

Lam Geotechnics Limited

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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 AND FEP-05/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- MAY 2012 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

8 June 2012

ENVIRON

Ref.: AACWBIECEM00 0 2830L.12

8 June 2012

AECOM Asia Company Limited 8/F, Tower 2 Grand Central Plaza 138 Shatin Rural Committee Road, Shatin, New Territories, Hong Kong By Post and Fax (2691 2649)

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (May 2012) for EP-356/2009, FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for May 2012 dated 8 June 2012.

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

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

Yours sincerely,

David Yeung Independent Environmental Checker

c.c.	HyD
	CEDD
	AECOM
	Lam

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

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TABLE OF CONTENTS

EXE	UTIVE SUMMARY	4
1.	NTRODUCTION	.13
	.1 Scope of the Report .2 Structure of the Report	
2.	PROJECT BACKGROUND	.15
	 Background Scope of the Project and Site Description Division of the Project Responsibility Project Organization and Contact Personnel 	15 16
3.	STATUS OF REGULATORY COMPLIANCE	.25
	Status of Environmental Licensing and Permitting under the Project	.25
4.	MONITORING REQUIREMENTS	37
	 Noise Monitoring Air Monitoring Water Quality Monitoring 	.38
5.	MONITORING RESULTS	.46
	 Noise Monitoring Results Real-time Noise Monitoring Air Monitoring Results Water Monitoring Results Waste Monitoring Results 	48 48 50
6.	COMPLIANCE AUDIT	.59
	 Noise Monitoring	59 59 60 61
7.	CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS	.62
8.	ENVIRONMENTAL SITE AUDIT	63
9.	COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION	64
10.	CONCLUSION	.68



LIST OF TABLES

Table I	Summary of Water Quality Monitoring Exceedances in Reporting Month
Table II	Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month
Table 2.1	Schedule 2 Designated Projects under this Project
Table 2.2	Details of Individual Contracts under the Project
Table 2.3	Contact Details of Key Personnel
Table 3.1	Summary of the current status on licences and/or permits on environmental
Table 5.1	protection pertinent to the Project
Table 3.2	Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/11
Table 3.3	Summary of submission status under FEP-01/356/2009 Condition
Table 3.4	Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01
Table 3.5	Summary of submission status under FEP-02/356/2009 Condition
Table 3.6	Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02
Table 3.7	Summary of submission status under FEP-03/356/2009 Condition
Table 3.8	Cumulative Summary of Valid Licences and Permits under Contract no.
	HY/2009/15
Table 3.9	Summary of submission status under FEP-04/356/2009 Condition
Table 3.10	Cumulative Summary of Valid Licences and Permits under Contract no.
	HK/2010/06
Table 3.11	Summary of submission status under EP-356/2009 and FEP-05/356/2009 Condition
Table 3.12	Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19
Table 4.1	Noise Monitoring Station
Table 4.2	Real Time Noise Monitoring Station
Table 4.3	Air Monitoring Station
Table 4.4	Marine Water Quality Stations for Water Quality Monitoring
Table 4.5	Marine Water Quality Monitoring Frequency and Parameters
Table 4.6	Marine Water Quality Stations for Enhanced Water Quality Monitoring
Table 4.7	Marine Water Quality Stations for Additional DO Monitoring
Table 5.1	Noise Monitoring Stations for Contract no. HY/2009/11
Table 5.2	Noise Monitoring Station for Contract nos. HK/2009/01, HK/2009/02 and HK/2010/06
Table 5.3	Noise Monitoring Station for Contract no. HY/2009/15
Table 5.4	Noise Monitoring Station for Contract no. HY/2009/19
Table 5.5	Real Time Noise Monitoring Station for Contract no. HY/2009/11 and HY/2009/19
Table 5.6	Air Monitoring Stations for Contract no. HY/2009/11
Table 5.7	Air Monitoring Stations for Contract no. HK/2009/01
Table 5.8	Air Monitoring Station for Contract no. HK/2009/02
Table 5.9	Air Monitoring Station for Contract no. HY/2009/15
Table 5.10	Air Monitoring Stations for Contract no. HY/2009/19
Table 5.10	Water Monitoring Stations for Contract no. HY/2009/19
Table 5.12	
	Water Monitoring Stations for Contract no. HK/2009/01
Table 5.13	Water Monitoring Stations for Contract no. HK/2009/02
Table 5.14	Water Monitoring Stations for Contract no. HK/2010/06
Table 5.15	Water Monitoring Stations for Contract no. HY/2009/15
Table 5.16	Water Monitoring Stations for Contract no. HY/2009/19
Table 5.17	Summary of Water Quality Monitoring Exceedances in Reporting Month
Table 5.18	Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in Reporting Month
Table 5.19	Details of Waste Disposal for Contract no. HK/2009/01
Table 5.20	Details of Waste Disposal for Contract no. HK/2009/02
Table 5.21	Details of Waste Disposal for Contract no. HY/2009/15
Table 5.22	Details of Waste Disposal for Contract no. HK/2010/06
Table 8.1	Summary of Environmental Inspections for Contract no. HK/2009/01

2



- Table 8.2
 Summary of Environmental Inspections for Contract no. HK/2009/02
- Table 8.3Summary of Environmental Inspections for Contract no. HY/2009/15
- Table 8.4
 Summary of Environmental Inspections for Contract no. HK/2010/06
- Table 8.5Summary of Environmental Inspections for Contract no. HY/2009/19
- Table 9.1Cumulative Statistics on Complaints
- Table 9.2Cumulative Statistics on Successful Prosecutions
- Table 10.1
 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

LIST OF FIGURES

- Figure 2.1 Project Layout
- Figure 2.2 Project Organization Chart
- Figure 2.3 Locations of Environmental Monitoring Stations

LIST OF APPENDICES

- Appendix 3.1 Environmental Mitigation Implementation Schedule
- Appendix 4.1 Action and Limit Level
- Appendix 4.2 Copies of Calibration Certificates
- Appendix 5.1 Monitoring Schedule for Reporting Month and Coming month
- Appendix 5.2 Noise Monitoring Results and Graphical Presentations
- Appendix 5.3 Air Quality Monitoring Results and Graphical Presentations, and Odour Patrol Results
- Appendix 5.4 Water Quality Monitoring Results and Graphical Presentations
- Appendix 5.4a Additional Dissolved Oxygen Monitoring Results
- Appendix 5.5 Real-time Noise Monitoring Results and Graphical Presentations
- Appendix 6.1 Event Action Plans
- Appendix 6.2 Summary for Notification of Exceedance
- Appendix 7.1 Complaint Log
- Appendix 8.1 Construction Programme of Individual Contracts



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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – May 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-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009. This report presents the environmental monitoring findings and information recorded during the period April 2012 to May 2012. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

- ii. Contract no. HY/2009/11- North Point Reclamation
 - Rectifications of rock armour at Portion III
 - 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.
- iii. During this reporting period, the major work activities for Contract no. HK/2009/01 included: Marine Works (at Wan Chai)
 - Installation of sheet pile water channel for cooling water intake at Dome Promenade
 between CH170 and CH240
 - Rockfilling for rock bund at HKCEC Water Channel from Ch220 to Ch230
 - Reclamation of HKCEC3W within HKCEC Water Channel
 - Rock armour protection to the seawall at Wan Chai Landfall in Zone B1-3
 - Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge
 - Preparation works for demolition of existing seawall at Expo Drive East including removal of existing staircase in the vicinity

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

- Concrete coating at flange joint of cross-harbour watermains nos. A13B13/A14B14, A14B14/A15B15 and A15B15/A16B16
- Rockfilling and rock protection to cross-harbour watermains
- Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. cross harbour watermains (CHB) along the pipe pile wall at TST seashore
- Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore
- Removal of existing seawall at TST seashore for installation of cross harbour watermains (CHA)

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

- Mainlaying works at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3, A1-3A,
 - A1-3B, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A
 - Mainlaying works and subsequent carriageway reinstatement in Zone B1-6 and Zone

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A1-5A1

- Mainlaying works at Zone B1-5A and B2-1
- Mainlaying works at Zone A1-3 and excavation for jacking pit at Zone A1-3B
- Trench excavation for cable & G.I. Ducting works at Zone B5-1A
- Gate valves connection works for intake and discharge cooling mains of APA at Zone A2-2
- Gate valves connection works for intake cooling mains of Government[®]s Offices at Zone A4-1
- Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3
- Heading No. H7 (Mainlaying works by trenchless method)
- Excavation for jacking pit for pipe laying works by heading method along Convention Avenue at Zone A1-3A
- Heading No. H6A and No. 8
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Cable ducting works along Convention Avenue
- Cable ducting works along Harbour Road
- Cable ducting works at Fenwick Street
- Trench excavation, pipe laying works and chamber construction for a 1000 dia. Watermains (CHF) at Salisbury Garden
- Trench excavation, pipe laying woks and chamber construction for a 1000 dia. Watermains CHE) at Salisbury Garden
- Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Remaining works along EVA
 - E&M installation works of P7, P8 & P9
 - Concreting of thrust blocks in P8 dry well
 - Install the motor of the band screen at wet well of P8 was ongoing and P9
 - The TBM breaking-in of the WSD 2nd drive
 - Approximate 35m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.
 - Combined chamber for SHK at ex-pet garden
 - Approximate 10m cable duct was laid at Harbour Road and Tonnochy Road.
 - Casting of final slab at +15.71 mPD for the WSD Salt Water Pumping Station.
 - HEC Switch Room of the WSD Salt Water Pumping Station
 - ABWFs and E&M installation at the TX room of the WSD Salt Water Pumping Station
 - Installation and welding for 4th layer of wailings and struts for construction of intake



culvert Bay 19B at Wan Shing Street

- Dewatering at Wan Shing Street Bay 24 for opening in sheetpile cofferdam
- ELS of 3rd layer (-1.5mPD) struts & wailings of salt water intake landside cofferdam
- ELS of 2nd layer (+0.5mPD) struts & wailings of salt water intake seaside cofferdam
- Remedial works of hole drilling for grouting to avoid seepage outside the salt water intake seaside cofferdam
- ELS of 3rd layer (-2.0mPD) struts & wailings of Submarine Outfall Seaside Cofferdam
- Removal of formwork for slab and beam high portion 1A
- Concreting of pile cap low portion 2A1, sloping tie beam, tie beam between 2A1 to 2A2 and 2A1 to 1A
- Concreting of slab and beam high portion 2A3, 2B1 and 2B2 (+3.15mPD to +3.75mPD) at Ferry Pier
- Removal of formwork of slab and beam high portion 2B1, 2B2 and 2B3 (+4.15mPD)
- Erection of formwork for pile cap low portion 3B at Ferry Pier
- Dewatering and fixing of steel water tank for construction of pile cap at portion 3A and 3C2 at Ferry Pier
- Approximate 5m DN800 MS pipe installation near Gate 1 at ex-pet garden
- Piping diversion at WCR2
- Excavation works and utilities diversion at Box Culvert O
- Permanent precast beam and central beam for Box Culvert O diversion
- v. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - Dredging for seawall foundation at TS2
- vi. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
 - Excavation of bored piles
 - Concreting of bored piles
 - Coring Works
 - Sheet Piles
 - Construction of Pre-cast Unit in China
- vii. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 - Marine bored piling

Noise Monitoring

viii. 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.



ix. No action level and two limit level exceedances were recorded at M6 on 30 April and 16 May 2012. The limit level exceedances were considered as non-project related.

Real-time Noise Monitoring

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

Air Quality Monitoring

- xi. 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.
- xii. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:

CMA1b: from 8 May 2012 to 9 May 2012 CMA5a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012 CMA6a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012

xiii. 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

- xiv. 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.
- xv. 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.
- 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;
- xvii. 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.
- xviii. 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.





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- xix. 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.
- xx. 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.
- xxi. 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*.

				Mid-				Mid-ebb					
Contract no.	Water Monitoring	D	0	Turk V		S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	L	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 6 Feb 2012	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	0	0	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	1
	C5w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on	WSD21	0	0	0	0	0	1	0	0	0	0	0	1
8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/19 Monitoring started on	C8	0	0	0	0	0	0	0	0	0	0	0	0
28 Jan 2012	C9	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	1	0	0	0	0	0	2

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month



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.
- xxii. Investigations were found that the exceedances were not related to the Project works. The details of the recorded exceedances can be referred to the Section 6.4.
- xxiii. 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*.

		Mid-f	lood	Mid-ebb	
Contract no.	Water Monitoring Station	D	0	DO	
110.		AL	LL	AL	LL
	C6	0	0	1	0
HY/2009/15	C7	1	0	0	0
111/2009/13	Ex-WPCWA SW	0	0	0	0
	Ex-WPCWA SE	0	0	2	0
Total		1	0	3	0

Table IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances inReporting Month

- xxiv. There were four action level exceedances of enhanced dissolved oxygen 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.
- xxv. 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

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

Site Inspections and Audit

xxvii. 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

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

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

 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.

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

Marine Works

- Reclamation works and installation of sheet pile water channel (from CH170 to CH260)
- Rockfilling within HKCEC Water Channel (from CH220 to CH230)
- Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH240
- Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge
- Installation pipe pile wall for modification of vertical seawall near Expo Drive East would be commenced upon completion of existing staircase demolition and removal of covered walkway.
- Rockfilling at northeast of Area 9 and Area7 near Expo Drive East Bridge

Cross-Harbour Watermains Installation (CHA & CHB)

- Trench excavation and installation of shoring system for installation of cross harbour watermains (CHA & CHB) along the pipe pile wall at TST seashore
- Installation of cross-harbour watermains nos. A18/B18
- Trust block construction, concrete coating for flange joint and Rockfilling protection works for cross-harbour watermains in Victoria Harbour

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

- Works would be continued at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3A, A1- 3B, A1-3, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A
- Mainlaying and road reinstatement works at Zone B4-4 and B1-5A
- Trench excavation at Zone B4-1A and the road reinstatement works at Zone B4-4
- Jacking pit construction at Zone A1-3B. Heading No. H6B (toward western direction) and Heading No. H6C (toward eastern direction)



- Mainlaying works at Zone A2-2. Valve connections for both cooling mains intake pipe and discharge pipe of APA and Shui On Centre
- Heading No. H6A (toward eastern direction)
- Heading No. H10 across the run-out of Renaissance Harbour View Hotel and mainlaying works at Zone A4-2A
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Heading Nos. H7 (Mainlaying works by trenchless method)
- Cable ducting works at Zone GA (across Harbour Road)
- Cable ducting works at Zone GS (across Harbour Road)
- Cable ducting works at Zone GH (along Harbour Road)

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

- Continue steel platforms (Wet Well) installation at +2.2mPD for P7, P8 & P9 Pumping Stations.
- Continue pipe jacking of WSD 2nd last drive.
- Continue pipe laying works along Harbour Road and Tonnochy Road.
- Complete the steel bridge erection crossing landside cofferdam of Salt Water Intake Culvert for cooling mains installation.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Continue ABWFs & E&M works of WSD Salt Water Pumping Station.
- Continue pipeline jacking of salt water intake culverts B.
- Continue ELS works of landside cofferdam for the construction of Bay 6 10 salt water intake culverts.
- Continue ELS works of seaside cofferdams for salt water intake culvert, submarine outfall and Box Culvert N1.
- Complete breaking the thrust wall aside the Jacking Pit.
- Commence HDPE pipe Outfall A & B launching from Jacking Pit at WCR1 area.
- Continue substructure works for the New Ferry Pier at Portions 1A, 2A, 2B, 2C & 3C.
- Complete the installation of precast slab Panel between Grid B-F/9-15 of the New Ferry Pier.
- Complete backfilling rockfills for the installed submarine outfall pipes and diffuser section.
- Continue reclamation works at WCR2 area.
- Completed remaining SHK piping diversion at WCR2 area.
- Side Beam remedial works and reinstatement of carriageway for Box Culvert O diversion.
- Continue excavation works, bulkhead wall construction and seawall opening for Box



Culvert O diversion.

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

- Dredging for seawall foundation at TS2
- Seawall formation at TS2
- Removal of temporary reclamation at TS1

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

- Pile head breaking works
- Sheet Piles
- Construction of Pre-cast Unit in China

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

• Marine bored piling



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1. Introduction

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.3 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- 1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-01/356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 and FEP-05/356/2009 and during the period of April to May. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

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



- **Section 8** *Site Inspection* summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 Conclusion



2. Project Background

2.1 Background

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

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above
 - Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above



- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. <u>Figure 2.1</u> shows the locations of these Schedule 2 DPs.

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

 Table 2.1
 Schedule 2 Designated Projects under this Project

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*.



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 (Under application of surrender)
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010
	(Causeway Bay Typhoon Shelter Section)		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

Table 2.2 Details of Individual Contracts under the Project

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*:

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	3922 8332	3529 2829
China Harbour-	Contractor under Contract no.	Project Director	Mr. Cho Yu Fun	3157 1086	3157 1085

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
CRBC Joint	HY/2009/11	Project Manager	Mr. Gregory Wong	3157 1086	
Venture		Site Agent	Mr. Daniel Cheung	3157 1086	
		Environmental Officer	Mr. C. M. Wong	3157 1086	
Chun Wo – Leader	Contractor under Contract no.	Project Director	Mr. PL Yue	9124 2471	2634 1626
Leader Joint Venture	HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	
		Operation Manager	Mr. Lau Yee Ching	9466 3918	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Construction Manager	Mr. KK Yuen Mr. Andy Yu	9498 1213 96484896	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL	Contractor under Contract no.	Site Agent	Mr. Chan Sing Cho	3658 3002	2827 9996
Joint HK/2009/02 Venture		Quality & Environmental Manager	Mr. C.P. Ho	3658 3000	
		Environmental Officer	Ms. Flora Ng	3658 3064	
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 6337	2566 2192
		Head of Construction Manager	Roger Cheung	3557 6371	2566 2192
		Senior Construction Manager	Gene Cheung	3557 6395	2566 2192
		Environmental Officer	Mr. Daniel Sin	3557 6347	2566 2192
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	



Party	Role	Post	Name	Contact No.	Contact Fax
		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. Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
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)	Environmental Mr. Raymond Team Leader Dai		2882 3331

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

- Rectifications of rock armour at Portion III
- 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.
- 2.4.4. For Contract no. HK/2009/01, the principal work activities in this reporting month included:

Marine Works (at Wan Chai)

- Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH240
- Rockfilling for rock bund at HKCEC Water Channel from Ch220 to Ch230
- Reclamation of HKCEC3W within HKCEC Water Channel
- Rock armour protection to the seawall at Wan Chai Landfall in Zone B1-3
- Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge
- Preparation works for demolition of existing seawall at Expo Drive East including removal of existing staircase in the vicinity

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



- Concrete coating at flange joint of cross-harbour watermains nos. A13B13/A14B14, A14B14/A15B15 and A15B15/A16B16
- Rockfilling and rock protection to cross-harbour watermains
- Trench excavation, installation of shoring system and trimming obstructions (mini-piles) for a 1000 dia. cross harbour watermains (CHB) along the pipe pile wall at TST seashore
- Trench excavation and installation of shoring system for a 1000 dia. Cross Harbour Watermains (CHA) along the pipe pile wall at TST seashore
- Removal of existing seawall at TST seashore for installation of cross harbour watermains (CHA)

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

- Mainlaying works at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3, A1-3A, A1-3B, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A
- Mainlaying works and subsequent carriageway reinstatement in Zone B1-6 and Zone A1-5A1
- Mainlaying works at Zone B1-5A and B2-1
- Mainlaying works at Zone A1-3 and excavation for jacking pit at Zone A1-3B
- Trench excavation for cable & G.I. Ducting works at Zone B5-1A
- Gate valves connection works for intake and discharge cooling mains of APA at Zone A2-2
- Gate valves connection works for intake cooling mains of Government^{*}s Offices at Zone A4-1
- Diversion of underground cables at footpath of Fenwick Pier Street at Zone A3-3
- Heading No. H7 (Mainlaying works by trenchless method)
- Excavation for jacking pit for pipe laying works by heading method along Convention Avenue at Zone A1-3A
- Heading No. H6A and No. 8
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Cable ducting works along Convention Avenue
- Cable ducting works along Harbour Road
- Cable ducting works at Fenwick Street
- Trench excavation, pipe laying works and chamber construction for a 1000 dia. Watermains (CHF) at Salisbury Garden
- Trench excavation, pipe laying woks and chamber construction for a 1000 dia. Watermains CHE) at Salisbury Garden
- Pipe installation of a 1000 dia. Watermains (CHE) by trenchless method across the EVA near Salisbury Garden

20



Lam Geotechnics Limited

- 2.4.5. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Remaining works along EVA
 - E&M installation works of P7, P8 & P9
 - Concreting of thrust blocks in P8 dry well
 - Install the motor of the band screen at wet well of P8 was ongoing and P9
 - The TBM breaking-in of the WSD 2nd drive
 - Approximate 35m cooling water pipe was laid at Harbour Centre, Harbour Road, Tonnochy Road and ex-pet garden.
 - Combined chamber for SHK at ex-pet garden
 - Approximate 10m cable duct was laid at Harbour Road and Tonnochy Road.
 - Casting of final slab at +15.71 mPD for the WSD Salt Water Pumping Station.
 - HEC Switch Room of the WSD Salt Water Pumping Station
 - ABWFs and E&M installation at the TX room of the WSD Salt Water Pumping Station
 - Installation and welding for 4th layer of wailings and struts for construction of intake culvert Bay 19B at Wan Shing Street
 - Dewatering at Wan Shing Street Bay 24 for opening in sheetpile cofferdam
 - ELS of 3rd layer (-1.5mPD) struts & wailings of salt water intake landside cofferdam
 - ELS of 2nd layer (+0.5mPD) struts & wailings of salt water intake seaside cofferdam
 - Remedial works of hole drilling for grouting to avoid seepage outside the salt water intake seaside cofferdam
 - ELS of 3rd layer (-2.0mPD) struts & wailings of Submarine Outfall Seaside Cofferdam
 - Removal of formwork for slab and beam high portion 1A
 - Concreting of pile cap low portion 2A1, sloping tie beam, tie beam between 2A1 to 2A2 and 2A1 to 1A
 - Concreting of slab and beam high portion 2A3, 2B1 and 2B2 (+3.15mPD to +3.75mPD) at Ferry Pier
 - Removal of formwork of slab and beam high portion 2B1, 2B2 and 2B3 (+4.15mPD)
 - Erection of formwork for pile cap low portion 3B at Ferry Pier
 - Dewatering and fixing of steel water tank for construction of pile cap at portion 3A and 3C2 at Ferry Pier
 - Approximate 5m DN800 MS pipe installation near Gate 1 at ex-pet garden
 - Piping diversion at WCR2
 - Excavation works and utilities diversion at Box Culvert O
 - Permanent precast beam and central beam for Box Culvert O diversion
- 2.4.6. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - Dredging for seawall foundation at TS2



- 2.4.7. For Contract no. HK/2010/06, the principal work activities in this reporting month included:
 - Excavation of bored piles
 - Concreting of bored piles
 - Coring Works
 - Sheet Piles
 - Construction of Pre-cast Unit in China
- 2.4.8. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - Marine bored piling
- 2.4.9. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

 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.

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

Marine Works

- Reclamation works and installation of sheet pile water channel (from CH170 to CH260)
- Rockfilling within HKCEC Water Channel (from CH220 to CH230)
- Installation of sheet pile water channel for cooling water intake at Dome Promenade
 between CH170 and CH240
- Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge
- Installation pipe pile wall for modification of vertical seawall near Expo Drive East would be commenced upon completion of existing staircase demolition and removal of covered walkway.
- Rockfilling at northeast of Area 9 and Area7 near Expo Drive East Bridge

Cross-Harbour Watermains Installation (CHA & CHB)

- Trench excavation and installation of shoring system for installation of cross harbour watermains (CHA & CHB) along the pipe pile wall at TST seashore
- Installation of cross-harbour watermains nos. A18/B18
- Trust block construction, concrete coating for flange joint and Rockfilling protection works for cross-harbour watermains in Victoria Harbour

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

• Works would be continued at Zone B1-5A, B2-1, B4-3, B4-4, B5-1A, A1-1, A1-3A,



A1- 3B, A1-3, A2-2, A3-3, A3-4B, A3-5B, A4-1 and A4-2A

- Mainlaying and road reinstatement works at Zone B4-4 and B1-5A
- Trench excavation at Zone B4-1A and the road reinstatement works at Zone B4-4
- Jacking pit construction at Zone A1-3B. Heading No. H6B (toward western direction) and Heading No. H6C (toward eastern direction)
- Mainlaying works at Zone A2-2. Valve connections for both cooling mains intake pipe and discharge pipe of APA and Shui On Centre
- Heading No. H6A (toward eastern direction)
- Heading No. H10 across the run-out of Renaissance Harbour View Hotel and mainlaying works at Zone A4-2A
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Heading Nos. H7 (Mainlaying works by trenchless method)
- Cable ducting works at Zone GA (across Harbour Road)
- Cable ducting works at Zone GS (across Harbour Road)
- Cable ducting works at Zone GH (along Harbour Road)

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

- Continue steel platforms (Wet Well) installation at +2.2mPD for P7, P8 & P9 Pumping Stations.
- Continue pipe jacking of WSD 2nd last drive.
- Continue pipe laying works along Harbour Road and Tonnochy Road.
- Complete the steel bridge erection crossing landside cofferdam of Salt Water Intake Culvert for cooling mains installation.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Continue ABWFs & E&M works of WSD Salt Water Pumping Station.
- Continue pipeline jacking of salt water intake culverts B.
- Continue ELS works of landside cofferdam for the construction of Bay 6 10 salt water intake culverts.
- Continue ELS works of seaside cofferdams for salt water intake culvert, submarine outfall and Box Culvert N1.
- Complete breaking the thrust wall aside the Jacking Pit.
- Commence HDPE pipe Outfall A & B launching from Jacking Pit at WCR1 area.
- Continue substructure works for the New Ferry Pier at Portions 1A, 2A, 2B, 2C & 3C.
- Complete the installation of precast slab Panel between Grid B-F/9-15 of the New Ferry Pier.
- Complete backfilling rockfills for the installed submarine outfall pipes and diffuser section.
- Continue reclamation works at WCR2 area.



- Completed remaining SHK piping diversion at WCR2 area.
- Side Beam remedial works and reinstatement of carriageway for Box Culvert O diversion.
- Continue excavation works, bulkhead wall construction and seawall opening for Box
 Culvert O diversion.

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

- Dredging for seawall foundation at TS2
- Seawall formation at TS2
- Removal of temporary reclamation at TS1

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

- Pile head breaking works
- Sheet Piles
- Construction of Pre-cast Unit in China

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

• Marine bored piling



3. Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

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

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

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

3.1.3. 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.



- 3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/356/2009 for contract no. HY/2009/11 are shown in *Table 3.2* and *Table 3.3*.
- 3.1.5. Contractor submitted a letter dated 20 July 2011 to confirm that the dredging works and dumping operation were completed.

