13:40		Middle	2	25.40	25.40		8.47	8.47		33.37	33.37		87.4	87.4		5.92	5.91		7.66	7.74		8	
31/10/2012	12:45	Cloudy	Middle	3	24.70	24.70	24.70	7.66	7.66	7.66	32.82	32.82	32.83	80.0	79.5	79.5	5.55	5.52	5.52	11.67	11.00	<u>11.35</u>	15	14.50
	12:47		Middle	3	24.70	24.70		7.66	7.66		32.83	32.83		79.5	79.1		5.52	5.50		11.61	11.10		14	
3/11/2012	0:40	Cloudy	Middle	2	24.40	24.40	24.40	8.46	8.46	8.46	32.32	32.32	32.32	83.3	83.6	82.8	5.79	5.81	5.76	7.93	7.83	7.94	7	7.50
,	0:41		Middle	2	24.40	24.40		8.45	8.46		32.32	32.32		82.6	81.7		5.74	5.68		8.16	7.84		8	
6/11/2012	1:30	Cloudy	Middle	2	24.10	24.10	24.05	8.36	8.36	8.37	32.33	32.33	32.33	90.8	92.6	91.9	6.38	6.48	6.44	5.58	5.30	5.54	8	8.00
	1:31		Middle	2	24.00	24.00		8.37	8.37		32.33	32.33		92.7	91.4		6.49	6.39		5.87	5.42		8	
8/11/2012	6:13	Cloudy	Middle	2	24.30	24.30	24.30	8.39	8.39	8.39	32.59	32.59	32.59	88.1	87.3	87.1	6.13	6.07	6.06	6.61	6.81	6.59	6	6.00
	6:14		Middle	2	24.30	24.30		8.39	8.39		32.59	32.59		86.8	86.3		6.04	6.01		6.54	6.38		6	
10/11/2012	11:00	Fine	Middle	2	25.20	25.20	25.25	8.34	8.34	8.34	32.35	32.35	32.35	77.7	77.0	77.3	5.32	5.27	5.29	7.83	7.79	7.64	10	9.50
16/11/2012	11:02		Middle	2	25.30	25.30	20:20	8.33	8.33	0.0 .	32.34	32.34	02.00	76.9	77.6		5.26	5.31	0.20	7.26	7.69		9	0.00
12/11/2012	12:53	Fine	Middle	2	24.40	24.40	24.40	8.52	8.52	8.53	32.27	32.27	32.45	89.3	91.0	90.0	6.21	6.33	6.26	9.76	9.80	9.72	12	12.00
	12:55		Middle	2	24.40	24.40		8.53	8.53		32.29	32.97		90.8	88.9		6.31	6.18		9.68	9.63		12	
14/11/2012	12:25	Fine	Middle	2	24.80	24.80	24.80	7.63	7.63	7.63	33.09	33.09	33.10	70.2	69.7	69.5	4.83	4.79	4.78	4.30	4.07	4.19	8	8.00
	12:26		Middle	2	24.80	24.80		7.63	7.63		33.10	33.10		69.5	68.6		4.78	4.71		4.12	4.26		8	
17/11/2012	3:23	Cloudy	Middle	2	23.00	23.00	23.00	8.37	8.37	8.37	32.62	32.62	32.62	88.3	88.4	88.8	6.28	6.28	6.34	6.59	6.92	6.65	11	10.00
,.,,	3:24		Middle	2	23.00	23.00		8.37	8.37		32.62	32.62		89.1	89.5		6.39	6.39		6.56	6.52		9	
19/11/2012	5:10	Cloudy	Middle	2	22.90	22.90	22.90	8.30	8.30	8.30	32.49	32.49	32.49	92.1	92.3	91.3	6.89	6.89	6.82	4.90	4.74	4.99	5	5.00
	5:11		Middle	2	22.90	22.90		8.30	8.30		32.49	32.49		90.5	90.2		6.85	6.65		5.13	5.20		5	
22/11/2012	20:50	Cloudy	Middle	2	24.40	24.40	24.40	8.28	8.28	8.28	32.44	32.44	32.44	86.8	87.1	86.4	6.10	6.50	6.37	5.35	5.11	5.08	5	5.00
	20:51		Middle	2	24.40	24.40		8.28	8.28		32.44	32.44		87.0	84.8		6.54	6.34		4.89	4.96		5	
24/11/2012	23:25	Cloudy	Middle	2	22.40	22.40	22.40	8.37	8.37	8.37	32.67	32.67	32.67	93.4	95.9	94.2	7.22	7.30	7.27	8.01	7.82	7.91	6	5.50
	23:26		Middle	2	22.40	22.40		8.37	8.37		32.67	32.67		94.8	92.7		7.33	7.24		7.66	8.16		5	
26/11/2012	23:50	Cloudy	Middle	2	21.40	21.40	21.40	8.36	8.36	8.36	32.55	32.55	32.55	85.1	85.8	85.5	6.24	6.28	6.32	5.37	5.55	5.56	6	6.00
20/11/2012	23:51	Cicuty	Middle	2	21.40	21.40	21.70	8.36	8.36	0.00	32.55	32.55	02.00	86.0	85.2		6.30	6.47	0.02	5.56	5.76	0.00	6	0.00



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		рН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	m	า	Va		Average	Va	lue	Average	Va	ppt llue	Average	Va	lue	Average	Va		Average	Va	ilue	Average	Value	Average
00/40/0040	13:24	0	Middle	2	26.00	26.00	00.00	8.46	8.46	0.40	33.36	33.36	20.00	78.1	79.7	70.4	5.25	5.35	5.00	7.88	8.02	0.00	12	
29/10/2012	13:26	Cloudy	Middle	2	26.00	26.00	26.00	8.46	8.46	8.46	33.36	33.36	33.36	78.7	79.8	79.1	5.29	5.37	5.32	8.18	7.92	8.00	13	12.50
31/10/2012	12:50	Cloudy	Middle	2	25.00	25.00	25.00	7.65	7.65	7.65	32.75	32.75	32.76	75.0	75.1	75.0	5.15	5.17	5.16	9.45	9.41	9.33	9	9.50
31/10/2012	12:52	Cloudy	Middle	2	25.00	25.00	25.00	7.65	7.65	7.05	32.77	32.77	32.76	75.1	74.8	75.0	5.17	5.15	5.16	9.01	9.45	9.33	10	9.50
3/11/2012	0:25	Cloudy	Middle	2	24.40	24.40	24.40	8.47	8.47	8.47	32.36	32.36	32.36	88.0	89.5	88.8	6.12	6.22	6.17	5.50	5.38	5.35	9	8.50
3/11/2012	0:26	Cloudy	Middle	2	24.40	24.40	24.40	8.46	8.46	0.41	32.36	32.36	02.00	89.4	88.2	00.0	6.21	6.13	0.17	5.19	5.32	0.00	8	0.00
6/11/2012	1:20	Cloudy	Middle	2	24.00	24.00	24.00	8.31	8.31	8.31	31.82	31.82	31.82	79.2	79.9	79.4	5.57	5.59	5.58	5.87	5.99	5.92	6	5.50
	1:21		Middle	2	24.00	24.00		8.31	8.31		31.82	31.82	0	80.2	78.3		5.64	5.53		5.86	5.94		5	
8/11/2012	5:55	Cloudy	Middle	2	24.40	24.40	24.40	8.25	8.25	8.25	31.72	31.72	31.72	80.5	81.0	80.5	5.62	5.66	5.62	7.66	6.99	7.36	5	5.50
	5:56	,	Middle	2	24.40	24.40		8.25	8.25		31.72	31.72		80.5	80.1		5.62	5.59		7.22	7.56		6	
10/11/2012	10:40	Fine	Middle	2	25.60	25.60	25.65	8.33	8.33	8.32	32.26	32.26	32.26	78.6	79.5	79.2	5.35	5.41	5.39	7.42	7.47	7.37	9	9.00
	10:42		Middle	2	25.70	25.70		8.30	8.30		32.26	32.26		79.4	79.2		5.40	5.39		7.42	7.16		9	
12/11/2012	12:41	Fine	Middle	2	24.50	24.50	24.50	8.59	8.59	8.59	32.24	32.24	32.25	74.4	74.6	73.6	5.18	5.19	5.12	6.62	6.65	6.57	8	9.00
	12:43		Middle	2	24.50	24.50		8.58	8.58		32.26	32.26		73.7	71.7		5.13	4.99		6.60	6.40		10	
14/11/2012	12:30	Fine	Middle	2	25.20	25.20	25.15	7.62	7.62	7.62	33.09	33.09	33.10	66.4	66.3	66.2	4.53	4.52	4.52	6.67	6.24	6.17	6	6.00
	12:32		Middle	2	25.10	25.10		7.62	7.62		33.10	33.10		66.5	65.7		4.54	4.49		5.95	5.81		6	
17/11/2012	3:08	Cloudy	Middle	2	23.30	23.30	23.30	8.30	8.30	8.31	32.12	32.12	32.12	81.5	81.3	80.8	5.80	5.78	5.75	8.21	8.26	8.30	10	9.00
	3:09		Middle	2	23.30	23.30		8.31	8.31		32.12	32.12		80.1	80.4		5.69	5.72		8.69	8.05		8	
19/11/2012	4:55	Cloudy	Middle	2	23.10	23.10	23.10	8.16	8.16	8.15	31.66	31.66	31.67	71.9	72.0	71.8	5.23	5.23	5.21	6.28	6.64	6.39	4	4.00
	4:56		Middle	2	23.10	23.10		8.14	8.14		31.67	31.67		71.9	71.2		5.23	5.13		6.34	6.30		4	
22/11/2012	20:25	Cloudy	Middle	2	24.50	24.50	24.50	8.21	8.21	8.21	31.70	31.70	31.70	79.8	80.5	80.0	5.91	6.04	5.94	7.94	7.95	7.77	2	2.50
	20:26		Middle	2	24.50	24.50		8.21	8.21		31.70	31.70		80.0	79.7		5.79	6.00		7.63	7.55		3	<u> </u>
24/11/2012	23:10	Cloudy	Middle	2	22.60	22.60	22.60	8.18	8.18	8.18	31.70	31.70	31.70	76.8	78.3	77.6	5.52	5.63	5.57	10.70	11.00	<u>10.75</u>	6	7.00
	23:11		Middle	2	22.60	22.60		8.18	8.18		31.70	31.71		78.4	76.7		5.64	5.50		10.40	10.90		8	
26/11/2012	23:38	Cloudy	Middle	2	21.20	21.20	21.20	8.26	8.26	8.26	31.45	31.45	31.45	76.8	77.4	76.9	6.22	6.25	5.99	8.35	8.39	8.30	8	8.00
	23:39		Middle	2	21.20	21.20		8.26	8.26		31.45	31.45		77.2	76.3		5.72	5.75		8.30	8.15		8	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspende	led Solids g/L
			n	11	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/10/2012	13:10	Cloudy	Middle	2	25.80	25.80	25.75	8.28	8.28	8.28	32.82	32.82	32.82	60.9	61.2	60.9	4.10	4.14	4.12	4.01	3.85	3.83	6	7.00
	13:12		Middle	2	25.70	25.70		8.27	8.27		32.82	32.82		60.7	60.7		4.11	4.11		3.62	3.83		8	
31/10/2012	12:33	Cloudy	Middle	2	24.20	24.20	24.20	7.45	7.45	7.45	30.70	30.70	30.70	50.4	50.1	50.9	3.57	3.55	3.60	3.87	3.93	3.95	3	3.00
01/10/2012	12:35	Cidady	Middle	2	24.20	24.20	21.20	7.45	7.45	1110	30.70	30.70	00.10	51.7	51.5	00.0	3.64	3.63	0.00	4.07	3.94	0.00	3	0.00
3/11/2012	23:32	Cloudy	Middle	2	24.50	24.50	24.50	8.40	8.40	8.40	31.44	31.44	31.44	87.1	88.2	87.8	6.08	6.16	6.13	5.77	5.84	5.69	9	8.50
0/11/2012	23:33		Middle	2	24.50	24.50	21.00	8.40	8.40	0.10	31.44	31.44	0	88.2	87.7	07.0	6.16	6.12	0.10	5.62	5.54	0.00	8	0.00
6/11/2012	0:53	Cloudy	Middle	2	23.80	23.80	23.80	8.25	8.25	8.25	31.08	31.08	31.08	93.7	94.8	94.5	6.63	6.71	6.69	3.84	3.78	3.88	7	6.00
0/11/2012	0:54		Middle	2	23.80	23.80	20.00	8.25	8.25	0.20	31.08	31.08	01.00	94.8	94.5	00	6.71	6.69	0.00	3.93	3.96	0.00	5	0.00
8/11/2012	5:30	Cloudy	Middle	1	23.90	23.90	23.90	8.22	8.22	8.22	31.15	31.15	31.15	84.9	84.6	84.6	5.99	5.97	5.97	3.56	3.53	3.55	3	3.00
<b>3</b> , 1, 1, 2, 1, 1	5:31		Middle	1	23.90	23.90		8.22	8.22	·	31.15	31.15		84.4	84.3		5.95	5.95		3.50	3.60		3	
10/11/2012	10:20	Fine	Middle	2	25.50	25.50	25.55	8.24	8.24	8.24	31.81	31.81	31.81	63.6	62.7	62.8	4.34	4.28	4.29	3.97	3.93	3.84	4	4.50
10/11/2012	10:22		Middle	2	25.60	25.60	20.00	8.23	8.23	0.2 .	31.81	31.81	01.01	62.4	62.4	02.0	4.26	4.26	20	3.70	3.75	0.01	5	1.00
12/11/2012	12:27	Fine	Middle	2	24.60	24.60	24.60	8.40	8.40	8.40	31.49	31.49	31.49	64.6	65.1	64.8	4.50	4.53	4.51	4.17	4.26	4.19	9	9.50
	12:29		Middle	2	24.60	24.60		8.40	8.40		31.49	31.49		65.5	64.0		4.55	4.45		4.02	4.29		10	
14/11/2012	12:14	Fine	Middle	2	24.60	24.60	24.60	7.48	7.48	7.48	32.44	32.44	32.44	58.0	58.2	59.4	4.02	4.09	4.14	3.86	4.04	4.02	5	5.00
	12:16		Middle	2	24.60	24.60		7.48	7.48		32.44	32.44		60.4	61.1		4.19	4.24		4.10	4.07		5	
17/11/2012	2:45	Cloudy	Middle	1	22.70	22.70	22.70	8.25	8.25	8.25	29.35	29.35	29.35	89.3	89.1	89.0	6.51	6.49	6.48	5.51	5.55	5.41	6	6.50
	2:46		Middle	1	22.70	22.70		8.24	8.24		29.35	29.35		88.8	88.6		6.46	6.45		5.40	5.16	• • • • • • • • • • • • • • • • • • • •	7	
19/11/2012	4:38	Cloudy	Middle	1	22.50	22.50	22.50	8.21	8.21	8.21	28.85	28.85	28.85	93.3	94.5	93.5	6.91	7.25	7.08	3.44	3.42	3.37	<2	<2
	4:39		Middle	1	22.50	22.50		8.21	8.21		28.85	28.85		93.5	92.6		7.21	6.94		3.33	3.30		<2	
22/11/2012	20:00	Cloudy	Middle	1	24.70	24.70	24.70	8.22	8.22	8.22	31.44	31.44	31.44	87.4	87.7	87.2	6.08	6.12	6.07	3.35	3.32	3.34	2	2.00
	20:01		Middle	1	24.70	24.70	-	8.22	8.22		31.44	31.44		87.4	86.3		6.07	5.99		3.30	3.37		2	
24/11/2012	22:55	Cloudy	Middle	1	22.30	22.30	22.30	8.18	8.18	8.18	30.53	30.53	30.53	81.3	82.6	81.9	5.97	6.02	5.98	8.49	8.39	8.26	4	4.50
	22:56		Middle	1	22.30	22.30		8.18	8.18		30.53	30.53		82.3	81.5		5.99	5.93		8.11	8.04		5	
26/11/2012	23:12	Cloudy	Middle	1	20.60	20.60	20.60	8.35	8.35	8.35	31.02	31.02	31.02	89.1	89.0	88.9	7.26	7.19	7.26	3.98	3.78	3.86	3	3.00
20,1,120.2	23:13	0.000,	Middle	1	20.60	20.60		8.34	8.34	0.00	31.02	31.02	002	89.3	88.2		7.35	7.24		3.82	3.84	0.00	3	0.00



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

Date	Time	Weater Condition	Samplin	· ·	Wat	er Temp °C	erature		pH -			Salini	ty	D	O Satur	ation		DO ma/L			Turbid		Suspend	led Solids a/L
			n	1	Va	lue	Average	Va	ılue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	11:37	Cloudy	Middle	2.5	25.80	25.80	20.80	7.62	7.62	7.62	32.97	32.97	32.97	71.6	71.7	72.0	4.86	4.87	4.89	2.73	2.87	2.74	9	8.00
20/10/2012	11:39	Oloudy	Middle	2.5	25.80	5.80	20.00	7.62	7.62	7.02	32.97	32.97	02.01	72.3	72.2	72.0	4.93	4.91	4.00	2.69	2.66	2.74	7	0.00
31/10/2012	11:25	Cloudy	Middle	2.0	24.60	24.60	24.55	7.58	7.58	7.58	32.67	32.67	32.68	69.1	68.6	68.6	4.78	4.75	4.75	5.98	5.60	5.67	4	5.00
31/10/2012	11:28	Cloudy	Middle	2.0	24.50	24.50	24.00	7.58	7.58	7.50	32.68	32.68	32.00	68.2	68.4	00.0	4.72	4.73	4.73	5.56	5.54	5.07	6	3.00
3/11/2012	22:19	Cloudy	Middle	2.5	23.90	23.90	23.80	7.60	7.60	7.60	32.86	32.86	32.86	62.7	62.4	62.3	4.37	4.35	4.34	3.31	3.30	3.28	6	6.50
0/11/2012	22:21	Oloudy	Middle	2.5	23.70	23.70	20.00	7.60	7.60	7.00	32.85	32.85	02.00	62.1	61.9	02.0	4.33	4.31	4.04	3.27	3.22	0.20	7	0.00
6/11/2012	0:06	Cloudy	Middle	2.5	24.00	24.00	23.85	7.51	7.51	7.52	32.74	32.74	32.75	61.3	61.1	61.0	4.31	4.30	4.29	2.02	2.00	1.98	4	3.50
0/11/2012	0:08	Oloudy	Middle	2.5	23.70	23.70	20.00	7.53	7.53	7.02	32.75	32.75	02.70	60.8	60.7	01.0	4.28	4.27	4.20	1.97	1.94	1.00	3	0.00
8/11/2012	5:30	Cloudy	Middle	2.5	24.00	24.00	23.85	7.62	7.62	7.62	33.21	33.21	33.17	65.9	65.7	65.6	4.61	4.60	4.59	2.05	2.01	2.00	<2	<2
0,11,2012	5:32	Cicaay	Middle	2.5	23.70	23.70	20.00	7.62	7.62	7.102	33.12	33.12	00.11	65.4	65.3	00.0	4.58	4.58		1.98	1.97	2.00	<2	12
10/11/2012	9:10	Fine	Middle	2.5	25.20	25.20	25.20	7.54	7.54	7.54	32.36	32.36	32.36	61.5	61.4	61.6	4.20	4.19	4.21	3.36	4.47	4.17	5	5.50
10/11/2012	9:12	1 1110	Middle	2.5	25.20	25.20	20.20	7.54	7.54	7.04	32.36	32.36	02.00	61.7	61.9	01.0	4.21	4.23	7.21	4.73	4.11	7.17	6	0.00
12/11/2012	10:46	Fine	Middle	2.0	24.40	24.40	24.30	7.55	7.55	7.55	32.82	32.82	32.84	58.7	58.3	59.0	4.08	4.06	4.11	3.01	3.02	2.99	8	7.00
12/11/2012	10:48	0	Middle	2.0	24.20	24.20	2 1100	7.54	7.54	7.00	32.86	32.86	02.01	60.4	58.5	00.0	4.22	4.08		2.94	2.97	2.00	6	1.00
14/11/2012	11:23	Fine	Middle	2.5	24.50	24.50	24.50	7.56	7.56	7.56	32.98	32.94	32.97	68.2	68.1	68.1	4.73	4.72	4.73	3.06	3.12	3.10	4	4.00
. , , , , , , , , , , , , , , , , , , ,	11:25		Middle	2.5	24.50	24.50		7.56	7.56		32.98	32.98		68.3	67.9		4.74	4.72		3.14	3.07		4	
17/11/2012	1:01	Cloudy	Middle	2.5	23.80	23.80	23.70	8.02	8.02	8.02	32.48	32.48	32.48	76.1	75.8	75.7	5.34	5.32	5.32	3.15	3.13	3.12	7	8.00
,	1:03	Cicaay	Middle	2.5	23.60	23.60	20.70	8.01	8.01	0.02	32.48	32.48	02.10	75.6	75.4		5.31	5.30	0.02	3.11	3.07	0.12	9	0.00
19/11/2012	3:15	Cloudy	Middle	2.0	23.00	23.00	22.90	7.91	7.91	7.91	32.62	32.62	32.64	69.1	68.8	68.8	4.92	4.90	4.90	1.90	1.89	1.88	2	2.50
10/11/2012	3:17	Cicaay	Middle	2.0	22.80	22.80	22.00	7.91	7.91	7.0.	32.65	32.65	02.01	68.6	68.5	00.0	4.89	4.89		1.87	1.86	1.00	3	2.00
22/11/2012	19:10	Cloudy	Middle	2.5	24.30	24.30	24.25	8.87	8.87	8.68	32.72	32.72	32.72	69.0	68.7	68.7	4.77	4.76	4.76	2.13	2.10	2.10	4	3.50
22, 1,2012	19:13	0.000,	Middle	2.5	24.20	24.20	220	8.49	8.49	0.00	32.72	32.72		68.5	68.4	00	4.75	4.74	0	2.09	2.07	20	3	5.55
24/11/2012	21:16	Cloudy	Middle	2.5	22.60	22.60	22.50	8.46	8.46	8.37	32.82	32.82	32.87	70.9	70.6	70.6	5.07	5.05	5.05	3.53	3.50	3.49	2	2.50
	21:18	,	Middle	2.5	22.40	22.40		8.28	8.28		32.92	32.92		70.4	70.3		5.04	5.04		3.48	3.46		3	
26/11/2012	22:30	Cloudy	Middle	2.5	21.70	21.70	21.55	7.84	7.84	7.87	33.13	33.13	33.11	73.8	73.4	73.3	5.36	5.34	5.33	2.62	2.59	2.57	5	4.50
20/11/2012	22:33	Cioday	Middle	2.5	21.40	21.40	21.00	7.90	7.90	7.01	33.09	33.09	00.11	73.1	72.9	70.0	5.32	5.31	0.00	2.55	2.52	2.01	4	4.00