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	N/A	Valid
Notification of Works Under APCO	331892	4 Jul. 2011	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0922-11	12 Oct 2011	1 Nov 2011 to 30 Apr 2012	Expired
Registration as a Chemical Waste Producer	WPN5213-151-C36 31-02	12 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010037	13 Jan 2010	N/A	Valid
Discharge Licence	WT00007942-2010	29 Nov 2010	30 Nov 2015	Valid

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

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



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

3.1.6. 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

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-RS0356-12	03 Apr 2012	11 Apr 2012 to 29 Sep 2012	Valid
	GW-RS0394-12	16 Apr 2012	19 Apr 2012 to 12 Oct 2012	Valid
	GW-RS1094-11	23 Nov 2011	27 Nov 2011 to 26 May 2012	Expired
	GW-RS1031-11	3 Nov 2011	7 Nov 2011 to 6 May 2012	Expired
	GW-RS1221-11	30 Jan 2011	20 Jan 2012 to 19 Jul 2012	Valid
	GW-RS1227-11	30 Dec 2011	30 Dec 2011 to 26 Jul 2012	Cancelled
	GW-RS0038-12	16 Jan 2012	15 Jan 2012 to 12 Jul 2012	Cancelled
	GW-RS0158-12	24 Feb 2012	24 Feb 2012 to 23 Aug 2012	Valid
	GW-RS0181-12	24 Feb 2012	27 Feb 2012 to 23 Aug 2012	Valid
	GW-RS0213-12	28 Feb 2012	29 Feb 2012 to 27 Aug 2012	Valid
	GW-RS0225-12	2 Mar 2012	14 Mar 2011 to 13 Sep 2012	Valid
	GW-RS0227-12	2 Mar 2012	16 Mar 2011 to 15 Sep 2012	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RE0174-12	5 Mar 2012	30 Mar 2012 to 29 Sep 2012	Valid
	GW-RS0312-12	28 Mar 2012	30 Mar 2012 to 29 Sep 2012	Valid
	GW-RS-0314-12	29 Mar 2012	30 Mar 2012 to 25 Sep 2012	Cancelled
	GW-RS0440-12	26 Apr 2012	26 Apr 2012 to 30 Apr 2012	Expired
	GW-RS0459-12	3 May 2012	7 May 2012 to 6 Nov 2012	Valid
	GW-RS0460-12	10 May 2012	13 May 2012 to 6 Nov 2012	Valid
	GW-RS0492-12	14 May 2012	15 May 2012 to 3 June 2012	Valid
	GW-RS0514-12	14 May 2012	27 May 2012 to 26 Nov 2012	Valid
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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-091	23 Nov 2011	24 Nov 2011 to 23 May 2012	Expired
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/13-009	8 May 2012	10 May 2012 to 09 Jun 2012	Valid
	EP-MD-12-147	02 Apr 2012	10 Apr 2012 to 9 May 2012	Expired

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	13 Apr 2010
Condition 2.7	Works Schedule and Location Plan	8 Apr 2010
Condition 2.8	Silt Curtain Deployment Plan (Rev. 1)	19 Apr 2010
Condition 2.0	Silt Curtain Deployment Plan (Rev. 2)	14 May 2012
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
	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
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010



EP Condition	Submission	Date of Submission
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0007-12	27 Mar 2012	28 Mar 2012 to 27 Sept 2012	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RE0710-11	30 Sept 2011	1 Nov 2011 to 30 Apr 2012	Expired
	GW-RS0930-11	11 Oct 2011	1 Nov 2011 to 30 Apr 2012	Expired
	GW-RS0941-11	20 Oct 2011	23 Nov 2011 to 22 May 2012	Expired
	GW-RS0955-11	14 Oct 2011	23 Nov 2011 to 22 May 2012	Expired
	GW-RS0968-11	20 Oct 2011	18 Nov 2011 to 17 May 2012	Expired
	GW-RS1028-11	3 Nov 2011	7 Dec 2011 to 6 June 2012	Expired
	GW-RS1052-11	18 Nov 2011	21 Nov 2011 to 18 May 2012	Expired
	GW-RS1111-11	28 Nov 2011	29 Nov 2011 to 28 May 2012	Valid
	GW-RS1116-11	28 Nov 2011	13 Dec 2011 to 12 Jun 2012	Valid
	GW-RS1209-11	3 Jan 2012	17 Jan 2012 to 16 July 2012	Valid
	GW-RS0037-12	19 Jan 2012	1 Feb 2012 to 31 July 2012	Valid
	GW-RS0051-12	19 Jan 2012	1 Feb 2012 to 31 July 2012	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0052-12	19 Jan 2012	1 Feb 2012 to 30 April 2012	Expired
	GW-RS0105-12	3 Feb 2012	10 Feb 2012 to 9 Aug 2012	Valid
	GW-RS0153-12	17 Feb 2012	21 Feb 2012 to 20 Aug 2012	Valid
	GW-RS0255-12	14 Mar 2012	17 Mar 2012 to 15 Sept 2012	Valid
	GW-RE0283-12	5 Apr 2012	1 May 2012 to 30 Nov 2012	Valid
	GW-RS0298-12	22 Mar 2012	26 Mar 2012 to 25 June 2012	Valid
	GW-RS0301-12	20 Mar 2012	21 Mar 2012 to 20 Sept 2012	Valid
	GW-RS0303-12	26 Mar 2012	27 Mar 2012 to 27 Sept 2012	Valid
	GW-RS0341-12	3 Apr 2012	28 Apr 2012 to 27 Oct 2012	Valid
	GW-RS0348-12	3 Apr 2012	10 Apr 2012 to 9 Oct 2012	Valid
	GW-RS0380-12	12 Apr 2012	1 May 2012 to 31 Oct 2012	Valid
	GW-RS0388-12	13 Apr 2012	1 May 2012 to 31 Oct 2012	Valid
	GW-RS0418-12	30 Apr 2012	23 May 2012 to 22 Nov 2012	Valid
	GW-RS0420-12	30 Apr 2012	18 May 2012 to 17 Nov 2012	Valid
	GW-RS0423-12	30 Apr 2012	19 May 2012 to 18 Nov 2012	Valid
	GW-RS0427-12	30 Apr 2012	23 May 2012 to 22 Nov 2012	Valid
	GW-RS0445-12	30 Apr 2012	1 May 2012 to 25 Sept 2012	Valid
	GW-RS0467-12	10 May 2012	14 May 2012 to 10 Nov 2012	Valid
	GW-RS0533-12	21 May 2012	21 May 2012 to 10 Nov 2012	Valid
	GW-RS0086-12	30 Jan 2012	3 Feb 2012 to 2 Aug 2012	Cancelled
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	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



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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/12-082	31 Oct 2011	29 Nov 2011 to 28 May 2012	Valid
Open Sea Disposal)	EP/MD/13015	25 May 2012	29 May 2012 to 28 Nov 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate	EP/MD/12-146	27 Mar 2012	4 Apr 2012 to 3 May 2012	Expired
Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-005	25 Apr 2012	4 May 2012 to 3 June 2012	Valid

Table 3.7 Summary of subm	ssion status under FEP-03/356/2009 Condition
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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
	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 Screen Deployment Plan	21 April 2010
Condition 2.9	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	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
Condition 2.10	Landscape Plan (Decorative Screen Hoarding)	
Condition 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010



EP Condition	Submission	Date of Submission	
	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</u> <u>Section)</u>

3.1.8. 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-RS0249-12	10 Feb 2012	9 Mar 2012 to 31 Aug 2012	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0343-12	12 Apr 2012	13 Apr 2012 to 8 Oct 2012	Valid
	GW-RS1211-11	22 Dec 2011	24 Dec 2011 to 21 Jun 2012	Valid
	GW-RS0328-12	30 Mar 2012	1 Apr 2012 to 22 Sep 2012	Valid
	GW-RS0094-12	1 Feb 2012	3 Feb 2012 to 31 Jul 2012	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Disposal Ordinance	7011761	3 Apr 2012	17 Apr 2012 to 16 Jul 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-145	10 Apr 2012	10 Apr 2012 to 9 Oct 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/12-153	13 Apr 2012	15 Apr 2012 to 14 May 2012	Expired



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-011	8 May 2012	15 May 2012 to 14 Jun 2012	Valid

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

FEP Condition	Submission	Date of Submission
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
Condition 2.9	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
Condition 2.18	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
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Noise Management Plan	20 Oct 2010
	Amendment for Noise Management Plan	27 Jan 2011

3.1.9. 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> <u>MTR Tsuen Wan Line</u>

3.1.10. 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 3.10Cumulative 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
	FEP-05/356/2009	24 Mar 2011	N/A	Valid
Further Environmental Permit	FEP-05/364//2009	21 May 2012	-	Submitt ed
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid



Permits and/or Licences	Reference No. Issued Date		Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for piling equipment	PP-RS0045-11	22 Dec 2011	12 Jan to 5 Jul 2012	Valid
Construction Noise Permit (CNP)	GW-RS0034-12	17 Jan 2012	18 Jan to 12 Jul 2012	Valid
for non-piling equipment	GW-RS0313-12	27 Mar 2012	6 Apr to 5 Oct 2012	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
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-122	9 Feb 12	12 Feb 2012 to 11 Aug 2012	Valid

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

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

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

3.1.11. 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



Permit / Licence / Notification / Approval	Reference No.	lssued Date	Valid Period / Expiry date	Status	
Construction Noise Permit (CNP) (For D-wall construction)	GW-RS0180-12	22-Feb-12	26-Aug-12	Valid	
Construction Noise Permit (CNP)	GW-RS0286-12	23-Mar-12	26-Sep-12	Cancelled	
(For Bored pile construction at Portion III)	GW-RS0507-12	22-May-12	23-Nov-12	Valid	
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0028-12	18-Jan-12	17-Jun-12	Valid	
Discharge Licence (Land)	WT00010093-2011	31 Aug 2011	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	Valid	
C&D Waste Disposal	7012306	10 Feb 2011	Registered	Valid	
Vessel Disposal	7013285	21 July 2011	Registered	Valid	
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 201112	Registered	Valid	
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-150	14-May-12	14-Nov-12	Valid	
Dumping Permit (Type 2 – Confined Marine Disposal)	EP/MD/12-151	11-May-12	14-Jun-12	Valid	



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.

A	
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

Table 4.1 Noise Monitoring Station

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.

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

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



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

MONITORING EQUIPMENT

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

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

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

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

Table 4.3 Air Monitoring Station

* 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 <u>*Figure 4.1*</u> 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.



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- 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 <u>Appendix 6.1</u>.
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb. The certificate for the qualified odour panel member is shown in <u>Appendix 4.2.</u>

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.

Station Ref.	Location	Easting	Northing	
WSD Salt Water Intake				
WSD7	Kowloon South	834150.0	818300.3	
WSD9	Tai Wan	837921.0	818330.0	
WSD10	Cha Kwo Ling	841900.9	817700.1	
WSD15	Sai Wan Ho	841110.4	816450.1	
WSD17	Quarry Bay	839790.3	817032.2	
WSD19	Sheung Wan	833415.0	816771.0	
WSD20	Kennedy Town	830750.6	816030.3	
WSD21	Wan Chai	836220.8	815940.1	
RW1	Wan Chai (Reprovision)	836188.8	815911.1	
Cooling Water I	ntake			
C1	HKCEC Extension	835885.6	816223.0	
C2	Telecom House	835647.9	815864.4	
C3	HKCEC Phase I	835836.2	815910.0	

 Table 4.4
 Marine Water Quality Stations for Water Quality Monitoring



Station Ref.	Location	Easting	Northing
C4e	Great Eagle Centre	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
RC7	Windsor House (Temporary Dilution)	837245.2	816156.6

WATER QUALITY PARAMETERS

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

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

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

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

Table 4.5 Marine Wate	or Quality	Monitorina	Frequency	and Parameters
	ri Quanty	womonig	riequency	and ranameters

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.

<u>SALINITY</u>

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 <u>Figure</u> <u>4.1</u>.

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

 Table 4.6
 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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).



А

В

С

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 Ma	arine Water Quality Stat	tions for Additional D	O Monitoring
Station	Easting	Northing	

835468

835572

835659

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

815857

815961

816271



5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. 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.
- 5.0.3. The surrender of the Further Environmental Permit for HY/2009/11 withdrew by contractor on 14 February 2012. However, there is no work was conducted by the contractor.
- 5.0.4. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HY/2009/11 Central Wan Chai Bypass North Point Reclamation;
 - Contract no. HK/2009/01 Wan Chai Development Phase II Central-Wan Chai Bypass at Hong Kong Convention and Exhibition Centre; and
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/15 Central-Wanchai Bypass Tunnel (Causeway Bay Typhoon Shelter Section)
 - Contract no. HK/2010/06 Wan Chai Development Phase II Central-Wan Chai Bypass over MTR Tsuen Wan Line
 - Contract no. HY/2009/19- Cental- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
- 5.0.5. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

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

- 5.1.1. The 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 under application of surrender in this reporting period. The monitoring was temporary suspended since 5 January 2012.
- 5.1.2. The proposed division of noise monitoring stations for Contract no. HY/2009/11 are summarized in *Table 5.1* below:

Station	Description	
M4b	Victoria Centre	
M5b	City Garden	

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

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



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

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

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

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

Station	Description
M1a	Harbour Road Sports Centre

- **5.1.6.** Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.7. 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</u> <u>Shelter Section)</u>

5.1.8. 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 5.3Noise Monitoring Station for Contract no. HY/2009/15

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

5.1.9. 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

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

Table 5.4Noise 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	

No action level exceedance and two limit level exceedance were recorded on 30 April 2012 and 16 May 2012 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Major traffic jam and no major work activities were observed during monitoring, the exceedances were considered as non-project related.

5.1 Real-time Noise Monitoring

Contract no. HY/2009/11 – Central – Wanchai Bypass, North Point Reclamation and Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

5.2.1. 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 under application of surrender in this reporting period.

Table 5.5 Real Time Noise Monitoring Station for Contract no. HY/2009/11 andHY/2009/19

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

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

5.2.2. Real time noise monitoring results were reviewed and no exceedance was recorded in the reporting period. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.5.**

5.2 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 TSP monitoring at the following stations were rescheduled

CMA1b: from 8 May 2012 to 9 May 2012 CMA5a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012 CMA6a: from 8 May and 25 May 2012 to 9 May 2012 and 26 May 2012

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

5.3.3. 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 valid in this reporting period. The monitoring for the contract was temporary suspended on 6 January 2012.

5.3.4. The proposed division air monitoring stations is summarized in *Table 5.6* below.

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

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

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

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

5.3.6. 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</u> <u>WanChai East</u>

5.3.7. 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 5.8Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.8. 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 5.9Air 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

5.3.9. 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

5.3 Water Monitoring Results.

- 5.4.1. 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 remain unchanged.
- 5.4.2. 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.
- 5.4.3. 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;
- 5.4.4. 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.
- 5.4.5. 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.
- 5.4.6. 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.
- 5.4.7. 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.
- 5.4.8. 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.

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

- 5.4.9. 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 valid in this reporting period.
- 5.4.10. The proposed division of water monitoring stations for Contract no. HY/2009/11 are summarized in *Table 5.11* below:

Station Ref.	Location	Easting	Northing				
WSD Salt Water Intake							
WSD9	Tai Wan	837921.0	818330.0				
WSD10	Cha Kwo Ling	841900.9	817700.1				
WSD15	Sai Wan Ho	841110.4	816450.1				
WSD17	Quarry Bay	839790.3	817032.2				
Cooling Water Inta	Cooling Water Intake						
C8	City Garden	837970.6	816957.3				
C9	Provident Garden	838355.0	817116.6				

Table 5.11 Water Monitoring Stations for Contract no. HY/2009/11

Remarks: WSD9, WSD10, WSD15, WSD17, C8 and C9 water monitoring finished on 6 Feb 2012.

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

5.4.11. 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.

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

Location	Easting	Northing					
WSD Salt Water Intake							
Kowloon South	834150.0	818300.3					
Sheung Wan	833415.0	816771.0					
Kennedy Town	830750.6	816030.3					
Intake							
HKCEC Extension	835885.6	816223.0					
Telecom House	835647.9	815864.4					
HKCEC Phase I	835836.2	815910.0					
Great Eagle Centre	835932.8	815888.2					
Wan Chai Tower	835629.8	815889.2					
	r Intake Kowloon South Sheung Wan Kennedy Town Intake HKCEC Extension Telecom House HKCEC Phase I Great Eagle Centre	r Intake Kowloon South 834150.0 Sheung Wan 833415.0 Kennedy Town 830750.6 Intake HKCEC Extension 835885.6 Telecom House 835647.9 HKCEC Phase I 835836.2 Great Eagle Centre 835932.8					

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.
 <u>Contract no. HK/2009/02 Wan Chai Development Wan Chai Development Phase II –</u> <u>Central – Wan Chai Bypass at WanChai East</u>
- 5.4.12. 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.

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	ke						
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2				
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2				

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

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.

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

5.4.13. 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</u> <u>Section)</u>

5.4.14. 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 5.15Water Monitoring Stations for Contract no. HY/2009/15

Station Ref. Location Easting Northing
--



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.

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

5.4.15. 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.

- 5.4.16. 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 façade refurbishment work.
- 5.4.17. 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.
- 5.4.18. 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.
- 5.4.19. 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.
- 5.4.20. 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 <u>Appendix 5.4</u>.



				Mid-	flood					Mid-e	ebb		
Contract no.	Water Monitoring	D	0	Turt y		S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	L	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 6 Feb 2012	WSD10	0	0	0	0	0	0	0	0	0	0	0	0
	WSD15	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
	C8	0	0	0	0	0	0	0	0	0	0	0	0
	C9	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	C3	0	0	0	0	0	0	0	0	0	0	0	0
	C4e	0	0	0	0	0	0	0	0	0	0	0	0
	C4w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	1
	C5w	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on	WSD21	0	0	0	0	0	1	0	0	0	0	0	1
8 Feb 2012	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/19 Monitoring started on	C8	0	0	0	0	0	0	0	0	0	0	0	0
28 Jan 2012	C9	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	1	0	0	0	0	0	2

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

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
- 5.4.21. 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 5.18Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting Month

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
1.11/2020/45	C6	0	0	1	0	
	C7	1	0	0	0	
HY/2009/15	Ex-WPCWA SW	0	0	0	0	
	Ex-WPCWA SE	0	0	2	0	
	1	0	3	0		

5.4.22. There were four action level exceedances in enhanced dissolved oxygen monitoring in this reporting period.

- 5.4.23. 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 could be continuously monitored. Details of additional DO monitoring results can be referred in <u>Appendix 5.4a</u>.
- 5.5 Waste Monitoring Results

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

5.5.1. The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. Therefore, no C&D waste was generated.

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	474.83	22069.64	TKO137, TM38
Inert C&D materials recycled, m ³	0	389.96	N/A
Non-inert C&D materials disposed, m ³	54.16	752.4	SENT Landfill

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
Non-inert C&D materials recycled, kg	570	139884	N/A
Chemical waste disposed, kg	370	6330	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m ³	7682 (Bulk Volume)	91164.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	10414 (Bulk Volume)	43018 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (Bulk Volume)	5613 (Bulk Volume)	East of Cha Chau

Remarks: Contractor clarified and updated waste flow table for the reporting month of May

5.5.3. There were marine sediments Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in the reporting month. The maximum dredging rate in cross harbour water main is 493 m³ per day, which is complied with the recommended maximum dredging rate listed in Table 2 of FEP-02/356/2009.

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

5.5.4. 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.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	17,179	140,130	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	35	452	SENT Landfill
Non-inert C&D materials recycled, m ³	NIL	NIL	N/A
Chemical waste disposed, kg	Nil	4,186	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	154,827 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea	Nil	114464	East of Sha Chau

 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
Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³		(Bulk volume)	

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

5.5.5. Inert and non- inert C&D waste were disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.21*

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 ³	NIL	65216	TKO137 FB
Inert C&D materials recycled, m ³	NIL	184.0	To Contract HY/2009/11
-	NIL	304	ex-PCWA
-	NIL	111.9	TS4
Non-inert C&D materials disposed, m ³	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 ³	14,375	58,448 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	12,090	186,342 (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

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

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

5.5.6. Non-inert C&D waste was recycled of 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	
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Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	990	11027.83	TM38
Inert C&D materials recycled,	NIL	NIL	N/A



Lam Geotechnics Limited

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
m ³			
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	70	1008.5	N/A
Chemical waste disposed, L	0	600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	397 (Bulk Volume)	3,694 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	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

5.5.7. There is no project-related waste disposal in the reporting month.



6. Compliance Audit

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

6.1 Noise Monitoring

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

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.4 No exceedance was recorded in the reporting month.

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

6.1.5 No exceedance was recorded in the reporting month.

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

6.1.6 There were no action level exceedance and two limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 30 April and 16 May 2012 in the reporting month. Investigation 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 project-related exceedance was recorded in real-time noise monitoring in the 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. HY/2009/11 - Central - Wanchai Bypass, North Point Reclamation

- 6.4.1 No exceedance was recorded in the reporting month. <u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>
- 6.4.2 No exceedance was recorded in the reporting month.

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

- 6.4.3 There was SS exceedance at mid-flood recorded at WSD21 on 9 May 2012. Investigation found that the cleaning of screen panels at SHK and Wan Chai WSD Pumping Station was recorded on 9 May 2012 around 18:00pm. Materials from the cleaning of screen panels were unavoidably collected during monitoring. After checking with the Contractor's inspection record, the silt screen and silt curtain were in proper condition on 9 May 2012. No further exceedance was recorded in the next consecutive monitoring. These exceedances were considered no related to Project Work.
- 6.4.4 There was SS exceedance at mid-ebb recorded at WSD21 on 9 May 2012. After checking with Contractor, the deployed silt screen at intake and silt curtain were observed to be in proper condition for marine works during the water quality monitoring, and Contractor has provided all the necessary mitigation measures to ensure the marine water quality. This exceedance was considered not related to the Projects works.
- 6.4.5 There was SS exceedance at mid-ebb recorded at C5e on 30 April 2012. After checking with Contractor, the deployed silt screen at intake and silt curtain at western temporary sheet pile were observed to be in proper condition for the marine construction works during the water quality monitoring, and Contractor has provided all the necessary mitigation measures to ensure the marine water quality. This exceedance was considered not related to the Projects works.

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

6.4.6 There were occasionally DO exceedances at C6, C7, Ex-WPCWA SE recorded in this reporting month. After checking with Contractor, the deployed silt screen at intake and silt curtain were observed to be in proper condition for TS2 dredging during the water quality monitoring, and Contractor has provided all the necessary mitigation measures to ensure the marine water quality. These exceedances were considered not related to the Projects works.

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

6.4.7 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



- 6.4.8 No exceedances was recorded in this reporting month.
- 6.4.9 Summary for notification of exceedances can be referred to <u>Appendix 6.2</u>.

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 (April 2012) of Central Reclamation Phase III (CRIII),filling works, building construction works and pipe works were performed in the April 2012 reporting month. The water quality monitoring was completed in October 2011 and no 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 dredging and filling at HKCEC3w, dredging at submarine sewage pipelines, reinstatement of seawall block construction at TCBR1W and marine bored piling at MTR Tunnel Crossing in the reporting month. The major environmental impact was water quality impact at, 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 were carried out on 2, 9, 17 and 23 May 2012 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

ltem	Date	Observations	Action taken by Contractor	Outcome
120502_01	2-May-12	Direct discharge was observed in the pumping station	Discharge should be treated by sedimentation tank or geo-textile before discharge	Completion as observed on 9-May-12
120509_01	9-May-12	The exposed soil area around tree (A160) was not surrounded by sandbags (Renassiance Harbour View Hotel)	The exposed soil area around tree (A160) should be surrounded by sandbags	Completion as observed on 17-May-12
120509_02	9-May-12	The muddy water from wheel washing facilities was observed on the roadside (Water Channel)	The muddy water should be cleaned regularly and the spillage of muddy water should be prevented.	
120509_03	9-May-12	The cement bags were not covered by tarpaulin sheet completely.(Water Channel)	The cement bags should be covered by tarpaulin sheet completely	Completion as observed on 17-May-12
120517_01	17-May-12	Drip tray was not provided for oil drums. (Water Channel, Renassiance View Hotel workfront)	Drip tray should be provided for oil drums.	Completion as observed on 23-May-12
120523_01	23-May-12	Muddy water was observed near to the roadside (Expo Drive West)	Muddy water should be cleaned	Completion as observed on 30-May-12
120523_02	23-May-12	The silt was observed on the public area (VIP area)	The silt should be cleaned.	Completion as observed on 30-May-12

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

8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 3, 10, 16 and 24 May 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

ltem	Date		Action taken by Contractor	Outcome
120503_01		The stagnant pool of water was observed in the U-channel, which should be cleaned	was removed.	Completion as observed on 10-May-12



ltem	Date	Observations	Action taken by Contractor	Outcome
		regularly to prevent overflow (WCRI)		
	10-May-12	covered by three sides enclosure completely. (WSD pumping station, WCRI)	plants should be covered by three sides enclosure completely	Completion as observed on 16-May-12
120510_02	10-May-12	The bentonite bags were not covered by tarpaulin sheet. (WCR1)	The bentonite bags should be covered by tarpaulin sheet	Completion as observed on 16-May-12
120510_03	10-May-12	Due to the hot weather, the site area should be sprayed by water more regularly for dust suppression.	Spray water within site area more regularly	Completion as observed on 16-May-12
120510_04	10-May-12	Direct discharge of muddy water from WCRI was observed	Discharge should be treated prior to be discharged.	Completion as observed on 16-May-12
120516_01	16-May-12	Drip tray was not provided for oil drum (WCR 1)	Drip tray should be provided for the oil drum,	Completion as observed on 24-May-12
120516_02	16-May-12	The silt deposited on U-channel was observed. (Hung Hing Road)	The silt should be cleaned regularly to prevent overflow of muddy runoff	Completion as observed on 24-May-12
120524_01	24-May-12	The stagnant water accumulated inside the drip tray was observed (WCR1)	The stagnant water should be cleaned	Completion as observed on 31-May-12
120524_02		predestrian way was observed. (Harbour Road)	The water should be discharged to the appropriate discharge point	Completion as observed on 31-May-12
120524_03	24-May-12	The stockpile was not covered by tarpaulin sheet. (Harbour Road)	The stockpile should be covered by tarpaulin sheet.	Completion as observed on 31-May-12