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspende	
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va	alue	Average	Va	alue	Average	Va		Average	Va	llue	Average	Value	Average
29/10/2012	11:27	Cloudy	Middle	2.0	25.40	25.40	25.40	7.56	7.56	7.56	32.79	32.79	32.79	67.5	67.6	67.6	4.61	4.62	4.62	3.63	3.67	3.64	7	7.50
29/10/2012	11:29	Cloudy	Middle	2.0	25.40	25.40	25.40	7.56	7.56	7.50	32.79	32.79	32.79	67.3	67.8	07.0	4.60	4.64	4.02	3.64	3.63	3.04	8	7.50
31/10/2012	10:40	Cloudy	Middle	1.5	24.60	24.60	24.60	7.52	7.52	7.53	32.50	32.50	32.51	62.9	63.0	63.4	4.37	4.38	4.41	6.42	6.41	6.38	8	7.00
01/10/2012	10:45	Oloudy	Middle	1.5	24.60	24.60	24.00	7.53	7.53	7.00	32.51	32.51	02.01	63.6	64.2	00.4	4.42	4.47	7.71	6.34	6.34	0.00	6	7.00
3/11/2012	22:01	Cloudy	Middle	2.0	24.00	24.00	23.85	7.59	7.59	7.59	32.80	32.80	32.81	62.0	61.8	61.8	4.35	4.34	4.34	2.49	2.45	2.44	6	6.00
3/11/2012	22:04	Cloudy	Middle	2.0	23.70	23.70	20.00	7.59	7.59	7.55	32.81	32.81	32.01	61.7	61.6	01.0	4.34	4.33	4.54	2.43	2.40	2.44	6	0.00
6/11/2012	23:47	Cloudy	Middle	2.0	24.30	24.30	24.20	7.51	7.51	7.51	32.84	32.84	32.82	60.3	60.2	60.1	4.20	4.20	4.19	1.25	1.21	1.21	3	3.00
0/11/2012	23:49	Cloudy	Middle	2.0	24.10	24.10	24.20	7.51	7.51	7.01	32.80	32.80	02.02	60.1	59.9	00.1	4.19	4.18	4.10	1.19	1.17	1.21	3	0.00
8/11/2012	4:45	Cloudy	Middle	2.0	24.80	24.80	24.50	7.62	7.62	7.62	33.05	33.05	33.06	61.0	60.9	60.8	4.24	4.23	4.23	1.08	1.04	1.03	<2	<2
0/11/2012	4:47	Cloudy	Middle	2.0	24.20	24.20	24.00	7.62	7.62	7.02	33.06	33.06	00.00	60.7	60.6	00.0	4.22	4.21	4.20	1.01	0.98	1.00	<2	,,
10/11/2012	8:55	Fine	Middle	2.0	25.30	25.30	25.30	7.49	7.49	7.49	32.89	32.89	32.89	65.3	65.4	65.5	4.45	4.46	4.47	4.00	3.72	3.77	5	5.00
10/11/2012	8:57	1 1110	Middle	2.0	25.30	25.30	20.00	7.49	7.49	7.40	32.89	32.89	02.00	65.5	65.7	00.0	4.47	4.49	7.77	3.90	3.44	0.11	5	0.00
12/11/2012	10:30	Fine	Middle	2.0	24.10	24.10	24.10	7.52	7.52	7.52	32.81	32.81	32.80	60.2	60.4	60.2	4.20	4.21	4.20	3.24	3.06	3.15	8	9.00
12/11/2012	10:32		Middle	2.0	24.10	24.10	20	7.52	7.52	7.02	32.79	32.79	02.00	60.6	59.6	00.2	4.22	4.15	20	3.12	3.18	0.10	10	0.00
14/11/2012	10:20	Fine	Middle	2.0	24.90	24.90	24.90	7.51	7.51	7.51	32.86	32.86	32.86	66.2	66.5	66.7	4.56	4.58	5.10	3.33	3.51	3.28	4	4.50
	10:22		Middle	2.0	24.90	24.90		7.51	7.51		32.86	32.86		66.7	67.3		4.60	6.64		3.13	3.15		5	
17/11/2012	0:43	Cloudy	Middle	2.5	23.90	23.90	23.85	7.98	7.98	7.98	32.14	32.14	32.16	70.2	70.0	69.9	4.92	4.01	4.23	2.07	2.04	2.03	3	3.50
	0:45		Middle	2.5	23.80	23.80		7.97	7.97		32.17	32.17		69.8	69.7		4.00	4.00		2.01	1.98		4	
19/11/2012	3:01	Cloudy	Middle	2.0	23.30	23.30	23.20	7.90	7.90	7.89	32.41	32.41	32.42	63.5	63.2	63.2	4.51	4.49	4.49	1.00	0.97	0.97	4	4.50
	3:03		Middle	2.0	23.10	23.10		7.87	7.87		32.42	32.42		63.0	62.9		4.48	4.47		0.96	0.94		5	
22/11/2012	18:20	Cloudy	Middle	2.0	24.10	24.10	24.05	8.61	8.61	8.67	32.67	32.67	32.67	67.4	67.3	67.2	4.70	4.69	4.69	1.92	1.91	1.90	3	3.00
	18:23		Middle	2.0	24.00	24.00		8.72	8.72		32.66	32.66		67.1	67.0		4.68	4.68		1.89	1.87		3	
24/11/2012	21:05	Cloudy	Middle	2.0	22.70	22.70	22.65	8.10	8.10	8.10	32.80	32.80	32.80	63.2	63.0	62.9	4.52	4.51	4.50	3.35	3.33	3.32	2	2.00
	21:07		Middle	2.0	22.60	22.60		8.09	8.09		32.79	32.79		62.8	62.5		4.50	4.48		3.31	3.28		2	
26/11/2012	22:14	Cloudy	Middle	2.0	21.80	21.80	21.65	7.11	7.11	7.21	32.86	32.86	32.87	66.2	66.0	66.0	4.82	4.81	4.81	0.71	0.69	0.68	4	3.50
	22:16		Middle	2.0	21.50	21.50		7.31	7.31		32.88	32.88		65.9	65.7		4.80	4.79		0.66	0.64		3	

Remarks

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



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi	ty	Suspende	
		Condition	n	า	Va	llue	Average	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va		Average		Average
00/40/0040	12:32	Olevetic	Middle	2.5	26.20	26.20	26,20	7.60	7.60	7.60	32.80	32.80	32.80	71.2	70.6	70.8	4.80	4.76	F F0	3.10	3.14	0.40	5	F F0
29/10/2012	12:34	Cloudy	Middle	2.5	26.20	26.20	20.20	7.60	7.60	7.60	32.80	32.80	32.60	70.5	70.9	70.8	4.76	7.78	5.53	3.09	3.29	3.16	6	5.50
31/10/2012	11:00	Cloudy	Middle	3.0	25.50	25.50	25.45	7.57	7.57	7.58	32.34	32.34	32.35	66.9	66.5	66.3	4.58	4.56	4.54	4.95	4.96	5.01	4	5.00
31/10/2012	11:02	Cloudy	Middle	3.0	25.40	25.40	25.45	7.58	7.58	7.56	32.36	32.36	32.33	66.2	65.4	00.3	4.54	4.49	4.54	5.08	5.03	5.01	6	5.00
3/11/2012	-	The lighting system	Middle	-	-	-		-	-		-	-		-	-	_	-	-		-	-		-	
3/11/2012	-	was off	Middle	-	-	-	-	-	-		-	-	_	-	-		-	-		-	-	_	-	
6/11/2012	-	The lighting system	Middle	-	-	-		-	-	_	-	-	_	-	-	_	-	-		-	-		-	
0/11/2012	-	was off	Middle	-	-	-		-	-		-	-	_	-	-	_	-	-		-	-		-	
8/11/2012	7:09	Cloudy	Middle	2.5	23.90	23.90	23.70	7.54	7.54	7.54	33.01	33.01	25.71	53.6	53.4	53.3	3.76	3.75	3.75	1.75	1.71	1.70	<2	<2
6/11/2012	7:11	Cicaay	Middle	2.5	23.50	23.50	20.10	7.53	7.53	7.0.	32.90	3.90	20.11	53.2	53.1	00.0	3.74	3.74	0.70	1.69	1.66	0	<2	
10/11/2012	10:22	Fine	Middle	2.5	25.10	25.10	25.10	7.48	7.48	7.48	32.64	32.64	32.64	56.2	56.1	56.0	3.85	3.85	3.84	2.82	3.71	3.42	6	5.50
10/11/2012	10:24	1 1110	Middle	2.5	25.10	25.10	20.10	7.48	7.48	7.40	32.64	32.64	02.04	56.0	55.8	00.0	3.84	3.82	0.04	3.54	3.59	0.42	5	0.00
12/11/2012	11:45	Fine	Middle	2.5	24.80	24.80	24.70	7.51	7.51	7.51	32.61	32.61	32.62	56.2	55.6	56.3	3.89	3.85	3.90	6.03	5.87	5.99	8	9.00
	11:47		Middle	2.5	24.60	24.60		7.51	7.51		32.62	32.62		56.4	56.8		3.92	3.94		5.94	6.11		10	
14/11/2012	10:30	Fine	Middle	3.5	24.70	24.70	24.70	7.51	7.51	7.51	32.77	32.77	32.77	61.1	61.3	61.3	4.22	4.24	4.23	3.84	3.79	3.84	8	7.00
. , , , , , , , , , , , , , , , , , , ,	10:32		Middle	3.5	24.70	24.70		7.51	7.51		32.77	32.77	,	61.4	61.2		4.24	4.23		3.85	3.88		6	
17/11/2012	1:46	Cloudy	Middle	3.0	24.00	24.00	23.90	7.99	7.99	7.98	32.34	32.34	32.34	61.4	61.1	61.0	4.28	4.26	4.25	2.33	2.32	2.31	5	4.50
	1:48	,	Middle	3.0	23.80	23.80		7.97	7.97		32.34	32.34		60.8	60.6		4.24	4.23		2.30	2.27	-	4	
* 19/11/2012	4:59	Cloudy	Middle	2.0	23.10	23.10	23.00	7.81	7.81	7.82	32.37	32.37	32.38	61.6	61.4	61.3	4.37	4.36	4.35	2.54	2.51	2.50	4	3.50
	5:00	Í	Middle	2.0	22.90	22.90		7.82	7.82		32.38	32.38		61.1	60.9		4.34	4.33		2.48	2.46		3	
22/11/2012	20:58	Cloudy	Middle	2.5	24.30	24.30	24.20	8.80	8.80	8.86	32.71	32.71	32.69	57.1	57.0	57.0	3.92	3.92	3.92	5.32	5.30	5.29	4	4.50
	21:00	Í	Middle	2.5	24.10	24.10		8.91	8.91		32.66	32.66		56.9	56.8		3.91	3.91		5.29	5.26		5	
24/11/2012	22:57	Cloudy	Middle	2.5	23.30	23.30	23.15	7.70	7.70	7.73	32.42	32.42	32.43	51.8	51.6	51.5	3.69	3.68	3.68	2.42	2.40	2.40	<2	<2
	23:00		Middle	2.5	23.00	23.00		7.75	7.75		32.43	32.43		51.4	51.3		3.67	3.67		2.39	2.37		<2	
26/11/2012	0:04	Cloudy	Middle	2.5	21.90	21.90	21.60	7.76	7.76	7.76	32.62	32.62	32.64	53.0	52.7	52.7	3.87	3.85	3.85	3.84	3.82	3.81	<2	<2
	0:06	•	Middle	2.5	21.30	21.30		7.76	7.76		32.65	32.65		52.5	52.4		3.84	3.84		3.80	3.79		<2	



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspende	
			n	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
29/10/2012	12:15	Cloudy	Middle	2.0	26.20	26.20	26.20	7.62	7.62	7.62	32.80	32.80	32.80	77.2	76.5	76.5	5.20	5.15	5.16	2.68	2.73	2.69	8	8.00
25/10/2012	12:17	Cloudy	Middle	2.0	26.20	26.20	20.20	7.62	7.62	1.02	32.80	32.80	02.00	76.0	76.2	70.0	5.13	5.14	0.10	2.70	2.66	2.00	8	0.00
31/10/2012	10:50	Cloudy	Middle	1.5	24.90	24.90	24.85	7.53	7.53	7.53	31.63	31.63	31.64	63.3	62.7	62.5	4.39	4.35	4.34	3.58	3.76	3.69	3	3.00
31/10/2012	10:52	Cloudy	Middle	1.5	24.80	24.80	24.03	7.53	7.53	7.00	31.65	31.65	31.04	62.3	61.7	02.5	4.33	4.29	4.54	3.77	3.63	5.05	3	3.00
3/11/2012	23:22	Cloudy	Middle	2.5	24.10	24.10	24.05	7.55	7.55	7.56	32.65	32.65	32.67	61.6	61.4	61.4	4.33	4.32	4.32	1.47	1.43	1.43	2	2.50
3/11/2012	23:24	Cloudy	Middle	2.5	24.00	24.00	24.03	7.56	7.56	7.50	32.68	32.68	32.07	61.3	61.2	01.4	4.32	4.31	4.52	1.41	1.39	1.40	3	2.50
6/11/2012	0:53	Cloudy	Middle	2.0	24.00	24.00	23.80	7.48	7.48	7.49	32.54	32.54	32.55	57.4	57.2	57.1	4.07	4.06	4.06	1.73	1.70	1.69	3	2.50
0/11/2012	0:55	Cloudy	Middle	2.0	23.60	23.60	20.00	7.49	7.49	7.40	32.55	32.55	32.33	57.0	56.8	37.1	4.05	4.04	4.00	1.69	1.65	1.03	2	2.50
8/11/2012	6:45	Cloudy	Middle	2.0	23.80	23.80	23.60	7.46	7.46	7.47	32.27	32.27	32.28	55.2	55.0	55.0	3.90	3.89	3.88	1.71	1.69	1.68	<2	<2
0/11/2012	6:47	Cloudy	Middle	2.0	23.40	23.40	20.00	7.47	7.47	1.71	32.28	32.28	02.20	54.9	54.7	00.0	3.88	3.86	0.00	1.67	1.64	1.00	<2	
10/11/2012	10:01	Fine	Middle	2.0	25.30	25.30	25.30	7.53	7.53	7.53	32.43	32.43	32.43	63.2	63.4	63.6	4.32	4.33	4.35	4.10	4.01	3.81	9	8.50
10/11/2012	10:03	1 1116	Middle	2.0	25.30	25.30	20.00	7.53	7.53.	7.00	32.43	32.43	32.43	63.7	64.1	03.0	4.36	4.39	4.55	3.51	3.63	3.01	8	0.30
12/11/2012	11:25	Fine	Middle	1.5	24.90	24.90	24.80	7.52	7.52	7.52	32.62	32.62	32.63	56.8	56.1	56.7	3.92	3.85	3.91	3.36	3.21	3.33	7	7.50
12/11/2012	11:27	Tine	Middle	1.5	24.70	24.70	24.00	7.52	7.52	1.02	32.63	32.63	02.00	56.9	57.0	00.7	3.93	3.94	0.01	3.47	3.26	0.00	8	7.00
14/11/2012	10:48	Fine	Middle	1.5	24.90	24.90	24.90	7.54	7.54	7.54	32.80	32.80	32.80	61.0	61.3	61.3	4.20	4.22	4.23	2.62	2.84	2.71	4	5.00
14/11/2012	10:50	Tine	Middle	1.5	24.90	24.90	24.00	7.54	7.54	7.04	32.80	32.80	02.00	61.4	61.6	01.0	4.23	4.25	4.20	2.70	2.66	2.71	6	0.00
17/11/2012	1:27	Cloudy	Middle	2.5	24.00	24.00	23.80	7.99	7.99	7.78	32.16	32.16	32.14	67.5	67.3	68.0	4.76	4.75	4.74	2.23	2.20	2.19	10	9.00
17/11/2012	1:29	Cloudy	Middle	2.5	23.60	23.60	20.00	7.17	7.97	7.70	32.12	32.12	32.14	67.1	69.9	00.0	4.74	4.72	7.77	2.19	2.15	2.10	8	3.00
19/11/2012	4:25	Cloudy	Middle	2.0	23.00	23.00	22.90	7.86	7.86	7.83	32.03	32.03	32.07	56.6	56.4	56.4	4.05	4.04	4.04	1.49	1.45	1.44	3	3.00
13/11/2012	4:27	Cloudy	Middle	2.0	22.80	22.80	22.00	7.79	7.79	7.00	32.10	32.10	02.01	56.3	56.1	00.4	4.04	4.03	4.04	1.42	1.39	1	3	0.00
22/11/2012	20:14	Cloudy	Middle	2.0	24.50	24.50	24.50	8.52	8.52	8.80	32.58	32.58	32.58	56.1	55.9	55.8	3.89	3.87	3.87	3.45	3.43	3.42	5	4.50
22/11/2012	20:16	Cioday	Middle	2.0	24.50	24.50	24.00	9.07	9.07	0.00	32.58	32.58	02.00	55.7	55.5		3.86	3.85	0.07	3.41	3.40	0.42	4	4.00
24/11/2012	22:35	Cloudy	Middle	2.5	22.90	22.90	22.80	8.01	8.01	8.04	32.72	32.72	32.71	56.7	56.5	56.5	4.04	4.03	4.03	5.32	5.29	5.28	7	6.00
2-7/17/2012	22:37	Cioday	Middle	2.5	22.70	22.70	22.00	8.07	8.07	0.04	32.69	32.69	02.71	56.4	56.2		4.02	4.01	4.00	5.27	5.24	0.20	5	0.00
26/11/2012	23:45	Cloudy	Middle	2.0	22.20	22.20	22.05	7.87	7.87	7.86	32.87	32.87	32.87	57.0	56.8	56.8	4.12	4.11	4.11	1.09	1.06	1.05	6	5.50
20/11/2012	23:47	Ciouuy	Middle	2.0	21.90	21.90	22.00	7.85	7.85	7.00	32.87	32.87	32.01	56.7	56.5	50.0	4.11	4.10	4.11	1.03	1.01	1.00	5	5.50



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

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	llue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
29/10/2012	12:24	Claudy	Middle	2.0	26.20	26.20	26,20	7.59	7.59	7.50	32.83	32.83	32.83	78.1	77.7	77.8	5.26	5.23	5.24	3.78	3.77	3.71	16	17.00
29/10/2012	12:26	Cloudy	Middle	2.0	26.20	26.20	20.20	7.59	7.59	7.59	32.83	32.83	32.63	77.5	78.0	77.8	5.22	5.26	5.24	3.59	3.68	3.71	18	17.00
31/10/2012	10:55	Cloudy	Middle	1.5	25.30	25.30	25.10	7.56	7.56	7.56	32.37	32.37	32.38	63.4	63.1	62.6	4.36	4.34	4.31	4.59	4.59	4.53	4	5.00
31/10/2012	10:57	Cloudy	Middle	1.5	24.90	24.90	25.10	7.56	7.56	7.50	32.39	32.39	32.30	62.1	61.9	02.0	4.28	4.27	4.51	4.61	4.34	4.55	6	3.00
3/11/2012	23:30	Cloudy	Middle	2.5	24.10	24.10	23.85	7.55	7.55	7.56	32.39	32.39	32.40	61.8	61.5	61.5	4.36	4.34	4.34	2.31	2.29	2.27	3	3.00
3/11/2012	23:33	Cloudy	Middle	2.5	23.60	23.60	23.03	7.57	7.57	7.50	32.40	32.40	32.40	61.4	61.2	01.5	4.34	4.33	4.54	2.25	2.24	2.21	3	3.00
6/11/2012	1:10	Cloudy	Middle	2.0	24.20	24.20	24.05	7.48	7.48	7.49	32.72	32.72	32.73	58.1	57.9	57.8	4.06	4.04	4.04	1.22	1.20	1.19	2	2.50
0/11/2012	1:12	Cloudy	Middle	2.0	23.90	23.90	24.03	7.49	7.49	7.43	32.74	32.74	32.73	57.6	57.5	57.0	4.02	4.02	4.04	1.17	1.16	1.13	3	2.50
8/11/2012	6:51	Cloudy	Middle	2.0	24.30	24.30	24.10	7.53	7.53	7.54	32.98	32.98	32.97	56.4	56.1	57.1	3.96	3.94	3.94	5.27	5.26	5.24	11	11.00
0/11/2012	6:54	Cloudy	Middle	2.0	23.90	23.90	24.10	7.54	7.54	7.54	32.95	32.95	32.31	56.0	59.8	57.1	3.93	3.92	0.04	5.22	5.20	5.24	11	11.00
10/11/2012	10:12	Fine	Middle	2.0	25.20	25.20	25.20	7.42	7.42	7.42	32.57	32.57	32.57	56.5	57.3	58.1	3.87	3.92	3.97	2.63	2.51	2.54	6	5.00
10/11/2012	10:14	Tille	Middle	2.0	25.20	25.20	20.20	7.42	7.42	7.42	32.57	32.57	02.01	58.5	59.9	50.1	4.00	4.09	0.01	2.53	2.47	2.54	4	5.00
12/11/2012	11:35	Fine	Middle	1.5	24.80	24.80	24.70	7.50	7.50	7.51	32.60	32.60	32.61	55.7	55.4	55.8	3.85	3.83	3.86	3.44	3.50	3.48	6	6.00
12/11/2012	11:37	Tine	Middle	1.5	24.60	24.60	24.70	7.51	7.51	7.01	32.61	32.61	02.01	56.3	55.6	00.0	3.90	3.85	0.00	3.48	3.49	0.40	6	0.00
14/11/2012	10:40	Fine	Middle	2.0	24.80	24.80	24.80	7.51	7.51	7.51	32.79	32.79	32.79	60.7	60.9	61.4	4.20	4.22	4.25	2.74	2.97	2.85	4	4.00
,, 20 . 2	10:42	0	Middle	2.0	24.80	24.80	2 1100	7.51	7.51	7.01	32.79	32.79	02.70	61.7	62.1	• • • • • • • • • • • • • • • • • • • •	4.28	4.31	20	2.81	2.88	2.00	4	
17/11/2012	1:33	Cloudy	Middle	2.5	23.90	23.90	23.80	7.92	7.92	7.96	32.21	32.21	32.20	65.3	65.1	65.0	4.59	4.58	4.57	1.49	1.47	1.46	8	7.50
,,2012	1:35		Middle	2.5	23.70	23.70	20.00	7.99	7.99	7.00	32.18	32.18	02.20	64.8	64.6	00.0	4.56	4.55		1.45	1.44		7	1.00
19/11/2012	4:34	Cloudy	Middle	2.0	23.50	23.50	23.25	7.79	7.79	7.79	32.39	32.39	32.28	56.2	56.0	58.0	4.05	4.04	4.04	0.81	0.79	0.78	<2	<2
10/11/2012	4:36		Middle	2.0	23.00	23.00	20:20	7.78	7.78	0	32.16	32.16	02.20	59.9	59.7	00.0	4.03	4.02		0.77	0.75	00	<2	
22/11/2012	20:27	Cloudy	Middle	2.0	24.50	24.50	24.40	8.91	8.91	8.77	32.46	32.46	32.47	55.1	54.9	54.8	3.81	3.80	3.80	2.53	2.50	2.50	5	5.00
	20:30		Middle	2.0	24.30	24.30		8.63	8.63	÷.,,	32.47	32.47	¥=,	54.7	54.6	2	3.79	3.79	2.30	2.49	2.47		5	
24/11/2012	22:46	Cloudy	Middle	2.5	23.00	23.00	22.80	7.95	7.95	7.93	32.56	32.56	32.56	52.5	52.4	52.3	3.75	3.74	3.74	2.54	2.51	2.50	<2	<2
	22:49		Middle	2.5	22.60	22.60		7.91	7.91		32.55	32.55		52.2	52.0		3.73	3.72	*** *	2.49	2.46		<2	
26/11/2012	23:53	Cloudy	Middle	2.0	22.80	22.80	22.50	7.77	7.77	7.76	32.70	32.70	32.69	54.3	54.1	54.0	3.93	3.92	3.92	1.34	1.31	1.30	6	6.00
20, 172012	23:55		Middle	2.0	22.20	22.20	22.00	7.74	7.74	0	32.68	32.68	02.00	53.9	53.7	50	3.91	3.90	5.5 <u>£</u>	1.27	1.26	50	6	



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	С	O Satur	ation		DO ma/L			Turbid	,	Suspended Solids	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average			Average			Average		Average
00/40/0040	12:20	OL I	Middle 1.5		25.90	25.90		8.55	8.55		32.93	32.93		64.4	64.8	64.4	4.35	4.38	4.05	8.46	8.33	0.00	8	7.00
29/10/2012	12:22	Cloudy	Middle	1.5	25.80	25.80	25.85	8.52	8.52	8.54	32.95	32.95	32.94	64.2	64.1	04.4	4.34	4.33	4.35	8.26	8.26	8.33	6	7.00
31/10/2012	14:06	Cloudy	Middle	1.5	24.60	24.60	24.55	8.55	8.55	8.54	31.66	31.66	31.66	66.9	69.4	68.2	4.66	4.83	4.75	9.98	10.00	9.96	13	13.00
31/10/2012	14:08	Cloudy	Middle	1.5	24.50	24.50	24.55	8.53	8.53	0.54	31.65	31.65	31.00	69.1	67.4	00.2	4.82	4.70		9.88	9.96	9.90	13	13.00
3/11/2012	22:55	Cloudy	Middle	1.5	24.20	24.20	24.20	8.47	8.47	8.47	32.28	32.28	32.28	82.5	82.5	82.3	5.75	5.75	5.73	4.99	5.25	4.97	6	6.00
0,11,2012	22:56	o.ouu,	Middle	1.5	24.20	24.20	2 1120	8.47	8.47	0	32.28	32.28	02.20	82.5	81.5	02.0	5.75	5.68	00	4.85	4.77	1101	6	0.00
6/11/2012	0:05	Cloudy	Middle	1.5	24.30	24.30	24.30	8.26	8.26	8.26	32.12	32.12	32.12	78.4	78.9	78.3	5.59	5.52	5.50	3.57	3.96	3.71	3	3.50
	0:06	,	Middle	1.5	24.30	24.30		8.26	8.26		32.12	32.12		78.0	78.0		5.44	5.44		3.74	3.57		4	
8/11/2012	4:25	Cloudy	Middle	1.0	24.00	24.00	24.00	8.34	8.34	8.34	32.42	32.42	32.42	79.3	79.7	79.9	5.62	5.57	5.60	3.95	4.23	4.10	3	3.00
	4:26		Middle	1.0	24.00	24.00		8.34	8.34		32.42	32.42		80.1	80.5		5.60	5.62		4.26	3.97		3	
10/11/2012	9:30	Fine	Middle	1.5	25.90	25.90	25.90	8.23	8.23	8.23	31.90	31.90	31.90	70.4	70.3	70.5	4.77	4.76	4.77	5.37	5.21	5.19	6	5.50
	9:32		Middle	1.5	25.90	25.90		++++	8.22		31.90	31.90		70.4	70.8		4.77	4.79		5.06	5.10		5	
12/11/2012	11:51	Fine	Middle	1.5	24.60	24.60	24.50	8.50	8.50	8.50	32.00	32.00	32.00	62.4	62.8	62.6	4.34	4.37	4.32	6.29	6.10	6.19	11	10.00
	11:53	<u> </u>	Middle	1.5	24.40	24.40		8.50	8.50		32.00	32.00		62.5	62.6		4.28	4.29		6.15	6.22		9	<u> </u>
14/11/2012	13:50	Fine	Middle	1.5	25.60	25.60	25.60	8.38	8.38	8.39	32.12	32.12	32.12	64.5	64.8	64.0	4.40	4.41	4.36	6.54	6.47	6.44	5	4.50
	13:52		Middle	1.5	25.60	25.60		8.39	8.39		32.12	32.12		64.4	62.3		4.38	4.24		6.51	6.24			
* 17/11/2012	2:51	Cloudy	Middle	1.5	23.60	23.60	23.40	8.11	8.11	8.12	31.92	31.92	31.93	50.3	50.1	50.0	3.65	3.64	3.63	9.08	9.06	9.05	19	<u>18.50</u>
	2:53		Middle Middle	1.5	23.20	23.20		8.12	8.12 8.58		31.94	31.94		49.9 66.3	49.8		3.62 4.76	3.62 4.78		9.04	9.03		18	
19/11/2012	3:51	Cloudy	Middle	1.0	22.90	22.90	22.90	8.58	8.58	8.58	31.72	31.72	31.72	66.8	66.5	66.6	4.86	4.81	4.80	3.58	3.66	3.64	2	2.50
	21:45		Middle	1.0	24.80	24.80		8.37	8.37		32.06	32.06		77.3	77.6		5.34	5.37		3.76	3.81		4	$\vdash \vdash \vdash$
22/11/2012	21:46	Cloudy	Middle	1.0	24.80	24.80	8.37	8.37	8.37	32.06	32.06	32.06	77.0	76.4	77.1	5.34	5.28	5.33	3.63	3.65	3.71	3	3.50	
	0:40		Middle	1.0	22.40	22.40		8.50	8.50		31.65	31.65		69.9	69.7		5.09	5.10		3.71	3.47		3	
24/11/2012	0:41	Cloudy	Middle	1.0	22.40	22.40	22.40	8.50	8.50	8.50	31.65	31.65	31.65	68.6	69.1	69.3	5.28	6.39	5.47	4.18	3.60	3.74	3	3.00
	1:18		Middle	1.0	21.30	21.30		8.39	8.39		32.14	32.14		76.4	76.4		5.91	5.66	†	6.49	6.61		12	
26/11/2012	1:19	Cloudy	Middle	1.0	21.30	21.30	21.30	8.39	8.39	8.39	32.13	32.13	32.14	75.3	74.1	75.6	5.64	5.47	5.67	5.79	5.87	6.19	12	12.00



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

Date	Time	Weater Condition	·	Sampling Depth m		er Temp	erature		pH -			Salini	ty	С	OO Satur	ation		DO mg/L			Turbidi NTU		Suspended Solids mg/L	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/10/2012	12:26	Cloudy	Middle	1.5	25.90	5.90 25.90	25.90	8.44	8.44	8.44	32.86	32.86	32.86	65.5	66.2	66.1	4.42	4.47	4.46	7.29	7.58	7.49	14	13.50
25/10/2512	12:28	Cloudy	Middle	1.5	25.90	25.90	20.00	8.44 8.44	0.44	32.86	32.86	02.00	66.4	66.3	00.1	4.48	4.47	4.40	7.73	7.37		13	10.00	
31/10/2012	14:10	Cloudy	Middle	1.5	24.50	24.50	24.55	8.51	8.51	- 8.51	31.57	31.57	31.58	69.0	69.4	68.1	4.77	4.80	4.76	10.80	10.60	<u> 10.90</u>	18	18.00
31/10/2012	14:12	Cloudy	Middle	1.5	24.60	24.60	24.55	8.51	8.51 8.51		31.59	31.59	31.50	65.9	67.9	00.1	4.77	4.70		11.30	10.90		18	10.00
3/11/2012	23:05	Cloudy	Middle	1.5	24.50	24.50	24.50	8.44	8.44	8.44	32.22	32.22	32.22	78.9	80.0	79.1	5.48	5.55	5.49	3.71	3.93	3.67	5	5.00
3/11/2012	23:06	Cloudy	Middle	1.5	24.50	24.50	24.50	8.44	8.44	0.44	32.22	32.22	JZ.ZZ	79.9	77.5	73.1	5.55	5.38	5.45	3.53	3.49	5.07	5	3.00
6/11/2012	0:11	Cloudy	Middle	1.5	24.40	24.40	24.40	8.26	8.26	8.26	32.17	32.17	32.17	75.3	76.0	75.2	5.24	5.29	5.24	3.07	3.00	3.04	3	3.50
0/11/2012	0:12	Cloudy	Middle	1.5	24.40	24.40	24.40	8.26	8.26	0.20	32.17	32.17	32.17	75.4	74.1	75.2	5.25	5.16	5.24	2.98	3.09	5.04	4	3.30
8/11/2012	4:37	Cloudy	Middle	1.0	24.00	24.00	24.00	8.35	8.35	8.35	32.51	32.51	32.52	84.3	84.3	83.8	6.16	6.16	5.99	3.54	3.51	3.40	6	6.00
0/11/2012	4:38	Cloudy	Middle	1.0	24.00	24.00	24.00	8.35	8.35	0.00	32.52	32.52	02.02	83.4	83.3	00.0	5.83	5.82	0.00	3.33	3.22	0.40	6	0.00
10/11/2012	9:35	Fine	Middle	1.5	25.70	25.70	25.75	8.25	8.25	8.26	32.09	32.09	32.09	64.5	66.7	65.9	4.52	4.53	4.51	5.21	5.20	5.22	7	6.50
10/11/2012	9:37	1 1116	Middle	1.5	25.80	25.80	20.70	8.26 8.26	8.26	0.20	32.08	32.08	32.03	66.3	66.1	00.0	4.51	4.49	4.51	5.27	5.20	J.ZZ	6	0.30
12/11/2012	11:55	Fine	Middle	1.5	24.70	24.70	24.65	8.26	8.26	8.26	31.92	31.92	31.92	66.6	65.6	66.2	4.61	4.55	4.62	4.28	4.38	4.29	6	6.50
12/11/2012	11:57	Tine	Middle	1.5	24.60	24.60	24.00	8.26	8.26	0.20	31.91	31.91	01.02	67.4	65.2	00.2	4.78	4.52	4.02	4.30	4.19	4.20	7	0.00
14/11/2012	13:55	Fine	Middle	1.5	25.50	25.50	25.50	8.29	8.29	8.29	30.83	30.83	30.84	63.7	64.1	63.5	4.34	4.37	4.33	4.43	4.13	4.17	3	3.00
,, 23 . 2	13:57	0	Middle	1.5	25.50	25.50	20.00	8.29	8.29	0.20	30.84	30.84	00.0	63.8	62.4		4.35	4.26		4.14	3.96		3	0.00
<b>*</b> 17/11/2012	-	_	Middle	-	-	-	_	-	-	_	-	-	_	-	-		-	-	_	-	-	_	-	_
,,20.12	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
19/11/2012	3:58	Cloudy	Middle	1.0	23.10	23.10	23.10	8.44	8.43	8.43	31.75	31.75	31.75	57.6	57.8	57.5	4.47	4.50	4.48	7.17	7.31	6.97	11	11.00
	3:59		Middle	1.0	23.10	23.10		8.43	8.43		31.75	31.75		57.6	57.0		4.51	4.45		6.80	6.59		11	
22/11/2012	21:52	Cloudy	Middle	1.0	25.10	25.10	25.10	8.37	8.37	8.37	31.73	31.73	31.73	82.7	83.1	82.2	5.70	5.74	5.67	4.29	4.21	4.13	3	3.00
	21:53	,	Middle	1.0	25.10	25.10		8.37	8.37		31.73	31.73		82.9	80.0		5.73	5.50		4.09	3.92	*	3	
24/11/2012	0:45	Cloudy	Middle	1.0	22.60	22.60	22.60	8.35	8.35	8.35	31.97	31.97	31.97	51.9	52.4	52.3	3.82	3.79	3.80	3.18	2.59	2.94	2	2.00
	0:46	,	Middle	1.0	22.60	22.60		8.35	8.35		31.97	31.97		52.2	52.5		3.81	3.78		3.08	2.91		2	
26/11/2012	1:26	Cloudy	Middle	1.0	21.40	21.40	21.40	8.17	8.17	8.16	32.16	32.16	32.16	58.8	59.4	58.7	4.39	4.37	4.37	2.86	2.89	2.84	3	2.50
25, 11, 25 . 2	1:27	2.000,	Middle	1.0	21.40	21.40	2	8.15	8.15	00	32.16	32.16	020	58.5	58.1		4.34	4.37		2.82	2.77	2.0.	2	2.00

### Remarks:



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

Date	Time	Weater Condition	·	g Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	С	O Satur	ation		DO mg/L			Turbidi NTU		Suspended Solids mg/L	
			n	n	Va	llue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
29/10/2012	11:59	Cloudy	Middle	2.0	26.50		26.50	7.57 7.57 7.57 7.57	7.57	7.57	32.87	32.87	32.87	65.7	65.5	65.4	4.40	4.39	4.39	2.44	2.58	2.53	7	7.00
25/10/2012	12:02	Cloudy	Middle	2.0	26.50	26.50	20.00		7.07	32.87	32.87	02.01	65.3	65.1	00.4	4.38	4.37	4.00	2.48	2.62	2.00	7	7.00	
31/10/2012	11:10	Cloudy	Middle	2.0	25.10	25.10	25.10	7.63	7.63	7.63	32.57	32.57	32.58	59.8	61.0	61.2	4.12	4.21	4.22	5.37	5.39	5.39	5	5.00
01/10/2012	11:12	Cloudy	Middle	2.0	25.10	25.10	20.10	7.63 7.	7.63	7.00	32.58	32.58	02.00	61.3	62.5		4.23	4.32	7.22	5.41	5.37	ა.აყ	5	0.00
3/11/2012	22:40	Cloudy	Middle	3.0	24.10	24.10	23.90	7.61	7.61	7.62	32.46	32.46	32.53	61.3	61.0	60.9	4.33	4.31	4.31	3.70	3.68	3.67	8	8.00
3/11/2012	22:42	Cloudy	Middle	3.0	23.70	23.70	20.30	7.62	7.62	7.02	32.59	32.59	32.33	60.8	60.5	00.5	4.30	4.28	4.51	3.66	3.64	3.07	8	0.00
6/11/2012	0:22	Cloudy	Middle	2.0	24.20	24.20	24.05	7.53	7.53	7.53	32.72	32.72	32.72	58.4	58.2	58.1	4.08	4.07	4.07	2.27	2.24	2.23	4	3.50
0/11/2012	0:24	Cloudy	Middle	2.0	23.90	23.90	24.03	7.53	7.53	7.00	32.72	32.72	32.72	58.0	57.9	30.1	4.06	4.05	4.07	2.21	2.18	2.20	3	3.30
8/11/2012	5:54	Cloudy	Middle	1.5	24.10	24.10	24.05	7.58	7.58	7.58	32.51	32.51	32.51	56.6	56.4	56.3	4.00	3.97	3.98	8.57	8.54	8.53	16	17.00
0/11/2012	5:56	Cloudy	Middle	1.5	24.00	24.00	24.00	7.58	7.58	7.00	32.51	32.51	02.01	56.2	56.1	00.0	3.98	3.98	0.00	8.51	8.48	0.00	18	11.00
10/11/2012	9:33	Fine	Middle	2.0	25.70	25.70	25.70	7.50	7.50	7.50	32.68	32.68	32.68	61.8	62.2	62.2	4.20	4.22	4.23	5.08	5.53	5.32	8	8.00
10/11/2012	9:35	1 1116	Middle	2.0	25.70	25.70	20.70	7.50 7.50	7.50	7.50	32.68	32.68	32.00	62.2	62.6	02.2	4.25	4.25	4.23	5.37	5.29	3.32	8	0.00
12/11/2012	11:03	Fine	Middle	1.5	24.90	24.90	24.80	7.51	7.51	7.52	32.74	32.74	32.75	56.3	56.1	56.9	3.87	3.86	3.92	4.95	5.02	4.99	8	7.50
12/11/2012	11:05	Tine	Middle	1.5	24.70	24.70	24.00	7.52	7.52	1.02	32.75	32.75	02.70	57.9	57.4	00.0	3.99	3.96	0.02	4.94	5.06	4.00	7	7.00
14/11/2012	11:03	Fine	Middle	2.0	24.90	24.90	24.90	7.55	7.55	7.55	32.93	32.93	32.93	62.5	62.6	62.9	4.31	4.32	4.34	3.83	3.87	3.82	10	11.00
. 1, 1 1, 20 12	11:05	0	Middle	2.0	24.90	24.90	200	7.55	7.55	7.00	32.93	32.93	02.00	63.1	63.3	02.0	4.36	4.37		3.88	3.70	0.02	12	11.00
17/11/2012	2:34	Cloudy	Middle	1.0	23.40	23.40	23.25	8.02	8.02	8.03	31.90	31.90	31.97	50.5	50.3	50.2	3.68	3.66	3.66	10.16	10.13	10.11	13	14.00
,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2:36	Cicaay	Middle	1.0	23.10	23.10	20.20	8.03	8.03	0.00	32.03	32.03	01.01	50.1	50.0	00.2	3.65	3.65	0.00	10.08	10.07		15	
19/11/2012	3:45	Cloudy	Middle	1.5	22.80	22.80	22.65	8.22	8.22	8.23	31.43	31.43	31.44	53.4	53.2	53.1	3.77	3.76	3.76	4.37	4.34	4.34	4	4.50
16/11/2012	3:47	Cicaay	Middle	1.5	22.50	22.50	22.00	8.24	8.24	0.20	31.44	31.44	0	53.0	52.8	00.1	3.75	3.74	00	4.33	4.31		5	1.00
22/11/2012	19:42	Cloudy	Middle	1.5	24.10	24.10	24.00	8.93	8.93	8.90	32.66	31.66	32.39	58.7	58.6	58.5	4.17	4.16	4.15	7.07	7.03	7.03	10	9.50
22,1,23.2	19:44		Middle	1.5	23.90	23.90	2	8.86	8.86	0.00	32.61	32.61	02.00	58.3	58.2		4.14	4.13		7.01	6.99		9	0.00
24/11/2012	21:42	Cloudy	Middle	2.0	23.00	23.00	22.90	8.08	8.08	8.08	32.58	32.58	32.59	58.6	58.4	58.3	4.21	4.20	4.20	5.16	5.14	5.13	4	4.00
2 17 1 17 20 12	21:44		Middle	2.0	22.80	22.80		8.08	8.08	0.00	32.59	32.59	02.00	58.2	58.1		4.19	4.19		5.12	5.11		4	
26/11/2012	23:15	Cloudy	Middle	1.5	22.20	22.20	22.00	7.97	7.97	7.93	32.96	32.96	32.93	68.7	68.5	68.4	4.25	4.24	4.24	2.16	2.13	2.13	5	5.50
20/11/2012	23:17	Oloudy	Middle	1.5	21.80	21.80	22.00	7.88	7.88	7.33	32.90	32.90	32.33	68.3	68.1	00.4	4.23	4.22	7.24	2.11	2.10	2.13	6	3.30

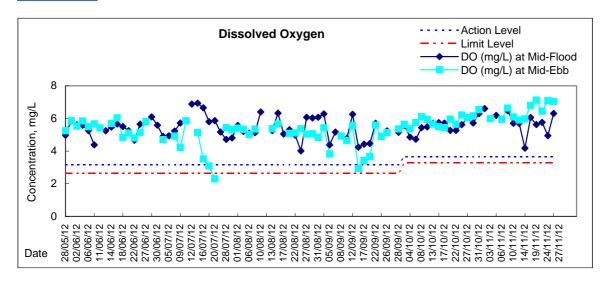


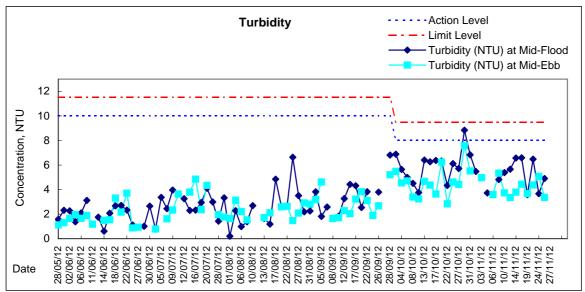
### Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

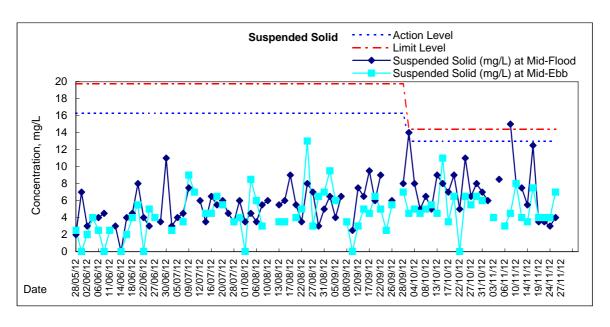
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO ma/L			Turbid	ty	Suspended Solids mg/L	
		Condition	n	n	Value		Average	Va	lue	Average	Va	llue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
00/40/0040	11:40	Olevek	Middle	3.0	25.90	5.90 25.90 25.90	05.00	8.45	8.45	8.44	33.04	33.04	33.05	82.5	83.4	82.3	5.56	5.62	F. F. F.	13.90	14.20	40.70	12	44.50
29/10/2012	11:42	Cloudy	Middle	3.0	25.90	25.90	25.90	8.43		0.44	33.05	33.05	33.05	82.2	81.1	02.3	5.54	5.47	5.55	13.20	13.60	<u>13.73</u>	11	11.50
31/10/2012	13:33	Cloudy	Middle	2.0	24.40	24.40	24.30	8.37	8.37	8.36	32.02	32.02	32.03	81.7	81.3	81.3	5.70	5.67	5.67	11.40	11.80	11.73	16	16.00
31/10/2012	13:35	Cloudy	Middle	2.0	24.20	24.20	24.30	8.34	8.34	0.30	32.04	32.04	32.03	81.3	80.9	01.5	5.67	5.65	5.07	11.90	11.80	11.73	16	10.00
3/11/2012	22:25	Cloudy	Middle	2.0	24.20	24.20	24.20	8.38	8.38	8.38	32.23	32.23	32.23	84.1	84.4	83.5	5.87	5.89	5.83	7.34	7.98	7.45	10	10.00
37172312	22:26		Middle	2.0	24.20	24.20	2 1120	8.38	8.38	0.00	32.23	32.23	02.20	83.2	82.1	00.0	5.81	5.73	0.00	7.26	7.21	7.10	10	10.00
6/11/2012	23:45	Cloudy	Middle	2.0	24.00	24.00	24.00	8.27	8.27	8.27	32.05	32.05	32.05	81.8	82.1	81.5	5.74	5.76	5.72	4.56	4.65	4.51	7	6.50
	23:46		Middle	2.0	24.00	24.00		8.27	8.27		32.05	32.05		81.4	80.6		5.71	5.66		4.34	4.50	_	6	
8/11/2012	4:00		23.90	8.30	8.30	8.30	32.34	32.34	32.34	87.9	88.8	88.3	6.16	6.22	6.18	3.86	4.00	3.81	3	3.00				
	4:01		Middle	1.5	23.90	23.90		8.30	8.30		32.34	32.34		88.3	88.0		6.19	6.16		3.79	3.60		3	<u> </u>
10/11/2012	9:02	Fine	Middle	3.0	25.30	25.30	25.30	8.32	8.32	8.32	32.32	32.32	32.32	82.4	82.9	82.8	5.64	5.67	5.67	7.09	7.08	7.14	9	8.50
	9:04		Middle	3.0	25.30	25.30		8.32	8.32		32.31	32.31		83.0	83.0		5.67	5.68		7.07	7.32		8	
12/11/2012	11:20	Fine	Middle	2.0	24.10	24.10	24.10	8.32	8.32	8.31	32.32	32.32	32.34	70.7	70.2	70.6	4.94	4.90	4.93	8.24	8.02	<u>8.14</u>	11	11.50
	11:22		Middle	2.0	24.10	24.10		8.30	8.30		32.35	32.35		70.7	70.9		4.94	4.95		8.13	8.15		12	<u> </u>
14/11/2012	13:24	Fine	Middle	2.5	24.70	24.70	24.70	8.34	8.34	8.34	31.98	31.98	31.98	82.9	82.8	82.9	6.10	6.09	6.10	8.74	8.54	8.48	8	7.50
	13:26		Middle	2.5	24.70	24.70		8.34	8.34		31.98	31.98		82.8	82.9		6.09	6.10		8.49	8.14		7	<u> </u>
17/11/2012	1:50	Cloudy	Middle	1.5	23.30	23.30	23.30	8.29	8.29	8.29	32.20	32.20	32.20	91.2	91.0	91.2	6.45	6.44	6.46	8.85	8.88	<u>8.91</u>	8	9.00
	1:51		Middle	1.5	23.30	23.30		8.29	8.29		32.20	32.20		90.8	91.8		6.43	6.50		9.15	8.75		10	
19/11/2012	3:20	Cloudy	Middle	1.5	22.80	22.80	22.80	8.29	8.29	8.29	32.36	32.36	32.36	85.9	86.9	86.3	6.17	6.21	6.18	5.03	5.02	5.01	5	5.00
	3:21		Middle	1.5	22.80	22.80		8.29	8.29		32.36	32.36		86.2	86.0		6.17	6.18		5.21	4.76		5	
22/11/2012	22:50	Cloudy	Middle	1.5	24.90	24.90	24.90	8.31	8.31	8.31	32.28	32.28	32.28	90.4	91.3	89.9	6.22	6.34	6.25	5.14	4.94	4.96	4	4.50
	22:51		Middle	1.5	24.90	24.90		8.31	8.31		32.28	32.28		88.1	89.8		6.10	6.34		4.95	4.82		5	
24/11/2012	1:15	Cloudy	Middle	1.5	22.50	22.50	22.50	8.33	8.33	8.33	32.63	32.63	32.63	88.2	88.7	88.4	6.32	6.37	6.39	4.82	4.86	4.73	5	5.00
	1:16		Middle	1.5	22.50	22.50		8.33	8.33		32.63	32.63		88.6	88.2		6.54	6.34		4.41	4.83		5	
26/11/2012	2:13	Cloudy	Middle	1.5	21.50	21.50	21.50	8.40	8.40	8.40	32.39	32.39	32.39	84.3	84.5	84.1	6.59	6.79	6.75	4.04	4.29	4.07	5	5.50
	2:14		Middle	1.5	21.50	21.50		8.40	8.40		32.39	32.39		84.3	83.3		6.84	6.78		3.97	3.99	7.07	6	

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

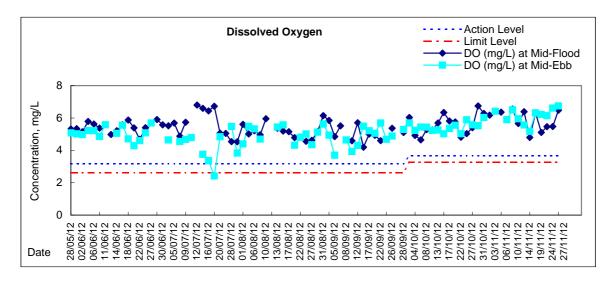
## Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

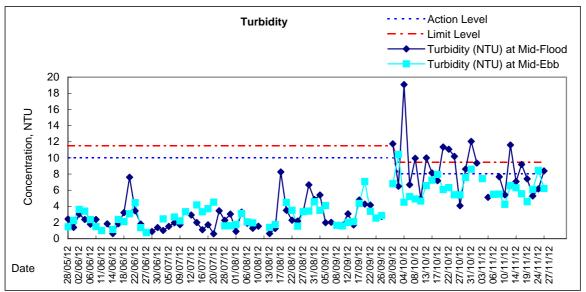


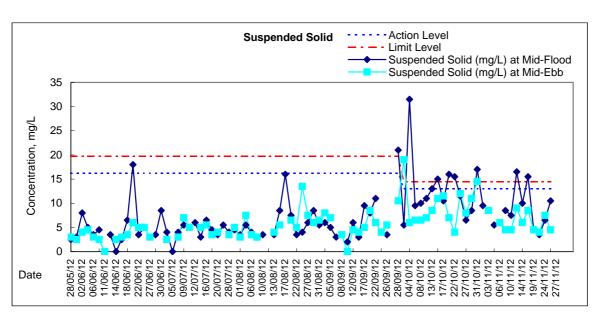




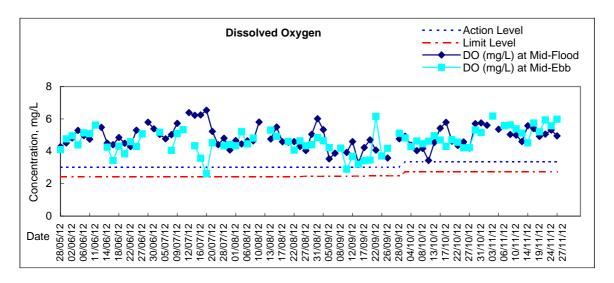
## Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

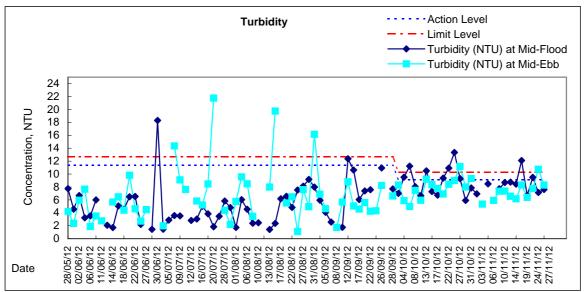


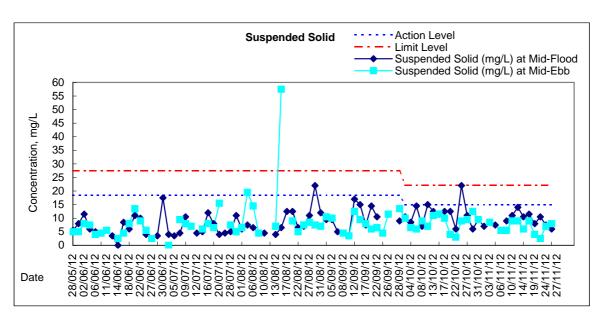




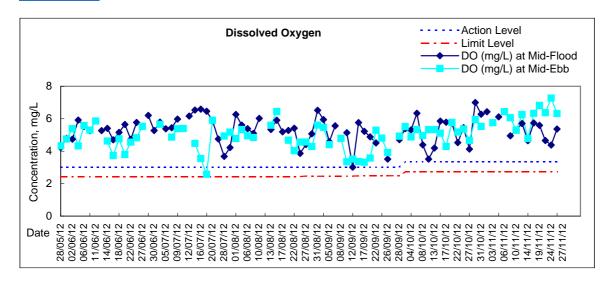
## Graphic Presentation of Water Quality Result of C8 - City Garden