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 3, 8, 15 and 25 May 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

ltem	Date		Action taken by Contractor	Outcome
120503_01	3-May-12	as chemical waste (TPCWAE).	cleared as	Completion as observed on 8-May-12
120503_02	3-May-12	provided for oil		Partial completion as observed on 15-May-12



ltem	Date	Observations	Action taken by Contractor	Outcome
120508_01	8-May-12	Muddy water was observed at discharge point. Actions should be taken to prevent muddy water leaking into sea. (breakwater of TPCWAE)	Area around discharge point was cleared of mud.	Completion as observed on 15-May-12
120508_02	8-May-12	Blockage at public manholes should be cleared (Gate of TS4, outside POC)	Removal of mud inside manholes.	Completion as observed on 15-May-12
120508_03	8-May-12	Adequate drip trays should be provided for oil drums/drums.	Drip trays were provided for oil drums/drums.	Partial completion as observed on 15-May-12
120515_01	15-May-12	Oil leakage and stains should be cleared as chemical waste. (Gate of TS4, POC, TPCWAE)	Oil leakage was cleared as chemical waste.	Completion as observed on 25-May-12
120515_02	15-May-12	U-channels should be cleared of blockage (TS1, TPCWAE).	Blockage at u-channels was cleared.	Completion as observed on 25-May-12
120515_03	15-May-12	Adequate drip trays should be provided for oil drums/drums. (TS1, TPCWAE)	Drip trays were provided for oil drums/drums.	Completion as observed on 25-May-12
120515_04	15-May-12	Better protection around manholes should be provided to avoid runoff into public drainage system before treatment. (outside gate of TS4)	Sandbags were provided around the public gullies and better wheel-wash practice was adopted.	Completion as observed on 25-May-12

8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 30 April and 7, 17 and 21 May 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

ltem	Date	Observations	Action taken by Contractor	Outcome
120507_01	7-May-12	Excavated materials was observed on the working platform. (2w)	materials should	Completion as observed on 17-May-12
120521_01	· · · · ·	Water was accumulated in the drip tray (2e)		Completion as observed on 29-May-12



8.0.6. Four site inspections for Contract no. HY/2009/19 were carried out on 2, 9, 16 and 23 May 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

ltem	Date	Observations	Action taken by Contractor	Outcome
120502_01	2-May-12	Gaps and holes on platforms should be covered or filled to avoide runoff into sea.	Covered gaps and holes with tarpaulin sheet on platforms.	Completion observed on 9-May-12
120509_01	9-May-12	Blockage at U-channel should be cleared to avoid runoff out of site area (Near Oil Street).	Cleared mud from U-channel.	Completion as observed on 16-May-12.
120516_01	16-May-12	Noise blankets should be erected during noisy operations (platform 5).	Noise blankets were provided at working platforms.	Completion as observed on 30-May-12
120516_02	16-May-12	Muddy trail should be cleared and avoided out of site area (outside gate at Oil Street).	Cleared muddy trail ouside gate of Oil Street.	Completion as observed on 23-May-12
120523_03	23-May-12	Grouting machine at portion III should be covered properly to avoid cement coming out of mixing area (portion III)	Extra tarpaulin was placed on all sides of grouting area.	Completion as observed on 30-May-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	26
May 2012	0
Project-to-Date	26

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. 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;
- 10.0.4. 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.
- 10.0.5. 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.
- 10.0.6. 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.
- 10.0.7. 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.
- 10.0.8. 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.
- 10.0.9. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

am

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	 Marine Works Reclamation works and installation of sheet pile water channel (from CH170 to CH260) Rockfilling within HKCEC Water Channel (from CH220 to CH230) Installation of sheet pile water channel for cooling water intake at Dome Promenade between CH170 and CH240 Dredging from CH290 to CH410 (Stage 3) near Expo Drive East Bridge Installation pipe pile wall for modification of vertical seawall near Expo Drive East would be commenced upon completion of existing staircase demolition and removal of covered walkway. Rockfilling at northeast of Area 9 and Area7 near Expo Drive East Bridge Cross-Harbour Watermains Installation (CHA & CHB) Trench excavation and installation of shoring system for installation of cross harbour watermains (CHA & CHB) along the pipe pile wall at TST seashore Installation of cross-harbour watermains nos. A18/B18 Trust block construction, concrete coating for flange joint and Rockfilling protection works for cross-harbour watermains in Victoria Harbour Fresh Watermains, Cooling Watermains and Salt Watermains (On Land) Works would be continued at 	 To conform the installation and setting as in the silt screen deployment plan Frequency spray water on the dry dusty road and on the surface of concrete breaking To cover the dusty material or stockpile by impervious sheet To space out noisy equipment and position as far as possible from sensitive receiver. To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum Daily visual inspection of silt screen and silt curtain to ensure its operation properly

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



Contract No.	Key Construction Works	Recommended Mitigation Measures
	Zone B1-5A, B2-1, B4-3, B4-4,	
	B5-1A, A1-1, A1-3A, A1- 3B,	
	A1-3, A2-2, A3-3, A3-4B, A3-5B,	
	A4-1 and A4-2A	
	Mainlaying and road	
	reinstatement works at Zone	
	B4-4 and B1-5A	
	Trench excavation at Zone	
	B4-1A and the road	
	reinstatement works at Zone	
	B4-4	
	Jacking pit construction at Zone	
	A1-3B. Heading No. H6B (toward	
	western direction) and Heading	
	No. H6C (toward eastern	
	direction)	
	• Mainlaying works at Zone A2-2.	
	Valve connections for both	
	cooling mains intake pipe and	
	discharge pipe of APA and Shui	
	On Centre	
	Heading No. H6A (toward	
	eastern direction)	
	Heading No. H10 across the	
	run-out of Renaissance Harbour	
	View Hotel and mainlaying works	
	at Zone A4-2A	
	Mainlaying works at traffic island	
	near junction between	
	Convention Avenue and Fenwick	
	Pier Street	
	Heading Nos. H7 (Mainlaying	
	works by trenchless method)	
	Cable ducting works at Zone GA	
	(across Harbour Road)	
	Cable ducting works at Zone GS	
	(across Harbour Road)	



Contract No.	Key Construction Works	Recommended Mitigation Measures
	Cable ducting works at Zone GH	
	(along Harbour Road)	
HK/2009/02	Continue steel platforms (Wet	To cover the dusty material or
	Well) installation at +2.2mPD for	stockpile by impervious sheet;
	P7, P8 & P9 Pumping Stations.	 Frequency spray water on the dry dusty road and on the surface of
	Continue pipe jacking of WSD	concrete breaking
	2nd last drive.	To well maintain the mechanical aguinmente (machinerise to evoid
	Continue pipe laying works along	equipments / machineries to avoid abnormal noise nuisance and dark
	Harbour Road and Tonnochy	smoke emission
	Road.	 To conform the installation and setting as in the silt screen and silt
	Complete the steel bridge	curtain deployment plan
	erection crossing landside	Movable noise barrier shall be
	cofferdam of Salt Water Intake	deployed for demolition works
	Culvert for cooling mains	 Daily visual inspection of silt screen and silt curtain to ensure its
	installation.	operation properly
	Continue 800MS pipe installation	 Review silt screen deployment and silt curtain deployment and
	inside Ex-pet Garden.	resubmit associate plans to EPD
	Continue ABWFs & E&M works	Implement silt screen and silt
	of WSD Salt Water Pumping	curtain in accordance with the associated plans submitted to
	Station.	EPD.
	Continue pipeline jacking of salt	
	water intake culverts B.	
	Continue ELS works of landside	
	cofferdam for the construction of	
	Bay 6 – 10 salt water intake	
	culverts.	
	Continue ELS works of seaside	
	cofferdams for salt water intake	
	culvert, submarine outfall and	
	Box Culvert N1.	
	Complete breaking the thrust wall	
	aside the Jacking Pit.	
	Commence HDPE pipe Outfall A	
	& B launching from Jacking Pit at	
	WCR1 area.	
	Continue substructure works for	
	Continue substructure works for	

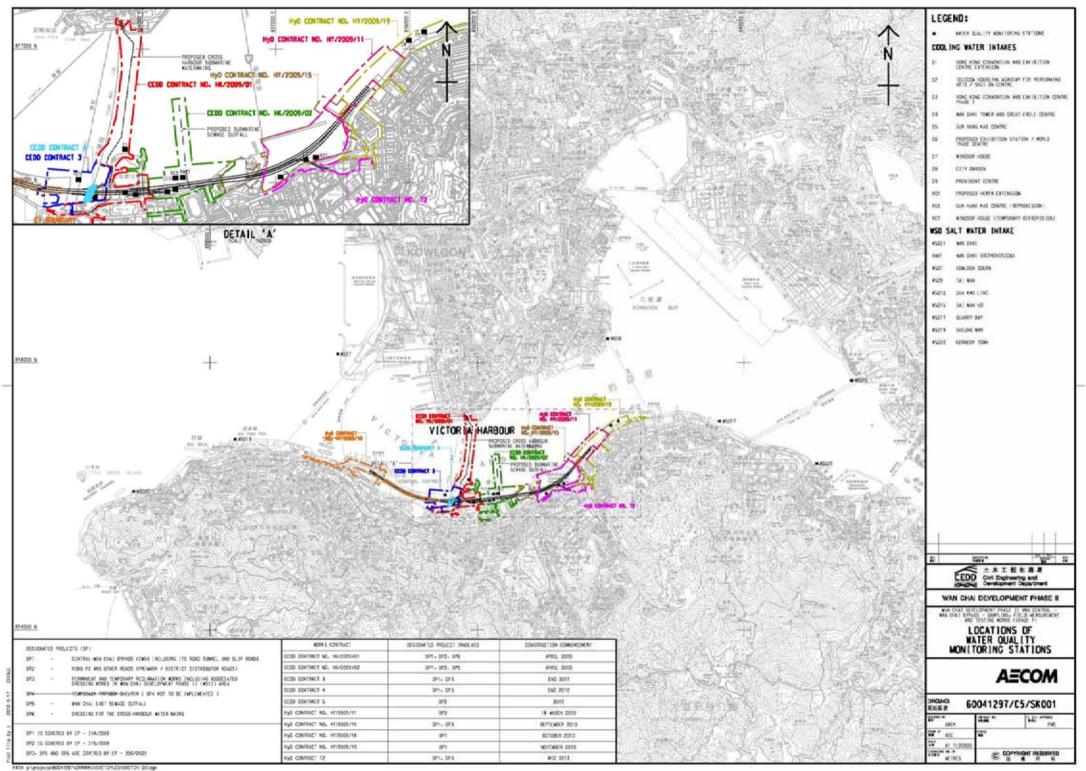


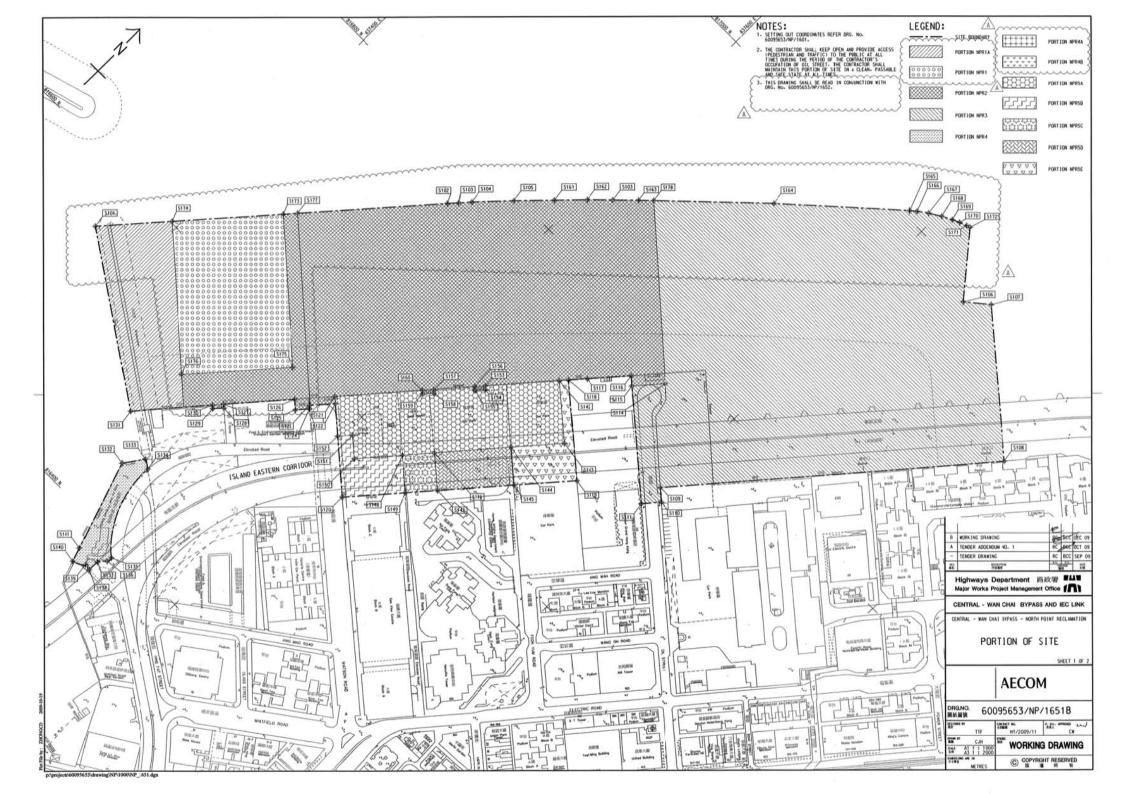
Contract No.	Key Construction Works	Recommended Mitigation Measures
	the New Ferry Pier at Portions	
	1A, 2A, 2B, 2C & 3C.	
	Complete the installation of	
	precast slab Panel between Grid	
	B-F/9-15 of the New Ferry Pier.	
	Complete backfilling rockfills for	
	the installed submarine outfall	
	pipes and diffuser section.	
	Continue reclamation works at	
	WCR2 area.	
	Completed remaining SHK piping	
	diversion at WCR2 area.	
	Side Beam remedial works and	
	reinstatement of carriageway for	
	Box Culvert O diversion.	
	Continue excavation works,	
	bulkhead wall construction and	
	seawall opening for Box Culvert	
	O diversion.	
	•	
HY/2009/15	Dredging for seawall foundation	Watering any dust generating
	at TS2	activities
	Seawall formation at TS2	Checking all drip trays frequently
	Removal of temporary	and clear any stagnant water and mud inside it.
	reclamation at TS1	 Noise control measures shall be
		provided during restricted hours.
HK/2010/06	Pile head breaking works	• To conform the installation and
	Sheet PilesConstruction of Pre-cast Unit in	setting as in the silt screen and silt
	China	curtain deployment planTo space out noisy equipment and
		position as far as possible from sensitive receiver.
		Daily visual inspection of silt screen and silt curtain to ensure its
		operation properly
HY/2009/19	Marine Bored Piling	• To conform the installation and setting as in the silt screen and silt curtain deployment plan

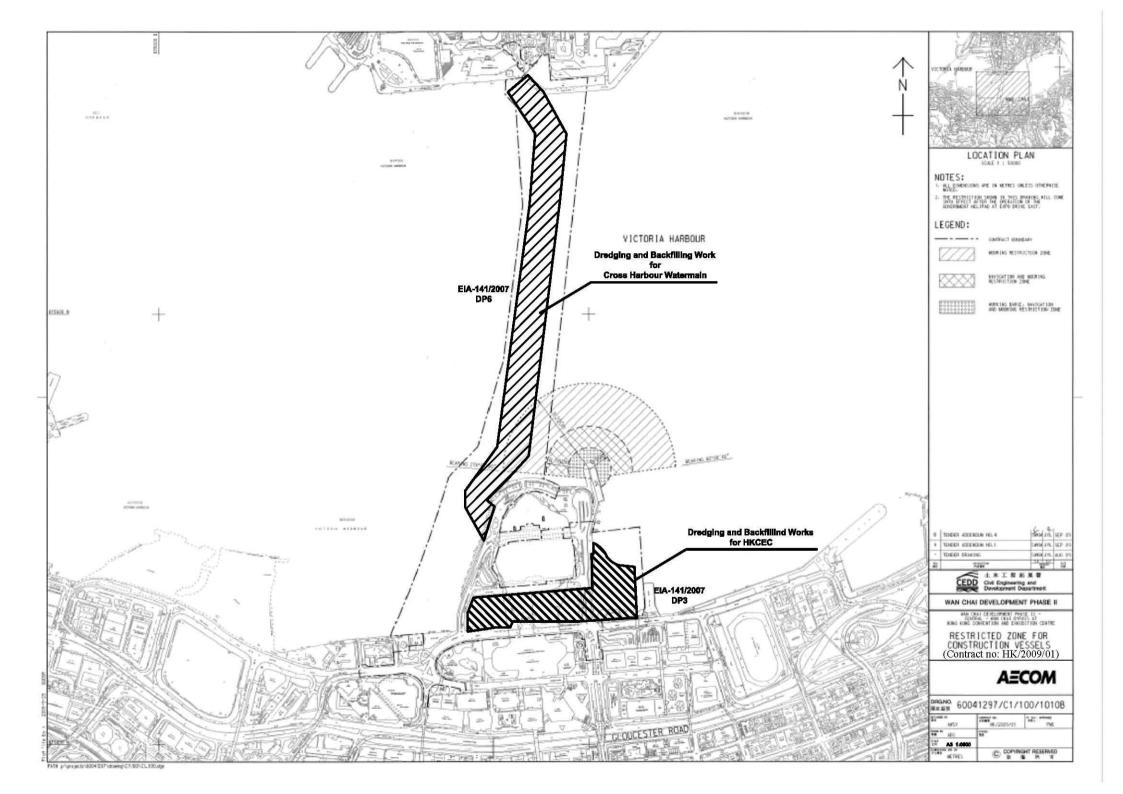


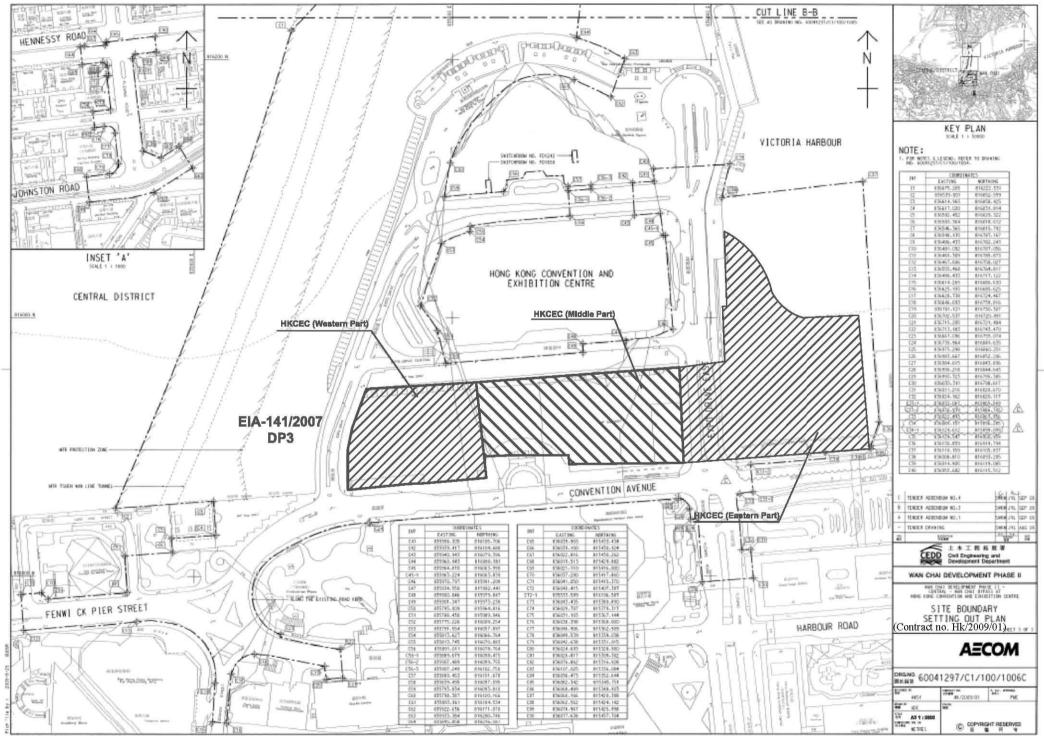
Figure 2.1

Project Layout

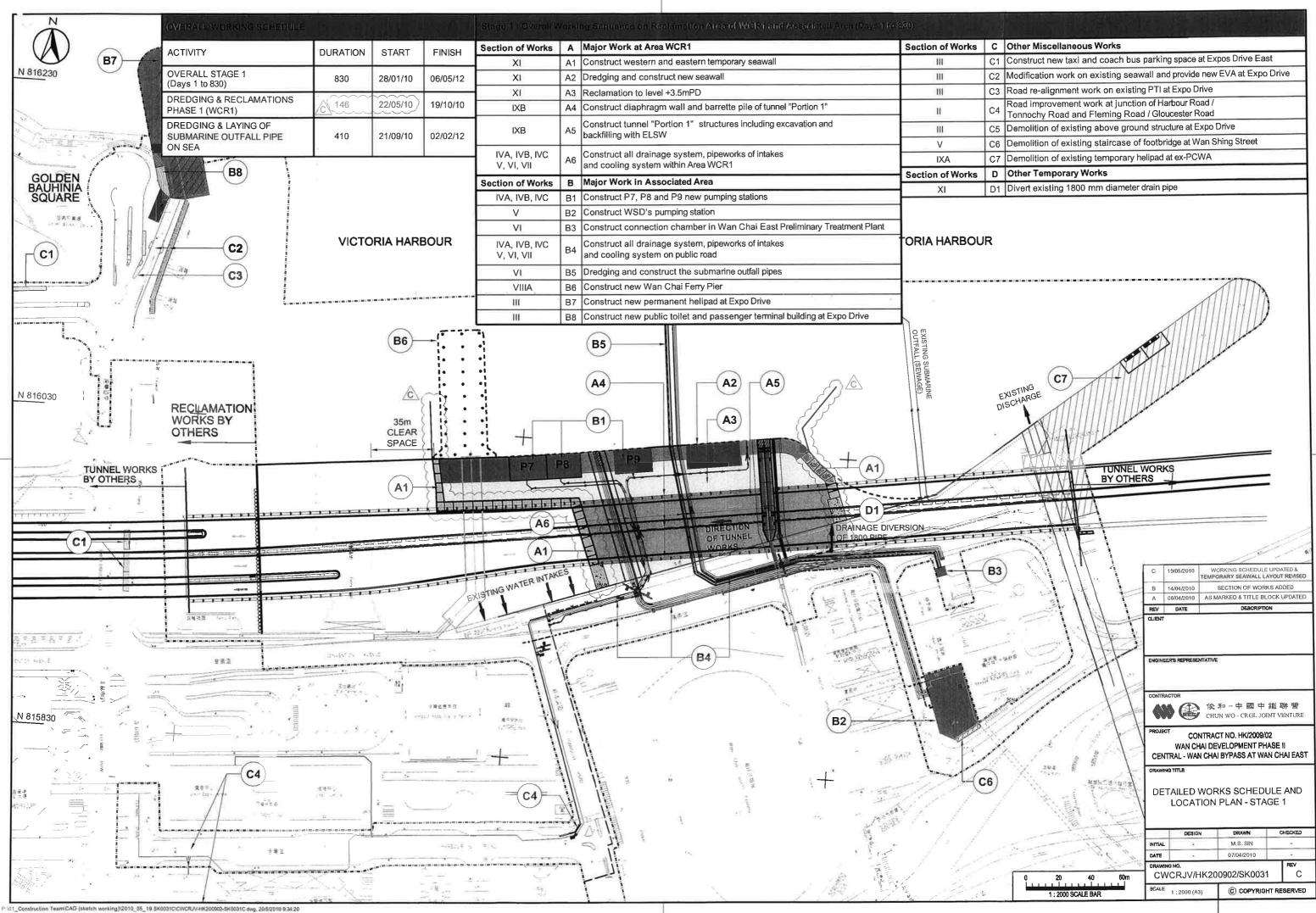




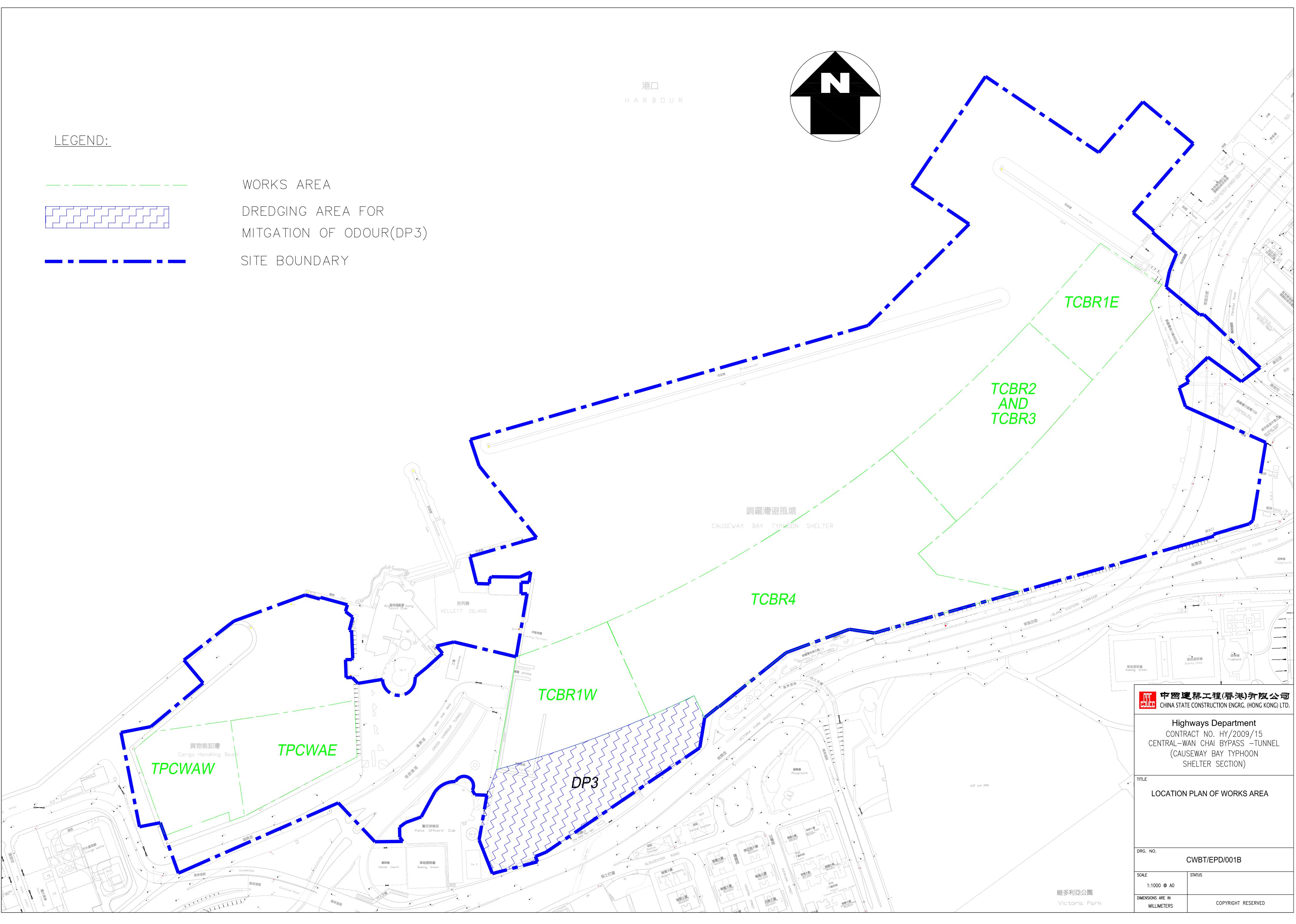


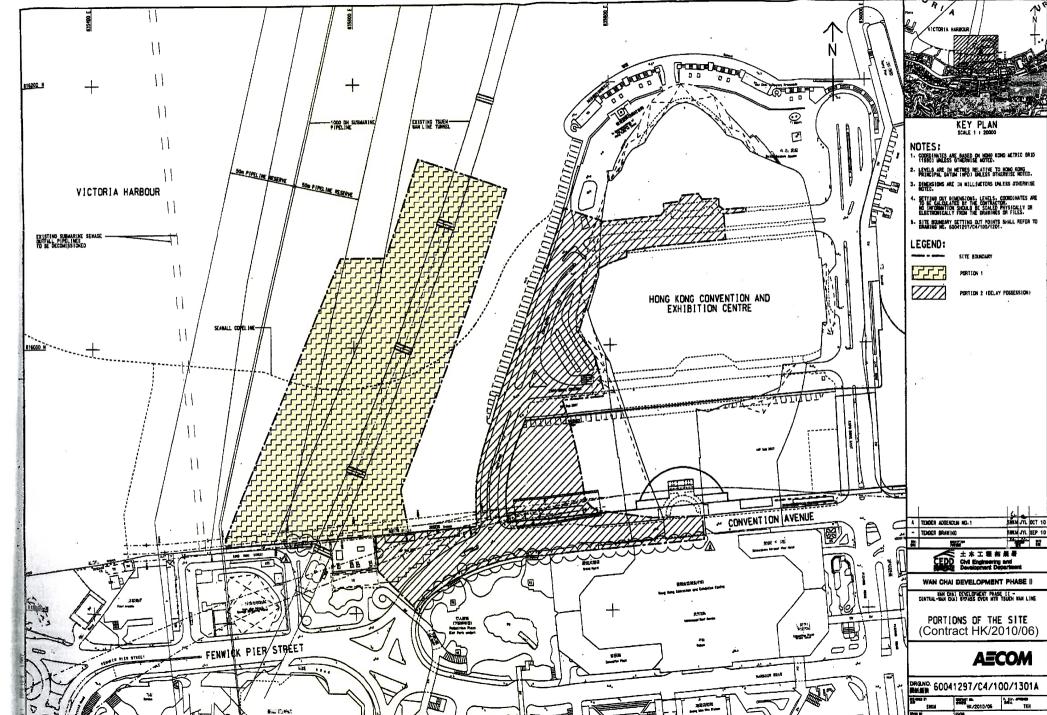


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С	Other Miscellaneous Works
C1	Construct new taxi and coach bus parking space at Expos Drive East
C2	Modification work on existing seawall and provide new EVA at Expo Drive
C3	Road re-alignment work on existing PTI at Expo Drive
C4	Road improvement work at junction of Harbour Road / Tonnochy Road and Fleming Road / Gloucester Road
C5	Demolition of existing above ground structure at Expo Drive
C6	Demolition of existing staircase of footbridge at Wan Shing Street
C7	Demolition of existing temporary helipad at ex-PCWA
D	Other Temporary Works
D1	Divert existing 1800 mm diameter drain pipe





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Figure 2.2

Project Organization Chart



Project Organization Chart

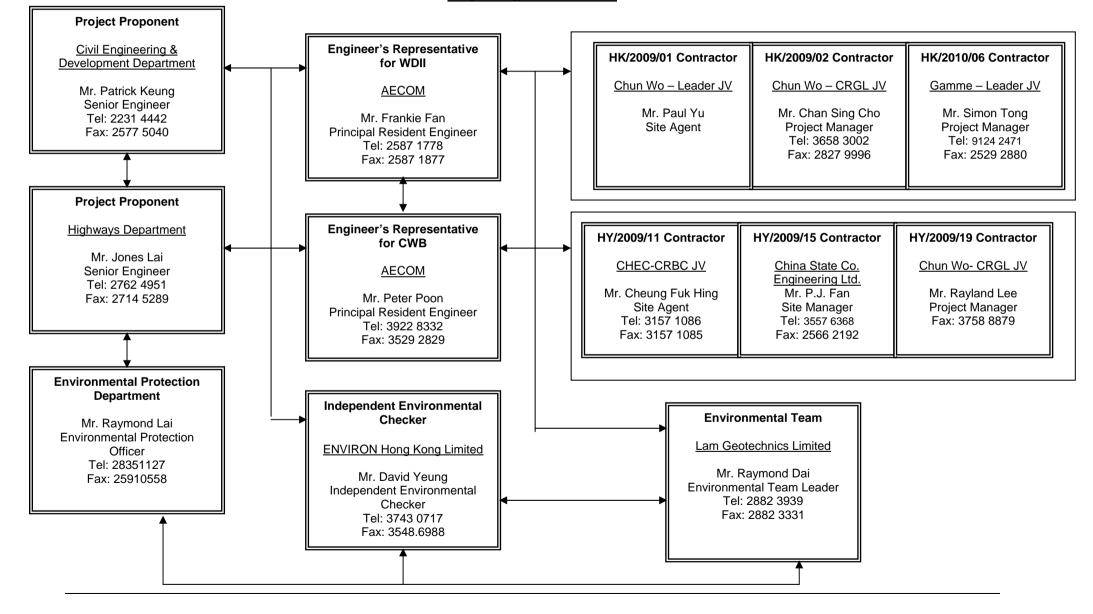
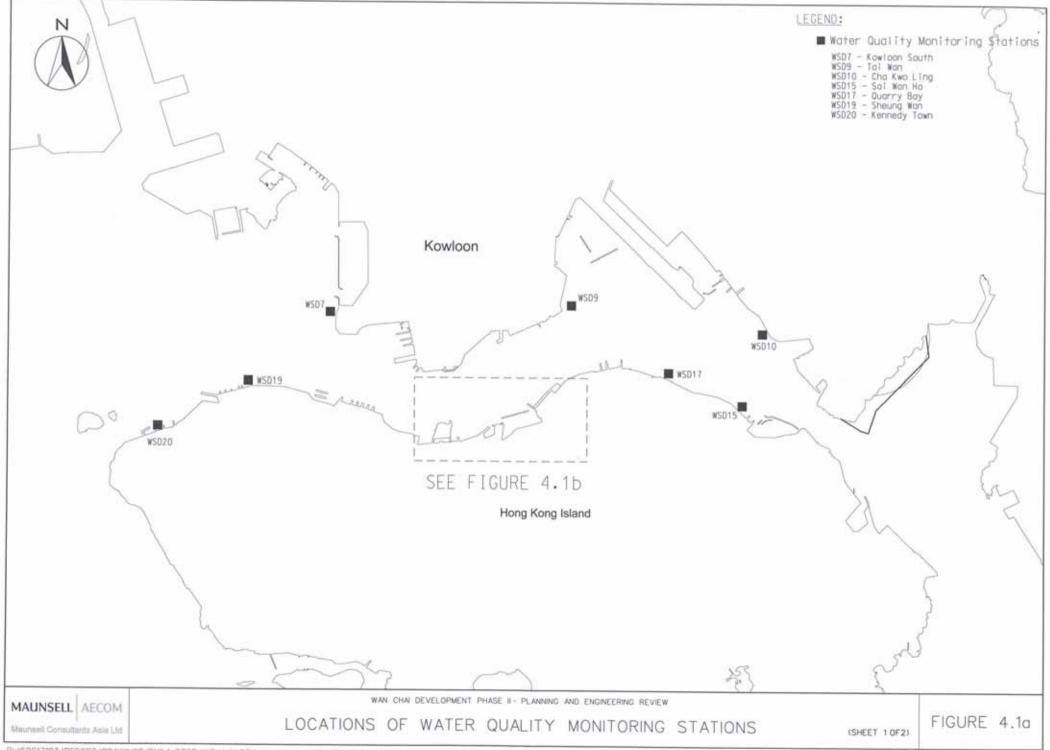




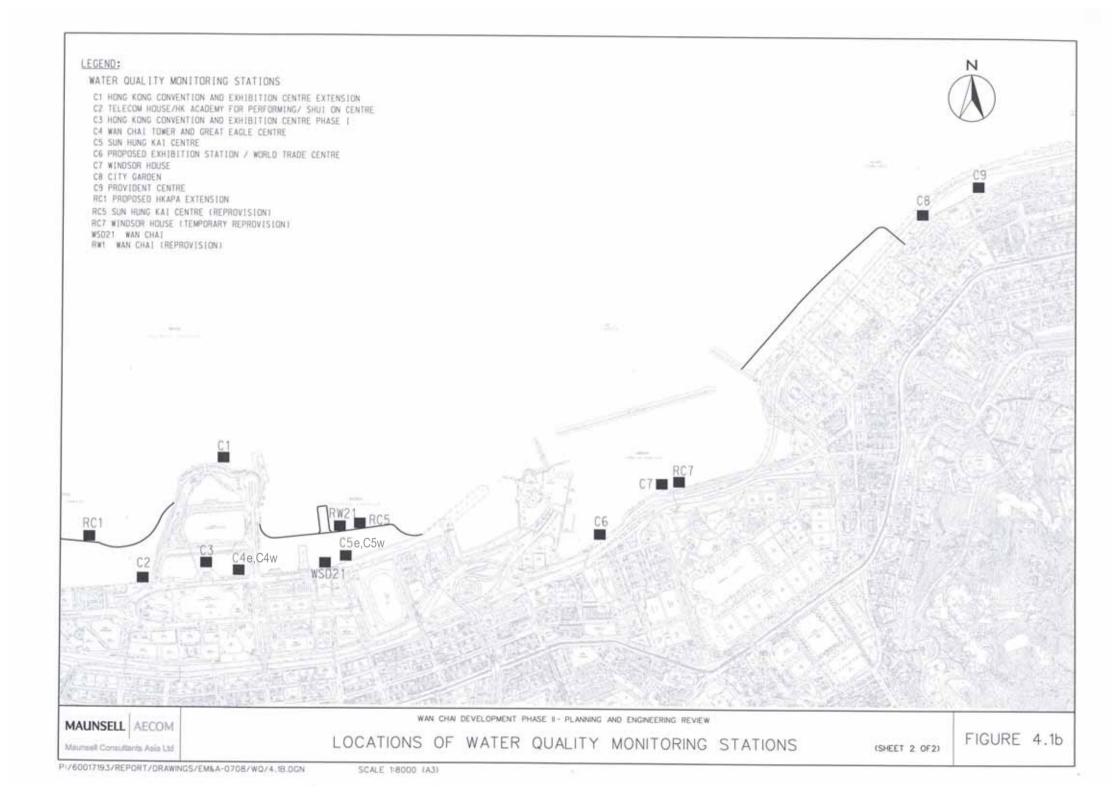
Figure 2.3

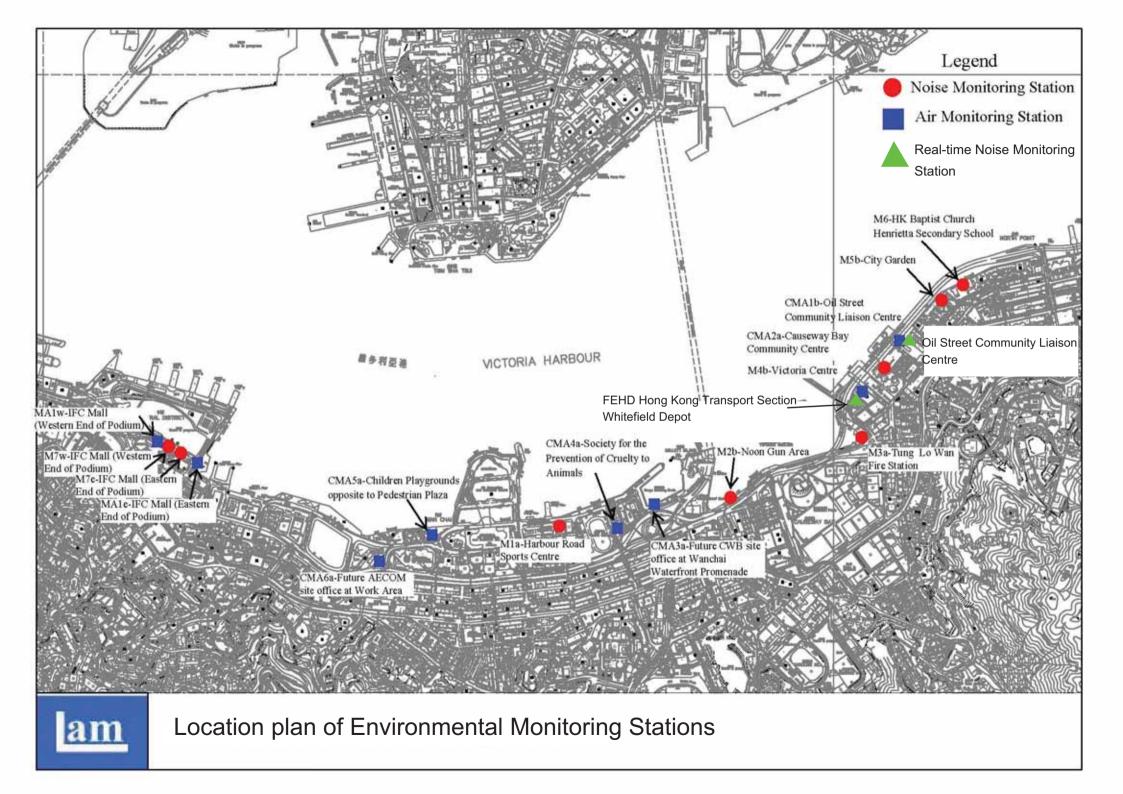
Locations of Monitoring Stations

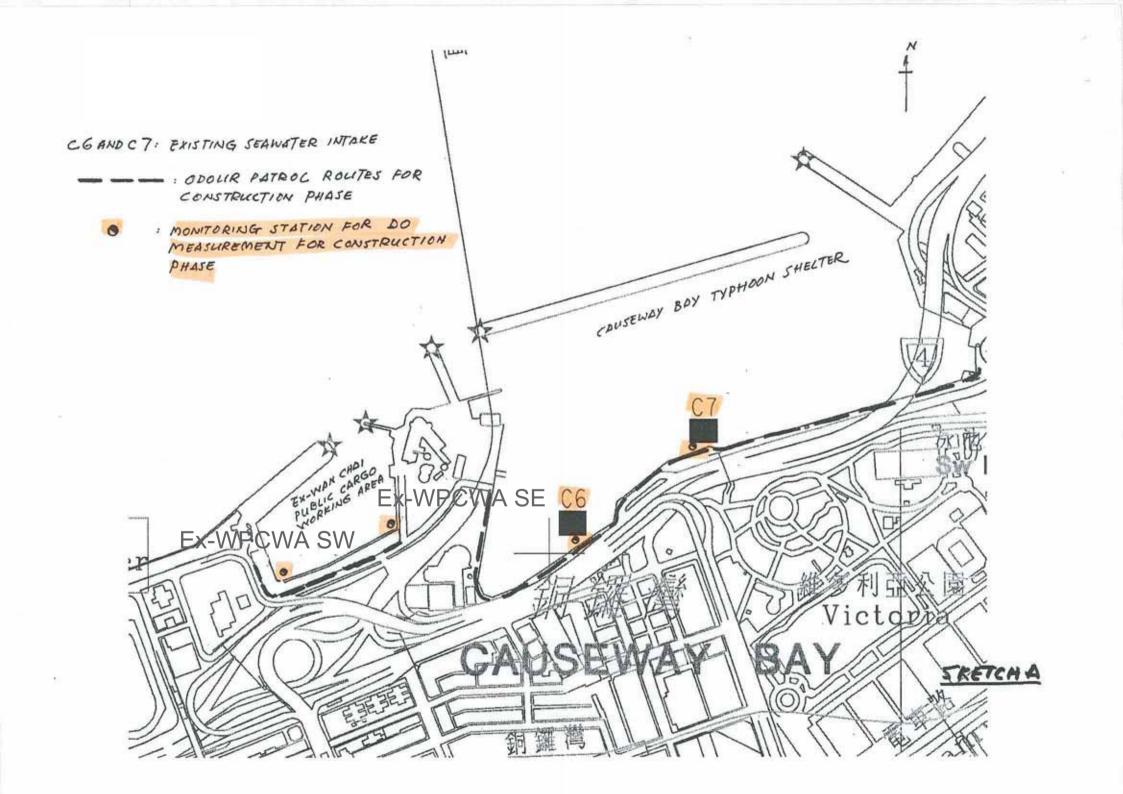


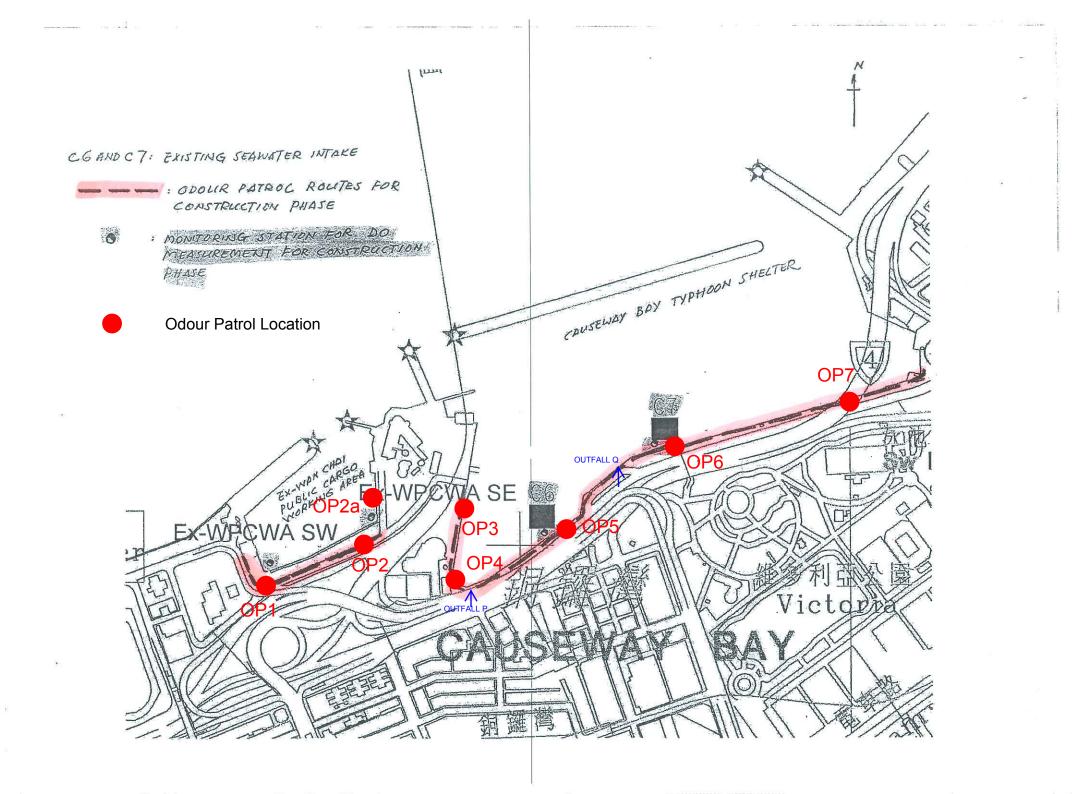
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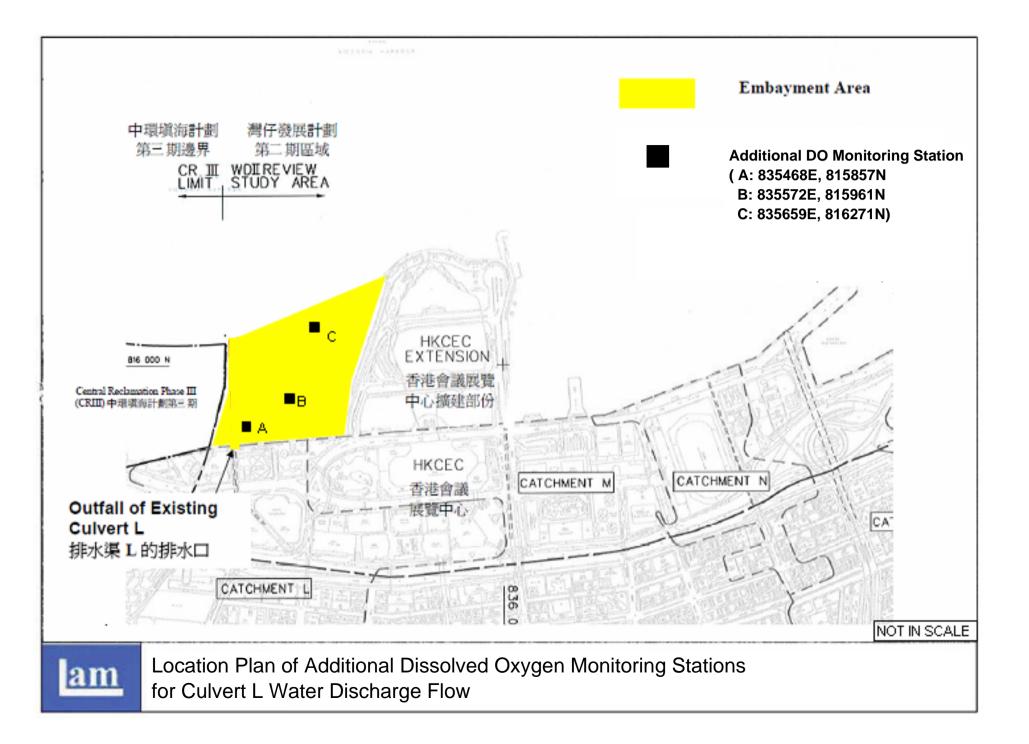
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Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Implementation	Schedule for Ai	r Quality Control
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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	С	0	Dec	and Guidelines
Constructio								
For the Wh								
\$3.6.5	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		V			

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation	
	Zivi omenu i receion irensu es / ringuion irenou es	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
S3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		1			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation 1	Phase	L						
For the Wh								

¹ CEDD will identify an implementation agent.

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	Implementation Stages*				Relevant Legislation
	Environmental Protection (vicasures / vinigation (vicasures		Agent	Des	С	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 on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 -	CWB (Within the Project Boundary)							
\$3.6.53 – \$3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

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

Appendix 3.1

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	1 .	entati ges*	on	Relevant Legislation and Guidelines		
EIA KU				Des	С	0	Dec			
Constructio	Construction Phase									
For the Whe	ole Project									

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	In	nplem Sta	entati ges*	Relevant Legislation	
Lintikei			Agent	Des	С	0	Dec	and Guidelines
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, 	Work Sites / During Construction	Contractor	Des	V	0	Dec	EIAO-TM, NCO
	 wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 							

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	 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
For DP2 –	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		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

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
Lintitei				Des	С	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)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor					EIAO-TM, NCO

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)

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

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	Implementation	In		entati ges*	on	Relevant Legislation
			Agent	Des	С	0	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 on the eastbound slip road to the IEC about 95m length of 3.5m high vertical noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project 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	1	√ √#	1		EIAO-TM

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	Acasures Location / Timing Implementatio		In	nplem Sta	entati ges*	on	Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	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					

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

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

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	•	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP.	1 - CW	B (within the Project
\$5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8	 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		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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)

EIA Ref	Environmental Protection Measures / I	Mitigation M	Acasures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
	Environmental Frotection freusares /	sincigation is	icusuics		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary rec typhoon shelter shall not be fully enclose		ithin the o	Causeway Bay	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the acc within the temporary embayment be impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The bar discharge flows from Culvert L to the contractor will maintain this barrier HKCEC2W are carried out and the new 0	etween CRII floating boor be erected b rier will ch e outside of until the	II and I m on the by the cor- nannel the the emb reclamati	HKCEC1, an water surface ntractor before he stormwater ayment. The ion works in	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Reclamation Area	m ³ per day (fo		Maximum Dredging Rate (m ³ per week)							
	Dredging along seawall or breakwater										
	North Point Shoreline Zone (NPR)	6,000	375	42,000							
	Causeway Bay TBW	1,500	94	10,500							
	Shoreline Zone TCBR	6,000	375 313	42,000							
	PCWA Zone	5,000	313	35,000							

Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref	Environmental Protection Measures /	Mitigatio	n Moasuros		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
EIA KU	Environmental Frotection Measures /	unigano	in wreasures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)	6,000	375	42,000							
	HKCEC Shoreline Zone HKCEC Stage 1 & 3 (HKCEC) HKCEC Stage 2	1,500	94 375	10,500 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 ³ per day shall be app seawall of WCR1.										
S5.8, Figure 5.3	Dredging along the seawall at WCF 1,500m ³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water man much as possible from further dredging	e western by partial k) to pro	seawall (wh seawall con	nich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	much as possible from further dredging activities. For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed aroun seawall dredging and seawall trench fi TCBR and NP.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt screens shall be applied to seawater as stated below: Interim Construction Stage Scenario 2A in early WSD saltway	pplicatio	ns	struction stages	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	2009 with concurrent Bay, Sheung dredging activities at Cooling wat	Wan, Wan er intakes	Chai, Kowloo for Hong Ko								

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Implementation Location / Implementation **Relevant Legislation** Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing Agent and Guidelines Des С 0 Dec TBW, NP and Water Convention and Exhibition Centre Phase I, Telecom Mains Zone House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre **Scenario 2B** 2009/2010 in late WSD saltwater intakes at Sheung Wan, Wan Chai with Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and concurrent dredging activities Sewage Windsor House. at Zone Pipelines and TCBR. Scenario 2C in 2011 with WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. concurrent dredging activities at HKCEC and Cooling water intakes for MTR South, Excelsion Hotel & World Trade Centre and reprovisioned TCBR. Windsor House. ProPECC PN 1/94; S5.8 Work site / Contractor $\sqrt{}$ Other mitigation measures include: WPCO (TM-DSS) During the mechanical grabs, if used, shall be designed and maintained to avoid ٠ construction spillage and sealed tightly while being lifted. For dredging of any period contaminated mud, closed watertight grabs must be used; all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material; construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and

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 /	Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	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		V			EIAO-TM, WPCO

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation	
		Timing	Agent	Des	С	0	Dec	and Guidelines	
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging 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>					WPCO	

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 /	Implementation	In		entati ges*	ion	Relevant Legislation
EIA KU	Environmental Procedon Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	ole Project							
\$5.8	Construction Runoff and Drainage	Work site	Contractor		\checkmark			ProPECC PN 1/94;
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						WPCO (TM-DSS)
	• Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;	1						
	 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 							

³ CEDD will identify an implementation agent.