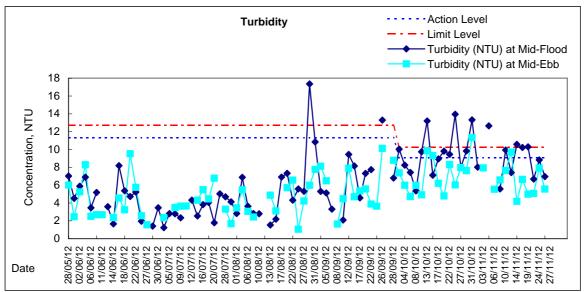


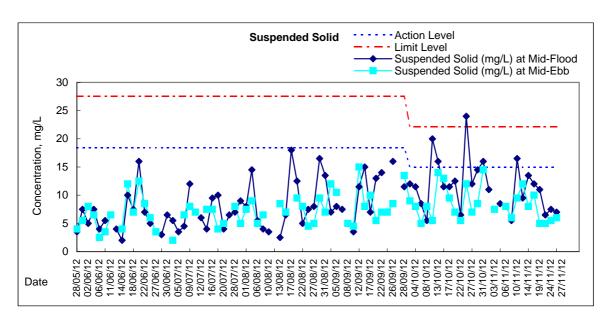




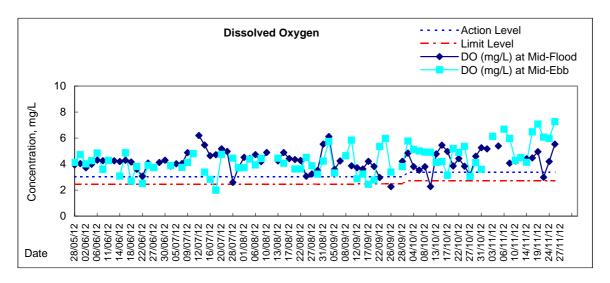
## **Graphic Presentation of Water Quality Result of C9 - Provident Centre**

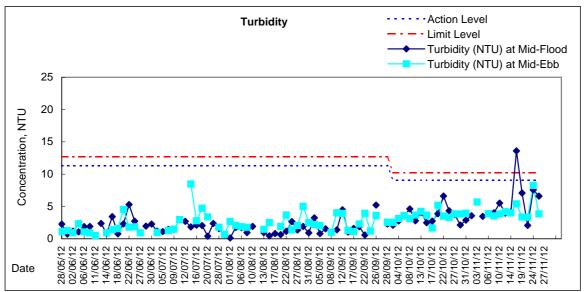


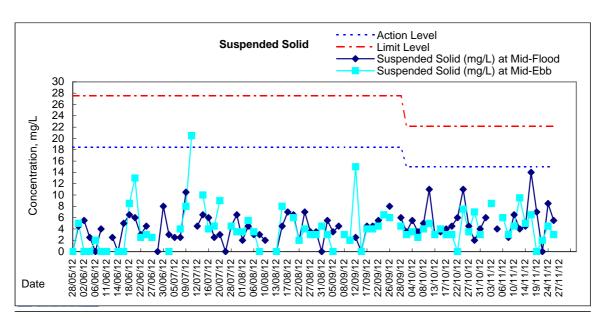




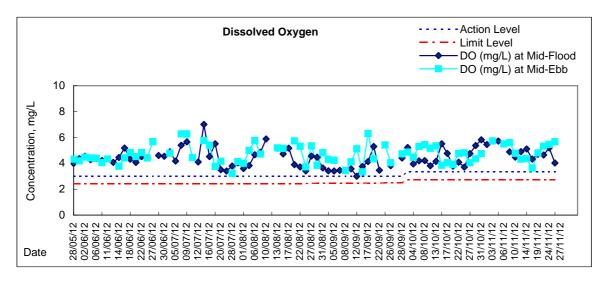
## **Graphic Presentation of Water Quality Result of C7 - Windsor House**

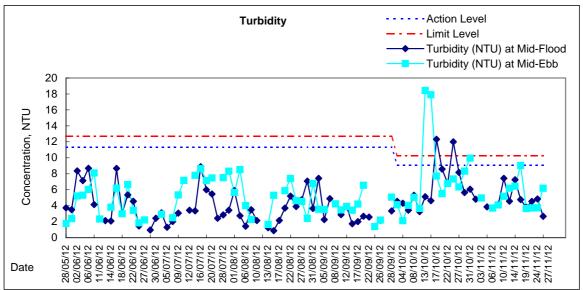


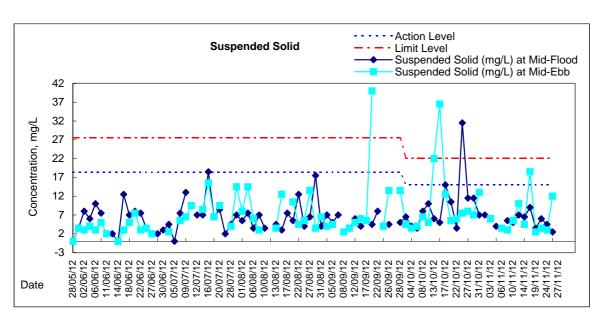




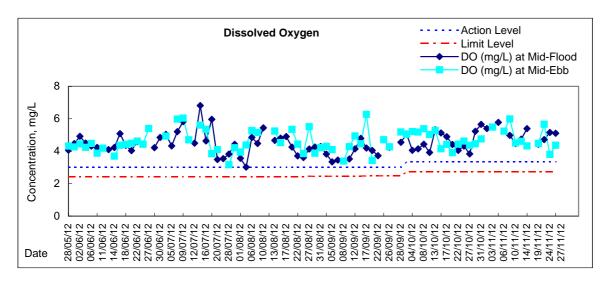
## Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

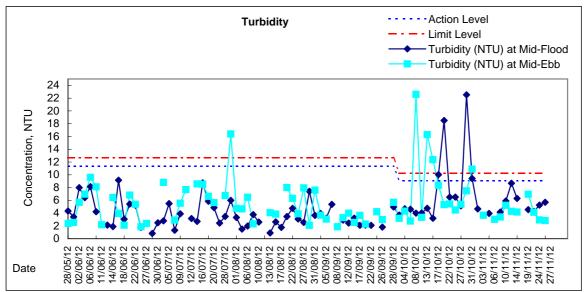


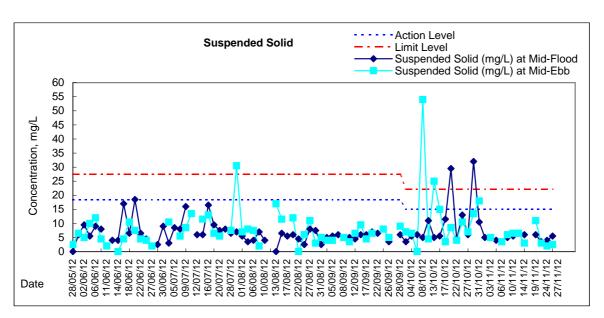




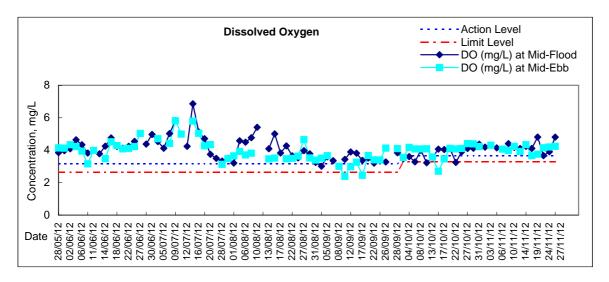
#### Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

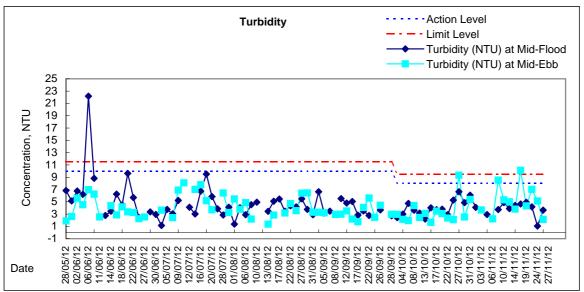


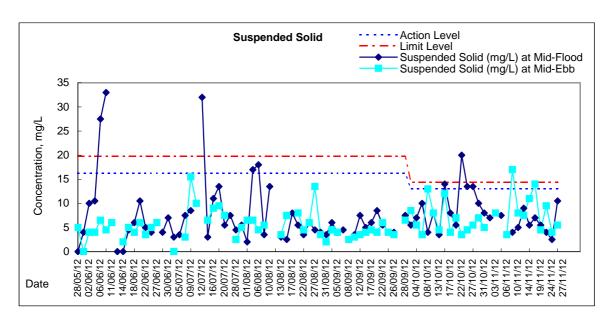




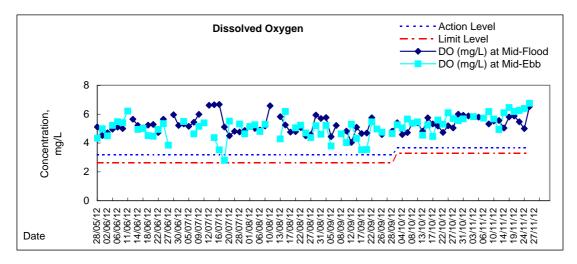
#### Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

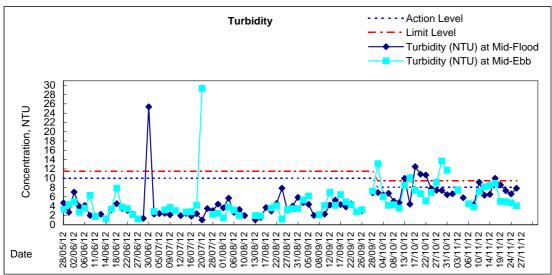


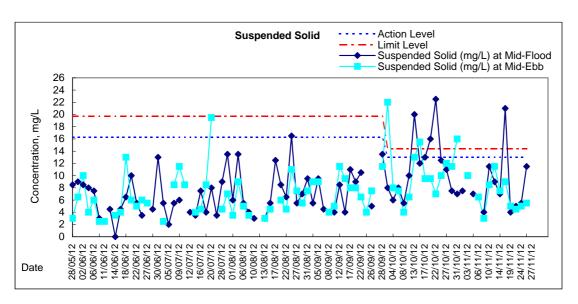




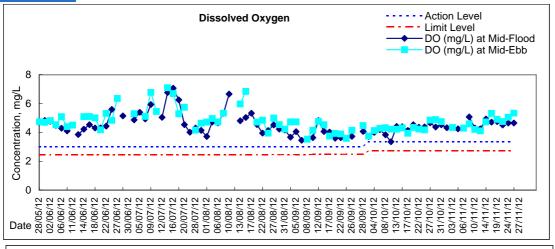
#### Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

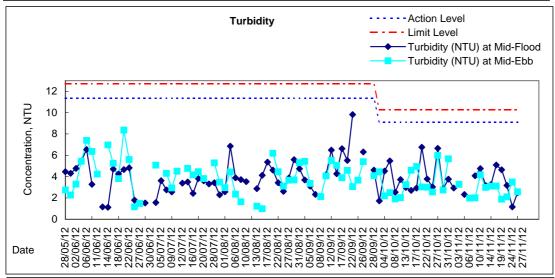


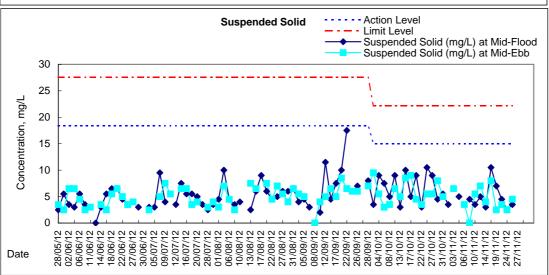




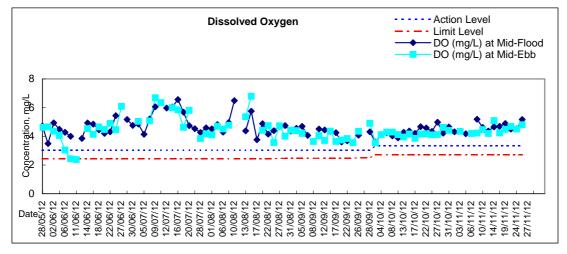
#### Graphic Presentation of Water Quality Result of C1 - HKCEC

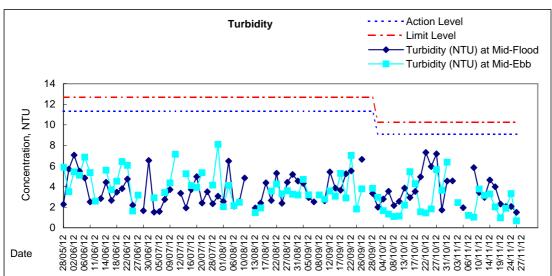


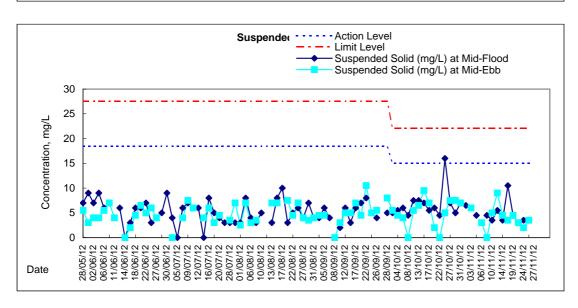




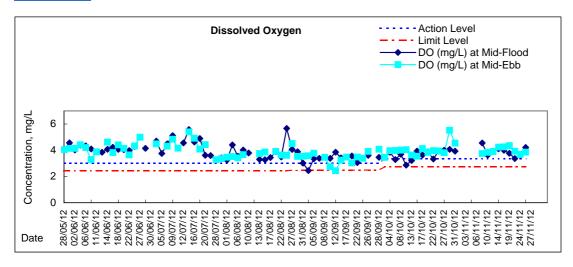
#### Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

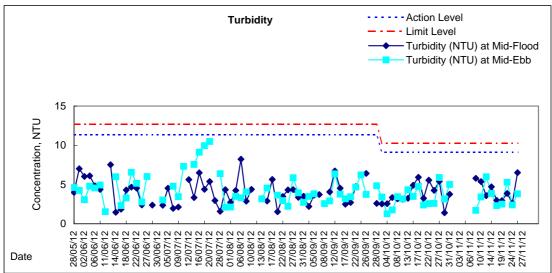


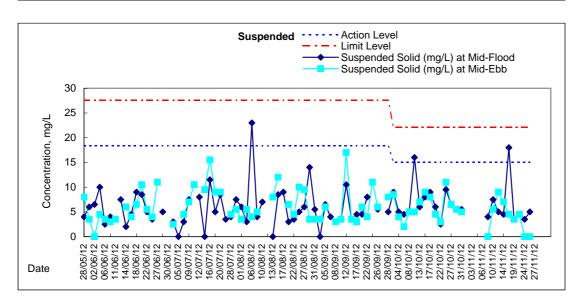




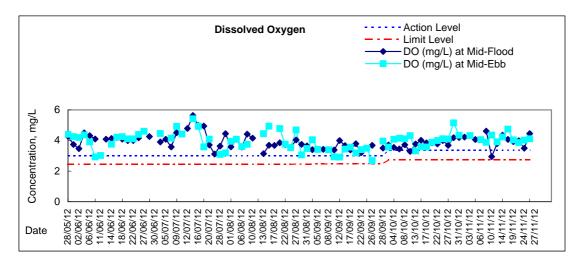
#### Graphic Presentation of Water Quality Result of C3 - WCT and GEC

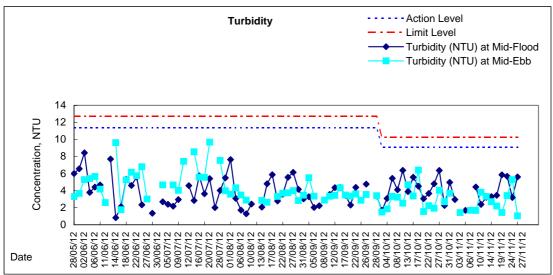


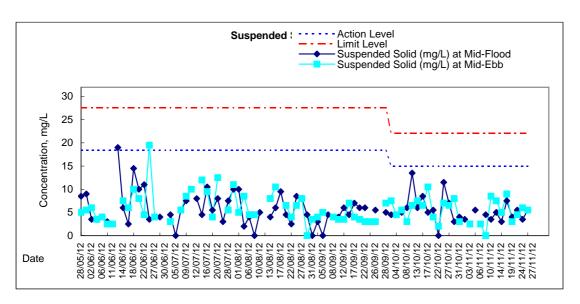




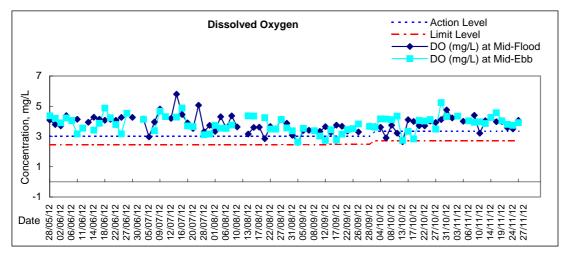
#### Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

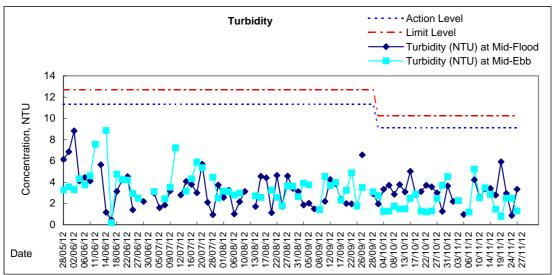


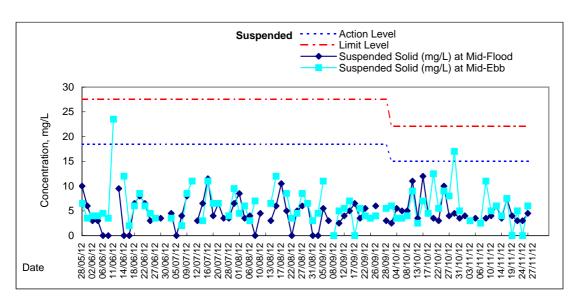




#### Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)







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

Date	Time	Weater	Samplin	g Depth	Wat		erature		рН			Salinit	ty	D	O Satur	ation		DO	
		Condition	n	n	Va	°C lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	6:35	Cloudy	Middle	1.5	25.80	25.80	25.8	8.34	8.34	8.3	32.14	32.14	32.1	83.4	82.9	83.2	5.75	5.65	5.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	18:19	Fine	Middle	1.5	24.10	24.10	24.1	8.54	8.53	8.5	31.36	31.36	31.4	90.8	91.4	91.1	6.48	6.71	6.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/11/2012	19:00	Cloudy	Middle	1.5	24.40	24.40	24.4	8.35	8.35	8.4	31.61	31.61	31.6	88.0	89.1	88.6	6.14	6.26	6.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/11/2012	20:10	Haze	Middle	1.5	24.70	24.70	24.7	8.42	8.42	8.4	31.71	31.71	31.7	88.9	90.3	89.6	6.19	6.23	6.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	15:05	Fine	Middle	1.5	24.90	24.90	24.9	7.55	7.55	7.6	32.05	32.05	32.1	63.3	61.4	62.4	4.35	4.21	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	14:45	Fine	Middle	1.5	25.40	25.40	25.4	8.49	8.49	8.5	31.60	31.60	31.6	62.4	61.5	62.0	4.28	4.22	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	16:01	Fine	Middle	1.5	24.60	24.60	24.6	8.38	8.38	8.4	31.75	31.75	31.8	67.2	67.1	67.2	4.67	4.66	4.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/11/2012	16:02	Fine	Middle	1.5	24.80	24.80	24.8	8.27	8.27	8.3	31.11	31.11	31.1	54.0	54.3	54.2	3.74	3.76	3.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	11:00	Fine	Middle	1.5	23.80	23.80	23.8	8.46	8.46	8.5	31.98	31.98	32.0	57.2	60.0	58.6	4.02	4.22	4.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	11:59	Fine	Middle	1.5	23.70	23.70	23.7	8.48	8.48	8.5	31.86	31.86	31.9	77.7	74.2	76.0	5.48	5.24	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/11/2012	14:38	Cloudy	Middle	1.5	24.10	24.10	24.1	7.86	7.86	7.9	32.00	32.00	32.0	47.2	46.9	47.1	3.29	3.28	3.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	14:45	Fine	Middle	1.5	22.90	22.90	22.9	8.23	8.23	8.2	31.09	31.09	31.1	58.6	57.2	57.9	4.22	4.11	4.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	17:50	Cloudy	Middle	1.5	21.90	21.90	21.9	7.99	7.99	8.0	32.34	32.34	32.3	71.8	70.7	71.3	5.15	5.14	5.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

					1									1					
Date	Time	Weater	Samplin	g Depth	Wat		erature		рН			Salinit	ty	D	O Satur	ation		DO	
		Condition	n	n	Va	°C lue	Average	Va	lue	Average	Va	ppt llue	Average	Va	% lue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	6:25	Cloudy	Middle	1.5	25.70	25.70	25.7	8.14	8.14	8.1	32.02	32.02	32.0	67.2	67.0	67.1	4.59	4.58	4.59
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	18:06	Fine	Middle	1.5	23.60	23.60	23.6	8.26	8.26	8.3	30.95	30.95	31.0	74.3	73.3	73.8	5.31	5.32	5.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/11/2012	18:50	Cloudy	Middle	1.5	24.20	24.20	24.2	8.35	8.35	8.4	31.55	31.55	31.6	73.4	74.3	73.9	5.19	5.22	5.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/11/2012	19:55	Haze	Middle	1.5	24.60	24.60	24.6	8.21	8.21	8.2	31.49	31.49	31.5	77.6	77.9	77.8	5.43	5.43	5.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	15:02	Fine	Middle	1.5	25.10	25.10	25.1	7.52	7.52	7.5	32.40	32.40	32.4	54.1	55.3	54.7	4.71	3.79	4.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	14:55	Fine	Middle	1.5	26.00	26.00	26.0	8.15	8.15	8.2	31.78	31.78	31.8	60.5	62.1	61.3	4.10	4.20	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	16:26	Fine	Middle	1.5	24.40	24.40	24.4	8.18	8.18	8.2	31.52	31.52	31.5	65.7	66.5	66.1	4.59	4.64	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/11/2012	16:20	Fine	Middle	1.5	24.70	24.70	24.7	8.20	8.20	8.2	31.73	31.73	31.7	61.4	61.3	61.4	4.25	4.23	4.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	11:16	Fine	Middle	1.5	23.60	23.60	23.6	8.38	8.38	8.4	32.06	32.06	32.1	63.3	63.8	63.6	4.47	4.50	4.49
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	12:14	Fine	Middle	1.5	23.90	23.90	23.9	8.23	8.23	8.2	31.85	31.85	31.9	70.7	71.4	71.1	4.99	4.53	4.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/11/2012	14:33	Cloudy	Middle	1.5	24.50	24.50	24.5	7.87	7.87	7.9	31.63	31.63	31.6	43.4	42.8	43.1	3.02	2.98	3.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/44/05:-	- 44.50	F:	Surface	-	-	-	-	- 0.40	- 0.40	-	- 04.50	-	-	-	-	-	-	-	-
24/11/2012	14:50	Fine	Middle	1.5	23.10	23.10	23.1	8.19	8.19	8.2	31.59	31.59	31.6	57.9	58.0	58.0	4.14	4.14	4.14
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00/44/05:-	-	0' '	Surface	-	-	-	-	7.00	7.00	- 7.0	-	-	-	-	-	-			
26/11/2012	18:19	Cloudy	Middle	1.5	20.80	20.80	20.8	7.92	7.92	7.9	32.12	32.12	32.1	69.6	69.1	69.4	5.17	5.12	5.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

	Time	Weater	Samplin	g Depth	Wat	er Temp	perature		pН			Salinit	ty	D	O Satur	ation		DO	
Date		Condition	n	n		°C lue	Average	Va	lue -	Average	Va	ppt llue	Average	Va	% lue	Average	Va	mg/l alue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	6:10	Cloudy	Middle	1.0	25.60	25.60	25.6	8.24	8.24	8.2	28.21	28.21	28.2	54.0	54.7	54.4	4.01	4.06	3.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	i	-	-	-	-	-
31/10/2012	20:12	Fine	Middle	1.5	24.40	24.50	24.5	8.41	8.41	8.4	30.88	30.88	30.9	71.7	73.6	72.7	5.02	5.15	5.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/11/2012	20:40	Cloudy	Middle	1.5	23.60	23.60	23.6	8.37	8.37	8.4	30.96	30.97	31.0	82.7	82.7	82.7	6.36	6.37	6.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/11/2012	22:18	Haze	Middle	1.5	24.10	24.10	24.1	8.32	8.32	8.3	30.35	30.35	30.4	65.7	66.2	66.0	4.64	4.68	4.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:40		Surface	1.0	24.80	24.80	24.8	7.57	7.57	7.6	31.15	31.15	31.2	63.9	63.7	63.8	4.41	4.31	4.36
8/11/2012	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:42		Bottom	3.0	24.90	24.90	24.9	7.57	7.57	7.6	31.46	31.46	31.5	62.3	59.6	61.0	4.29	4.10	<u>4.20</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	14:30	Fine	Middle	1.5	25.30	25.30	25.3	8.21	8.21	8.2	26.75	26.75	26.8	42.8	43.2	43.0	3.03	3.05	<u>3.04</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:43		Surface	1.0	24.60	24.70	24.7	8.20	8.20	8.2	31.57	31.57	31.6	52.0	51.4	51.7	3.61	3.56	<u>3.59</u>
12/11/2012	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:45		Bottom	3.0	24.70	24.50	24.6	8.22	8.22	8.2	32.18	32.18	32.2	53.3	53.5	53.4	3.69	3.70	<u>3.70</u>
44440040	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/11/2012	15:49	Fine	Middle	1.5	24.80	24.80	24.8	8.28	8.28	8.3	31.30	31.30	31.3	59.3	57.2	58.3	4.14	3.98	4.06
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	40.25	Fine	Surface	- 4.5	- 22.00	- 22.00	- 22.0	- 0.00	- 0.00	-	- 24.02	- 24.02	- 24.0			-	- 440	- 4 22	- 4.04
17/11/2012	10:35	rine	Middle Bottom	1.5	23.90	23.90	23.9	8.29	8.29	8.3	31.83	31.83	31.8	59.6	60.2	59.9	4.18	4.23	4.21
	-		Surface		-			-	-									-	
19/11/2012	11:45	Fine	Middle	1.5	23.60	23.60	23.6	8.44	8.44	8.4	31.06	31.06	31.1	55.1	58.6	56.9	3.90	4.17	4.04
,, 2012	-	75	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.17	-
	-		Surface	1.0	24.10	24.00	24.1	7.98	7.98	8.0	30.08	30.08	30.1	38.0	36.9	37.5	2.69	2.62	2.66
22/11/2012	14:49	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Bottom	3.0	24.20	24.20	24.2	7.91	7.91	7.9	30.59	30.59	30.6	41.6	42.3	42.0	2.93	3.05	2.99
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	14:32	Fine	Middle	1.5	23.20	23.20	23.2	8.31	8.31	8.3	31.92	31.92	31.9	61.3	57.8	59.6	4.36	4.12	4.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	17:15	Cloudy	Middle	1.5	22.80	22.80	22.8	8.01	8.01	8.0	31.47	31.47	31.5	68.8	69.1	69.0	4.95	4.97	4.96
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		1	<u> </u>	1	<u> </u>	<u> </u>	1	<u> </u>		<u> </u>	<u> </u>		1	1



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

Date	Time	Weater	Samplin	g Depth	Wat		erature		рН			Salinit	ty	D	O Satur	ation		DO	
		Condition	n	n	Va	°C lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	6:16	Cloudy	Middle	1.0	25.70	25.70	25.7	8.18	8.18	8.2	28.08	28.08	28.1	50.1	50.7	50.4	3.49	3.53	<u>3.51</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	20:18	Fine	Middle	1.5	24.50	24.50	24.5	8.34	8.34	8.3	30.87	30.87	30.9	67.8	68.9	68.4	4.74	4.81	4.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/11/2012	20:47	Cloudy	Middle	1.5	23.60	23.60	23.6	8.37	8.37	8.4	30.74	30.74	30.7	75.1	75.6	75.4	5.34	5.37	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/11/2012	22:24	Haze	Middle	1.5	24.10	24.10	24.1	8.24	8.24	8.2	30.20	30.20	30.2	63.7	64.2	64.0	4.54	4.55	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:44		Surface	1.0	25.00	25.00	25.0	7.58	7.58	7.6	31.78	31.78	31.8	58.2	58.5	58.4	4.02	4.04	4.03
8/11/2012	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:46		Bottom	3.0	25.00	25.00	25.0	7.28	7.28	7.3	32.44	32.44	32.4	58.2	59.3	58.8	4.02	4.08	<u>4.05</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	14:26	Fine	Middle	1.5	25.50	25.50	25.5	8.53	8.53	8.5	26.89	26.89	26.9	40.5	41.7	41.1	2.85	2.93	<u>2.89</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:36		Surface	1.0	24.80	24.80	24.8	8.30	8.30	8.3	31.02	31.02	31.0	54.0	53.6	53.8	3.76	3.73	<u>3.75</u>
12/11/2012	-	Fine	Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:38		Bottom	3.0	24.90	24.90	24.9	8.19	8.19	8.2	30.27	30.27	30.3	52.4	52.2	52.3	3.66	3.65	<u>3.66</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/11/2012	15:42	Fine	Middle	1.5	24.90	24.90	24.9	8.32	8.32	8.3	31.79	31.79	31.8	62.6	62.5	62.6	4.32	4.32	4.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	10:30	Fine	Middle	1.5	24.00	24.00	24.0	8.41	8.41	8.4	31.83	31.83	31.8	64.9	59.8	62.4	4.52	4.20	4.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	11:40	Fine	Middle	1.5	23.90	23.90	23.9	8.53	8.53	8.5	32.09	32.09	32.1	62.2	66.2	64.2	4.34	4.65	4.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/11/2012	14:44	Cloudy	Middle	1.5	24.30	24.30	24.3	8.01	8.01	8.0	30.83	30.83	30.8	41.3	42.0	41.7	2.93	2.96	<u>2.95</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	14:30	Fine	Middle	1.5	23.20	23.20	23.2	8.49	8.49	8.5	31.88	31.88	31.9	59.4	58.0	58.7	4.21	4.13	<u>4.17</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	17:17	Cloudy	Middle	1.5	22.30	22.30	22.3	8.22	8.22	8.2	24.56	24.57	24.6	50.1	49.9	50.0	3.79	3.77	<u>3.78</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

					l						ı								
Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ty	D	O Satur %	ration		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	13:05	Cloudy	Middle	2	26.20	26.20	26.2	8.65	8.65	8.7	32.83	32.83	32.8	40.3	41.5	40.9	2.72	2.82	<u>2.77</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	12:25	Cloudy	Middle	2	25.70	25.70	25.7	7.53	7.53	7.5	31.68	31.68	31.7	69.1	66.9	68.0	4.71	4.54	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/11/2012	23:43	Cloudy	Middle	2	24.80	24.80	24.8	8.40	8.40	8.4	31.74	31.74	31.7	85.5	85.5	85.5	5.92	5.93	5.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2012	1:05	Cloudy	Middle	2	24.00	24.00	24.0	8.23	8.24	8.2	31.62	31.62	31.6	88.0	87.5	87.8	6.18	6.15	6.17
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	5:45	Cloudy	Middle	1	23.80	23.80	23.8	8.22	8.22	8.2	29.40	29.40	29.4	84.4	85.1	84.8	6.02	6.07	6.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	10:05	Fine	Middle	2	25.20	25.20	25.2	8.30	8.30	8.3	31.85	31.85	31.9	61.1	63.4	62.3	4.20	4.36	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	12:19	Fine	Middle	2	24.50	24.50	24.5	8.48	8.48	8.5	31.75	31.75	31.8	78.5	78.1	78.3	5.46	5.43	5.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	1	1	-	-	-	-	i	1	-	-	1	-	-
14/11/2012	12:03	Cloudy	Middle	2	24.90	24.90	24.9	7.51	7.51	7.5	32.20	32.20	32.2	58.3	55.6	57.0	3.82	3.81	3.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	2:55	Cloudy	Middle	1	23.20	23.20	23.2	8.28	8.27	8.3	28.95	28.95	29.0	79.9	79.7	79.8	5.85	5.76	5.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	1	-	-	-	-	i	1	-	-	1	-	-
19/11/2012	4:48	Cloudy	Middle	1	22.90	22.90	22.9	8.21	8.21	8.2	30.19	30.19	30.2	75.7	75.5	75.6	5.59	5.49	5.54
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	i	-	-	-	-	-	-
22/11/2012	20:10	Cloudy	Middle	1	24.70	24.70	24.7	8.33	8.33	8.3	32.03	32.03	32.0	92.5	92.6	92.6	6.64	6.67	6.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	23:03	Cloudy	Middle	1	22.60	22.60	22.6	8.52	8.51	8.5	30.43	30.43	30.4	78.2	79.1	78.7	5.85	5.77	5.81
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	23:22	Cloudy	Middle	1	21.10	21.10	21.1	8.44	8.43	8.4	30.16	30.16	30.2	73.9	73.8	73.9	5.84	5.83	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	WIIG-EL																		
Date	Time	Weater	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salinit	У	D	O Satur	ation		DO	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L llue	Average
	-		Surface	-	-	-	=	-	-	-	-	-	=	-	-	-	-	-	-
29/10/2012	13:10	Cloudy	Middle	2	25.80	25.80	25.8	8.28	8.28	8.3	32.82	32.82	32.8	60.9	61.2	61.1	4.10	4.14	4.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	12:33	Cloudy	Middle	2	24.20	24.20	24.2	7.45	7.45	7.5	30.70	30.70	30.7	51.7	51.5	51.6	3.64	3.63	<u>3.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/11/2012	23:32	Cloudy	Middle	2	24.50	24.50	24.5	8.40	8.40	8.4	31.44	31.44	31.4	87.1	88.2	87.7	6.08	6.16	6.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2012	0:53	Cloudy	Middle	2	23.80	23.80	23.8	8.25	8.25	8.3	31.08	31.08	31.1	93.7	94.8	94.3	6.63	6.71	6.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	5:30	Cloudy	Middle	1	23.90	23.90	23.9	8.22	8.22	8.2	31.15	31.15	31.2	84.9	84.6	84.8	5.99	5.97	5.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40/44/2042	- 40.05	Fina	Surface	-	-	-	-	- 0.00	- 0.00	-	-	-	- 24.0	- 04.0	-	-	- 4.40	- 4.45	-
10/11/2012	10:25	Fine	Middle	2	25.60	25.60	25.6	8.23	8.23	8.2	31.81	31.81	31.8	64.8	65.2	65.0	4.42	4.45	4.44
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	12:29	Fine	Surface Middle	2	24.60	24.60	24.6	8.40	8.40	8.4	31.50	31.50	31.5	64.8	64.2	64.5	4.51	4.48	4.50
12/11/2012	-	Tille	Bottom	-	24.00	-	-	-	-	-	-	-	-	-	-	-	4.51		-
	_		Surface	_	_	_	_	-	_	_	_	_	-	_	_	_	-	_	_
14/11/2012	12:16	Cloudy	Middle	2	24.60	24.60	24.6	7.47	7.47	7.5	32.44	32.44	32.4	61.4	58.9	60.2	4.25	4.14	4.20
	-		Bottom	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	2:45	Cloudy	Middle	1	22.70	22.70	22.7	8.25	8.25	8.3	29.35	29.35	29.4	89.3	89.1	89.2	6.51	6.49	6.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	4:38	Cloudy	Middle	1	22.50	22.50	22.5	8.21	8.21	8.2	28.85	28.85	28.9	93.3	94.5	93.9	6.91	7.25	7.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
22/11/2012	20:00	Cloudy	Middle	1	24.70	24.70	24.7	8.22	8.22	8.2	31.44	31.44	31.4	87.4	87.7	87.6	6.08	6.12	6.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	22:55	Cloudy	Middle	1	22.30	22.30	22.3	8.18	8.18	8.2	30.53	30.53	30.5	81.3	82.6	82.0	5.97	6.02	6.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	23:12	Cloudy	Middle	1	20.60	20.60	20.6	8.35	8.35	8.4	31.02	31.02	31.0	89.1	89.0	89.1	7.26	7.19	7.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

Date	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		рН			Salinit	ty	D	O Satur	ation		DO	
Date		Condition	n	n	Va	<u>°C</u> llue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	lue %	Average	Va	mg/L llue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29/10/2012	12:50	Cloudy	Middle	1.5	26.10	26.10	26.1	8.83	8.83	8.8	32.50	32.50	32.5	59.9	61.0	60.5	4.05	4.13	4.09
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	12:18	Cloudy	Middle	1.5	25.70	25.70	25.7	7.56	7.56	7.6	31.46	31.46	31.5	57.7	57.4	57.6	3.92	3.91	3.92
	-		Bottom	-	-	-	-	-	- -	-	-	-	-	-	-	-	-	-	-
3/11/2012	23:15	Cloudy	Surface Middle	1.5	24.30	24.30	24.3	8.56	8.56	8.6	29.55	29.55	29.6	67.5	68.5	68.0	4.78	4.85	4.82
0,11,2012	-	Cicaay	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/11/2012	0:22	Cloudy	Middle	1.5	24.10	24.10	24.1	8.32	8.32	8.3	28.90	28.90	28.9	59.1	59.5	59.3	4.21	4.24	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	4:50	Cloudy	Middle	1.0	24.40	24.40	24.4	8.21	8.21	8.2	27.72	27.72	27.7	58.9	59.0	59.0	4.20	4.21	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	9:55	Fine	Middle	1.5	25.10	25.10	25.1	15.71	15.71	15.7	31.47	31.47	31.5	58.8	58.1	58.5	4.06	4.00	4.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/0010	-	E	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	12:08	Fine	Middle Bottom	1.5	24.30	24.30	24.3	8.22	8.22	8.2	31.90	31.90	31.9	90.2	89.9	90.1	6.30	6.28	6.29
	11:49		Surface	1.0	24.90	24.90	24.9	7.50	7.50	7.5	32.59	32.59	32.6	46.7	46.5	46.6	3.22	3.20	3.21
14/11/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:50		Bottom	3.0	24.90	24.90	24.9	7.50	7.50	7.5	32.60	32.60	32.6	44.4	44.2	44.3	3.06	3.05	3.06
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/11/2012	2:12	Cloudy	Middle	1.0	23.90	23.90	23.9	8.37	8.37	8.4	28.32	28.32	28.3	62.5	63.0	62.8	4.48	4.51	4.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	4:08	Cloudy	Middle	1.0	23.40	23.40	23.4	8.14	8.13	8.1	27.54	27.54	27.5	52.6	53.1	52.9	4.09	4.10	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00/44/2	-	<b>0</b> 1 :	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/11/2012	22:02	Cloudy	Middle	1.0	24.90	24.90	24.9	8.25	8.25	8.3	27.38	27.38	27.4	55.9	55.5	55.7	3.99	3.95	3.97
	-		Bottom Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	0:54	Cloudy	Middle	1.0	22.60	22.60	22.6	8.20	8.20	8.2	28.09	28.10	28.1	55.0	55.6	55.3	4.06	4.09	4.08
,	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	1:35	Cloudy	Middle	1.0	22.50	22.50	22.5	8.21	8.21	8.2	29.62	29.62	29.6	58.5	58.9	58.7	4.60	4.71	4.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

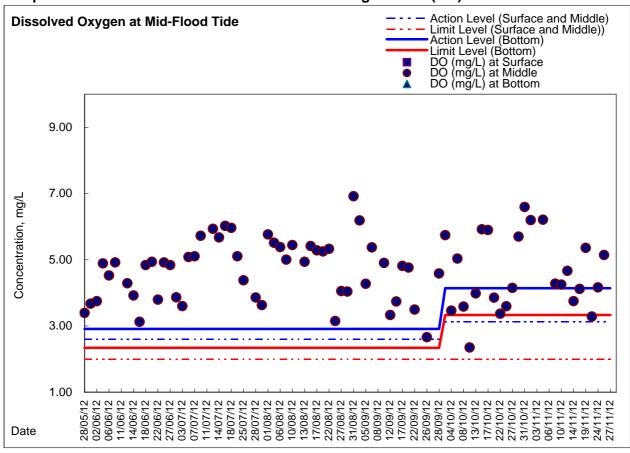


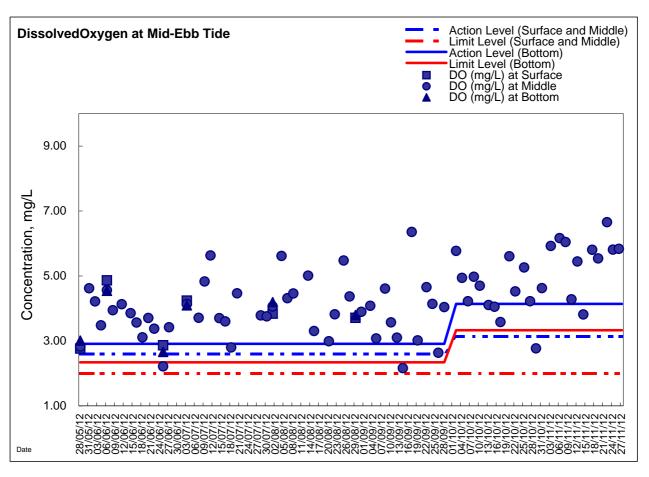
#### Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

								I			I						l		
Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	У	D	O Satur	ration		DO mg/L	
		Corrainor	n	n I	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	12:45		Surface	1.0	26.10	26.10	26.1	8.49	8.49	8.5	31.78	31.78	31.8	56.0	52.2	54.1	3.81	3.54	3.68
29/10/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:47		Bottom	3.0	26.10	26.10	26.1	8.29	8.29	8.3	31.85	31.85	31.9	43.9	52.6	48.3	2.97	3.58	<u>3.28</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31/10/2012	12:15	Cloudy	Middle	1.5	25.80	25.80	25.8	7.56	7.56	7.6	31.17	31.17	31.2	68.7	68.3	68.5	4.68	4.65	4.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/11/2012	23:20	Cloudy	Middle	1.5	24.30	24.30	24.3	8.38	8.38	8.4	29.54	29.54	29.5	64.9	66.0	65.5	4.59	4.67	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	1	-	1	i	-	-	i	1	-	-	-	-	-
6/11/2012	0:28	Cloudy	Middle	1.5	24.30	24.30	24.3	8.19	8.19	8.2	28.78	28.78	28.8	55.6	55.8	55.7	3.96	3.97	<u>3.97</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/11/2012	4:57	Cloudy	Middle	1.0	24.40	24.40	24.4	8.18	8.18	8.2	27.55	27.55	27.6	60.5	61.6	61.1	4.32	4.40	4.36
	-		Bottom	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/11/2012	9:45	Fine	Middle	1.5	25.30	25.30	25.3	15.70	15.70	15.7	27.44	27.44	27.4	54.0	53.7	53.9	3.79	3.77	3.78
	-		Bottom	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/11/2012	12:03	Fine	Middle	1.5	24.30	24.30	24.3	8.31	8.31	8.3	28.34	28.34	28.3	53.6	54.0	53.8	3.81	3.84	4.26
	-		Bottom	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
	11:55		Surface	1.0	24.90	24.90	24.9	7.51	7.51	7.5	32.32	32.32	32.3	49.7	49.0	49.4	3.41	3.37	3.39
14/11/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:56		Bottom	3.0	24.90	24.90	24.9	7.50	7.50	7.5	32.45	32.45	32.5	43.2	42.9	43.1	2.97	2.95	<u>2.96</u>
	-		Surface	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
17/11/2012	2:18	Cloudy	Middle	1.0	23.80	23.80	23.8	8.28	8.28	8.3	28.07	28.07	28.1	63.7	64.5	64.1	4.58	4.64	4.61
	-		Bottom	-	-	-	-	-	-	-	-	-	=	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/11/2012	4:15	Cloudy	Middle	1.0	23.40	23.40	23.4	8.03	8.03	8.0	27.32	27.32	27.3	53.0	53.8	53.4	3.88	3.94	3.91
	-		Bottom	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	_	-	-	_	-	-	-	-	-	-	-	-
22/11/2012	22:08	Cloudy	Middle	1.0	24.90	24.90	24.9	8.23	8.23	8.2	27.20	27.20	27.2	55.7	56.3	56.0	3.96	4.00	3.98
	-		Bottom	-	-	-	-	-	ı	ī	-	-	ï	1	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24/11/2012	0:58	Cloudy	Middle	1.0	22.50	22.50	22.5	8.11	8.11	8.1	27.94	27.94	27.9	59.8	60.5	60.2	4.56	4.58	4.57
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26/11/2012	1:40	Cloudy	Middle	1.0	22.40	22.40	22.4	8.18	8.18	8.2	29.42	29.42	29.4	59.5	60.0	59.8	4.72	4.77	4.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	i			<u> </u>	1	<u> </u>		<u> </u>			<u> </u>	<u> </u>			1	1	<u> </u>	1	

# am

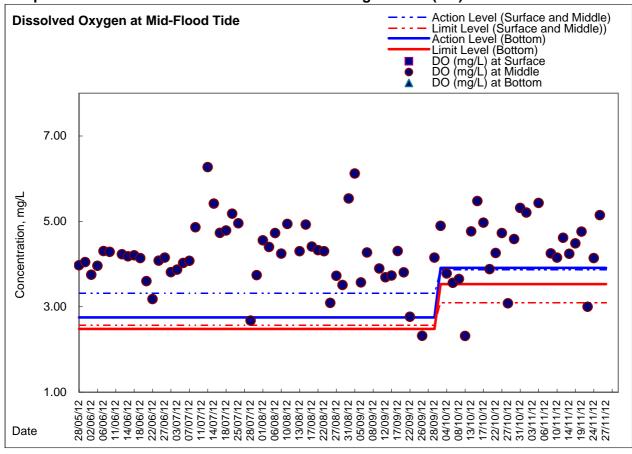
#### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel

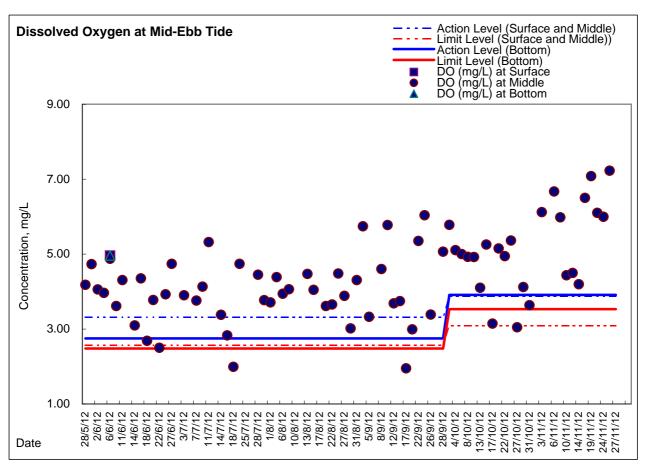




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#### Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House