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures		Implementation	In		entati ges*	Relevant Legislation	
LIITIKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	• Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase.							
\$5.8	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	<i>Floating Debris and Refuse</i> 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		\checkmark			WPCO

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 /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
LINKI	Environmental Protection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO
Operation	Phase							
	B (within the Project Boundary)				r		T	
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		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,							

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	Implementation Agent	In	nplem Stag		on	Relevant Legislation
				Des	С	0	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. 							

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

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

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Docution / Thining	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
\$6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
\$6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Implementation Implementation **Relevant Legislation** Stages* Environmental Protection Measures / Mitigation Measures EIA Ref Location / Timing and Guidelines Agent Des С 0 Dec S6.7.5 It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered 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 S6.7.6 quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.

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*	Relevant Legislation	
		Lookidon / Thining		Des	С	0	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. 							
\$6.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		V			

For the Whole Project

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
				Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		V			Waste Disposal Ordinance (Cap.354)

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		entati ges*	on	Relevant Legislation and Guidelines
Lintiter				Des	С	0	Dec	
S6.7.8	 Waste Reduction Measures Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 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. 							

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)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation and Guidelines
21111101			Agent	Des	С	0	Dec	
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$6.7.11	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		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

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	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines		
Lint Kei				Des	С	0	Dec			
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004		
S6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94		
	spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.									
	• If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.									
	 If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 									

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

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

Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Lint Kei	Environmental Protection Steasanes/ Stitigation Steasanes	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
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	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
S7.10	 During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: Excavation profiles must be properly designed and executed; In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Quantities of soil to be excavated must be estimated; It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. Temporary storage of soil at intermediate depot or on-site 	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

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*	Relevant Legislation	
				Des	С	0	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 3.1

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	In	nplem Sta	entati ges*	on	Relevant Legislation
2001000		g	Agent	Des	С	0	Dec	and Guidelines
	 <u>Air Quality Mitigation Measures</u> 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). 							

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		entati ges*	Relevant Legislation	
				Des	С	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 							
	within the mixing plant area.							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

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

Appendix 3.1

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

Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation
				Des	С	0	Dec	and Guidelines
Constructio	n Phase							
For the Who	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	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 – I	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/HyĐ	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

Implementation **Relevant Legislation** Implementation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing and Guidelines Agent Des С 0 Dec S.9.7.6 To minimize potential disturbance impacts on the foraging Work site during Contractor EIAO TM Annex 16 ardeid population in the CBTS, particularly in the area near the construction phase (Section 8.4) & EIAO A King Shipyard, appropriate mitigation measures shall be Guidance Note No. adopted particularly during the construction phase. The 3/2002 following measures are recommended: • Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible. Adoption of multiple-phase construction schedule. • General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented. S.9.7.7 Seawalls shall be constructed in advance around the Work site during EIAO TM Annex 16 Contractor $\sqrt{}$ reclamation areas within the area of the CBTS to screen (Section 8.4) & EIAO construction phase adjacent feeding ground from construction phase activities, Guidance Note No. reduce noise disturbance to the associated seabirds and also to 3/2002. restrict access to this habitat adjacent to works areas by ship traffic. S.9.7.8 Work site / during EIAO TM Annex 16 Loss of artificial seawall habitats shall be reinstated by the Contractor $\sqrt{}$ construction of about 1 km vertical wave absorbing seawall (Section 8.4) & EIAO construction phase along the coastlines of the new reclamation around the HKCEC Guidance Note No. and at North Point. The new seawalls are expected to provide 3/2002. large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.

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

Wan Chai Development Phase II and Central-Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 2)

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*			ion	Relevant Legislation and Guidelines
				0	Des	С	0	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	V	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	le 10.5 CM3 Trees unavoidably affected by the works shall be Work site / During Contractor transplanted where practical.		V	V			EIAO TM		
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	VB (With	in the Project Boundary)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

Appendix 3.1

Monthly EM&A Report

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 Implementation **Relevant Legislation** and Guidelines Agent Stages³ Des С 0 Dec Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor EIAO TM the surrounding setting Construction Phase For DP2 – WDII Major Roads (Road P2) CM1 Topsoil, where identified, shall be stripped and stored for Work site / During EIAO TM Table 10.5 Contractor $\sqrt{}$ $\sqrt{}$ re-use in the construction of the soft landscape works, Construction Phase where practical. Work site / During EIAO TM Table 10.5 CM2 Existing trees to be retained on site shall be carefully Contractor $\sqrt{}$ $\sqrt{}$ protected during construction Construction Phase Table 10.5 CM3 Trees unavoidably affected by the works shall be $\sqrt{}$ $\sqrt{}$ EIAO TM Work site / During Contractor transplanted where practical. Construction Phase Table 10.5 CM4 Compensatory tree planting V EIAO TM shall be provided to Work site / During Contractor $\sqrt{}$ compensate for felled trees. Construction Phase Table 10.5 CM5 Control of night-time lighting. EIAO TM Work site / During Contractor $\sqrt{}$ Construction Phase Table 10.5 Erection of decorative screen hoarding compatible with $\sqrt{}$ EIAO TM CM6 Work site / During Contractor the surrounding setting. Construction Phase For DP3 – Reclamation Works EIAO TM Table 10.5 CM5 Control of night-time lighting. Work site / During Contractor V Construction Phase Table 10.5 CM6 Erection of decorative screen hoarding compatible with Work site / During Contractor $\sqrt{}$ EIAO TM the surrounding setting Construction Phase For DP5 – Wan Chai East Sewage Outfall Refer to EIA-CM2 Minimisation of works areas Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13 Refer to EIA-CM3 Erection of decorative hoardings. Work site / During Contractor V EIAO TM 058/2001 Construction Phase Table 10.13

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	Stages* a			Relevant Legislation and Guidelines	
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP6 - Cros	ss-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			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							
	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	\checkmark	V	\checkmark		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	V	V	V		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

Image: Constraint of the section of	EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	In	Implementation Stages*			Relevant Legislation and Guidelines
Figure 10.5.1- 10.5.5 and associated structures. Design Stage and Operation Phases CEDD ⁴ V V Table 10.6, Figure 10.5.1- 10.5.5 OM4 Aesthetic design of proposed waterfront promenade. Design Stage and Operation Phases CEDD ⁴ V V						Des	С	0	Dec	
10.5.5Operation PhasesCEDD4Table 10.6, Figure 10.5.1- 10.5.5OM4Aesthetic design of proposed waterfront promenade. Proposed waterfront promenade.Work site / During Design Stage and Operation PhasesCEDD4Table 10.6, Figure 10.5.1- 10.5.5OM5Aesthetic streetscape design.Work site / During Design Stage and Operation PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic 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 PhasesCEDD/HyDTable 10.6, Figure 10.5.1- 10.5.5OM1Aesthetic design of buildings, subways, footbridges and noise barriers and enclosure.Work site / During Design Stage and Operation PhasesHyDTable 10.6, 	Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/					ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5 OM4 Aesthetic design of proposed waterfront promenade. Work site / During Design Stage and Operation Phases CEDD_	Figure 10.5.1-		and associated structures.	Design Stage and						
Figure 10.5.1- 10.5.5OM5Aesthetic streetscape design.Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM6Aesthetic design of roadside amenity areas.Work site / During Design Stage and Operation PhasesCEDD/HyD \checkmark \checkmark \checkmark Table 10.6, Figure 10.5.1- 10.5.5OM1Aesthetic design of buildings and road-related structures, 	10.5.5			Operation Phases						
10.5.5 Operation Phases Operation Phases Image: CEDD/HyD operation Phases V V Table 10.6, Figure 10.5.1- 10.5.5 OM6 Aesthetic streetscape design. Work site / During Design Stage and Operation Phases CEDD/HyD V V V 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 V V 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 V V Table 10.6, Figure 10.5.1- 10.5.5 OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure. Work site / During Design Stage and Operation Phases HyD √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed structures Work site / During Design Stage and Operation Phases HyD √ √ √ Table 10.6, Figure 10.5.1- 10.5.5 OM3 Buffer Tree and Shrub Planting to screen proposed roads Work site / During Design Stage and Operation Phases HyD √ √ √ 10.5	Гable 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	CEDD ⁴	\checkmark				ETWB TCW 2/2004
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Table 10.6, Figure 10.5.1- OM1 Los.5 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure. Work site / During Design Stage and Operation Phases HyD √	10.5.5			Operation Phases						
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10.5.5 Operation Phases Image: Constraint of the sector	Гable 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
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Table 10.6, OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt{-\sqrt$									1	
		OM6	Aesthetic design of roadside amenity areas.		HyD	\checkmark			1	ETWB TCW 2/2004
Figure 10.5.1- Design Stage and				Design Stage and	1				1	
10.5.5 Operation Phases Operation Phases				Operation Phases						

⁴ CEDD will identify an implementation agent

Contract no. HK/2011/07

Wan Chai Development Phase II and Central-Wanchai Bypass

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

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Implementation Stages*			Relevant Legislation and Guidelines
				_	Des	С	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	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		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		V	V		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	V		ETWB TCW 2/2004
For DP3 - Rec	lamation	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	CEDD ⁵	V	V	V		ETWB TCW 2/2004

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

⁵ CEDD will identify an implementation agent

Appendix 3.1



Appendix 4.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

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

Note 2:

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

- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet S	eason					
Falameter 5	Action	Limit	Action	Limit					
WSD Salt Water Intake									
SS in mg L ⁻¹	13.00	14.43	16.26	19.74					
Turbidity in NTU	8.04	9.49	10.01	11.54					
DO in mg/L	3.66	3.28	3.17	2.63					
Cooling Water Intak	(e								
SS in mg L ⁻¹	15.00	22.13	18.42	27.54					
Turbidity in NTU	9.10	10.25	11.35	12.71					
DO in mg/L	3.36	2.73	3.02	2.44					

Remarks:

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

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

Action and Limit Levels for Odour Patrol



Appendix 4.2

Copies of Calibration Certificates



Hong Kong Calibration Ltd. 普通校正有单句表

Calibration Certificate

Certificate No.	12888		Page 1 of 4 Pages					
Customer :	Lam Geotechnics Limited	ann a tha leanna Marainean ann an ann an ann ann ann ann ann a						
Address :	11/F., Centre Point, 181-185 (Sloucester Road, '	Wanchai, Hong Kong					
Order No. :	Q10982		Date of receipt	: 25-May-11				
Item Tested								
Description :	Precision Integrating Sound L	evel Meter						
Manufacturer :								
Model :	NL-14	·	Serial No.	: 10303242				
Test Conditi	ions							
Date of Test :	26-May-11		Supply Voltage	*.:				
Ambient Temp			Relative Humidi	ly : (50 ± 25) %				
Test Specifi	cations	maganatai akaa takta ta						
Calibration cher	dic. I							
	Procedure: Z01.							
Test Results		***************************************						
All mentile word	within the IEC 651 Type 1 or II	FC 804 Type 1 sn	ecilication after adjustn	nent:				
ekan kecara kerina ki	shown in the attached page(s)	generation of the base of the	where the second state of the s	196733364				
a sada a pada bahar dari da	and second side of the second s	· ·	·					
Main Test equip	oment used:							
Equipment No.	Description	Cert_No	× -	Traceable to				
S017	Multi-Function Generator	C101623	Ś	SCL-HKSAR				
S024	Sound Level Calibrator	04062	ž	VIM-PRC & SCL-HKSAR				
				e a constante de la constante d				
will not include allo overloading, mis-hi	his Calibration Certificate only relate wance for the equipment long term dri andling, or the capability of any other I rage resulting from the use of the equil	III, variations with envi- aboratory to repeat the	ronmental changes, vibration	and snock during transportation,				
	t used for calibration are traceable to I ply to the above Unit-Under-Test only		il Units (SI).					
Calibrated by	: Lan		Approved by :					
	P. F. Wong		na se	Alan Chu				
This Certificate is issued Hopy Kong Calibration ()	lui .		Date: 26-May-11					
	g Indussial Contro, No. 58-76. Ta Charles Ping Stee	at, Kiwak Chiling, INT Horig Kon	аў.:					
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	na n							



Calibration Certificate

Certificate No. 12888

Page 2 of 4 Pages

Results ;

1. SPL Accuracy

	UUT Setti	ng		Barrier and the provide the second	UUT Rea	
Level Range (dB)	Filter	Weight	Time Const.	Applied Value (dB)	Before adjust.	After adjust.
40 - 100	OFF	Lp	Fast	94.00		94,1
aliana ana 2001. Ila	1974-09 alas 1	Lps	Past		*95.0	94.1
		Ń	Slow		1.**	94.1
		Lpc	Fast	r Manageria (1996)		94,1
60 120	OFF	1p	Fast	94.00	an a	94,1
and a final sector of the sect	in the second	Lpa	Past	n di di seren te	2) T <u>5</u>	94.0
		ء بريد بريد بيني	Slow	a di Alia Alia		94,0
		LpC	Fast		877	94.0
60-120	OFP	$\mathbf{L}_{\mathbf{p}}$	Fast	114:00		114.0
		LpA	Fast	n en orden den de de la composition de la compos		113.9
			Slow			113.9
		L_{PC}	Fust	:	······································	113.9

55

1999) 1999

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IEC 651 Type I Spec. : \pm 0.7 dB Uncertainty : \pm 0.2 dB

 Level Stability : 0.1 dB IEC 651 Type 1 Spec. : ± 0.3 dB Uncertainty : ± 0.01 dB

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Hong Kong Calibration Ltd. 香港校正市底公司

Calibration Certificate

Certificate No. 12888

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

ULIT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	113.9	-0.1	± 0.7 dB
130	104.0	103.8	-0.2	
120	94.0	94.0 (Ref.)	: يېمر	
110	84.0	83.9		
100	74.0	74.1	+0,1	
90	64.0	64.1	₩0.1	
80	54.0	54.3	+0.3	a de la companya de la companya de la completación de la completación de la completación de la companya de la c

Uncertainty : ± 0.1 dB

3.2 Differential level linearity

UUT Range	Applied	UUT Reading		
(dB)	Value (dB)	(dB)	Variation (dB)	IEC 651 Type 1 Spee.
120	84.0	84.0	0.0	$\pm 0.4 \mathrm{dB}$
	94.0	94.0 (Ref.)		
	95.0	95.0	0.0	± 0.2 dB

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

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.0	- 39.4 dB, ± 1.5 dB
63 Hz	-25.9	- 26.2 dB, ± 1.5 dB
125 Hz	-15.9	$-16.1 \text{ dB}, \pm 1 \text{ dB}$
250 Hz	-8,4	$-$ 8.6 dB, ± 1 dB
500 Hz	-3.0	$-3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	$0 dB, \pm 1 dB$
2 kHz	-+1.3	$+$ 1.2 dB, ± 1 dB
4 kHz	+0.8	$+ 1.0 dB, \pm 1 dB$
8 kHz	~1,3	- 1.1 dB, + 1.5 dB3 dB
l6 kHz	-7.1	- 6.6 dB, $+ 3 dB\infty$

Uncertainty : ± 0.1 dB

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Certificate No. 12888

Page 4 of 4 Pages

ER.

5. Time Averaging

(Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
A or hand a state of the second	continuous	40,0	40.0	
4442270	1/10		399	± 0.5 dB
- Arekener	1/10*	40.0	39.6	
darmine and	Michael Marine	40.0	392: 	± 1.0 dB
	1/10*	40.0	39,4	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

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

-- END ---

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and a second second

āž.,

- 3. Atmospheric Pressure : 1 004 hPa.
- 4.*Out of Specification





Calibration Certificate

Certificate No.	12889		Page 1	of 2 Pages
Customer :	Lam Geotechnics Limited			
Address :	11/F., Centre Point, 181-185	Gloucester Road,	Nanchai, Hong Kong	
Order No. :	Q10982		Date of receipt :	25-May-11
Item Tested	verser vers berry , i to see the monoral second and defen		·····	
Description :	Sound Level Calibrator			
Manufacturer :	Rion			
Model :	NC-73		Serial No.	10465798
Test Conditi	ons			
Date of Test :	26-May-11		Supply Voltage :	参考
Ambient Temp			Relative Humidity :	and the second
Test Specifi	a na serie de la companya de la comp			
Calibration che	n de la construcción de la constru Maria			
	/Procedure : F21, Z02.			:
	a tharacterized a set formare			an a
······································	an An an	an dan dalam kata dan atala dan dalam da dalam da dalam da dalam da		
Test Result				
All results were	within the manufacturer's spo	ecification after adju	istment,	
	shown in the attached page(international de la companya de la c		
Main Test equi	pment used:			. : :
Equipment No.	Description	<u>Cert_No</u>		eable to
S014	Spectrum Analyzer	03926	NIM	-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM	-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL	-HKSAR
S206	Sound Level Meter	04462	SCL	HKSAR
	. *			
The visition share I	n this Calibration Certificate only rela	te të the values measu	ert at the time of the test and any	uncertainties moted
will not include allo	wance for the equipment long term	drift, variations with envi	conmental changes, vibration and	I shock during transportation.
	andling, or the capability of any othe tage resulting from the use of the ec		e measurement. Hong Kong Cal	ibration Ltd. shall not be liable
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- 「「「「「「」」」」 「「」」 「「」」 「「」」 「「」」 「」」 「」」	n used for calibration are traceable to ply to the above Unit-Under-Test on		(Units (SI)	
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17 m tota mar it to an	an a		Approved by :	
Calibrated by	P. F. Wong			n Chù
This Circlinate is issued	in the state of the second		Alar Date: 26-May-11	
Hong Kong Calibration I	.kck	n an		
Unit 6B, 24/F Viall For Tel: 2425 8801 Fax: 24	g Industrial Contre, Ho. 58-76, Ta Choim Ping S 125 6646 (tind, Kwai Ching, NT, Hord Ho	1	

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Certificate No. 12889

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

	and a list we were set to be a set of the se	Karaka and a start.	1
· · · · · · · · · · · · · · · · · · ·	a share a shar		
		이 잘 수 있는 것을 수 있는 것을 해야 할 수 있는 것을 수 있는 것을 수 있다.	

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

	*		
The second s			
	 		
	Sheet thinks an an an and the way was the se		
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		a the first second of the second s	

Uncertainty: ±0.1 %

3. Level Stability : 0.0 dBUncertainty : $\pm 0.01 \text{ dB}$

Total Harmonic Distortion : < 0.5 % Mír's Spec. : < 3 %

Uncertainty: ± 2.3 % of reading

Remark : 1, UUT : Unit-Under-Test

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

END -----

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Calibration Certificate

Certificate No.	13813		Page	1 of 4 Pages
Customer :	Lam Geotechnics Limited			
Address :	11/F., Centre Point, 181-185 Glou	ucester Road, Wand	chai, Hong Kong	
Order No. :	Q11569		Date of receipt	: 7-Jul-11
Item Tested				
Description :	Sound Level Meter			
Manufacturer :	B&K			
Model :	2250		Serial No.	: 2722310
Test Conditi	ons			
Date of Test :	8-Jul-11		Supply Voltage	• :
Ambient Temp	erature: (23 ± 3)°C		Relative Humid	lity: (50 ± 25) %
Test Specific	cations			
Calibration chec	k.			
Ref. Document/	Procedure: Z01.			
Test Results	3	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
All results were	within the IEC 651 Type 1, IEC 80)4 Type 1 & IEC 126	60 Class 1 speci	fication.
The results are	shown in the attached page(s).			
Main Test equip	oment used:			
Equipment No.	Description	Cert. No.		Traceable to
S017A	Multi-Function Generator	07279		SCL-HKSAR
S024	Sound Level Calibrator	04062		NIM-PRC & SCL-HKSAR

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

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

Calibrated by P. F. Wong

Approved by Dorothy Cheuk

Date: 8-Jul-11

This Certificate is issued by: Hong Kong Calibration Ltd.

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

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Page 2 of 4 Pages

Results :

1. SPL

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

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

 Level Stability : 0.0 dB IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB

3. Linearity

Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.8	0.0	$\pm 0.4 \text{ dB}$
	94.0	93.8 (Ref.)		
	95.0	94.8	0.0	± 0.2 dB

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



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Certificate No. 13813

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 1.5 dB
63 Hz	-26.6	- 26.2 dB, ± 1.5 dB
125 Hz	-16.5	$-16.1 dB, \pm 1 dB$
250 Hz	-9.0	- 8.6 dB, ± 1 dB
500 Hz	-3.5	$- 3.2 \text{ dB}, \pm 1 \text{ dB}$
1 kHz	0.0 (Ref)	$0 dB, \pm 1 dB$
2 kHz	+1.4	$+ 1.2 dB, \pm 1 dB$
4 kHz	+1.2	$+$ 1.0 dB, \pm 1 dB
8 kHz	-1.2	- 1.1 dB , + $1.5 \text{ dB} \sim -3 \text{ dB}$
16 kHz	-5.8	$- 6.6 \text{ dB}, + 3 \text{ dB} \sim -\infty$

 $Uncertainty:\pm 0.1 \ dB$

5. Time Averaging

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

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



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Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

6.2 1/3 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric pressure : 1 000 hPa.

----- END -----

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Calibration Certificate

Certificate No.	13784		Page	1 of 4 Pages
Customer :	Lam Geotechnics Limited			
Address :	11/F., Centre Point, 181-185 Gld	oucester Road, War	nchai, Hong Kong	J
Order No. :	Q11569		Date of receipt	: 6-Jul-11
Item Tested	······································			
Description :	Sound Level Meter			
Manufacturer :	B&K			
Model :	2250		Serial No.	: 2722311
Test Conditi	ons			ан төстүүн 24.6 м.
Date of Test :	6-Jul-11		Supply Voltage	9
Ambient Temp	erature: (23 ± 3)°C			tity : (50 ± 25) %
Test Specifi	cations	<u></u>		
Calibration chec Ref. Document/	sk. Procedure: Z01.			
Test Results	3	999-Lt		,
All results were	within the IEC 651 Type 1, IEC 8	04 Type 1 & IEC 12	60 Class 1 specif	fication
	shown in the attached page(s).			
Main Test equip	oment used:		•	
Equipment No.	Description	<u>Cert. No.</u>		Traceable to
S017	Multi-Function Generator	C101623		SCL-HKSAR
S024	Sound Level Calibrator	04062		NIM-PRC & SCL-HKSAR

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

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

EV. Calibrated by Approved by P. F. Wong Dorothy Cheuk This Certificate is issued by: Date: 6-Jul-11 Hong Kong Calibration Ltd. Unit 88, 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.

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Certificate No. 13784

Page 2 of 4 Pages

Results :

1. SPL

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

IEC 651 Type 1 Spec. : \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 dB

3. Linearity

Differential level linearity

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

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



Hong Kong Calibration Ltd. 香港校正_{有限公司}

Calibration Certificate

Certificate No. 13784

Page 3 of 4 Pages

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.8	- 39.4 dB, ± 1.5 dB
63 Hz	-26.5	$-26.2 \text{ dB}, \pm 1.5 \text{ dB}$
125 Hz	-16.5	- 16.1 dB, ± 1 dB
250 Hz	-9.0	- $8.6 dB, \pm 1 dB$
500 Hz	-3.5	- $3.2 dB, \pm 1 dB$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1 \text{ dB}$
2 kHz	+1.1	$+ 1.2 \text{ dB}, \pm 1 \text{ dB}$
4 kHz	+1.1	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.3	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.9	$- 6.6 \text{ dB}, + 3 \text{ dB} \sim -\infty$

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

5. Time Averaging

.....

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

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

0.1



Hong Kong Calibration Ltd. 香港校正_{有限公司}

Calibration Certificate

Certificate No. 13784

Page 4 of 4 Pages

6. Filter Characteristics

6.1 1/1 – Octave Filter

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

Uncertainty : $\pm 0.25 \text{ dB}$

6.2 1/3 – Octave Filter

Frequency	Attenuation (dB)	IEC 1260 Class 1 Spec.(dB)
326 Hz	-64.9	<- 61
530 Hz	-48.1	< - 42
772 Hz	-23.6	<- 17.5
891 Hz	-3.9	+ 0.3 ~ - 5.0
1 kHz (Ref)		no 14
1.122 kHz	-3.9	+ 0.3 ~ - 5.0
1.296 kHz	-23.7	<- 17.5
1.887 kHz	-48.8	< - 42
3.070 kHz	-70.4	<- 61

Uncertainty : $\pm 0.25 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric pressure : 996 hPa.

----- END -----

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1 1



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MR MANSON YEUNG
CLIENT:	LAM GEOTECHNICS LIMITED
ADDRESS:	11/F., CENTRE POINT,
	181–185 GLOUCESTER ROAD,
	WAN CHAI. HONG KONG

WORK ORDER:	HK1205547
LABORATORY:	HONG KONG
DATE RECEIVED:	28/02/2012
DATE OF ISSUE:	05/03/2012

PROJECT:

COMMENTS

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

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	YSI Pro Plus multimeter
Brand Name:	YSI
Model No.:	YSI Professional Plus
Serial No.:	11H100476
Equipment No.:	
Date of Calibration:	05 March, 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 11/F Chung Shun Knitting Centre 1–3 Wing Yip Street Kwai Chung HONG KONG

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

Godfrey Mr Chan Kwok Fai. Laboratory Manager - Hong Kong

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Work Order:
Date of Issue:
Client:

HK1205547 05/03/2012 LAM GEOTECHNICS LIMITED



Description: Brand Name: Model No.: Serial No.: Equipment No.: Date of Calibration:	YSI Pro Plus multimeter YSI YSI Professional Plus 11H100476 05 March, 2012	Date of next Calibration:	05 June, 2012
Parameters:			
Dissolved Oxygen	Method Ref: APHA (21st edition Expected Reading (mg/L) 6.72 7.29 8.75	on), 4500O: G Displayed Reading (mg/L) 6.65 7.20 8.64 Tolerance Limit (±mg/L)	Tolerance (mg/L) -0.07 -0.09 -0.11 0.20
pH Value	Method Ref: APHA (21st edition Expected Reading (pH Unit) 4.0 7.0 10.0		Tolerance (pH unit) -0.01 0.01 -0.02 0.20
Salinity	Method Ref: APHA (21st editi Expected Reading (ppt) 10.0 20.0 30.0	on), 2520B Displayed Reading (ppt) 9.94 20.01 29.93 Tolerance Limit (±%)	Tolerance (%) -0.6 0.1 -0.2 10.0
Temperature		rnational Accreditation New Zeala larch 2008: Working Thermomete	r Calibration Procedure.

dalae no. 5 Second califor March 2000, Working Thermometer calibration Procedurer					
Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)			
12.0	11.5	-0.5			
22.0 31.0	21.3 30.3	-0.7 -0.7			
Tolerance Limit (°C) 2.0					

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd



ALS Technichem (HK) Pty Ltd

REPORT OF EOUIPMENT PERFORMANCE CHECK/CALIBRATION

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

HK1204240
HONG KONG
13/02/2012
17/02/2012

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:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100P
Serial No.:	000032935
Equipment No.:	
Date of Calibration:	16 February, 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.

Fax:

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

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

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

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

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Work Order: Date of Issue: Client: HK1204240 17/02/2012 LAM GEOTECHNICS LIMITED



Description:	Turbidimeter		
Brand Name:	НАСН		
Model No.:	2100P		
Serial No.:	000032935		
Equipment No.:			
Date of Calibration:	16 February, 2012	Date of next Calibration:	16 May, 2012
Parameters:			

Parameters:

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
0	0.34		
4	4.30	7.5	
40	42.6	6.5	
80	84.9	6.1	
400	415	3.8	
800	857	7.1	
	Tolerance Limit (±%)	10.0	

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental



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

WORK ORDER:	HK1207574
LABORATORY:	HONG KONG
DATE RECEIVED:	20/03/2012
DATE OF ISSUE:	24/03/2012

PROJECT:

COMMENTS

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

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

Scope of Test:	Turbidity
Description:	Turbidimeter
Brand Name:	HACH
Model No.:	2100Q
Serial No.:	11080C011942
Equipment No.:	
Date of Calibration:	21 March, 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 11/F Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung HONG KONG

Phone: Fax: Email:

852-2610 1044 852-2610 2021 hongkong@alsglobal.com

Mr Chak Kwok Fai, Godfrey Laborator Manager - Hong Kong

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Work Order: Date of Issue: Client: HK1207574 24/03/2012 LAM GEOTECHNICS LIMITED



Description:	Turbidimeter		
Brand Name:	НАСН		
Model No.:	2100Q		
Serial No.:	11080C011942		
Equipment No.:			
Date of Calibration:	21 March, 2012	Date of next Calibration:	21 June, 2012

Parameters:

Turbidity		Method Ref: APHA 21st Ed. 2130B						
	Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)					
		8						
	0	0.14						
	4	4.24	6.0					
	40	41.9	4.8					
	80	87.1	8.9					
	400	431	7.8					
	800	861	7.6					
		Tolerance Limit (±%)	10.0					

Mr Chan Kwok Fai, Godfrey Laboratory Manager – Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental



TISCH ENVIRÖMENTAL; INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, OH 45002 513,467,9000 877,263,7610 TOLL FREE 513,467,9009 FAX WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ju Operator	l 11, 201) Tisch	Rootsmeter Orifice I.I		438320 0005	Ta (K) - Pa (mm) -	298 749.3
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3710 0.9730 0.8690 0.8300 0.6860	3.2 6.4 7,9 8.8 12.8	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	· · · · · · · · · · · · · · · · · · ·	Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9690	G.7160 1.0046 1.1225 1.1739 1.4126	$\begin{array}{c} 1.4042 \\ 1.9859 \\ 2.2203 \\ 2.3286 \\ 2.8084 \end{array}$		0.9957 0.9915 0.9894 0.9882 0.9882	0.7263 1.0190 1.1385 1,1907 1.4328	0.8919 1.2513 1.4101 1.4790 1.7837
Qstd slop intercep coefficia y axis =	t (b) = ent (r) =	2.01593 -0.03978 0.99999 Pa/760)(298/		Qa slop intercept coeffict y axis =	t (b) =	1.26234 -0.02526 0.99999 Ta/Pa)]

CALCULATIONS

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

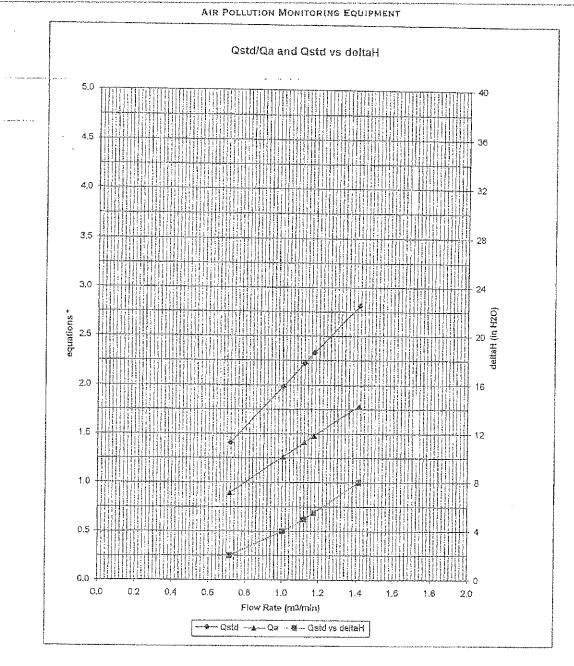
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H20(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT(H20(Ta/Pa)] - b\}$



TISCH ENVIROMENTAL, INC. 145 SOUTH MIAMI AVE. VILLAGE OF CLEVES, 0H 45002 513.467.9000 877.263.7610 toll, free 513.467.9009 fax WWW.TISCH-ENV.COM



* y-axis equations: Qstd series:

Qa series:

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

H0005



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	Calbration Date	17-Apr-12
Equipment no.	:	EL380	Calbration Due Dat :	17-Jun-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		298		Kelvin	Kelvin Pressure, P a 1015 m			mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, b	-0.03	978
Last Calibration Date		11-Jul-1	1		(HxI	P _a / 101	3.3 x 298	$(T_a)^{1/2}$	
Next Calibration Date		11-Jul-1	2		=	m _c x	$Q_{std} + b_{d}$;	
Calibration of RSP									
Calibration	Manometer Reading			G) _{std}	Continu	ious Flow	IC	
Point	H (inches of water)		(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x298	3/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(C	FM)	Y-axi	s
1	6.1	6.1	12.2	1.1	7538		57	57.047	78
2	4.9	4.9	9.8	1.	5739		52	52.043	36
3	3.7	3.7	7.4	1.3	3703		45	45.037	77
4	2.4	2.4	4.8	1.1	1074		35	35.029	93
5	1.5	1.5	3.0	0.8	8796		27	27.022	26
By Linear Regression of	Y on X								
	Slope, m	=	34.9	050	Int	ercept, b	=	-3.4321	_
Correlation Co	Correlation Coefficient* = 0.9989								
Calibration	Accepted	=	Yes/	No ^{**}					

** Delete as appropriate.	
---------------------------	--

Remarks :						_
Calibrated by	:	Sam Lam	Checked by	:	Derek Lo	—
Date	:	17-Apr-12	 Date	:	17-Apr-12	_



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	17-Apr-12
Equipment no.	:	EL390	Calbration Due Dat :	17-Jun-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		528		Kelvin Pressure , P _a				1015	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, b	-0.0)3978
Last Calibration Date		11-Jul-1	1		(HxI	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		11-Jul-12	2		=	m _c x	$Q_{std} + b_{c}$:	
Calibration of RSP									
Calibration	Manometer Reading			c) _{std}	Continu	ous Flow	IC	;
Point	H (inches of water)		(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x2	98/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	axis	(C	FM)	Y-a:	kis
1	6.0	6.0	12.0	1.3	3118	(60	45.1	135
2	4.9	4.9	9.8	1.1	1873		53	39.8	502
3	3.6	3.6	7.2	1.0	0205		44	33.0	832
4	2.4	2.4	4.8	0.8	8369	:	35	26.3	162
5	1.4	1.4	2.8	0.0	6438	:	27	20.3	011
By Linear Regression of	Y on X								
	Slope, m	=	37.3	022	Int	ercept, b		4.3719	
Correlation Co	pefficient*	=	0.99	982					
Calibration	Accepted	=	Yes/	\o **					

**	De	lete	as	арр	ropr	iate.	
----	----	------	----	-----	------	-------	--

Remarks :							
Calibrated by	:	Sam Lam		Checked by	:	Derek Lo	
Date	:	17-Apr-12	_	Date	:	17-Apr-12	

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Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАЗа	Calbration Date	17-Apr-12
Equipment no.	:	EL888	Calbration Due Dat :	17-Jun-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		298		Kelvin	Pressure, P	a		1015 mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086 Slope, m _c 2.01593 Intercept, bc -0.03978							
Last Calibration Date		11-Jul-1	1		(Hxl	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		11-Jul-1	2		=	m _c x	$Q_{std} + b_{c}$:	
Calibration of RSP									
Calibration	Manometer Reading			C) _{std}	Continu	ious Flow	IC	
Point	Н (inches of	water)	(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x298	3/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	x-	axis	(C	FM)	Y-axi	s
1	5.8	5.8	11.6	1.1	7106		47	47.039	94
2	4.6	4.6	9.2	1.	5256		41	41.034	14
3	3.7	3.7	7.4	1.3	3703	:	35	35.029	93
4	2.4	2.4	4.8	1.1	1074	:	24	24.020	01
5	1.5	1.5	3.0	0.8	8796		14	14.01	17
By Linear Regression of	Y on X								
	Slope, m	=	40.1	015	Int	ercept, b	=	20.6552	_
Correlation Co	Correlation Coefficient* = 0.9985								
Calibration	Calibration Accepted = Yes/ No **								

Remarks :					
Calibrated by	:	Sam Lam	 Checked by	:	Derek Lo
Date	:	17-Apr-12	Date	:	17-Apr-12



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	17-Apr-12
Equipment no.	:	EL449	Calbration Due Dat :	17-Jun-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		298		Kelvin	Pressure, P	a		1015 mmHg		
			Orifice Tra	nsfer Stan	dard Informa	ation				
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, b	rcept, bc -0.03978		
Last Calibration Date		11-Jul-1	1		(HxH	P _a / 101	13.3 x 298	/T _a) ^{1/2}		
Next Calibration Date		11-Jul-12	2		=	m _c x	$Q_{std} + b_{d}$;		
	Calibration of RSP									
Calibration	Mar	nometer Re	eading	c	l _{std}	Continu	uous Flow	IC		
Point	H (inches of water)		(m ³	/ min.) Record		order, W	(W(P _a /1013.3x298	/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-	axis	(CFM)		Y-axi	s	
1	6.2	6.2	12.4	1.1	7680	52		52.043	36	
2	5.1	5.1	10.2	1.0	6053		44	44.036	39	
3	4.0	4.0	8.0	1.4	4239		37	37.031	10	
4	2.5	2.5	5.0	1.	1299 26		26	26.021	18	
5	1.5	1.5	3.0	0.8	3796		14	14.011	17	
By Linear Regression of	Y on X									
	=	41.6	997	Inte	ercept, b	=	22.1386	_		
Correlation Co	0.99	88								
Calibration	Accepted	=	Yes/	\o **						

** Delete as appropriate.	
---------------------------	--

Remarks :							—
Calibrated by	:	Sam Lam		Checked by	:	Derek Lo	
Date	:	17-Apr-12	_	Date	:	17-Apr-12	_



Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАба	Calbration Date :	17-Apr-12
Equipment no.	:	EL448	Calbration Due Dat :	17-Jun-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		298		Kelvin	Pressure, P	a		1015	mmHg
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m _c	2.015	93	Intercept, b	-0.03	3978
Last Calibration Date		11-Jul-1	1		(Hxl	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		$11-Jul-12 = m_c \times Q_{std} + b_c$							
	Calibration of RSP								
Calibration	Mar	nometer Re	eading	c) _{std}	Continu	ious Flow	IC	
Point	Н (H (inches of water)		(m ³	/ min.) Rec		rder, W	(W(P _a /1013.3x29	8/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(C	CFM)	Y-ax	is
1	6.1	6.1	12.2	1.1	7538		59	59.04	95
2	4.8	4.8	9.6	1.	5580		51	51.04	28
3	3.9	3.9	7.8	1.4	4063		44	44.03	69
4	2.5	2.5	5.0	1.1	1299		35	35.02	93
5	1.5	1.5	3.0	0.8	8796		25	25.02	10
By Linear Regression of	Y on X								
	Slope, m	=	38.4	474	Int	ercept, b	=	8.8956	_
Correlation Co	0.99	987							
Calibration	Accepted	=	Yes/	\o **					

** Delete as appropriate.	
---------------------------	--

Remarks :					
Calibrated by	:	Sam Lam	Checked by	:	Derek Lo
Date	:	17-Apr-12	Date	:	17-Apr-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 May 2012

Sunday	Monday	Tueso		Wedneso	lay	Thurso	lay	Frid	ay	Satur	day
29-Apr	30-A	r	1-May		2-May		3-May		4-May		5-May
	Noise Monitoring			24hr TSP		1hr TSP x 3					
	Impact WQM	Impact WQM		Impact WQM				Impact WQM			
	Mid-ebb: 19:1	Mid-flood:	2:38	Mid-flood:	15:09			Mid-ebb:	10:47		
				Mid-ebb:	21:27			Mid-flood:	17:14		
6-May	7-Ma		8-May		9-May		10-May		11-May		12-May
		24hr TSP		1hr TSP x 3						24hr TSP	
		Noise Monitoring		24hr TSP (CMA1b, CMA5a, C	MAGO)						
				(CIVIATD, CIVIASA, C	iviA0a)						
	Impact WQM			Impact WQM				Impact WQM			
		3:01		Mid-ebb:	14:41			Mid-ebb:	16:33		
	Mid-flood:	9:58		Mid-flood:	21:52			Mid-flood:	23:58		
13-May	14-M		15-May		16-May		17-May		18-May		19-May
	24hr TSP	1hr TSP x 3								24hr TSP	
				Noise Monitoring							
				Noise Monitoring							
	Impact WQM	Impact WQM				Impact WQM				Impact WQM	
		9:44				Mid-ebb:	10:30			Mid-ebb:	11:36
		Mid-flood:	2:45	i l		Mid-flood:	16:39			Mid-flood:	18:09
20-May	21-M		22-May		23-May		24-May		25-May		26-May
	1hr TSP x 3	Noise Monitoring						24hr TSP		1hr TSP x 3 24hr TSP (CMA5a, 0	CMA6a)
											UNAUA)
	Impact WQM			Impact WQM				Impact WQM			
		2:36		Mid-ebb:	13:33			Mid-ebb:	14:31		
	Mid-flood:	9:25		Mid-flood:	20:40			Mid-flood:	22:11		
27-May											

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 June 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-May	28-May	29-May	30-May	31-May	1-Jun	2-Jun
				24hr TSP	1hr TSP x 3	
		Noise Monitoring				
	Impact WQM			Impact WQM		Impact WQM
	•					Mid-ebb: 10:25
	Mid-flood: 10:0- Mid-ebb: 17:1			Mid-flood: 14:57 Mid-ebb: 20:56		Mid-flood: 17:12
3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun
	4 0011	0.001	24hr TSP	1hr TSP x 3	0 0011	5 5011
		Noise Monitoring				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb: 12:0	1	Mid-ebb: 13:41		Mid-ebb: 15:17	
	Mid-flood: 19:0	3	Mid-flood: 20:52	2	Mid-flood: 22:30	1
10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun
		24hr TSP	1hr TSP x 3			
		Noise Monitoring				
	Impact WQM	Impact WQM	Impact WQM	Impact WQM		Impact WQM
	Mid-ebb: 17:3		Mid-ebb: 8:25			Mid-ebb: 10:43 Mid-flood: 17:24
17-Jun	18-Jun	Mid-flood: 0:5 19-Jun	20-Jun	Mid-flood: 2:17 21-Jun	22-Jun	Mid-flood: 17:24 23-Jun
	24hr TSP	1hr TSP x 3	20-3011	21-0011	24hr TSP	25-5011
	2411 101			Noise (Day Time)	2411 101	
		Noise Monitoring				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-ebb: 11:4	1	Mid-ebb: 12:50		Mid-ebb: 14:03	از
	Mid-flood: 18:4	3	Mid-flood: 19:54		Mid-flood: 21:04	,
24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun
	1hr TSP x 3					
		Noise Monitoring				
	Impact WQM		Impact WQM			
	Mid-ebb: 16:0		Mid-ebb: 18:01			
	Mid-flood: 23:12	2				

Remarks (Water)

1. Cut-off date is at the 27th of each reporting month.

- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Water Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HY/2009/11: WSD9, WSD10, WSD15, WSD17, C8, C9 (completed on 6 Feb 2012)
- Contract HY/2009/15: C6 and C7 (Commenced on 9 Nov 2010)
- Contract HK/2009/01: WSD7, WSD19, WSD20, C1, C2, C3, C4e, C4w (Commenced on 8 July 2010); Contract HK/2010/06 share station C2 from 23 Mar 2011 WSD7 and WSD20 were temporary suspended since 27 April 2012
- Contract HK/2009/02: WSD21, C5e, C5w (Commenced on 8 July 2010)

WSD9 and WSD17 (Commenced on 8 Feb 2012)

- Contract HY/2009/19: C8 and C9 (Commenced on 28 Jan 2012)

Remarks (Air)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01: CMA5a(Commenced and reported in Apr 2011)
- Contract HK/2009/02: CMA4a (Commenced and reported in Feb 2011)
- Contract HY/2009/17: CMA1b and CMA2a (Commenced on 17 Jun 2010)
- Contract HY/2009/19: CMA1b and CMA2a (Commenced on 17 Jun 2010, To be reported in Monthly report on 11 Aug 2010) and CMA2a (Commenced on 12 May 2010, To be reported in Monthly report o Due to the changing of land ownership at Oil Street Community Liaison Centre from Contractor to FEHD, the air quality monitoring at CMA1b was suspended on 18 September 2011. T
 - installation of HVS at temporary FEHD depot was obtained from the premises owner on early November 2011 and TSP monitoring at CMA1b was resumed on 14 November 2011.
- Contract HY/2009/15: CMA3a (Commenced and reported on 15 Mar 2011)

Remarks (Noise)

- 1. Cut-off date is at the 27th of each reporting month.
- 2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
- 3. Noise Quality Monitoring Stations corresponding to active contracts are sub-divided below:
- Contract HK/2009/01 and HK/2009/02: M1a (Commenced on 30 Mar 2010, To be reported in Monthly report on 6 July 2010)
- Contract HY/2009/19: M4b, M5b (Commenced on 23 Mar 2010 when dredging work starts), M6(Commenced on 10 May 2010) and M3a (Commenced on 10 May 2010, To be reported in Monthly report or
- Contract HY/2009/15: M2b(Commenced and reported on 10 Nov 2010) and M3a (Commenced on 10 May 2010, To be reported in Monthly report on 10 Nov 2010)
- 4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).



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

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
						Unit: dB(A), (30-min)	
30/04/12	16:37	Fine	73.9	73.9 76.4		72	69	75
08/05/12	10:06	Fine	72.6	75.6	67.6	72	62	75
16/05/12	09:45	Rainy	74.4			72	70	75
22/05/12	11:20	Sunny	72.5			72	61	75

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
						Unit: dB(A), (30-min)	
30/04/12	08:00	Fine	68.3	68.3 69.7 66.		68	60	75
08/05/12	10:59	Fine	70.4	71.8	68.6	68	67	75
16/05/12	13:50	Fine	69.6	70.9	67.9	68	65	75
22/05/12	13:25	Sunny	69.8	71.2	68.1	68	66	75

Location: M3a - Tung Lo Wan Fire Station

			Measur	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
30/04/12	08:58	Fine	69.0	69.0 72.2 64		69	56	75
08/05/12	13:38	Fine	68.0			69	68	75
16/05/12	14:42	Fine	66.5			69	67	75
22/05/12	14:08	Sunny	69.2			69	59	75

Location: M4b - Victoria Centre

			Measure	ement Noi	se Level	Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq L10 L		L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
30/04/12	09:41	Fine	70.0	70.0 71.5 67.6		67	67	75
08/05/12	13:00	Fine	71.5			67	69	75
16/05/12	08:20	Cloudy	68.3			67	61	75
22/05/12	15:00	Sunny	70.5 72.4 68.1		68.1	67	68	75

Location: M5b - City Garden

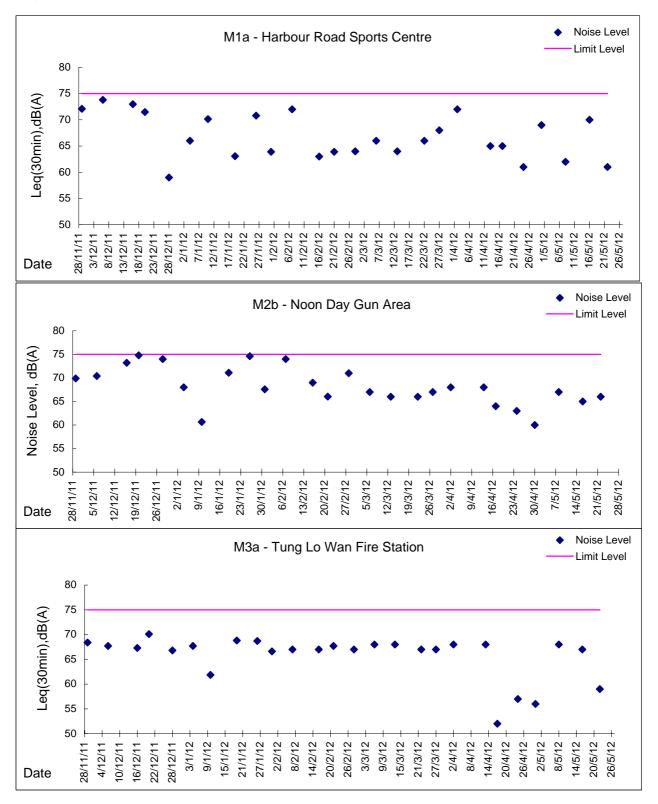
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
30/04/12	13:00	Fine	71.2 72.3 69.7			68	68	75
08/05/12	14:30	Fine	71.7 73.0 70.2		70.2	68	69	75
16/05/12	16:50	Fine	72.1 72.8 71.0		68	70	75	
22/05/12	16:45	Sunny	73.4 75.1 71.9		71.9	68	72	75

Location: M6 - HK Baptist Church Henrietta Secondary School

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	Leq L10		Leq	Leq	Leq
			Leq L10 L90			Unit: dB(A), (3	30-min)	
30/04/12	11:05	Fine	74.2 75.5 72.7		72.7	71	72	70
08/05/12	15:28	Fine	73.3			71	70	70
16/05/12	15:37	Fine	73.7			71	71	70
22/05/12	15:55	Sunny	73.5	73.5 75.0 7		71	70	70

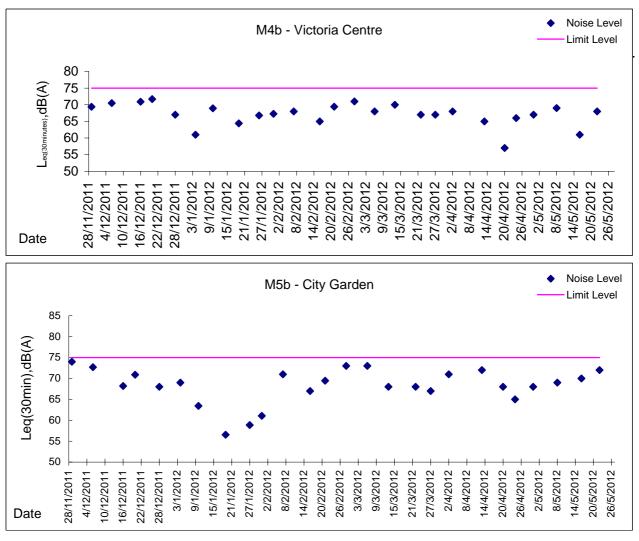


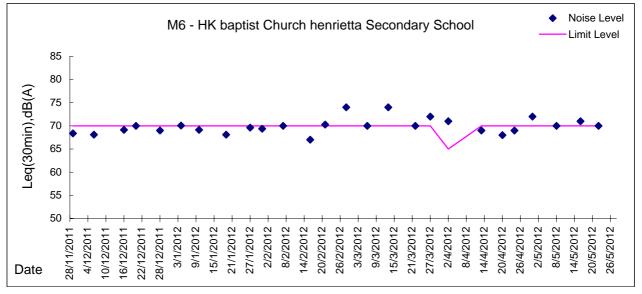
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





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 (μ g/m3) - 176.7

Limit Level (μ g/m3) - 260

Date	Sampling	Weather	Filter	Filter Weight,	Filter Weight, g		ie, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
30-Apr-12	8:00	Cloudy	002494	2.7612	2.8830	915.34	939.34	24.00	1.04	0.95	1.00	1437	85
2-May-12	8:00	Cloudy	002492	2.7220	2.8412	939.34	963.34	24.00	1.09	1.04	1.07	1535	78
9-May-12	8:00	Sunny	002772	2.8114	2.8998	969.48	993.48	24.00	1.09	1.09	1.09	1570	56
14-May-12	8:00	Sunny	002791	2.7703	2.8632	993.48	1017.48	24.00	1.14	1.14	1.14	1637	57
19-May-12	8:00	Cloudy	002842	2.7807	2.9469	1040.77	1064.77	24.00	1.14	1.14	1.14	1640	101
25-May-12	8:00	Cloudy	002910	2.7735	2.9336	1067.77	1091.77	24.00	1.14	1.14	1.14	1638	98

* Due to lack of electricity supply, the 24 hr-TSP was rescheduled form 8 May 2012 to 9 May 2012

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	ne, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μ g/m ³
3-May-12	13:00	Cloudy	002586	2.7377	2.7459	963.34	964.47	1.13	1.13	1.13	1.13	77	107
3-May-12	14:25	Cloudy	002674	2.7720	2.7826	964.47	965.47	1.00	1.04	1.04	1.04	63	169
3-May-12	15:30	Cloudy	002675	2.7923	2.8007	965.47	966.48	1.01	1.04	1.09	1.07	65	130
9-May-12	9:30	Sunny	002676	2.7832	2.8045	966.48	967.48	1.00	1.09	1.14	1.11	67	319
9-May-12	10:40	Sunny	002317	2.7808	2.7898	967.48	968.48	1.00	1.09	1.14	1.11	67	135
9-May-12	13:00	Sunny	002393	2.8022	2.8114	968.48	969.48	1.00	1.09	1.14	1.11	67	138
15-May-12	8:23	Cloudy	002811	2.7361	2.7441	1017.48	1018.48	1.00	1.09	1.09	1.09	65	122
15-May-12	9:35	Cloudy	002848	2.7758	2.7815	1018.48	1019.48	1.00	1.14	1.09	1.11	67	85
15-May-12	11:00	Cloudy	002843	2.7973	2.8031	1019.48	1020.48	1.00	1.14	1.11	1.13	68	86
21-May-12	10:00	Cloudy	002421	2.7348	2.7432	1064.77	1065.77	1.00	1.09	1.00	1.05	63	134
21-May-12	15:00	Cloudy	002892	2.7795	2.7867	1065.77	1066.77	1.00	1.00	1.14	1.07	64	112
21-May-12	16:25	Cloudy	002915	2.7832	2.7958	1066.77	1067.77	1.00	1.19	1.14	1.16	70	181
26-May-12	8:28	Cloudy	002905	2.7894	2.7998	1091.77	1092.77	1.00	1.11	1.09	1.10	66	157
26-May-12	9:33	Cloudy	002903	2.7809	2.7921	1092.77	1093.77	1.00	1.09	1.05	1.07	64	175
26-May-12	10:45	Cloudy	002591	2.7402	2.7536	1093.77	1094.77	1.00	1.18	1.09	1.14	68	196