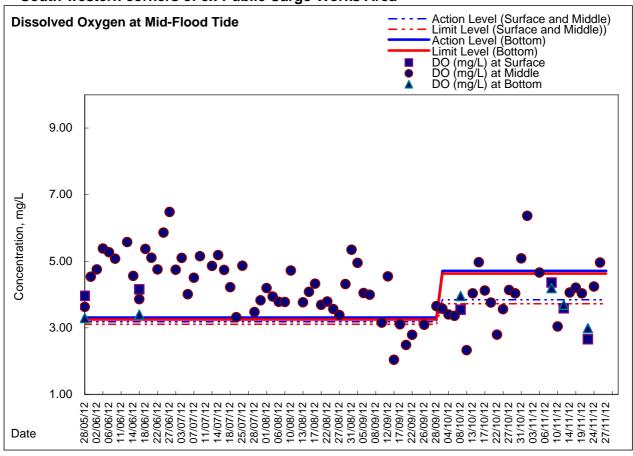


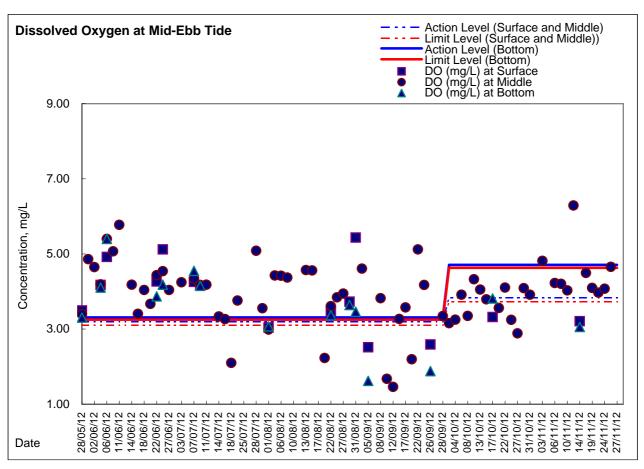




### Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW

- South-western corners of ex-Public Cargo Works Area

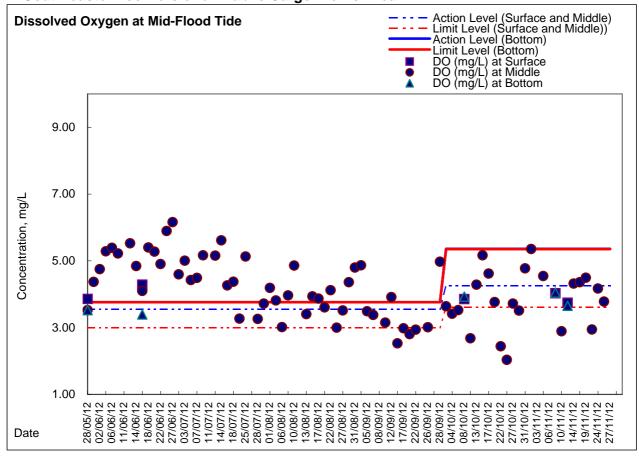


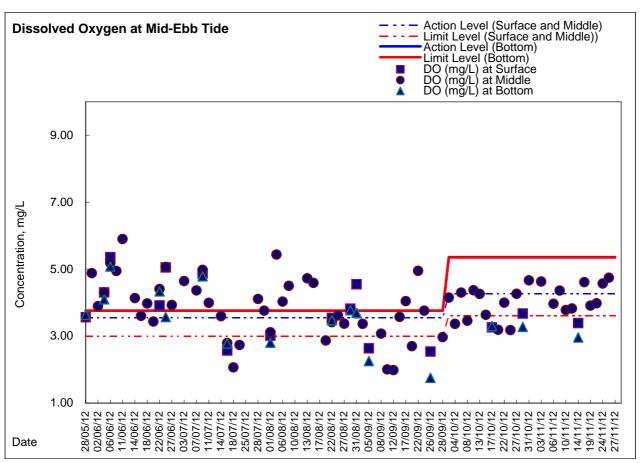




### Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE

- South-eastern corners of ex-Public Cargo Works Area





## Appendix 5.4a

Additional Dissolved Oxygen Monitoring Results

Location: Station A
Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Samplin	•	Wat	er Temp	erature		pH -			Salinit	у	D	O Satur	ation		DO mg/L	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	16:54		Surface	1.0	25.90	25.90	25.90	7.59	7.59	7.59	32.61	32.61	32.61	74.7	74.3	74.5	5.06	5.01	5.04
31-Oct-12	-	Fine	Middle	ı	-	-	-	1	-	ı	-	-	-	-	-	-	-	-	-
	16:55		Bottom	3.0	25.90	25.90	25.90	7.59	7.59	7.59	32.57	32.57	32.57	71.5	71.2	71.4	4.83	4.81	4.82
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-Nov-12	14:35	Fine	Middle	1.5	25.20	25.20	25.20	7.59	7.59	7.59	32.38	32.38	32.38	71.0	70.6	70.8	4.85	4.83	4.84
	-		Bottom	1	-	-	-	1	-	1	-	-	-	1	-	-	1	-	-
	16:04		Surface	1.0	25.10	25.10	25.10	7.54	7.54	7.54	32.63	32.63	32.63	59.1	58.0	58.6	4.05	4.02	4.04
14/11/2012	-	Fine	Middle	1	-	-	-	1	-	i	-	-	1	ı	-	-	ı	-	-
	16:05		Bottom	3.0	25.20	25.20	25.20	7.54	7.54	7.54	32.69	32.68	32.69	55.5	56.0	55.8	3.80	3.84	3.82
	15:06		Surface	1.0	24.10	24.10	24.10	8.78	8.78	8.78	32.30	32.30	32.30	64.4	66.8	65.6	4.50	4.67	4.59
22-Nov-12	-	Cloudy	Middle	1	-	-	-	-	-	,	-	-	-	1	-	-	1	-	-
	15:08		Bottom	3.0	24.00	24.00	24.00	9.26	9.26	9.26	32.54	32.54	32.54	66.4	66.3	66.4	4.64	4.63	4.64

Location: Station B
Coordinate: 835572E, 815961N

Date	Time	Weater Condition	Samplin		Wat	er Temp	erature		pH -			Salinit	у	D	O Satur %	ation		DO ma/L	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	16:50		Surface	1.0	25.80	25.80	25.80	7.60	7.60	7.60	32.67	32.67	32.67	71.9	71.8	71.85	4.86	4.86	4.86
31-Oct-12	16:51	Fine	Middle	4.5	25.80	25.80	25.80	7.60	7.60	7.60	32.68	32.68	32.68	71.3	71.0	71.2	4.83	4.80	4.82
	16:53		Bottom	8.0	25.80	25.80	25.80	7.60	7.60	7.60	32.67	32.67	32.67	70.3	70.2	70.3	4.76	4.75	4.76
	14:30		Surface	1.0	25.00	25.00	25.00	7.60	7.60	7.60	34.59	34.59	34.59	70.7	70.4	70.6	4.85	4.83	4.84
8-Nov-12	14:31	Fine	Middle	5.0	25.00	25.00	25.00	7.64	7.64	7.64	32.82	32.83	32.83	69.9	70.0	70.0	4.79	4.80	4.80
	14:32		Bottom	9.0	25.00	25.00	25.00	7.60	7.60	7.60	32.84	32.84	32.84	69.9	69.8	69.9	4.79	4.79	4.79
	15:59		Surface	1.0	24.90	24.90	24.90	7.59	7.59	7.59	32.86	32.86	32.86	70.9	69.7	70.3	4.86	4.78	4.82
14-Nov-12	16:00	Fine	Middle	5.5	25.00	25.00	25.00	7.59	7.59	7.59	32.89	32.89	32.89	68.5	68.8	68.7	4.70	4.72	4.71
	16:01		Bottom	10.0	24.90	24.90	24.90	7.58	7.58	7.58	32.92	32.92	32.92	67.9	67.3	67.6	4.63	4.62	4.63
	15:02		Surface	1.0	24.30	24.30	24.30	8.18	8.18	8.18	32.34	32.34	32.34	67.6	67.5	67.6	4.71	4.70	4.71
22-Nov-12	15:03	Cloudy	Middle	6.0	24.10	24.10	24.10	7.94	7.94	7.94	32.51	32.51	32.51	64.0	64.4	64.2	4.43	4.50	4.47
	15:04		Bottom	11.0	24.00	24.00	24.00	7.91	7.91	7.91	32.57	32.57	32.57	64.5	64.5	64.5	4.51	4.51	4.51

Location: Station C
Coordinate: 835659E, 816271N

Date	Time	Weater Condition		g Depth	Wat	er Temp	erature		pH -			Salinit	у	D	O Satur	ation		DO mg/L	
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	16:44		Surface	1.0	25.80	25.80	25.80	7.60	7.60	7.60	32.65	32.65	32.65	71.8	71.5	71.7	4.85	4.84	4.85
31-Oct-12	16:46	Fine	Middle	6.5	25.80	25.80	25.80	7.61	7.61	7.61	32.68	32.68	32.68	71.1	71.0	71.1	4.82	4.81	4.82
	16:48		Bottom	12.0	25.80	25.80	25.80	7.60	7.60	7.60	32.69	32.69	32.69	70.4	70.3	70.4	4.77	4.76	4.77
	14:20		Surface	1.0	25.20	25.20	25.20	7.60	7.60	7.60	32.89	32.89	32.89	74.1	73.7	73.9	5.05	5.03	5.04
8-Nov-12	14:22	Fine	Middle	6.5	25.10	25.10	25.10	7.61	7.61	7.61	32.88	32.88	32.88	72.7	72.9	72.8	4.97	4.98	4.98
	14:24		Bottom	12.0	24.90	24.90	24.90	7.62	7.62	7.62	32.93	32.93	32.93	71.2	71.1	71.2	4.89	4.88	4.89
	15:54		Surface	1.0	24.90	24.90	24.90	7.61	7.61	7.61	32.86	32.86	32.86	71.0	70.7	70.9	4.87	4.86	4.87
14-Nov-12	15:55	Fine	Middle	6.5	24.90	24.90	24.90	7.60	7.60	7.60	32.90	32.90	32.90	70.6	70.7	70.7	4.84	4.86	4.85
	15:56		Bottom	12.0	24.90	24.90	24.90	7.60	7.60	7.60	32.90	32.90	32.90	70.7	70.0	70.4	4.85	4.81	4.83
	14:56		Surface	1.0	24.30	24.30	24.30	8.11	8.11	8.11	32.43	32.43	32.43	68.9	69.1	69.0	4.78	4.81	4.80
22-Nov-12	14:58	Cloudy	Middle	7.0	24.20	24.20	24.20	7.99	7.99	7.99	32.55	32.55	32.55	65.3	65.3	65.3	4.56	4.56	4.56
	15:00		Bottom	13.0	24.00	24.00	24.00	7.98	7.98	7.98	32.62	32.62	32.62	65.1	64.9	65.0	4.55	4.54	4.55

Location: Station A
Coordinate: 835468E, 815857N

Date	Time	Weater Condition	Samplin	•	Wat	er Temp °C	erature		pH -			Salinit	ty	D	O Satur	ation		DO ma/L	
			n	า	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	12:05		Surface	1.0	25.90	25.90	25.90	7.59	7.59	7.59	32.43	32.43	32.43	74.7	74.1	74.4	5.08	5.01	5.05
31-Oct-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	12:06		Bottom	3.0	25.90	25.90	25.90	7.59	7.59	7.59	32.50	32.50	32.50	72.3	72.5	72.4	4.59	4.60	4.60
	5:10		Surface	1.0	24.90	24.90	24.90	7.59	7.59	7.59	32.24	32.24	32.24	60.1	59.8	60.0	4.14	4.12	4.13
8-Nov-12	-	Fine	Middle	-	-	-	i	-		-	-	-	1	1	-	ı	-	-	-
	5:11		Bottom	4.0	24.90	24.90	24.90	7.62	7.62	7.62	32.99	32.99	32.99	60.6	60.4	60.5	4.17	4.16	4.17
	11:38		Surface	1.0	25.00	25.00	25.00	7.53	7.53	7.53	32.29	32.29	32.29	59.3	58.8	59.1	4.08	4.04	4.06
14-Nov-12	-	Cloudy	Middle	-	-	-	1	1	1	-	-	-	1	-	1	i	1	-	ı
	11:39		Bottom	3.0	25.00	25.00	25.00	7.56	7.56	7.56	32.78	32.75	32.77	61.3	61.2	61.3	4.20	4.15	4.18
	6:53		Surface	1.0	24.00	24.00	24.00	9.68	9.63	9.66	32.51	32.51	32.51	65.3	65.1	65.2	4.56	4.55	4.56
22-Nov-12	-	Cloudy	Middle	-	-	-	•	-	-	-	-	-	-	1	-	•	-	-	-
	6:55		Bottom	5.0	24.00	24.00	24.00	10.05	10.05	10.05	32.65	32.65	32.65	61.0	60.6	60.8	4.27	4.24	4.26

Location: Station B
Coordinate: 835572E, 815961N

Doto		Weater Condition	Sampling Depth		Water Temperature °C		pH -		Salinity ppt		DO Saturation		DO mg/L						
			n	m		lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average
1.	12:00		Surface	1.0	25.80	25.80	25.80	7.59	7.59	7.59	32.54	32.54	32.54	72.6	72.3	72.5	4.91	4.89	4.90
31-Oct-12	12:01 Cloudy	Middle	5.0	25.80	25.80	25.80	7.60	7.60	7.60	32.57	32.57	32.57	70.3	70.0	70.2	4.70	4.74	4.72	
12:02		Bottom	9.0	25.90	25.90	25.90	7.59	7.59	7.59	32.56	32.56	32.56	69.0	68.7	68.9	4.57	4.65	4.61	
	5:07	Surface	1.0	25.00	25.00	25.00	7.64	7.64	7.64	33.01	33.01	33.01	67.3	67.2	67.3	4.61	4.60	4.61	
8-Nov-12 5:08 Fin 5:09	Fine	Middle	4.5	24.90	24.90	24.90	7.69	7.69	7.69	33.10	33.10	33.10	70.4	70.1	70.3	4.83	4.82	4.83	
		Bottom	8.0	24.90	24.90	24.90	7.69	7.69	7.69	33.10	33.10	33.10	71.3	70.9	71.1	4.88	4.86	4.87	
	11:34		Surface	1.0	25.20	25.20	25.20	7.57	7.57	7.57	32.90	32.90	32.90	66.0	65.7	65.9	4.52	4.50	4.51
14-Nov-12	11:35	Cloudy	Middle	5.0	24.90	24.90	24.90	7.58	7.58	7.58	32.97	32.97	32.97	64.1	63.9	64.0	4.40	4.38	4.39
	11:36		Bottom	9.0	24.80	24.90	24.85	7.60	7.60	7.60	33.04	33.04	33.04	65.9	65.3	65.6	4.53	4.48	4.51
	6:47		Surface	1.0	24.20	24.20	24.20	9.58	9.57	9.58	32.55	32.53	32.54	64.6	64.3	64.5	4.51	4.48	4.50
22-Nov-12	6:48	Cloudy	Middle	4.5	24.10	24.10	24.10	9.90	9.89	9.90	32.66	32.65	32.66	64.0	63.8	63.9	4.46	4.45	4.46
	6:50		Bottom	8.0	24.00	24.00	24.00	10.13	10.11	10.12	32.70	32.69	32.70	62.3	62.1	62.2	4.35	4.34	4.35

Location: Station C
Coordinate: 835659E, 816271N

Date Time Weater Condition		Sampling Depth		Wat	Water Temperature		pH -		Salinity ppt		DO Saturation		DO mg/L						
		Condition	n	n	Va	lue	Average	Va	llue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average
	11:55		Surface	1.0	25.90	25.90	25.90	7.61	7.61	7.61	32.45	32.45	32.45	64.3	64.1	64.2	4.35	4.34	4.35
31-Oct-12	11:56	Cloudy	Middle	6.5	25.80	25.80	25.80	7.60	7.60	7.60	32.59	32.59	32.59	65.6	66.0	65.8	4.45	4.47	4.46
11:57		Bottom	12.0	25.80	25.80	25.80	7.61	7.61	7.61	32.66	32.66	32.66	66.2	65.9	66.1	4.48	4.46	4.47	
5:01 8-Nov-12 5:03 5:05	5:01	5:01	Surface	1.0	25.00	25.00	25.00	7.66	7.66	7.66	32.94	32.94	32.94	70.7	70.2	70.5	4.85	4.83	4.84
	Fine	Middle	7.0	24.90	24.90	24.90	7.69	7.69	7.69	33.03	33.03	33.03	72.1	72.0	72.1	4.96	4.96	4.96	
		Bottom	13.0	24.90	24.90	24.90	7.69	7.69	7.69	33.03	33.03	33.03	72.9	72.7	72.8	5.00	4.99	5.00	
	11:30		Surface	1.0	25.00	25.00	25.00	7.57	7.57	7.57	32.92	32.90	32.91	70.8	70.3	70.6	4.86	4.82	4.84
14-Nov-12	11:31	Cloudy	Middle	7.0	24.90	24.90	24.90	7.59	7.59	7.59	32.96	32.96	32.96	67.0	66.7	66.9	4.59	4.57	4.58
	11:32		Bottom	12.0	24.80	24.80	24.80	7.61	7.61	7.61	33.01	33.01	33.01	67.7	67.5	67.6	4.65	4.64	4.65
	6:38		Surface	1.0	24.10	24.10	24.10	9.28	9.20	9.24	32.57	32.57	32.57	65.8	65.5	65.7	4.58	4.56	4.57
22-Nov-12	6:40	Cloudy	Middle	7.0	24.00	24.00	24.00	9.51	9.53	9.52	32.67	32.67	32.67	65.0	64.8	64.9	4.54	4.52	4.53
	6:43		Bottom	13.0	24.00	24.00	24.00	9.46	9.46	9.46	32.69	32.69	32.69	63.7	63.2	63.5	4.45	4.42	4.44

## Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Dool time Naise Date	DTN2e /Lleng Kong Floatric Cont				
Real-time Noise Data Normal Day 07:00-19:00	RTN2a (Hong Kong Electric Cent 2/11/2012 12:31 66.3	8/11/2012 8:01 53.1	13/11/2012 13:31 63.4	19/11/2012 8:01 57.8	23/11/2012 14:31 55.4
29/10/2012 7:01 63.9	2/11/2012 13:01 59.0 2/11/2012 13:31 61.3	8/11/2012 8:31 59.8 8/11/2012 9:01 63.4	13/11/2012 14:01 61.0 13/11/2012 14:31 60.3	19/11/2012 8:31 60.4 19/11/2012 9:01 61.8	23/11/2012 15:01 53.3 23/11/2012 15:31 55.4
29/10/2012 7:31 64.7	2/11/2012 14:01 59.8	8/11/2012 9:31 60.2	13/11/2012 15:01 61.0	19/11/2012 9:31 66.8	23/11/2012 16:01 57.7
29/10/2012 8:01 64.9 29/10/2012 8:31 65.0	2/11/2012 14:31 60.4 2/11/2012 15:01 62.3	8/11/2012 10:01 63.8 8/11/2012 10:31 62.8	13/11/2012 15:31 60.4 13/11/2012 16:01 63.0	19/11/2012 10:01 61.3 19/11/2012 10:31 59.6	23/11/2012 16:31 59.5 23/11/2012 17:01 60.0
29/10/2012 9:01 65.3	2/11/2012 15:31 59.0	8/11/2012 11:01 60.1	13/11/2012 16:31 63.1	19/11/2012 11:01 60.1	23/11/2012 17:31 67.0
29/10/2012 9:31 65.4 29/10/2012 10:01 65.5	2/11/2012 16:01 65.5 2/11/2012 16:31 60.7	8/11/2012 11:31 67.0 8/11/2012 12:01 66.4	13/11/2012 17:01 60.3 13/11/2012 17:31 66.6	19/11/2012 11:31 67.2 19/11/2012 12:01 59.4	23/11/2012 18:01 66.5 23/11/2012 18:31 66.2
29/10/2012 10:31 65.5	2/11/2012 17:01 55.2	8/11/2012 12:31 66.1	13/11/2012 18:01 66.3	19/11/2012 12:31 66.9	24/11/2012 7:01 65.2
29/10/2012 11:01 65.7 29/10/2012 11:31 65.5	2/11/2012 17:31 66.8 2/11/2012 18:01 66.1	8/11/2012 13:01 59.7 8/11/2012 13:31 58.6	13/11/2012 18:31 66.2 14/11/2012 7:01 65.3	19/11/2012 13:01 46.9 19/11/2012 13:31 56.0	24/11/2012 7:31 66.1 24/11/2012 8:01 56.1
29/10/2012 12:01 65.5	2/11/2012 18:31 65.9	8/11/2012 14:01 67.2	14/11/2012 7:31 66.4	19/11/2012 14:01 44.1	24/11/2012 8:31 51.8
29/10/2012 12:31 65.7 29/10/2012 13:01 65.5	3/11/2012 7:01 65.3 3/11/2012 7:31 66.5	8/11/2012 14:31 55.7 8/11/2012 15:01 59.5	14/11/2012 8:01 66.9 14/11/2012 8:31 59.8	19/11/2012 14:31 67.2 19/11/2012 15:01 57.4	24/11/2012 9:01 57.9 24/11/2012 9:31 54.7
29/10/2012 13:31 65.7	3/11/2012 8:01 29.3	8/11/2012 15:31 67.1	14/11/2012 9:01 61.2	19/11/2012 15:31 67.0	24/11/2012 10:01 50.8
29/10/2012 14:01 65.3 29/10/2012 14:31 65.5	3/11/2012 8:31 60.9 3/11/2012 9:01 60.7	8/11/2012 16:01 51.6 8/11/2012 16:31 55.6	14/11/2012 9:31 56.7 14/11/2012 10:01 54.8	19/11/2012 16:01 63.5 19/11/2012 16:31 57.2	24/11/2012 10:31 60.6 24/11/2012 11:01 54.3
29/10/2012 15:01 65.5	3/11/2012 9:31 59.1	8/11/2012 17:01 59.4	14/11/2012 10:01 54:0	19/11/2012 17:01 61.1	24/11/2012 11:31 56.4
29/10/2012 15:31 65.5 29/10/2012 16:01 65.6	3/11/2012 10:01 60.9 3/11/2012 10:31 61.7	8/11/2012 17:31 66.7 8/11/2012 18:01 66.3	14/11/2012 11:01 54.5 14/11/2012 11:31 67.1	19/11/2012 17:31 66.6 19/11/2012 18:01 66.4	24/11/2012 12:01 66.4 24/11/2012 12:31 66.6
29/10/2012 16:31 65.5	3/11/2012 11:01 61.0	8/11/2012 18:31 65.9	14/11/2012 12:01 66.3	19/11/2012 18:31 66.4	24/11/2012 13:01 66.7
29/10/2012 17:01 65.7 29/10/2012 17:31 65.7	3/11/2012 11:31 66.8 3/11/2012 12:01 66.5	8/11/2012 19:01 65.8 8/11/2012 19:31 65.9	14/11/2012 12:31 66.3 14/11/2012 13:01 67.1	20/11/2012 7:01 65.4 20/11/2012 7:31 66.4	24/11/2012 13:31 62.2 24/11/2012 14:01 54.3
29/10/2012 18:01 65.4	3/11/2012 12:31 66.2	9/11/2012 7:01 65.1	14/11/2012 13:31 59.0	20/11/2012 8:01 67.1	24/11/2012 14:31 67.2
29/10/2012 18:31 65.3 30/10/2012 7:01 64.9	3/11/2012 13:01 60.9 3/11/2012 13:31 62.1	9/11/2012 7:31 66.3 9/11/2012 8:01 67.0	14/11/2012 14:01 54.5 14/11/2012 14:31 57.3	20/11/2012 8:31 60.4 20/11/2012 9:01 60.0	24/11/2012 15:01 51.6 24/11/2012 15:31 67.1
30/10/2012 7:31 65.7	3/11/2012 14:01 52.0	9/11/2012 8:31 56.6	14/11/2012 15:01 63.4	20/11/2012 9:31 57.1	24/11/2012 16:01 57.1
30/10/2012 8:01 66.9 30/10/2012 8:31 56.6	3/11/2012 14:31 58.3 3/11/2012 15:01 54.9	9/11/2012 9:01 49.4 9/11/2012 9:31 61.3	14/11/2012 15:31 54.3 14/11/2012 16:01 62.0	20/11/2012 10:01 58.8 20/11/2012 10:31 59.1	24/11/2012 16:31 58.8 24/11/2012 17:01 66.9
30/10/2012 9:01 59.5	3/11/2012 15:31 66.4	9/11/2012 10:01 62.0	14/11/2012 16:31 64.4	20/11/2012 10:31 53:1	24/11/2012 17:31 66.0
30/10/2012 9:31 58.1 30/10/2012 10:01 59.7	3/11/2012 16:01 67.0 3/11/2012 16:31 57.8	9/11/2012 10:31 57.2 9/11/2012 11:01 57.1	14/11/2012 17:01 63.1 14/11/2012 17:31 66.9	20/11/2012 11:31 54.3 20/11/2012 12:01 66.7	24/11/2012 18:01 65.6 24/11/2012 18:31 65.8
30/10/2012 10:31 58.3	3/11/2012 17:01 54.0	9/11/2012 11:31 51.2	14/11/2012 18:01 66.3	20/11/2012 12:31 66.2	26/11/2012 7:01 66.5
30/10/2012 11:01 62.0 30/10/2012 11:31 66.9	3/11/2012 17:31 66.4 3/11/2012 18:01 65.5	9/11/2012 12:01 66.1 9/11/2012 12:31 66.2	14/11/2012 18:31 65.9 15/11/2012 7:01 65.2	20/11/2012 13:01 56.9 20/11/2012 13:31 49.0	26/11/2012 7:31 40.6 26/11/2012 8:01 56.3
30/10/2012 12:01 66.2	3/11/2012 18:31 65.8	9/11/2012 13:01 67.0	15/11/2012 7:31 66.0	20/11/2012 14:01 56.7	26/11/2012 8:31 56.8
30/10/2012 12:31 66.3 30/10/2012 13:01 58.5	5/11/2012 7:01 64.8 5/11/2012 7:31 64.4	9/11/2012 13:31 58.6 9/11/2012 14:01 67.1	15/11/2012 8:01 66.6 15/11/2012 8:31 64.2	20/11/2012 14:31 63.0 20/11/2012 15:01 56.5	26/11/2012 9:01 62.2 26/11/2012 9:31 61.8
30/10/2012 13:31 62.8	5/11/2012 8:01 64.7	9/11/2012 14:31 50.1	15/11/2012 9:01 56.8	20/11/2012 15:31 67.0	26/11/2012 10:01 57.7
30/10/2012 14:01 62.3 30/10/2012 14:31 59.3	5/11/2012 8:31 64.8 5/11/2012 9:01 65.2	9/11/2012 15:01 56.1 9/11/2012 15:31 66.5	15/11/2012 9:31 61.5 15/11/2012 10:01 66.2	20/11/2012 16:01 53.6 20/11/2012 16:31 51.5	26/11/2012 10:31 57.5 26/11/2012 11:01 63.2
30/10/2012 15:01 61.4	5/11/2012 9:31 65.6	9/11/2012 16:01 67.1	15/11/2012 10:31 68.5	20/11/2012 17:01 60.5	26/11/2012 11:31 61.1
30/10/2012 15:31 67.0 30/10/2012 16:01 61.9	5/11/2012 10:01 65.6 5/11/2012 10:31 66.1	9/11/2012 16:31 50.2 9/11/2012 17:01 67.1	15/11/2012 11:01 65.4 15/11/2012 11:31 67.1	20/11/2012 17:31 45.0 20/11/2012 18:01 66.2	26/11/2012 12:01 66.6 26/11/2012 12:31 66.8
30/10/2012 16:31 63.2	5/11/2012 11:01 67.0	9/11/2012 17:31 66.7	15/11/2012 12:01 65.9	20/11/2012 18:31 66.2	26/11/2012 13:01 60.3
30/10/2012 17:01 62.4 30/10/2012 17:31 66.5	5/11/2012 11:31 65.8 5/11/2012 12:01 65.2	9/11/2012 18:01 65.9 9/11/2012 18:31 65.6	15/11/2012 12:31 66.0 15/11/2012 13:01 60.4	21/11/2012 7:01 65.8 21/11/2012 7:31 67.0	26/11/2012 13:31 60.6 26/11/2012 14:01 59.3
30/10/2012 18:01 66.6	5/11/2012 12:31 65.3	10/11/2012 7:01 65.4	15/11/2012 13:31 65.2	21/11/2012 8:01 67.2	26/11/2012 14:31 59.8
30/10/2012 18:31 66.1 31/10/2012 7:01 65.8	5/11/2012 13:01 65.5 5/11/2012 13:31 65.4	10/11/2012 7:31 66.2 10/11/2012 8:01 66.8	15/11/2012 14:01 65.5 15/11/2012 14:31 66.5	21/11/2012 8:31 59.4 21/11/2012 9:01 58.3	26/11/2012 15:01 59.9 26/11/2012 15:31 48.8
31/10/2012 7:31 66.0	5/11/2012 14:01 65.6	10/11/2012 8:31 67.0	15/11/2012 15:01 61.3	21/11/2012 9:31 67.0	26/11/2012 16:01 64.0
31/10/2012 8:01 52.9 31/10/2012 8:31 64.4	5/11/2012 14:31 65.6 5/11/2012 15:01 66.0	10/11/2012 9:01 54.7 10/11/2012 9:31 58.3	15/11/2012 15:31 66.8 15/11/2012 16:01 59.8	21/11/2012 10:01 67.1 21/11/2012 10:31 61.9	26/11/2012 16:31 68.1 26/11/2012 17:01 67.5
31/10/2012 9:01 62.2	5/11/2012 15:31 65.9	10/11/2012 10:01 60.2	15/11/2012 16:31 58.3	21/11/2012 11:01 57.7	26/11/2012 17:31 66.9
31/10/2012 9:31 63.4 31/10/2012 10:01 62.4	5/11/2012 16:01 66.4 5/11/2012 16:31 65.9	10/11/2012 10:31 59.8 10/11/2012 11:01 64.4	15/11/2012 17:01 67.1 15/11/2012 17:31 66.1	21/11/2012 11:31 66.6 21/11/2012 12:01 66.4	26/11/2012 18:01 66.5 26/11/2012 18:31 65.7
31/10/2012 10:31 63.9	5/11/2012 17:01 65.8	10/11/2012 11:31 67.0	15/11/2012 18:01 66.0	21/11/2012 12:31 58.4	27/11/2012 7:01 66.1
31/10/2012 11:01 62.8 31/10/2012 11:31 54.8	5/11/2012 17:31 65.5 5/11/2012 18:01 65.4	10/11/2012 12:01 66.1 10/11/2012 12:31 66.2	15/11/2012 18:31 65.8 16/11/2012 7:01 64.7	21/11/2012 13:01 66.8 21/11/2012 13:31 67.0	27/11/2012 7:31 50.2 27/11/2012 8:01 60.2
31/10/2012 12:01 67.1	5/11/2012 18:31 65.4	10/11/2012 13:01 47.9	16/11/2012 7:31 65.4	21/11/2012 14:01 66.6	27/11/2012 8:31 59.9
31/10/2012 12:31 67.2 31/10/2012 13:01 63.5	6/11/2012 7:01 65.2 6/11/2012 7:31 66.1	10/11/2012 13:31 43.9 10/11/2012 14:01 49.6	16/11/2012 8:01 66.4 16/11/2012 8:31 66.6	21/11/2012 14:31 66.5 21/11/2012 15:01 66.6	27/11/2012 9:01 53.9 27/11/2012 9:31 57.8
31/10/2012 13:31 64.8	6/11/2012 8:01 58.3	10/11/2012 14:31 67.2	16/11/2012 9:01 66.9	21/11/2012 15:31 66.7	27/11/2012 10:01 60.7
31/10/2012 14:01 64.4 31/10/2012 14:31 62.1	6/11/2012 8:31 62.1 6/11/2012 9:01 60.4	10/11/2012 15:01 66.9 10/11/2012 15:31 57.1	16/11/2012 9:31 62.2 16/11/2012 10:01 61.8	21/11/2012 16:01 56.1 21/11/2012 16:31 62.2	27/11/2012 10:31 65.4 27/11/2012 11:01 63.6
31/10/2012 15:01 56.5 31/10/2012 15:31 67.1	6/11/2012 9:31 59.3 6/11/2012 10:01 59.6	10/11/2012 16:01 67.1 10/11/2012 16:31 66.9	16/11/2012 10:31 62.8	21/11/2012 17:01 62.9	27/11/2012 11:31 65.9
31/10/2012 15:31 67:1	6/11/2012 10:31 55.8	10/11/2012 10:31 60:9	16/11/2012 11:01 61.2 16/11/2012 11:31 52.8	21/11/2012 17:31 59.5 21/11/2012 18:01 66.3	27/11/2012 12:01 64.7 27/11/2012 12:31 66.1
31/10/2012 16:31 62.0 31/10/2012 17:01 60.0	6/11/2012 11:01 60.7 6/11/2012 11:31 66.9	10/11/2012 17:31 66.0 10/11/2012 18:01 65.8	16/11/2012 12:01 66.9 16/11/2012 12:31 66.2	21/11/2012 18:31 65.6 22/11/2012 7:01 66.3	27/11/2012 13:01 62.2 27/11/2012 13:31 65.3
31/10/2012 17:31 66.7	6/11/2012 12:01 66.3	10/11/2012 18:31 65.4	16/11/2012 13:01 63.0	22/11/2012 7:31 66.8	27/11/2012 14:01 61.4
31/10/2012 18:01 66.7 31/10/2012 18:31 66.9	6/11/2012 12:31 66.1 6/11/2012 13:01 61.1	12/11/2012 7:01 65.0 12/11/2012 7:31 64.9	16/11/2012 13:31 63.9 16/11/2012 14:01 63.1	22/11/2012 8:01 57.0 22/11/2012 8:31 60.6	27/11/2012 14:31 56.2 27/11/2012 15:01 56.2
1/11/2012 7:01 66.1	6/11/2012 13:31 58.2	12/11/2012 7:31 64.9	16/11/2012 14:31 56.2	22/11/2012 9:01 59.9	27/11/2012 15:31 66.6
1/11/2012 7:31 66.6 1/11/2012 8:01 62.3	6/11/2012 14:01 55.5 6/11/2012 14:31 53.4	12/11/2012 8:31 65.3 12/11/2012 9:01 65.8	16/11/2012 15:01 61.3 16/11/2012 15:31 59.8	22/11/2012 9:31 56.7 22/11/2012 10:01 58.8	27/11/2012 16:01 62.4 27/11/2012 16:31 58.0
1/11/2012 8:31 64.1	6/11/2012 15:01 60.8	12/11/2012 9:31 66.0	16/11/2012 16:01 65.8	22/11/2012 10:31 60.1	27/11/2012 17:01 61.8
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1/11/2012 11:31 63.4	6/11/2012 18:01 66.2	12/11/2012 12:31 66.1	17/11/2012 7:01 65.2	22/11/2012 13:31 59.9	Sunday & Holiday
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Real-time Noise Data 28/10/2012 8:56 66.0	RTN2a (Hong Kong Electric Cent 28/10/2012 18:01 64.6	re) 30/10/2012 19:06 63.4	1/11/2012 20:11 64.9	3/11/2012 21:16 63.0	4/11/2012 15:21 64.2
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28/10/2012 17:01 61.1	29/10/2012 22:06 62.3	1/11/2012 19:11 65.4	3/11/2012 20:16 64.1	4/11/2012 14:21 66.2	5/11/2012 19:26 62.5
28/10/2012 17:06 59.2	29/10/2012 22:11 61.6	1/11/2012 19:16 65.0	3/11/2012 20:21 64.8	4/11/2012 14:26 67.4	5/11/2012 19:31 62.0
28/10/2012 17:11 58.8	29/10/2012 22:16 61.2	1/11/2012 19:21 64.8	3/11/2012 20:26 63.5	4/11/2012 14:31 66.7	5/11/2012 19:36 62.8
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Real-time Noise Data 5/11/2012 20:26 63.9	RTN2a (Hong Kong Electric Cent 7/11/2012 21:31 63.6	<u>re)</u> 9/11/2012 22:36 61.9	11/11/2012 11:41 66.3	11/11/2012 22:46 61.7	14/11/2012 19:51 63.6
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5/11/2012 21:11 62.0	7/11/2012 22:16 62.8	10/11/2012 19:21 62.9	11/11/2012 12:26 62.9	12/11/2012 19:31 62.9	14/11/2012 20:36 63.3
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5/11/2012 21:26 62.0	7/11/2012 22:31 62.3	10/11/2012 19:36 64.6	11/11/2012 12:41 63.9	12/11/2012 19:46 63.1	14/11/2012 20:51 62.7
5/11/2012 21:31 62.3	7/11/2012 22:36 62.0	10/11/2012 19:41 63.9	11/11/2012 12:46 64.2	12/11/2012 19:51 62.9	14/11/2012 20:56 62.9
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18/11/2012 9:16 63.7	18/11/2012 18:21 63.3	20/11/2012 19:26 64.2	22/11/2012 20:31 61.8	24/11/2012 21:36 63.6	25/11/2012 14:41 65.0
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Real-time Noise Data	RTN2a (Hong Kong Electric Centr	la:			
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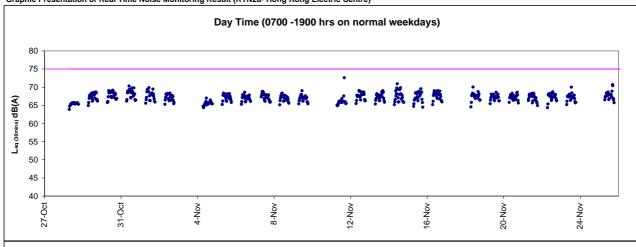
Real-time Noise Data	RTN2a (Hong Kong Electric Cent	re)			
8/11/2012 5:16 59.1	9/11/2012 6:21 61.3	10/11/2012 23:26 63.4	12/11/2012 0:31 63.3	13/11/2012 1:36 60.3	14/11/2012 2:41 58.3
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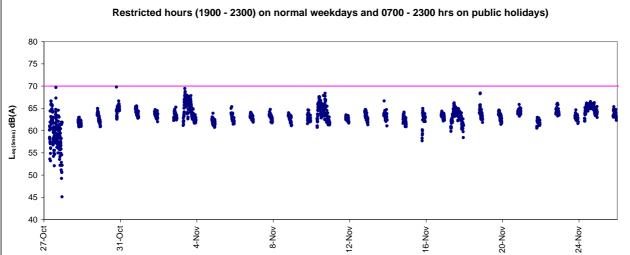
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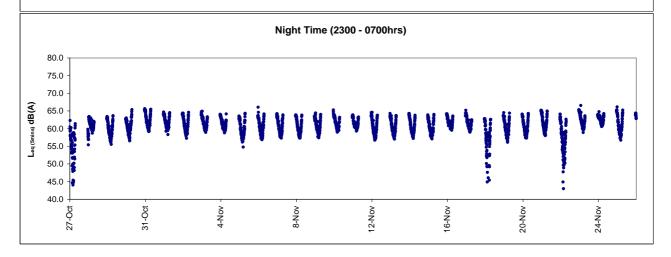
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23/11/2012 2:06 57.0	24/11/2012 3:11 61.3	25/11/2012 4:16 60.8	26/11/2012 5:21 60.9	27/11/2012 6:26 64.2
23/11/2012 2:11 56.3 23/11/2012 2:16 54.4	24/11/2012 3:16 60.8 24/11/2012 3:21 62.2	25/11/2012 4:21 61.6 25/11/2012 4:26 61.0	26/11/2012 5:26 59.7 26/11/2012 5:31 59.5	27/11/2012 6:31 63.9 27/11/2012 6:36 64.1
23/11/2012 2:21 54.7	24/11/2012 3:26 61.4	25/11/2012 4:31 61.7	26/11/2012 5:36 60.4	27/11/2012 6:41 64.8
23/11/2012 2:26 56.5 23/11/2012 2:31 55.1	24/11/2012 3:31 60.0 24/11/2012 3:36 60.6	25/11/2012 4:36 61.1 25/11/2012 4:41 60.9	26/11/2012 5:41 60.2 26/11/2012 5:46 60.8	27/11/2012 6:46 64.8 27/11/2012 6:51 65.0
23/11/2012 2:36 55.9	24/11/2012 3:41 61.2	25/11/2012 4:46 60.7	26/11/2012 5:51 60.3	27/11/2012 6:56 65.3
23/11/2012 2:41 54.8 23/11/2012 2:46 53.5	24/11/2012 3:46 61.1 24/11/2012 3:51 61.5	25/11/2012 4:51 61.5 25/11/2012 4:56 61.0	26/11/2012 5:56 60.6 26/11/2012 6:01 61.3	
23/11/2012 2:51 51.1	24/11/2012 3:56 60.1	25/11/2012 5:01 61.4	26/11/2012 6:06 61.3	
23/11/2012 2:56 44.9 23/11/2012 3:01 53.0	24/11/2012 4:01 60.9 24/11/2012 4:06 60.8	25/11/2012 5:06 61.7 25/11/2012 5:11 62.1	26/11/2012 6:11 62.0 26/11/2012 6:16 62.7	
23/11/2012 3:06 52.1	24/11/2012 4:11 61.2	25/11/2012 5:16 61.5	26/11/2012 6:21 62.9	
23/11/2012 3:11 47.7 23/11/2012 3:16 52.8	24/11/2012 4:16 59.8 24/11/2012 4:21 60.0	25/11/2012 5:21 62.2 25/11/2012 5:26 62.0	26/11/2012 6:26 63.6 26/11/2012 6:31 64.4	
<del></del>				•



Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)







## Appendix 6.1

**Event Action Plans** 

### **Event/Action Plan for Construction Noise**

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

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



**Event / Action Plan 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)				
2. 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			1	I				
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 to IEC within 3 working days of notification 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 IEC within 3 morking days of notification structure.  Resubmit proposals if problem still not under control;  Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)				



**Event and Action Plan for Marine Water Quality** 

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

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

### **Event and Action Plan for Odour Patrol**

Event	ACTION							
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD						
Action Level								
Exceedance of Action Level	Identify source/reason of exceedance;     Repeat odour patrol to confirm finding.	<ol> <li>Carry out investigation to identify the source/reason of exceedance;</li> <li>Rectify any unacceptable practice</li> <li>Implement more mitigation measures if necessary;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>						
Limit Level		· · ·						
Exceedance of Limit Level	Identify source / reason of exceedance;     Repeat odour patrol to confirm findings;     Increase odour patrol frequency;     If exceedance stops, cease additional odour patrol.	<ol> <li>Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks;</li> <li>Rectify any unacceptable practice;</li> <li>Formulate remedial actions;</li> <li>Ensure remedial actions properly implemented;</li> <li>If exceedance continues, consider what more/enhanced mitigation measures shall be implemented;</li> <li>Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.</li> </ol>						

## Appendix 6.2

Summary for Notification of Exceedance



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N102	1-Nov-12	15:00	M6 - HK baptist Church henrietta Secondary School	72	Leq(30-min)	when one documented complaint was received.	70	Possible reason:	Socketed H-piling activities and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
								Remarks / Other Obs:	Although socketed H-pilling activities for Contract no. HY/2009/19 were conducted during the measurement, it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance is not due to project but to traffic noise nearby.
X_10N103	6-Nov-12	15:00	M6 - HK baptist Church henrietta Secondary School	72	Leq(30-min)	when one documented complaint was received.	70	Possible reason:	Socketed H-piling activities and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
								Remarks / Other Obs:	Although socketed H-pilling activities for Contract no. HY/2009/19 were conducted during the measurement, it was observed that traffic noise was a major noise source during monitoring. It is concluded that the exceedance is not due to project but to traffic noise nearby.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W374	29-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	5.55	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	13.73	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 29 Oct,rock filling of trimming work on CHWM was conducted on that day.
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen was in proper condition on that day.  In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W375	29-Oct-12	Mid-Flood	WSD17	DO (mg/L)	6.75	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.62	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 29 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	8.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W376	29-Oct-12	Mid-Flood	WSD9	DO (mg/L)	5.72	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.84	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 29 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	8.00	13.00	14.43	Remarks / Other Obs:	Since WSD9 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W377	31-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	5.67	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	11.73	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 31 Oct,rock filling of trimming work on CHWM and East bridge were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper
				Suspended Solid	16.00	13.00		Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W378	31-Oct-12	Mid-Flood	WSD17	DO (mg/L)	6.28	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	12.05	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 31 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	17.00	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.

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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W379	31-Oct-12	Mid-Ebb	WSD17	DO (mg/L)	6.03	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.60	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checked with Contractor's work on 31 Oct, WCR2 rock filling was conducted on that day. Reviewing the results at the monitoring stations within site area, no exceedance was recorded.
				Suspended Solid	14.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that no exceedance was recorded at the monitoring stations within site area, it was considered not related to Project works.
X_W380	2-Nov-12	Mid-Flood	WSD17	DO (mg/L)	6.18	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.36	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 2 Nov, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	9.60	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Project works.
X_W381	8-Nov-12	Mid-Ebb	WSD21	DO (mg/L)	3.98	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.53	8.04	9.49	Action taken / to be taken:	Confirmed with contractor's works on 8 Nov, no marine work was conducted during monitoring. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. Reviewing the
				Suspended Solid	17.00	13.00	14.43	Remarks / Other Obs:	results at the monitoring stations nearer than WSD21. no exceedance was No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted during monitoring and the silt screen was in proper condition, the exceedances was considered not project related.
X_W382	8-Nov-12	Mid-Flood	WSD9	DO (mg/L)	6.48	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.82	8.04	9.49	Action taken / to be taken:	Confirmed with contractor's works on 8 Nov, no marine work was conducted during monitoring. Reviewing the results at the monitoring stations nearer
				Suspended Solid	15.00	13.00	14.43	Remarks / Other Obs:	than WSD9, no exceedance was recorded.  No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W383	10-Nov-12	Mid-Flood	WSD19	DO (mg/L)	5.52	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
X_***000	10 1400 12	17110 1 1000		Turbidity	9.16	8.04		Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 10 Nov 2012,rock filling of trimming work on CHWM was conducted on that day.
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen was in proper condition on that day.  In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W384	12-Nov-12	Mid-Ebb	WSD19	DO (mg/L)	4.93	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.14	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 12 Nov 2012, rock filling of trimming work on CHWM was
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	conducted on that day.  Checking with contractor's inspection record, the silt screen was in proper In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W385	12-Nov-12	Mid-Flood	WSD17	DO (mg/L)	6.39	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	11.60	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 12 Nov, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	16.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Project works.
X_W386	14-Nov-12	Mid-Ebb	WSD19	DO (mg/L)	6.10	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.48	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 14 Nov 2012, rock filling of trimming work on CHWM and leveling on East bridge were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	7.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W387	17-Nov-12	Mid-Flood	WSD17	DO (mg/L)	6.32	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	9.20	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 17 Nov, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	15.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W388	17-Nov-12	Mid-Flood	WSD19	DO (mg/L)	5.80	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	9.98	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 17 Nov 2012,rock filling of trimming work on CHWM and leveling on East Bridge were conducted on
				Suspended Solid	21.00	13.00	14.43	Remarks / Other Obs:	that day.  Checking with contractor's inspection record, the silt screen was in proper In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W389	17-Nov-12	Mid-Ebb	WSD19	DO (mg/L)	6.46	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.91	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 17 Nov 2012, rock filling of trimming work on CHWM and leveling on East bridge were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on 19 Nov.
				Suspended Solid	9.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W390	17-Nov-12	Mid-Ebb	WSD21	DO (mg/L)	3.66	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	10.11	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 17 Nov 2012, no marine work was conducted during monitoring.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W391	19-Nov-12	Mid-Flood	WSD19	DO (mg/L)	5.87	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.57	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 19 Nov 2012,rock filling of trimming work on CHWM was conducted on that day.  Checking with contractor's inspection record, the silt screen was in proper
				Suspended Solid	4.00	13.00	14.43	Remarks / Other Obs:	condition on that dav.  In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.
X_W392	24-Nov-12	Mid-Ebb	WSD17	DO (mg/L)	6.61	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.46	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 24 Nov 2012,no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on 23 Nov 2012.
				Suspended Solid	7.50	13.00	14.43	Remarks / Other Obs:	In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W393	26-Nov-12	Mid-Flood	WSD17	DO (mg/L)	6.48	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.39	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 26 Nov, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	10.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured Ac	tion Leve Lir	mit Level Follow-up action	
X_10C481	29-Oct-12	Mid-Flood	C5w	DO(mg/L)	5.23	3.36	2.73 Possible reason:	Trapping of unknown particles inside the silt screen
				Turbidity	22.53	9.10	10.25 Action taken / to be taken:	Repeated the measurement to confirm the result. Checking with Contractor's records, no marine work was conducted during monitoring. The turbidity of C5w outside the silt screen was 7.09 NTU. Reviewing the results at the monitoing stations nearer than C5w, no exceedance was recorded.
								Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.
				ss	32.00	15.00	22.13 Remarks / Other Obs:	The water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen were in proper condition. The exceedance was possible in relation to the trapping of unknown particles inside the silt screen. Contractor was reminded the water quality near to the intake should be provided with sufficient protection. The exceedance was not related to Project works.
X_10C482	29-Oct-12	Mid-Ebb	C4w	DO(mg/L) Turbidity	5.24 3.71	3.36 9.10	2.73 Possible reason: 10.25 Action taken / to be taken:	Accumulation of floating debris near monitoring station Checking with Contractor's records, rock filling at Cross Harbour Watermains was conducted on that day. According to the Contractor and RSS daily records, the floating debris inside silt screen was found and removed immediately after inspection. The silt screen and silt curtain were observed in proper condition during water monitoring
				SS	17.00	15.00	22.13 Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen and silt curtain were in proper condition, the exceedance was considered not related to Project works.
X_10C483	29-Oct-12	Mid-Flood	C9	DO(mg/L) Turbidity	7.00 9.83	3.36 9.10	2.73 Possible reason: 10.25 Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	14.50	15.00	22.13 Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C484	31-Oct-12	Mid-Flood	C5w	DO(mg/L)	5.66	3.36	2.73 Possible reason:	Possible in relation to cleaning of screen panels at SHK intake was recorded on
				Turbidity	9.43	9.10	10.25 Action taken / to be taken:	31 Oct 2012.  Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 31 Oct, no filling was conducted during monitoring.  Checking with the contractor's record, cleaning screen panel at SHK intake was conducted during monitoring.
				SS	10.50	15.00	22.13 Remarks / Other Obs:	The exceedances was possibly due to cleaning of screen panels at the SHK intake. Materials from the cleaning of screen panels was unavoidably collected during monitoring. The exceedance was considered as not project related.
X_10C485	31-Oct-12	Mid-Ebb	C5w	DO(mg/L)	4.76	3.36	2.73 Possible reason:	Disturbance of sediment near to the SHK's intake during diver inspection

									-
Ref no.	Date	Tidal	Location	Parameters (Unit) Turbidity	Measured 10.90	Action Leve Lii 9.10		Follow-up action Action taken / to be taken:	Repeated the measurement to confirm the result. Checking with Contractor's records, diver inspection at SHK's well was conducted at 1300.
				ss	18.00	15.00	22.13	Remarks / Other Obs:	Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.  No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition, the exceedance was possible in relation to the disturbance of sediment during diver inspection inside
X_10C486	21 Oct 12	Mid-Ebb	C5e	DO(mg/L)	4.75	3.36	2.72	Possible reason:	the SHK's well. The exceedance was considered not works related.  Disturbance of sediment near to the SHK's intake during diver inspection
X_100480	31-00-12	Wild-Lbb	0.06	Turbidity	9.96	9.10		Action taken / to be taken:	Repeated the measurement to confirm the result. Checking with Contractor's records, diver inspection at SHK's well was conducted at 1300.  Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.
				ss	13.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition, the exceedance was possible in relation to the disturbance of sediment during diver inspection inside the SHK's well. The exceedance was considered not works related.
X_10C487	31-Oct-12	Mid-Ebb	C8	DO(mg/L) Turbidity	5.16 9.33	3.36 9.10	-	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day
				SS	9.50	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C488	31-Oct-12	Mid-Flood	C9	DO(mg/L)	6.28	3.36	2 73	Possible reason:	Accumulation of unknown particles from nearby outfall
7_100100	0. 002			Turbidity	13.33	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances.  Confirmed with Contractor that no marine works were performed that day
				ss	16.00	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C489	31-Oct-12	Mid-Ebb	C9	DO(mg/L) Turbidity	5.52 11.35	3.36 9.10		Possible reason: Action taken / to be	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances.
								taken:	Confirmed with Contractor that no marine works were performed that day
				SS	14.50	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C490	5-Nov-12	Mid-Flood	C9	DO(mg/L)	6.12	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	12.65	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.