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				e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m ³
2-May-12	8:00	Cloudy	002493	2.7242	2.8822	10684.32	10708.32	24.00	1.42	1.42	1.42	2045	77
8-May-12	8:00	Sunny	002325	2.7848	2.9039	10711.32	10735.32	24.00	1.42	1.40	1.41	2030	59
14-May-12	8:00	Cloudy	002792	2.7606	2.8902	10738.32	10762.32	24.00	1.40	1.40	1.40	2015	64
19-May-12	8:00	Cloudy	002844	2.7920	2.8840	10765.32	10789.32	24.00	1.40	1.40	1.40	2017	46
25-May-12	8:00	Cloudy	002891	2.7746	2.8891	10792.32	10816.32	24.00	1.40	1.40	1.40	2016	57

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 Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-May-12	8:51	Cloudy	002490	2.7671	2.7816	10708.32	10709.32	1.00	1.40	1.42	1.41	85	172
3-May-12	9:50	Cloudy	002488	2.7397	2.7566	10709.32	10710.32	1.00	1.37	1.40	1.39	83	203
3-May-12	11:00	Cloudy	002486	2.7167	2.7325	10710.32	10711.32	1.00	1.42	1.42	1.42	85	185
9-May-12	9:15	Sunny	002319	2.8073	2.8178	10735.32	10736.32	1.00	1.38	1.35	1.36	82	128
9-May-12	10:20	Sunny	002318	2.8132	2.8242	10736.32	10737.32	1.00	1.35	1.40	1.38	83	133
9-May-12	13:00	Sunny	002316	2.7946	2.8018	10737.32	10738.32	1.00	1.42	1.42	1.42	85	84
15-May-12	8:19	Cloudy	002812	2.7393	2.7509	10762.32	10763.32	1.00	1.35	1.35	1.35	81	143
15-May-12	9:30	Cloudy	002849	2.7615	2.7686	10763.32	10764.32	1.00	1.40	1.40	1.40	84	85
15-May-12	10:50	Cloudy	002845	2.7920	2.7948	10764.32	10765.32	1.00	1.38	1.35	1.37	82	34
21-May-12	9:40	Cloudy	002420	2.7463	2.7507	10789.32	10790.32	1.00	1.36	1.38	1.37	82	54
21-May-12	15:30	Cloudy	002834	2.7911	2.7992	10790.32	10791.32	1.00	1.31	1.33	1.32	79	102
21-May-12	16:25	Cloudy	002916	2.7771	2.7854	10791.32	10792.32	1.00	1.43	1.43	1.43	86	97
26-May-12	8:18	Cloudy	002966	2.7605	2.7698	10816.32	10817.32	1.00	1.40	1.40	1.40	84	111
26-May-12	9:20	Cloudy	002904	2.7742	2.7833	10817.32	10818.32	1.00	1.40	1.40	1.40	84	108
26-May-12	10:30	Cloudy	002902	2.7891	2.8037	10818.32	10819.32	1.00	1.40	1.40	1.40	84	174



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	Filter Weigh	Filter Weight, g		e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-May-12	8:00	Cloudy	002714	2.7910	2.9350	11378.96	11402.85	23.89	1.56	1.56	1.56	2234	64
8-May-12	8:00	Sunny	002711	2.7855	2.8733	11405.85	11429.85	24.00	1.51	1.51	1.51	2178	40
14-May-12	8:00	Cloudy	002576	2.7286	2.8199	11433.85	11457.85	24.00	1.51	1.51	1.51	2179	42
19-May-12	8:00	Cloudy	002728	2.8088	2.9303	11460.85	11484.85	24.00	1.49	1.49	1.49	2147	57
25-May-12	8:00	Cloudy	002722	2.8075	3.1862	11487.85	11511.85	24.00	1.56	1.56	1.56	2248	168

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 Tim	e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
3-May-12	9:56	Cloudy	002581	2.7454	2.7575	11402.85	11403.85	1.00	1.46	1.46	1.46	88	138
3-May-12	13:35	Cloudy	002710	2.8015	2.8117	11403.85	11404.85	1.00	1.49	1.49	1.49	89	114
3-May-12	14:50	Cloudy	002708	2.7966	2.8102	11404.85	11405.85	1.00	1.53	1.53	1.53	92	148
9-May-12	10:22	Sunny	002428	2.6953	2.7060	11430.85	11431.85	1.00	1.42	1.42	1.42	85	126
9-May-12	11:30	Sunny	002417	2.7297	2.7365	11431.85	11432.85	1.00	1.46	1.46	1.46	88	77
9-May-12	13:15	Sunny	002632	2.7932	2.8024	11432.85	11433.85	1.00	1.46	1.46	1.46	88	105
15-May-12	13:00	Cloudy	002743	2.7728	2.7808	11457.85	11458.85	1.00	1.49	1.51	1.50	90	89
15-May-12	14:30	Cloudy	002731	2.8140	2.8208	11458.85	11459.85	1.00	1.42	1.49	1.45	87	78
15-May-12	15:32	Cloudy	002730	2.8084	2.8145	11459.85	11460.85	1.00	1.47	1.47	1.47	88	69
21-May-12	8:30	Cloudy	002726	2.8128	2.8273	11484.85	11485.85	1.00	1.54	1.54	1.54	92	157
21-May-12	9:33	Cloudy	002724	2.8093	2.8195	11485.85	11486.85	1.00	1.47	1.47	1.47	88	116
21-May-12	10:42	Cloudy	002705	2.7830	2.7942	11486.85	11487.85	1.00	1.47	1.47	1.47	88	127
26-May-12	10:42	Cloudy	002721	2.7957	2.8162	11511.85	11512.85	1.00	1.54	1.54	1.54	92	222
26-May-12	13:00	Cloudy	002712	2.7806	2.7942	11512.85	11513.85	1.00	1.54	1.54	1.54	92	147
26-May-12	14:02	Cloudy	002715	2.7823	2.7924	11513.85	11514.85	1.00	1.56	1.51	1.54	92	109

Location: CMA4a - SPCA

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

260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-May-12	8:00	Cloudy	002690	2.7646	2.8640	14905.10	14929.11	24.01	1.14	1.09	1.11	1601	62
8-May-12	8:00	Sunny	002706	2.7916	2.8497	14932.11	14956.10	23.99	1.11	1.09	1.10	1583	37
14-May-12	8:00	Cloudy	002631	2.8043	2.8667	14959.14	14983.14	24.00	1.04	1.04	1.04	1493	42
19-May-12	8:00	Cloudy	002727	2.8195	2.9018	14986.14	15010.14	24.00	1.04	1.14	1.09	1569	52
25-May-12	8:00	Cloudy	002635	2.7700	2.8833	15013.14	15037.14	24.00	1.14	1.14	1.14	1641	69

Report on 1-hour TSP monitoring

Action Level (µg/m3) -312.5

Limit Level (µg/m3) -500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
3-May-12	10:25	Cloudy	002672	2.7696	2.7780	14929.11	14930.11	1.00	1.14	1.09	1.11	67	126
3-May-12	13:45	Cloudy	002709	2.7921	2.8053	14930.11	14931.11	1.00	1.14	1.19	1.16	70	189
3-May-12	15:00	Cloudy	002707	2.7954	2.8061	14931.11	14932.11	1.00	1.14	1.09	1.11	67	160
9-May-12	9:00	Sunny	002681	2.7969	2.8017	14956.11	14957.11	1.00	0.99	0.99	0.99	59	81
9-May-12	10:11	Sunny	002782	2.8111	2.8159	14957.11	14958.11	1.00	1.04	1.09	1.06	64	75
9-May-12	13:00	Sunny	002462	2.7400	2.7445	14958.11	14959.11	1.00	0.93	0.93	0.93	56	80
15-May-12	13:00	Cloudy	002742	2.7620	2.7705	14983.14	14984.14	1.00	0.99	1.09	1.04	62	137
15-May-12	14:40	Cloudy	002733	2.7967	2.8056	14984.14	14985.14	1.00	0.99	1.04	1.01	61	147
15-May-12	15:42	Cloudy	002729	2.8149	2.8245	14985.14	14986.14	1.00	1.09	1.09	1.09	65	147
21-May-12	8:45	Cloudy	002725	2.7920	2.7969	15010.14	15011.14	1.00	1.19	1.22	1.21	72	68
21-May-12	9:48	Cloudy	002704	2.7848	2.7903	15011.14	15012.14	1.00	1.14	1.14	1.14	69	80
21-May-12	10:53	Cloudy	002703	2.7706	2.7763	15012.14	15013.14	1.00	1.14	1.14	1.14	69	83
26-May-12	10:59	Cloudy	002720	2.7975	2.8081	15037.14	15038.14	1.00	1.09	1.14	1.11	67	158
26-May-12	13:15	Cloudy	002719	2.7990	2.8104	15038.14	15039.14	1.00	1.19	1.22	1.20	72	158
26-May-12	14:20	Cloudy	002718	2.7992	2.8087	15039.14	15040.14	1.00	1.19	1.17	1.18	71	134

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	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-May-12	8:00	Cloudy	002806	2.7488	2.9107	15883.47	15907.47	24.00	1.43	1.46	1.45	2084	78
9-May-12	8:00	Sunny	002701	2.7704	2.8686	15916.95	15940.94	23.99	1.13	1.19	1.16	1673	59
14-May-12	8:00	Sunny	002582	2.7600	2.9251	15940.94	15964.94	24.00	1.46	1.46	1.46	2107	78
19-May-12	8:00	Rainy	002788	2.7990	2.9329	15967.94	15991.94	24.00	1.44	1.44	1.44	2072	65
26-May-12	13:00	Cloudy	002958	2.7703	2.9286	16003.43	16027.43	24.00	1.44	1.44	1.44	2070	76

* Due to lack of electricity supply, the 24 hr-TSP was rescheduled form 8 and 25 May 2012 to 9 and 26 May 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, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-May-12	9:38	Cloudy	002679	2.7866	2.7990	15907.47	15908.47	1.00	1.35	1.24	1.30	78	159
3-May-12	10:38	Cloudy	002580	2.7603	2.7712	15908.47	15909.47	1.00	1.43	1.43	1.43	86	127
3-May-12	13:30	Cloudy	002760	2.7538	2.7629	15909.47	15910.47	1.00	1.46	1.46	1.46	88	104
9-May-12	8:10	Sunny	002695	2.7671	2.7725	15913.94	15914.94	1.00	1.46	1.46	1.46	88	62
9-May-12	9:15	Sunny	002696	2.7631	2.7699	15914.94	15915.94	1.00	1.46	1.46	1.46	88	78
9-May-12	10:20	Sunny	002702	2.7810	2.7872	15915.95	15916.95	1.00	1.46	1.46	1.46	88	71
15-May-12	8:30	Cloudy	002700	2.7662	2.7820	15964.94	15965.94	1.00	1.46	1.46	1.46	88	180
15-May-12	9:33	Cloudy	002784	2.7992	2.8093	15965.94	15966.94	1.00	1.46	1.46	1.46	88	115
15-May-12	10:40	Cloudy	002786	2.7947	2.8017	15966.94	15967.94	1.00	1.46	1.46	1.46	88	80
21-May-12	8:40	Cloudy	002840	2.7773	2.7820	15991.70	15992.70	1.00	1.47	1.47	1.47	88	53
21-May-12	10:50	Cloudy	002835	2.7753	2.7836	15992.70	15993.70	1.00	1.41	1.44	1.43	86	97
21-May-12	13:00	Cloudy	002831	2.7897	2.7985	15993.70	15994.70	1.00	1.47	1.47	1.47	88	100
26-May-12	8:45	Cloudy	002953	2.7732	2.7862	16000.43	16001.43	1.00	1.47	1.47	1.47	88	148
26-May-12	9:48	Cloudy	002955	2.7803	2.7895	16001.43	16002.43	1.00	1.30	1.30	1.30	78	118
26-May-12	10:50	Cloudy	002957	2.7934	2.8044	16002.43	16003.43	1.00	1.47	1.47	1.47	88	125

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

		5	
Action Level -	187.3	µg/m3	
Limit Level -	260	µg/m3	

Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
2-May-12	8:00	Cloudy	002808	2.7180	2.8180	14208.77	14232.78	24.01	1.32	1.34	1.33	1919	52
9-May-12	8:00	Sunny	002732	2.8078	2.8714	14238.79	14262.79	24.00	1.49	1.52	1.51	2170	29
14-May-12	8:00	Sunny	002583	2.7621	2.8317	14262.79	14286.79	24.00	1.52	1.52	1.52	2189	32
19-May-12	8:00	Cloudy	002866	2.7699	2.8482	14289.79	14313.79	24.00	1.50	1.50	1.50	2157	36
26-May-12	13:00	Cloudy	002959	2.7661	2.8553	14319.79	14343.79	24.00	1.22	1.22	1.22	1763	51

* Due to lack of electricity supply, the 24 hr-TSP was rescheduled form 8 and 25 May 2012 to 9 and 26 May 2012

Report on 1-hour TSP monitoring

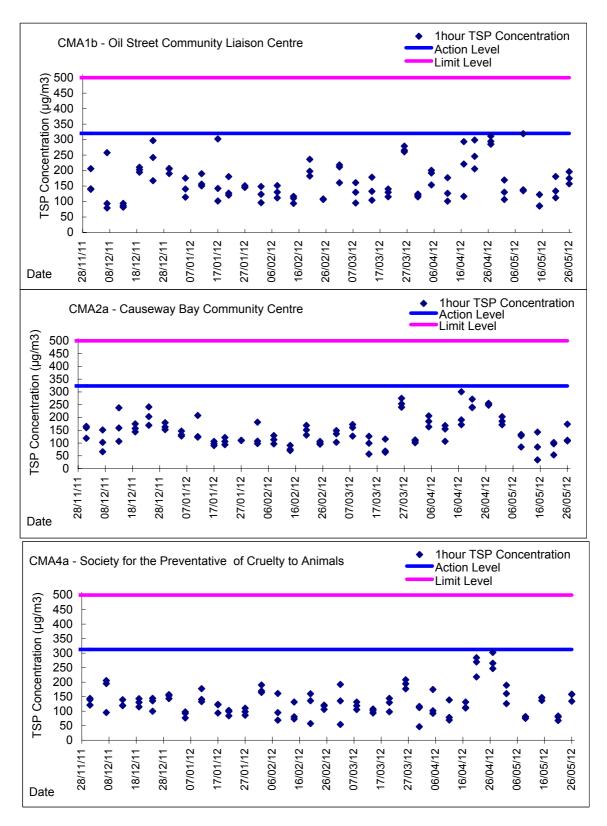
Action Level - 300.1 $\mu\,{\rm g/m^3}$

Limit Level - 500 μ g/m3

Date	Sampling	Weather	Filter paper	Filter Weigh	it, 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 _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-May-12	9:00	Cloudy	002680	2.7933	2.8041	14232.78	14233.78	1.00	1.27	1.27	1.27	76	142
3-May-12	10:00	Cloudy	002673	2.7728	2.7817	14233.78	14234.78	1.00	1.27	1.27	1.27	76	117
3-May-12	13:10	Cloudy	002324	2.8048	2.8125	14234.78	14235.78	1.00	1.37	1.39	1.38	83	93
9-May-12	8:35	Sunny	002759	2.7286	2.7379	14235.79	14236.79	1.00	1.22	1.22	1.22	73	127
9-May-12	9:40	Sunny	002697	2.7697	2.7725	14236.79	14237.79	1.00	1.22	1.22	1.22	73	38
9-May-12	10:45	Sunny	002698	2.7597	2.7635	14237.79	14238.79	1.00	1.22	1.22	1.22	73	52
15-May-12	8:40	Cloudy	002783	2.8025	2.8090	14286.79	14287.79	1.00	1.52	1.52	1.52	91	71
15-May-12	9:43	Cloudy	002785	2.7968	2.8016	14287.79	14288.79	1.00	1.52	1.52	1.52	91	53
15-May-12	10:50	Cloudy	002787	2.8132	2.8173	14288.79	14289.79	1.00	1.52	1.52	1.52	91	45
21-May-12	8:27	Cloudy	002841	2.7743	2.7783	14313.79	14314.79	1.00	1.52	1.52	1.52	91	44
21-May-12	9:34	Cloudy	002838	2.7804	2.7830	14314.79	14315.79	1.00	1.47	1.50	1.49	89	29
21-May-12	10:38	Cloudy	002836	2.7613	2.7651	14315.79	14316.79	1.00	1.47	1.47	1.47	88	43
26-May-12	8:00	Cloudy	002833	2.7819	2.7990	14316.79	14317.79	1.00	1.22	1.22	1.22	73	233
26-May-12	9:10	Cloudy	002954	2.7622	2.7691	14317.79	14318.79	1.00	1.22	1.22	1.22	73	94
26-May-12	10:30	Cloudy	002956	2.7849	2.7934	14318.79	14319.79	1.00	1.22	1.22	1.22	73	116

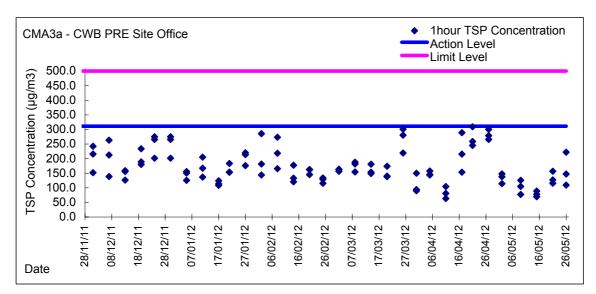


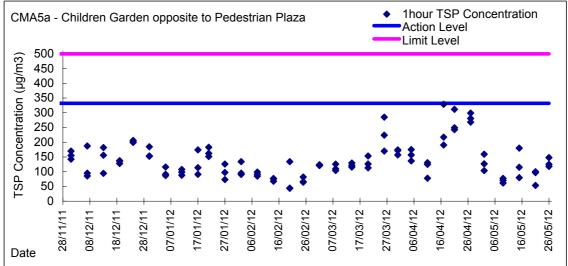
Graphic Presentation of 1 hour TSP Result

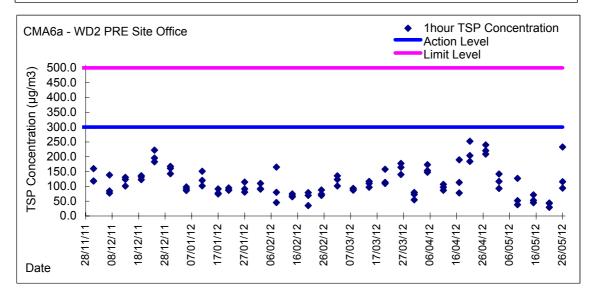




Graphic Presentation of 1 hour TSP Result

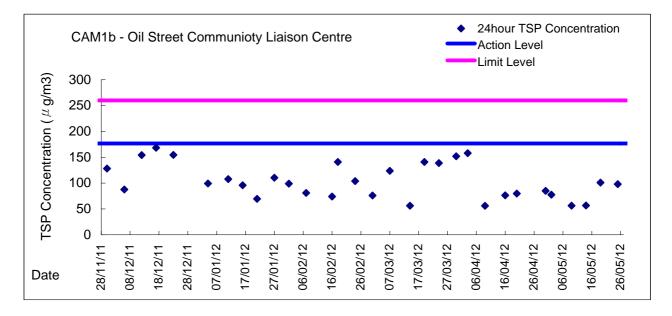


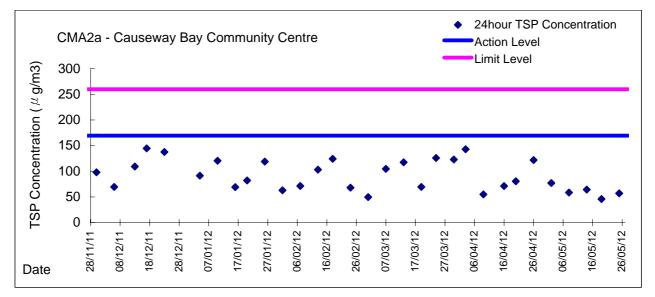


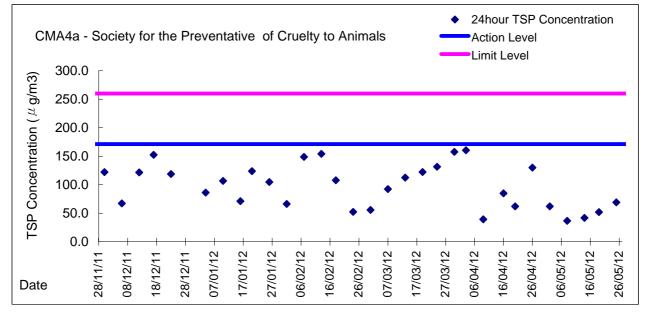




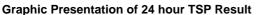
Graphic Presentation of 24 hour TSP Result

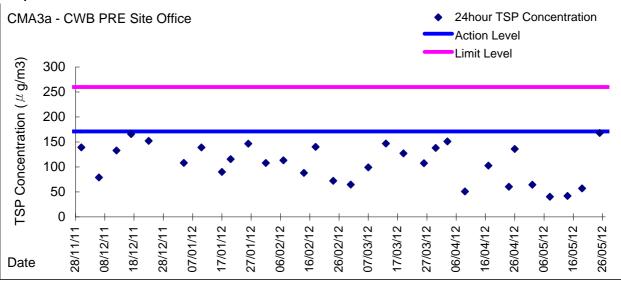


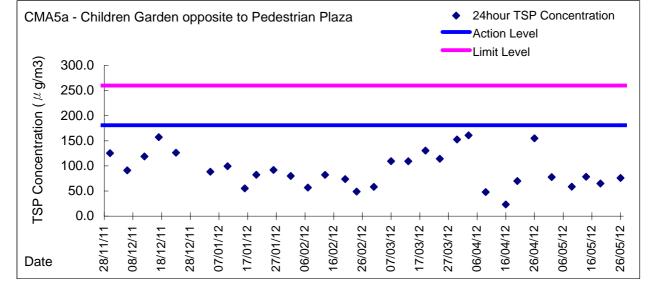


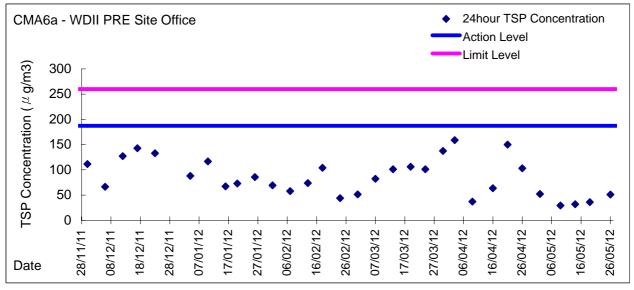














Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salinit ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	3:06	Cloudy	Middle	2.5	25.13	25.13	25.17	7.80	7.80	7.79	29.95	29.95	29.94	80.4	80.1	80.3	5.59	5.57	5.58	0.82	0.73	0.77	3	3.00
	3:07		Middle	2.5	25.21	25.21		7.78	7.78		29.93	29.93		80.3	80.4		5.58	5.58		0.77	0.74		3	
2/5/2012	15:30	Cloudy	Middle	2.5	27.20	27.20	27.25	8.21	8.21	8.21	28.57	28.57	28.58	89.8	89.3	89.6	6.07	5.97	6.03	0.86	0.92	0.79	3	3.50
	15:32		Middle	2.5	27.30	27.30		8.20	8.20		28.58	28.58		90.3	89.0		6.09	6.00		0.84	0.52		4	
4/5/2012	17:00	Fine	Middle	2.5	26.40	26.40	26.40	8.35	8.35	8.36	28.47	28.47	28.48	96.8	96.5	96.3	6.63	6.61	6.59	1.16	1.27	1.21	2	2.00
	17:02		Middle	2.5	26.40	26.40		8.36	8.36		28.48	28.48		95.8	95.9		6.56	6.56		1.31	1.11		2	
7/5/2012	22:42	Fine	Middle	2.5	25.40	25.40	25.40	8.37	8.37	8.37	30.44	30.44	30.44	91.9	92.9	92.0	6.35	6.42	6.37	0.55	0.49	0.43	3	2.50
113/2012	22:43	1 me	Middle	2.5	25.40	25.40	23.40	8.37	8.37	0.57	30.44	30.44	30.44	92.2	91.1	32.0	6.39	6.30	0.57	0.34	0.33	0.45	2	2.00
9/5/2012	20:45	Fine	Middle	2.5	27.20	27.20	27.20	8.35	8.35	8.36	28.44	28.44	28.44	93.5	93.5	94.3	6.26	6.26	6.32	0.65	0.80	0.78	3	3.50
9/5/2012	20:46	Fine	Middle	2.5	27.20	27.20	27.20	8.37	8.37	0.30	28.44	28.44	28.44	94.8	95.5	94.3	6.35	6.39	0.32	1.00	0.66	0.78	4	3.50
	22:27		Middle	2.0	25.20	25.20		8.06	8.06		29.63	29.63		90.4	89.6		6.28	6.22		1.15	1.01		2	
11/5/2012	22:28	Cloudy	Middle	2.0	25.20	25.20	25.20	8.06	8.06	8.06	29.63	29.63	29.63	89.8	89.1	89.7	6.24	6.18	6.23	1.00	1.20	1.09	3	2.50
	3:25		Middle	2.5	26.80	26.80		7.98	7.98		28.35	28.35		86.6	86.5		5.89	5.87		0.35	0.45		5	
15/5/2012	3:26	Cloudy	Middle	2.5	26.80	26.80	26.80	7.98	7.98	7.98	28.35	28.35	28.35	84.7	86.5	86.1	5.75	5.87	5.85	0.51	0.48	0.45	7	6.00
	16:30		Middle	3.0	26.80	26.80		8.02	8.02		28.26	28.26		85.2	84.9		5.81	5.78		0.68	0.82		3	
17/5/2012	16:32	Fine	Middle	3.0	26.90	26.90	26.85	8.00	8.00	8.01	28.26	28.26	28.26	84.7	85.1	85.0	5.77	5.80	5.79	0.82	0.89	0.80	3	3.00
	17:26		Middle	2.5	27.00	27.00		7.88	7.88		28.16	28.16		79.1	80.7		5.41	5.49		1.04	0.94		6	
19/5/2012	17:27	Cloudy	Middle	2.5	27.00	27.00	27.00	7.88	7.88	7.88	28.16	28.16	28.16	80.0	79.3	79.8	5.38	5.39	5.42	0.90	1.27	1.04	4	5.00
21/5/2012	18:55	Claudu	Middle	2.5	26.00	26.00	26.00	7.98	7.98	7.98	28.56	28.56	28.57	78.2	79.3	78.8	5.39	5.47	5.43	1.42	1.31	1.00	3	3.00
21/5/2012	18:56	Cloudy	Middle	2.5	26.00	26.00	20.00	7.98	7.98	7.90	28.57	28.57	20.57	79.2	78.5	70.0	5.46	5.41	5.45	1.20	1.33	1.32	3	3.00
23/5/2012	19:07	Fine	Middle	2.0	26.10	26.10	26.10	8.08	8.08	8.08	29.55	29.55	29.55	84.8	85.5	85.3	5.82	5.87	5.86	2.50	2.17	2.28	4	5.00
23/3/2012	19:08	Fille	Middle	2.0	26.10	26.10	20.10	8.08	8.08	0.00	29.55	29.55	29.00	85.5	85.5	00.3	5.87	5.87	0.00	2.25	2.21	2.20	6	5.00
25/5/2012	21:54	Fine	Middle	2.0	27.10	27.10	27.10	8.02	8.02	8.02	29.09	29.09	29.09	73.6	74.0	73.9	4.94	4.97	4.96	1.70	1.65	1.77	4	4.00
23/3/2012	21:55		Middle	2.0	27.10	27.10	21.10	8.02	8.02	0.02	29.09	29.09	23.03	74.3	73.8	13.3	4.99	4.95	4.50	1.91	1.83	1.77	4	4.00