Ref no.	Date	Tidal	Location	Parameters (Unit) SS	Measured A 8.50	ction LeveLir 15.00		Follow-up action Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C491	10-Nov-12	Mid-Flood	C9	DO(mg/L) Turbidity SS	5.30 9.94 16.50	3.36 9.10 15.00	10.25	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C492	10-Nov-12	Mid-Flood	C4e	DO(mg/L)	2.95	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	2.38	9.10		Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at Cross Harbour watermains was conducted on that day.
				ss	3.50	15.00	22.13	Remarks / Other Obs:	Checking with the Contractor and RSS daily records, the silt screen and sill No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C493	10-Nov-12	Mid-Flood	C4w	DO(mg/L)	3.22	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	2.58	9.10		Action taken / to be taken:	monitoring station Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at Cross Harbour watermains was conducted on that day.
				ss	4.00	15.00	22.13	Remarks / Other Obs:	Checking with the Contractor and RSS daily records, the silt screen and sill No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C494	12-Nov-12	Mid-Ebb	C9	DO(mg/L)	6.26	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.72	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances.  Confirmed with Contractor that no marine works were performed that day
				SS	12.00	15.00		Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C495	14-Nov-12	Mid-Flood	C9	DO(mg/L) Turbidity	4.65 10.58	3.36 9.10	10.25	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.

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Ref no.	Date	Tidal	Location	Parameters (Unit) SS	Measured  A 13.50	ction LeveLir 15.00		Follow-up action Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
V 400400	47.11 40	NA LEL L	00	DO( #)	5.74	0.00	0.70	D 31	
X_10C496	17-Nov-12	Mid-Flood	C9	DO(mg/L) Turbidity	5.74 10.23	3.36 9.10		Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	12.00	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C497	17-Nov-12	Mid-Flood	C8	DO(mg/L)	5.40	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity SS	12.10 11.50	9.10 15.00		Action taken / to be taken: Remarks / Other Obs:	Immediate repeated measurement was conducted to confirm the exceedances.  Confirmed with Contractor that no marine works were performed that day In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be
									caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C498	17-Nov-12	Mid-Flood	C7	DO(mg/L)	4.47	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	13.60	9.10	10.25	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 17 Nov 12, TS2 seawall construction and reclamation were conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				SS	14.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt curtains for filling works were in proper condition, the exceedance was considered not related to Project works.
X_10C499	17-Nov-12	Mid-Flood	C3	DO(mg/L)	4.00	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	2.98	9.10	10.25	Action taken / to be taken:	monitoring station Checking with contractor's works on 17 Nov 2012,rock filling of trimming work on CHWM and leveling on East Bridge were conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on 19 Nov 2012.
				SS	18.00	15.00	22.13	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedances was considered not project related.
X_10C500	17-Nov-12	Mid-Ebb	C5e	DO(mg/L)	3.63	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured A	ction Leve Lir	mit Level	Follow-up action	
				Turbidity	9.05	9.10		Action taken / to be taken:	Checking with contractor's works on 17 Nov 2012, no marine work was conducted during monitoring.  Checking with contractor's inspection record, the silt screen and silt curtain were
				SS	18.50	15.00	22.13	Remarks / Other Obs:	in proper condition on that day.  No further exceedance was recorded in the next consecutive monitoring. In view that no marine work was conducted on that day, the exceedances was considered not project related.
X 10C501	19-Nov-12	Mid-Flood	C9	DO(mg/L)	5.60	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	10.31	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day
				SS	11.00	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C502	22-Nov-12	Mid-Flood	C8	DO(mg/L)	5.06	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.50	9.10	10.25	Action taken / to be	Immediate repeated measurement was conducted to confirm the exceedances.
				SS	10.50	15.00	22.13	taken: Remarks / Other Obs:	Confirmed with Contractor that no marine works were performed that day In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C503	22-Nov-12	Mid-Flood	C7	DO(mg/L)	2.99	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	2.07	9.10	10.25	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 22 Nov 12, TS2 reclamation was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				ss	<2	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt curtains for filling works were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C504	24-Nov-12	Mid-Ebb	C8	DO(mg/L) Turbidity	5.57 10.75	3.36 9.10		Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	7.00	15.00	22.13	Remarks / Other Obs:	In view that Contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
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Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10D166	29-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.51	4.26		Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor's works,
									Remarks / Other	there was no marine works undertaken at ex-WPCWA on 29 Oct 2012. In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D167	29-Oct-12	Mid-Ebb	Ex-WPCWA SE	Surface	DO(mg/I)	3.68	4.26		Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contractor's works,
									D 1 101	there was no marine works undertaken at ex-WPCWA on 29 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X 10D168	29-Oct-12	Mid-Ebb	Ex-WPCWA SE	Bottom	DO(mg/l)	3.28	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
X_10B100	20 000 12	IVIIG EDD	LX WI OWN OL	Dottom	DO(mg/i)	0.20	0.00	0.00	1 COOIDIO TOGGOTI.	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contractor's works,
										there was no marine works undertaken at ex-WPCWA on 29 Oct 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
		<u> </u>							Obs:	considered not related to Project works.
X_10D169	29-Oct-12	Mid-Ebb	C6	Middle	DO(mg/l)	2.77	3.13		Possible reason: Action taken / to be	Possible in relation to the low flow and low water depth during ebb tide Repeated the measurement to confirm the result. Checked with
									taken:	Contractor's works, TS2 seawall construction and TS2 reclamation
										were conducted on that day. Checked with Contractor inspection's
										record, the silt curtain was in proper condition.
									Remarks / Other	In view that the silt screen was in proper condition and no dredging
									Obs:	work was conducted on that day. The exceedance was possibly to be caused from the accumulation of particles discharged from outfalls near
										monitoring station and not related to Project works.
X_10D170	31-Oct-12	Mid-Ebb	C7	Middle	DO(mg/l)	3.64	3.87	3.09	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
									Action taken / to be	Repeated the measurement to confirm the result. Checked with
									taken:	Contractor's works, TS2 seawall construction and TS2 reclamation
										were conducted on that day. Checked with Contractor inspection's
										record, the silt curtain was in proper condition.
									Remarks / Other	
									Obs:	In view that the silt screen was in proper condition and no dredging
									Obs.	work was conducted on that day. The exceedance was possibly to be
										caused from the accumulation of particles discharged from outfalls near monitoring station and not related to Project works.
X_10D171	6-Nov-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.97	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									-	there was no marine works undertaken at ex-WPCWA on 6 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D172	8-Nov-12	Mid-Flood	Ex-WPCWA SE	Surface	DO(mg/l)	4.03	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									Action taken / to be	from culvert near monitoring station  Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									tanon.	there was no marine works undertaken at ex-WPCWA on 8 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
									<b>55</b> 0.	considered not rolated to 1 reject works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Love	imit Lovo	Follow-up action	
X 10D173						4.20	4.71		Possible reason:	Describle in relation to the accumulation of organic norticles discharged
X_10D173	8-N0V-12	Mia-Fiood	EX-WPCVVA SW	Bottom	DO(mg/l)	4.20	4.71	4.63	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 8 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D174	8-Nov-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	4.05	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 8 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D175	10-Nov-12	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	3.04	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 10 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D176	10-Nov-12	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.89	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 10 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D177	10-Nov-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.78	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									D 1 (0)	there was no marine works undertaken at ex-WPCWA on 10 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
V 40D470	4.4 Nav. 40	Maria Elek	F., M/DC/M/A CF	Curtons	DO(/I)	2.20	4.00	2.04	Obs:	considered not related to Project works.  Possible in relation to the accumulation of organic particles discharged
X_10D178	14-Nov-12	Mid-Ebb	Ex-WPCWA SE	Surface	DO(mg/l)	3.39	4.26	3.61	Possible reason:	0 1
									Action taken / to be	from culvert near monitoring station
			1						Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Domorko / Other	there was no marine works undertaken at ex-WPCWA on 14 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
X 10D179	14 Nov 12	Mid-Ebb	Ex-WPCWA SE	Bottom	DO(mg/l)	2.96	5.36	E 2E	Obs: Possible reason:	considered not related to Project works.  Possible in relation to the accumulation of organic particles discharged
7_100179	14-INUV-12	IVIIU-⊏DD	EX-VVPCVVA SE	DOLLOIN	DO(IIIg/I)	2.96	5.36	5.35	FUSSIDIE TEASUN:	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Remarks / Other	there was no marine works undertaken at ex-WPCWA on 14 Nov 2012.
										In view that there was no marine activities at ex-WPCWA, it was
l l		1	I	1	I	I	I		Obs:	considered not related to Project works.



Defea	Data	T:Jai	11	Danth	[Davasas (1 la:4)	IM	A -+:	Lineit Laurel	Falla a attia a	
Ref no. X 10D180	Date	Tidal	Location	Depth	Parameters (Unit)					Described to the first term of the first term of the second secon
X_10D180	12-Nov-12	Mia-Flood	Ex-WPCWA SW	Surface	DO(mg/l)	3.59	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									taken.	there was no marine works undertaken at ex-WPCWA on 12 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA in 12 Nov 2012.
									Obs:	considered not related to Project works.
X 10D181	12-Nov-12	Mid-Flood	Ex-WPCWA SE	Surface	DO(mg/l)	3.75	4.26		Possible reason:	Possible in relation to the accumulation of organic particles discharged
X_10D101	12 1407 12	Iviid I lood	LX WI OWA OL	Odriacc	DO(mg/i)	3.73	4.20	3.01	i ossibic reason.	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									tanon.	there was no marine works undertaken at ex-WPCWA on 12 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X 10D182	12-Nov-12	Mid-Flood	Ex-WPCWA SW	Bottom	DO(mg/l)	3.70	4.71		Possible reason:	Possible in relation to the accumulation of organic particles discharged
					3.7					from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 12 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X_10D183	12-Nov-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	3.66	5.36	5.35	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 12 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
		<u> </u>							Obs:	considered not related to Project works.
X_10D184	14-Nov-12	Mid-Ebb	Ex-WPCWA SW	Surface	DO(mg/l)	3.21	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									D 1 /01	there was no marine works undertaken at ex-WPCWA on 14 Nov 2012.
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
V 40D405	44 No. 40	MO LELL	E 14/DOMA 014/	Dettern	DO(/I)	0.00	4 74		Obs:	considered not related to Project works.
X_10D185	14-NOV-12	Mid-Ebb	Ex-WPCWA SW	Bottom	DO(mg/l)	3.06	4.71	4.63	Possible reason:	Possible in relation to the accumulation of organic particles discharged
									Action taken / to be	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Remarks / Other	there was no marine works undertaken at ex-WPCWA on 14 Nov 2012. In view that there was no marine activities at ex-WPCWA, it was
									Obs:	,
		1		l	I	ı	1		ODS.	considered not related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Leve	Limit Leve	Follow-up action	
X_10D186	19-Nov-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.91	4.26		Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Remarks / Other	there was no marine works undertaken at ex-WPCWA on 19 Nov 2012 In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X 10D187	22-Nov-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.98	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
					3.7					from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Remarks / Other	there was no marine works undertaken at ex-WPCWA on 19 Nov 2012
									Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X 10D188	22-Nov-12	Mid-Flood	Ex-WPCWA SW	Surface	DO(mg/l)	2.66	3.84	3 73	Possible reason:	Possible in relation to the accumulation of organic particles discharged
7_102.00				Gunaco	2 0 (g/.)	2.00	0.0.	00	l coolbic rodociii	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 19 Nov 2012
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
V 40D400	00 Nov. 40	Mid Floor	0.7	NA: al all a	DO(/I)	2.00	2.07	2.00	Obs:	considered not related to Project works.
V_10D188	22-Nov-12	Mid-Flood	07	Middle	DO(mg/l)	3.00	3.87	3.09	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
									Action taken / to be	Immediate repeated in-situ measurements had conducted to confirm
									taken:	the exceedances. No odour nuisance was noted during monitoring.
									ia.tom	Checking with contractor's works on 22 Nov, TS2 reclamation was
										conducted on that day.
										Checking with contractor's inspection record, the silt screen and silt
										curtain were in proper condition on that day.
									Remarks / Other	No further DO exceedance was recorded in the next consecutive
									Obs:	monitoring. In view that the water quality at monitoring stations located
										nearest the marine work site were well below the Action level and the silt curtains for filling works were in proper condition and no odour was
										detected during monitoring, it was considered not related to Project
X_10D190	22-Nov-12	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.95	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
										from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									Damada / Other	there was no marine works undertaken at ex-WPCWA on 22 Nov 2012
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X 10D191	22-Nov-12	Mid-Flood	Ex-WPCWA SW	Bottom	DO(mg/l)	2.99	4.71	4 63	Possible reason:	Possible in relation to the accumulation of organic particles discharged
7_102101				20110111	2 0 (g/.)	2.00			l coolbic rodociii	from culvert near monitoring station
									Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 22 Nov 2012
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
V 10D100	24-Nov-12	Mid Floor	Ex-WPCWA SE	Middle	DO(ma/l\	4.17	4.26	2.64	Obs: Possible reason:	considered not related to Project works.
A_10D192	24-INOV-12	IVIIQ-F1000	EX-VVPCVVA SE	ivildale	DO(mg/l)	4.17	4.26	3.61	Action taken / to be	Possible in relation to the accumulation of organic particles discharged Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
									iditori.	there was no marine works undertaken at ex-WPCWA on 24 Nov 2012
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
									Obs:	considered not related to Project works.
X 10D103	26-Nov-12	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	3.78	4.26	3 61	Possible reason:	Possible in relation to the accumulation of organic particles discharged
7_100193	20 140V-12	iviid 1 1000	LX WI OWA SE	wiidale	Co(mg/l)	3.76	4.20	3.01	Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance
									taken:	was noted during the DO monitoring. Checked with Contract works,
										there was no marine works undertaken at ex-WPCWA on 26 Nov 2012
									D	
									Remarks / Other	In view that there was no marine activities at ex-WPCWA, it was
				1				l	Obs:	considered not related to Project works.

Appendix 7.1

Complaint Log

# Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outco	ome	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).	v d	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 <sup>th</sup> Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
						Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					o s C	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.	
					n n n	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.	
						No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	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	y d g h	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 <sup>th</sup> Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 nours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).		Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					n n	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.	
						No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status		
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.  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.	Closed		
					3)	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)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) 2) 3)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 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.	Closed		
					4)	It is considered as invalid from the EP and CNP point of view.			
100812	12/8/2010	12/8/2010 Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights (Management)	Harbour Heights	their resident complained on the noise nuisance from the	their resident complained on the	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
				works area adjacent to the Harbour Height during the period from 0700 to 2200.	2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.			
				3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.				



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
101108		Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.	Closed
					2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.	
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.	
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
			2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.			
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
101203	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point	1)	The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed
	Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.		
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.	
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City		Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	1)	ET confirmed the following information with resident site staff on the complaint:  • It was referred to the filling operation at North Point	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spotlight pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II;  Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;  Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall;  Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;  No starting work on 7 Dec 2010 at 0630hours.  PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour;  It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill;  The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.  Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose;  No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	<ol> <li>The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</li> <li>Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement.</li> <li>It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</li> <li>It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile</li> <li>The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	1) 2) 3)	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.  There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre.  It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	0)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area.  According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was observed in the inspection.	Closed
					3)	In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
				4)	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.		
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status					
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylonwire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period  Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary.  Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation.  Referring to the record provided by Cayley Property	Closed					
			.,	Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.								
110710	09/07/2011	Complainant by ICC (ICC no. 1-301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.	',	ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed					
										2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition						



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	Department published a notice	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011  RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.  As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be	
				Troituay.	4)	started at 8am and is expected to be completed by mid-August 2011.  No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	Closed
					5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was conducted at Causeway Bay	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
				to the vicinity of the residents in early morning	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) 2) 3)	It was referred by AECOM to ET on 28 July 2011  RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.  No noise exceedance was recorded at construction noise	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.	monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					<ol> <li>In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.</li> </ol>	
110727b	27/07/2011	Ms. Chiu by ICC	North Point	Noise nuisance from the excavation works for the	1) It was referred by AECOM to ET on 28 July 2011	
		no.1-304615409  Highways Department adjacent to the Victoria Centre was conducted from 7am	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.			
				3	<ol> <li>As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.</li> </ol>	
	08/08/2011		4) However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed		
					5) Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Remarks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC	North Point	Muddy water was discharged from work site to the seafront	It was referred by AECOM to ET on 17 August 2011.  (	Closed
		no. 1 – 306740207		near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2) Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	
					<ol> <li>Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid.</li> <li>Contractors were advised to relocate the loose materials</li> </ol>	



Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				material placed which needed to be placed r coastline shall be properly compacted or cov appropriate. To avoid any further environmental de Contractors shall ensure all necessary environmental	ear the ered as ficiency, nmental
26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	construction works were referred to the Co HK/2009/01.  The Excavator mounted breaker at Convention and Drilling rig at HKCEC1 reclamation area v	ntractor  Avenue ere the
			mounted breaker at Convention Avenue we		
					cantilevered movable noise barrier for the drilling 1m movable noise barrier for the excavator
				construction plants at site. Further enhancement of	
				7 September 2011 revealed that the implemented	oise
26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	Confirmed with the Resident Site Staff that the  construction works were referred to the Contra HY/2009/11 and HY/2009/19.  The pump is located on the site area of HY/200  A temporary garbage defender was installed o July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in ord excluse the outfall.	etors 9/19 1/23 ler to
	26/08/2011	26/08/2011 Grand Hyatt and a complainant by ICC  26/08/2011 A complaint letter from Mr. Au of Cayley Property of City	26/08/2011 A complaint letter from Mr. Au of Cayley Property of City  Complainant By Complainant  Wan Chai  Wan Chai  Wan Chai  North Point	26/08/2011  A complaint letter from Mr. Au of Cayley Property of City Garden  26/08/2011  A complaint letter from Mr. Au of Cayley Property of City Garden  Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.  Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25	26/08/2011   Grand Hyatt and a complainant by ICC   ICC

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						<ul> <li>Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> </ul>	
						<ul> <li>In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed</li> </ul>	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1)	RSS notified ET to carry out investigation on 17 October 2011.  ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site.	
					<ol> <li>After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</li> </ol>	
					Contractor was reminded to enhance regular checking and maintenance to all plants at site.	
					5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	<ol> <li>ET confirmed with the Resident Site Staff that         <ul> <li>A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled.</li> <li>Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate.</li> </ul> </li> <li>Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.</li> </ol>	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
120820	20/8/2012	Mr.Ho via hotline	The exit of Causeway	A complaint regarding turbid		
	33.5.33.2	1823	Bay typhoon Shelter and lighthouse	appearance in water quality generated from dredging operation at the exit of CBTS and lighthouse from two barges respectively in construction sites of CBTS on 18 and 19 August 2012 between 3:00 and 10:00pm. The complainant requested a follow-up and reply from relevant department.	blocks removal at north of TS1 and removal of amour rocks at tip of Eastern Breakwater for HY/2009/15 were conducted during the concerned period on 18 August 2012, and seawall blocks removal at north of TS1 during the concerned period on 19 August 2012.	



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

## Appendix 8.1

**Construction Programme of Individual Contracts** 

	NPR3 ver.9.5 2011_11_21	Executive	Summary		Data Date: 2	1-Nov-11				
rity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float			2011	
Reclam	nation in NPR3 ver.9.5 2011_11_21	115		21-Jul-11 A	19-Dec-11	-39	Sep	Oct	No	v De
Landsid		115	23	05-Aug-11 A	19-Dec-11	-39				
	ion Seawall Blocks to B6 and B7	55		13-Aug-11 A	18-Oct-11 A	_		<u> </u>		
	ect the Concrete Coping at B6 and B7	82		13-Aug-11 A	07-Nov-11 A	_		i i		
	Geotextile & Filter Material	86		05-Aug-11 A	14-Nov-11 A			1	<del></del>	
	act Open Channel U under IEC	33		23-Sep-11 A	30-Oct-11 A		·····			
	act Open Channel U outside IEC	32		30-Sep-11 A	15-Dec-11	-36	,	<del>`</del>		
	act the Drainage Pipeline at West of Open Channel U	34		30-Sep-11 A	31-Oct-11 A		,	<del>,</del>	<del>-</del>	
	ict the Drainage Pipeline at East of Open Channel U	28		01-Nov-11 A	15-Dec-11	-31		1	+	+ + -
	ng Sorted Public Fill behind new seawall	53	0	15-Aug-11 A	20-Nov-11 A	-		<u>i</u>	i	┥
Reclam		98		13-Aug-11 A	19-Dec-11	-39				
Seaside	9	100	23	21-Jul-11 A	19-Dec-11	-39		1		
	uction of Outlet Pipe from City Garden	54	20	12-Oct-11 A	19-Dec-11	-34		-	1	
	uction of B8	13	13	15-Nov-11 A	09-Dec-11	-31			_	
Act	tual Work	ry	Pa	age 1 of 1	TASK filter: All Act	ivities				

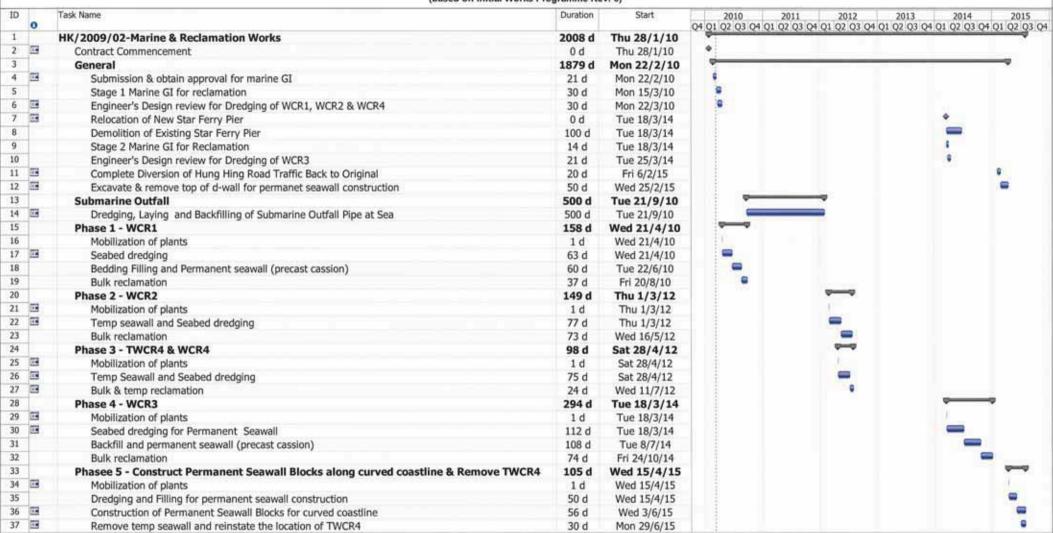
Contract No. HK/2009/01

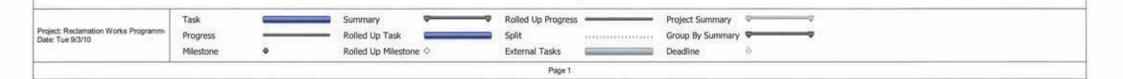
Contract Title: Wan Chai Development Phase II - Central - Wan Chai Bypass at HKCEC

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010	2011	2012	2013
ACTIVITI	SIAKI	FIMSH	Feb Mar Apr Mar Jun Jul Aur Sep Oct No De	Jan Feb MarApaMa Jun Jul Au Sep Oct No De	Jan Feb Ma ApaMa Jun Jul Au Sep Oct No De	Jan Feb Mai AprMai Jun Jul Aus Sep Oct No Dec
Submissions before Works Commencement						
Submit silt curtain deployment plan	31/3/10	31/3/10	•			
Submit silt screen deployment plan	31/3/10	31/3/10	•			
Submit measures to mitigate noise impact	31/3/10	31/3/10	•			
Cross Harbour Watermains from WCN to TST (DP6)						
Trench dredging for marine watermains installation	29/4/10	28/10/10				
Backfilling for watermain	28/1/11	14/12/11				
Reclamation Works at HKCEC Water Channel (DP3)						
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10				
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11		200		
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)





Activity ID	Cal	Activity Description	Orig	Early Start	Early Finish	2010 2011	2012	2013	2014	2015	2016	2017
CBR1E (T	S1 Area		501	Ottare	Timon							
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11	TCBR1E(TS	1)-dredging+rock	dill(prep. for se	awali)			
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11		TS1)-temporary r	All the second s				
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12				emporary reclama	ation		
CBR4					**		, ,	,	inportary resident			
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10	Maintenance dr	edging for naviga	tion safety for	relocation of RHK	YC mooring at	Area B	
CBR2 + TO	CBR3 (	TS2 Area)								y a mooning at		
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10	TCBR2&TCBR3	TS2)- Maintenand	ce dredging for	navigation safety	at Area A for r	elocation of com	mercial ve
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12				+rockfill seabed			
120	1	TCBR2&TCBR3(TS2)temporary reclamation	115	26FEB12*	19JUN12				temporary reclam			
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13				BR2&TCBR3(TS		orary reclamatio	n
CBR1W (T	S4 Are	a)									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CO.
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11	■TCBR1W(TS4	l)-dredging+rock	fill(prep. for sea	wall)			
130	1	TCBR1W(TS4)temporary reclamation	68	28JAN11	05APR11	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	TS4)temporary					
165	1	TCBR1W(TS4)removal temporary reclamation	26	27OCT13*	21NOV13			101	CBR1W(TS4)re	moval tempora	ry reclamation	
PCWAE									1	*	•	
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55 (	03DEC10*	26JAN11	TPCWAE-dre	dging+rockfill(pre	ep. for seawall)				
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	TPCWAE	-temporary recla	mation				
170	1	TPCWAEremoval temporary reclamation	28	28SEP13*	25OCT13			ETT	PCWAEremoval	temporary recla	amation	
PCWAW					***							
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	28OCT13*	13DEC13				TPCWAW-dredgin	ng+rockfill(prep	o. for seawall)	
150	1	TPCWAWtemporary reclamation	83	14DEC13	06MAR14				TPCWAWte			
175	1	TPCWAWremoval temporary reclamation	50 (	02JUL15*	20AUG15		TP		I temporary recla			