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	0:26	Cloudy	Middle	2.0	24.91	24.91	24.94	7.87	7.87	7.85	29.79	29.79	29.79	84.0	84.2	84.1	5.87	5.88	5.87	0.96	0.86	0.89	5	4.00
	0:27		Middle	2.0	24.97	24.97		7.83	7.83		29.78	29.78		84.0	84.1		5.87	5.87		0.91	0.84		3	
2/5/2012	14:56	Cloudy	Middle	2.5	27.20	27.20	27.25	8.24	8.24	8.24	28.56	28.56	28.56	89.6	88.1	89.1	6.12	6.02	6.08	0.91	0.95	0.95	2	2.50
	14:58		Middle	2.5	27.30	27.30		8.23	8.23		28.56	28.56		89.9	88.6		6.14	6.04		1.07	0.88		3	
4/5/2012	15:25	Fine	Middle	2.0	27.00	27.00	27.05	8.45	8.45	8.44	27.14	27.14	27.15	110.1	110.4	110.4	7.49	7.56	7.55	0.72	0.79	0.73	5	4.50
1,0,2012	15:28	1 1110	Middle	2.0	27.10	27.10	21.00	8.43	8.43	0.11	27.15	27.15	21110	110.3	110.7		7.55	7.58	1.00	0.61	0.79	0.10	4	
7/5/2012	19:55	Fine	Middle	2.5	25.50	25.50	25.50	8.36	8.36	8.36	30.44	30.44	30.44	90.6	90.8	90.7	6.22	6.23	6.22	0.87	1.14	0.98	4	4.50
1/3/2012	19:56	1 1116	Middle	2.5	25.50	25.50	23.50	8.36	8.36	0.50	30.44	30.44	30.44	91.1	90.1	50.7	6.25	6.17	0.22	0.91	0.98	0.90	5	4.50
9/5/2012	23:03	Fine	Middle	2.5	27.30	27.30	27.40	8.32	8.32	8.32	30.23	30.23	30.23	91.6	92.5	01.0	6.09	6.15	0.44	1.42	1.24	1.10	2	2.00
9/5/2012	23:04	Fine	Middle	2.5	27.50	27.50	27.40	8.32	8.32	8.32	30.23	30.23	30.23	92.1	91.2	91.9	6.12	6.06	6.11	1.14	0.95	1.19	4	3.00
	0:40		Middle	2.5	24.80	24.80		8.24	8.24		29.33	29.33		89.1	90.8		6.24	6.36		0.61	0.95		3	
11/5/2012	0:41	Cloudy	Middle	2.5	24.80	24.80	24.80	8.24	8.22	8.24	29.33	29.33	29.33	89.4	89.0	89.6	6.26	6.24	6.28	0.92	0.70	0.80	3	3.00
	0:38		Middle	2.5	26.40	26.40		7.97	7.97		28.00	28.00		85.6	85.2		5.85	5.83		0.50	0.54		3	
15/5/2012	0:39	Cloudy	Middle	2.5	26.40	26.40	26.40	7.97	7.97	7.97	28.00	28.00	28.00	84.1	84.0	84.7	5.75	5.75	5.80	0.75	0.65	0.61	3	3.00
	15:00		Middle	3.5	27.50	27.50		7.94	7.94		28.53	28.53		74.0	73.9		4.97	4.98		1.55	1.63		<2	
17/5/2012	15:02	Fine	Middle	3.5	27.70	27.70	27.60	7.93	7.93	7.94	28.53	28.53	28.53	74.6	74.3	74.2	5.01	4.99	4.99	1.51	1.47	1.54	<2	<2
19/5/2012	19:05	Claudu	Middle	3.0	26.50	26.50	26.50	8.03	8.03	8.03	28.94	28.94	28.94	81.5	81.0	80.6	5.56	5.53	5.50	1.04	1.02	0.98	7	- 6.50
19/3/2012	19:06	Cloudy	Middle	3.0	26.50	26.50	20.30	8.03	8.03	0.03	28.94	28.94	20.94	80.0	80.0	80.0	5.46	5.46	5.50	0.95	0.90	0.98	6	0.50
21/5/2012	21:28	Cloudy	Middle	3.0	25.90	25.90	25.90	8.11	8.11	8.11	29.45	29.45	29.45	81.3	80.7	80.9	5.59	5.55	5.56	1.98	1.87	1.98	4	3.50
21/0/2012	21:29	cloudy	Middle	3.0	25.90	25.90	20.00	8.11	8.11	0.11	29.45	29.45	20.40	80.5	81.1	00.0	5.53	5.57	0.00	2.04	2.03	1.00	3	0.00
23/5/2012	22:20	Fine	Middle	3.0	26.20	26.20	26.20	8.11	8.11	8.12	29.79	29.79	29.79	79.2	79.3	79.1	5.41	5.42	5.41	2.08	2.49	2.39	5	4.50
23/3/2012	22:21	Fille	Middle	3.0	26.20	26.20	20.20	8.13	8.13	0.12	29.79	29.79	29.19	79.2	78.8	79.1	5.41	5.39	J.41	2.55	2.44	2.39	4	4.00
25/5/2012	0:27	Fine	Middle	3.0	27.20	27.20	27.20	8.12	8.12	8.12	29.76	29.76	29.76	70.8	70.8	70.9	4.77	4.77	4.78	1.81	2.01	1.97	6	6.00
2010/2012	0:28	1 1116	Middle	3.0	27.20	27.20	21.20	8.12	8.12	0.12	29.76	29.76	23.10	70.9	70.9	10.3	4.78	4.78	7.70	2.18	1.86	1.57	6	0.00

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbic NTU		Suspende	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
1/5/2012	0:08	Cloudy	Middle	1.5	25.36	25.36	25.36	7.95	7.95	7.95	29.09	29.09	29.09	87.0	86.7	86.8	6.05	6.04	6.04	4.38	4.44	4.43	6	6.00
	0:09		Middle	1.5	25.36	25.36		7.94	7.94		29.08	29.08		86.8	86.8		6.04	6.04		4.55	4.34		6	
2/5/2012	14:25	Cloudy	Middle	2.0	27.00	27.00	27.05	8.25	8.25	8.25	28.66	28.66	28.66	90.2	89.9	89.9	6.18	6.16	6.16	1.10	1.07	0.98	3	2.50
	14:26		Middle	2.0	27.10	27.10		8.25	8.25		28.66	28.66		90.1	89.3		6.17	6.11		0.93	0.82		2	
4/5/2012	15:10	Fine	Middle	2.0	26.70	26.70	26.75	7.54	7.54	7.54	26.12	26.12	26.13	80.6	80.5	80.5	5.58	5.57	5.58	3.36	3.39	3.31	7	6.50
4/3/2012	15:13	Fille	Middle	2.0	26.80	26.80	20.75	7.53	7.53	7.34	26.13	26.13	20.13	80.7	80.3	60.5	5.59	5.56	5.56	3.21	3.29	3.31	6	0.50
7/5/004.0	19:31	Fire	Middle	1.5	25.30	25.30	05.00	8.30	8.30	0.00	29.61	29.61	00.04	87.7	89.6	00.4	6.08	6.21	0.40	4.40	4.62	4.40	7	0.50
7/5/2012	19:32	Fine	Middle	1.5	25.30	25.30	25.30	8.30	8.30	8.30	29.61	29.61	29.61	89.9	89.3	89.1	6.23	6.19	6.18	4.82	4.13	4.49	6	6.50
	22:42		Middle	2.0	27.40	27.40		8.28	8.28		28.02	28.02		93.0	93.8		6.25	6.31		2.78	2.72		4	
9/5/2012	22:43	Fine	Middle	2.0	27.40	27.40	27.40	8.28	8.28	8.28	28.02	28.02	28.02	92.4	92.4	92.9	6.21	6.21	6.25	2.75	2.66	2.73	3	3.50
	0:21		Middle	2.0	24.90	24.90		8.00	8.00		29.42	29.42		85.4	85.9		5.97	6.01		1.56	1.22		<2	
11/5/2012	0:22	Cloudy	Middle	2.0	24.90	24.90	24.90	8.00	8.00	8.00	29.42	29.42	29.42	85.0	85.0	85.3	5.94	5.94	5.97	1.18	1.26	1.31	<2	<2
	0:19		Middle	1.5	26.80	26.80		7.94	7.94		27.53	27.53		86.1	85.4		5.87	5.83		2.99	2.92		6	
15/5/2012	0:20	Cloudy	Middle	1.5	26.80	26.80	26.80	7.94	7.94	7.94	27.53	27.53	27.53	85.0	84.3	85.2	5.81	5.75	5.82	2.81	2.87	2.90	6	6.00
	14:37		Middle	2.5	26.20	26.20		8.36	8.36		28.53	28.53		73.0	72.9		5.03	5.02		4.27	4.31		<2	
17/5/2012	14:40	Fine	Middle	2.5	26.30	26.30	26.25	8.35	8.35	8.36	28.54	28.54	28.54	72.8	72.9	72.9	5.01	5.02	5.02	4.19	4.34	4.28	<2	<2
	20:45		Middle	2.0	26.20	26.20		8.00	8.00		28.67	28.67		80.8	81.0		5.55	5.56		2.75	2.55		7	
19/5/2012	20:46	Cloudy	Middle	2.0	26.20	26.20	26.20	8.00	8.00	8.00	28.67	28.67	28.67	81.0	79.3	80.5	5.56	5.45	5.53	2.39	2.28	2.49	5	6.00
	21:08		Middle	2.0	26.00	26.00		8.02	8.02		29.18	29.18		80.2	80.3		5.52	5.52		3.84	3.48		7	
21/5/2012		Cloudy					26.00			8.02			29.18			80.4			5.53			3.55		7.00
	21:09		Middle	2.0	26.00	26.00		8.01	8.01		29.18	29.18		80.4	80.7		5.53	5.55		3.39	3.50		7	<u> </u>
23/5/2012	21:58	Fine	Middle	2.0	26.20	26.20	26.20	8.02	8.02	8.02	29.30	29.30	29.30	78.2	78.7	78.6	5.35	5.39	5.39	3.90	4.06	3.89	6	6.50
	21:59		Middle	2.0	26.20	26.20		8.02	8.02		29.30	29.30		78.8	78.8		5.40	5.40		3.81	3.77		7	<u> </u>
25/5/2012	0:00	Fine	Middle	2.0	26.80	26.80	26.80	7.95	7.95	7.95	29.05	29.05	29.05	66.6	67.2	67.2	4.51	4.56	4.55	2.42	2.57	2.63	5	5.00
	0:01		Middle	2.0	26.80	26.80		7.95	7.95		29.05	29.05		67.5	67.4		4.57	4.57		2.81	2.73		5	

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspende	ed Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	23:55	Cloudy	Middle	1.5	24.99	24.99	25.00	7.81	7.81	7.81	28.54	28.54	28.54	79.8	80.1	79.9	5.60	5.63	5.61	2.46	2.52	2.53	4	4.50
	23:56		Middle	1.5	25.00	25.00		7.81	7.81		28.54	28.53		79.9	79.9		5.61	5.61		2.70	2.42		5	
2/5/2012	14:13	Cloudy	Middle	2.0	26.80	26.80	26.90	8.24	8.24	8.24	28.59	28.59	28.59	89.5	86.2	88.4	6.14	5.91	6.06	1.44	1.36	1.34	4	4.00
	14:15		Middle	2.0	27.00	27.00		8.24	8.24		28.59	28.59		89.4	88.5		6.12	6.05		1.26	1.29		4	
4/5/2012	15:19	Fine	Middle	2.0	26.30	26.30	26.30	7.37	7.37	7.37	26.25	26.25	26.26	75.1	75.0	75.2	5.23	5.22	5.24	3.19	3.15	3.06	5	5.50
	15:22		Middle	2.0	26.30	26.30		7.36	7.36		26.26	26.26		75.5	75.3		5.26	5.24		2.99	2.90		6	
7/5/2012	19:17	Fine	Middle	1.5	25.60	25.60	25.60	8.30	8.30	8.30	29.39	29.39	29.39	88.6	89.5	88.6	6.11	6.17	6.11	3.80	3.88	3.68	8	7.00
	19:18	1 110	Middle	1.5	25.60	25.60	20.00	8.29	8.29	0.00	29.39	29.39	20.00	88.1	88.1	00.0	6.07	6.07	0.111	3.69	3.33	0.00	6	
9/5/2012	22:33	Fine	Middle	2.0	26.90	26.90	26.90	8.29	8.29	8.29	28.28	28.28	28.28	92.8	92.3	92.4	6.28	6.24	6.25	1.30	1.26	1.18	2	2.00
3/3/2012	22:34	1 IIIC	Middle	2.0	26.90	26.90	20.30	8.29	8.29	0.20	28.28	28.28	20.20	91.8	92.8	52.4	6.21	6.27	0.23	1.08	1.07	1.10	2	2.00
11/5/2012	0:04	Cloudy	Middle	2.0	24.90	24.90	24.95	7.89	7.89	7.90	29.60	29.60	29.60	73.8	74.7	74.7	5.16	5.22	5.22	1.10	1.13	1.12	3	3.00
11/3/2012	0:05	Cloudy	Middle	2.0	25.00	25.00	24.95	7.90	7.90	7.90	29.60	29.60	29.00	74.7	75.6	74.7	5.22	5.28	5.22	1.14	1.12	1.12	3	3.00
15/5/2012	0:05	Cloudy	Middle	1.5	26.70	26.70	26.70	7.94	7.94	7.94	27.30	27.30	27.30	81.7	82.9	82.2	5.59	5.67	5.63	0.72	0.70	0.66	3	3.00
15/5/2012	0:06	Cloudy	Middle	1.5	26.70	26.70	20.70	7.94	7.94	7.94	27.30	27.30	27.30	82.8	81.5	02.2	5.67	5.57	5.65	0.61	0.62	0.00	3	3.00
47/5/004.0	14:45	Fine	Middle	2.5	26.20	26.20	26.25	8.29	8.29	8.29	28.72	28.72	28.73	72.0	71.7	71.6	4.95	4.93	1.00	3.49	3.40	3.44	3	0.00
17/5/2012	14:48	Fine	Middle	2.5	26.30	26.30	20.20	8.28	8.28	8.29	28.73	28.73	28.73	71.2	71.4	71.0	4.89	4.91	4.92	3.31	3.54	3.44	3	3.00
19/5/2012	20:32	Cloudy	Middle	2.0	26.30	26.30	26.30	7.94	7.94	7.94	28.56	28.56	28.56	74.8	76.3	75.1	5.15	5.24	5.16	2.45	2.30	2.45	6	6.50
19/5/2012	20:33	Cloudy	Middle	2.0	26.30	26.30	20.30	7.94	7.94	7.94	28.56	28.56	28.30	74.3	75.0	75.1	5.10	5.16	5.10	2.34	2.69	2.45	7	6.50
21/5/2012	20:54	Cloudy	Middle	2.0	26.10	26.10	26.10	8.00	8.00	8.00	28.87	28.87	29.97	68.6	69.2	60.1	4.71	4.76	4 75	3.00	2.84	2.80	4	2.50
21/5/2012	20:55	Cloudy	Middle	2.0	26.10	26.10	26.10	8.00	8.00	8.00	28.87	28.87	28.87	69.3	69.3	69.1	4.76	4.76	4.75	2.78	2.57	2.80	3	3.50
22/5/2012	21:40	Fine	Middle	2.0	26.30	26.30	26.20	7.98	7.98	7.00	29.17	29.17	20.47	67.2	68.3	67.4	4.60	4.68	4.64	4.00	3.92	2.04	4	4.50
23/5/2012	21:41	Fine	Middle	2.0	26.30	26.30	26.30	7.98	7.98	7.98	29.17	29.17	29.17	67.8	66.3	67.4	4.62	4.54	4.61	3.85	3.85	3.91	5	4.50
05/5/0040	23:50	Fine	Middle	2.0	27.00	27.00	07.00	8.00	8.00	0.00	29.08	29.08	00.00	63.2	64.0	00.5	4.27	4.32	1.00	3.29	3.61	0.07	5	5.50
25/5/2012	23:51	Fine	Middle	2.0	27.00	27.00	27.00	8.00	8.00	8.00	29.08	29.08	29.08	63.5	63.2	63.5	4.29	4.27	4.29	3.35	3.24	3.37	6	5.50

Remarks:

Single underline denotes exceedance over Action level

am Water Monitoring Result at C7 - Windsor House

	-																			
Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	İy	D	O Satur	ation		DO		
Date		Condition	n	n	Va	°C Ilue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	ł
	23:35		Middle	1.5	24.75	24.75		7.80	7.80		29.19	29.19		73.7	73.9		5.18	5.19		Ī
1/5/2012	23:36	Cloudy	Middle	1.5	24.75	24.75	24.75	7.80	7.79	7.80	29.19	29.19	29.19	73.8	74.2	73.9	5.18	5.20	5.19	ľ
2/5/2042	13:56	Claudu	Middle	1.5	28.00	28.00	20.05	8.11	8.11	0.40	28.40	28.40	20.40	77.0	75.8	70.0	5.20	5.12	E 40	Ī
2/5/2012	13:57	Cloudy	Middle	1.5	28.10	28.10	28.05	8.12	8.12	8.12	28.40	28.40	28.40	77.7	76.6	76.8	5.24	5.17	5.18	Ī
4/5/0040	15:35	Fire	Middle	1.5	26.60	26.60	00.00	7.33	7.33	7.34	26.95	26.95	26.96	53.7	53.6	50.0	3.73	3.72	0.70	Ī
4/5/2012	15:38	Fine	Middle	1.5	26.60	26.60	26.60	7.34	7.34	7.34	26.97	26.97	26.96	53.3	52.6	53.3	3.69	3.66	3.70	
7/5/2042	18:37	Fine	Middle	1.5	25.40	25.40	25.40	8.15	8.15	8.15	28.28	28.28	28.28	75.5	75.6	75.0	5.25	5.26	E 04	Ī
7/5/2012	18:38	Fine	Middle	1.5	25.40	25.40	25.40	8.15	8.15	8.15	28.28	28.28	20.20	74.2	74.6	75.0	5.14	5.17	5.21	
9/5/2012	22:10	Fine	Middle	1.5	27.30	27.30	27.30	8.19	8.19	8.19	26.52	26.52	26.52	84.4	84.5	84.2	5.76	5.76	5.74	Ī
9/5/2012	22:11	Fille	Middle	1.5	27.30	27.30	21.30	8.19	8.19	0.19	26.52	26.52	20.32	83.8	83.9	04.2	5.71	5.72	5.74	Ī
11/5/2012	23:51	Claudu	Middle	1.5	25.30	25.30	25.20	7.79	7.79	7.79	27.83	27.83	27.83	72.9	72.9	70.4	5.12	5.12	5.08	Ī
11/5/2012	23:52	Cloudy	Middle	1.5	25.30	25.30	25.30	7.79	7.79	1.19	27.83	27.83	27.03	72.1	71.5	72.4	5.06	5.02	5.08	Ī
15/5/2012	23:48	Cloudy	Middle	1.0	26.60	26.60	26.60	7.81	7.81	7.81	27.10	27.10	27.10	71.0	71.2	70.8	4.88	4.89	4.87	Ī
15/5/2012	23:49	Cloudy	Middle	1.0	26.60	26.60	20.00	7.81	7.81	7.01	27.10	27.10	27.10	70.7	70.4	70.8	4.86	4.84	4.07	
17/5/2012	15:05	Fine	Middle	1.5	27.40	27.40	27.45	8.02	8.02	8.03	27.76	27.76	27.77	46.6	47.1	47.4	3.15	3.18	3.20	Ī
17/3/2012	15:08	Fille	Middle	1.5	27.50	27.50	27.43	8.03	8.03	0.03	27.78	27.78	21.11	47.7	48.3	47.4	3.22	3.26	3.20	
19/5/2012	20:18	Cloudy	Middle	1.5	26.00	26.00	26.00	7.74	7.74	7.74	26.77	26.77	26.77	60.2	60.0	60.0	4.20	4.18	4.19	Ī
19/3/2012	20:19	Cloudy	Middle	1.5	26.00	26.00	20.00	7.74	7.74	7.74	26.76	26.76	20.77	59.4	60.2	60.0	4.19	4.20	4.19	
21/5/2012	20:27	Cloudy	Middle	1.5	26.10	26.10	26.10	7.75	7.75	7.75	27.07	27.07	27.07	63.5	63.7	63.6	4.41	4.43	4.42	Ī
21/3/2012	20:28	Cioudy	Middle	1.5	26.10	26.10	20.10	7.74	7.74	1.15	27.07	27.07	21.01	63.7	63.3	03.0	4.42	4.40	4.42	I
23/5/2012	21:07	Fine	Middle	1.5	26.20	26.20	26.15	7.82	7.82	7.82	28.38	28.38	28.38	57.4	59.0	58.9	3.96	4.07	4.07	ĺ
23/3/2012	21.00	Fille	Midalla	4.5	20.40	20.40	20.10	7.00	7.00		20.20	20.20	20.30	50.7	50 F	50.9	4.40	4.4.4	4.07	ſ

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Turbidity

NTU

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4.59

4.35

0.72

0.66

0.50

0.31

0.25

0.26

0.20

0.13

Average

1.12

0.65

2.50

0.86

1.33

0.48

0.47

4.40

0.68

0.38

0.28

0.19

Value

1.01

1.15

0.77

0.58

2.50

2.45

0.93

0.93

1.69

1.20

0.51

0.53

0.59

0.41

4.49

4.15

0.67

0.65

0.38

0.33

0.30

0.29

0.23

0.18

Suspended Solids

mg/L

3

4

3

4

7

6

5

4

5

4

<2

<2

3

3

<2

<2

<2

<2

6

7

<2

<2

<2

<2

Value Average

3.50

3.50

6.50

4.50

4.50

<2

3.00

<2

<2

6.50

<2

<2

Mid-Flood Tide

Remarks:

25/5/2012

Single underline denotes exceedance over Action level

21:08

23:35

23:36

Fine

Middle

Middle

Middle

1.5

1.5

1.5

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

Date	Time	Weater Condition	Samplin	Ŭ I	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbic NTU		Suspende	led Solids
		o ornalition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	Average
1/5/2012	0:29	Cloudy	Middle	1.5	25.00	25.00	25.05	7.78	7.78	7.79	27.90	27.90	27.90	86.8	86.5	86.1	6.10	6.03	6.02	1.01	1.08	1.06	<2	<2
	0:31		Middle	1.5	25.10	25.10		7.79	7.79		27.90	27.90		85.5	85.6		5.97	5.99		1.11	1.03		<2	
2/5/2012	16:25	Cloudy	Middle	2.0	27.00	27.00	27.00	7.80	7.80	7.81	26.76	26.76	26.77	84.2	82.8	83.9	5.79	5.69	5.77	3.56	3.78	3.68	<2	<2
	16:27		Middle	2.0	27.00	27.00		7.81	7.81		26.77	26.77		83.3	85.4		5.72	5.86		3.67	3.72		<2	
4/5/2012	16:28	Fine	Middle	2.5	26.40	26.40	26.45	7.50	7.50	7.51	27.26	27.26	27.26	71.8	71.9	71.8	4.96	4.97	4.96	4.93	4.87	5.00	6	6.50
1,0,2012	16:30	1 1110	Middle	2.5	26.50	26.50	20.10	7.52	7.52		27.25	27.25	21.20	71.6	71.7	1110	4.94	4.95		5.09	5.12	0.00	7	0.00
7/5/2012	19:12	Fine	Middle	1.5	25.40	25.40	25.45	8.39	8.39	8.40	28.50	28.50	28.55	92.6	92.5	92.3	7.54	7.54	7.52	3.19	3.22	3.18	4	4.00
110/2012	19:14	1 110	Middle	1.5	25.50	25.50	20.40	8.40	8.40	0.40	28.60	28.60	20.00	92.2	92.0	02.0	7.51	7.49	1.02	3.11	3.21	0.10	4	4.00
9/5/2012	21:42	Fine	Middle	2.0	27.10	27.10	27.05	8.31	8.31	8.31	27.29	27.29	27.30	90.6	89.9	90.5	6.29	6.25	6.29	3.43	3.15	3.27	3	3.50
5/5/2012	21:44	1 ine	Middle	2.0	27.00	27.00	27.05	8.31	8.31	0.51	27.30	27.30	27.50	90.4	91.0	50.5	6.26	6.34	0.29	3.18	3.32	5.27	4	3.50
11/5/2012	23:56	Claudu	Middle	2.0	25.00	25.00	25.00	8.26	8.26	8.27	30.68	30.68	23.93	82.4	82.0	81.8	5.73	5.70	5.68	3.55	3.42	3.50	4	3.50
11/5/2012	23:58	Cloudy	Middle	2.0	25.00	25.00	25.00	8.27	8.27	0.27	3.67	30.67	23.93	81.3	81.6	01.0	5.64	5.66	0.00	3.51	3.52	3.50	3	3.50
45/5/0040	23:10	Olauta	Middle	1.5	26.70	26.70	00.70	7.81	7.81	7.00	28.51	28.51	00.54	92.6	93.0	00.7	6.33	6.37	0.05	2.04	2.21	0.07	4	4.00
15/5/2012	23:12	Cloudy	Middle	1.5	26.70	26.70	26.70	7.82	7.82	7.82	28.50	28.50	28.51	92.5	92.8	92.7	6.33	6.35	6.35	2.43	2.40	2.27	4	4.00
17/5/00.10	15:53		Middle	2.5	26.70	26.70	00.70	8.22	8.22		29.07	29.07		80.1	80.2		5.45	5.46	- 17	7.32	7.41	7.67	3	
17/5/2012	15:56	Fine	Middle	2.5	26.70	26.70	26.70	8.23	8.23	8.23	29.08	29.08	29.08	80.3	80.4	80.3	5.47	5.48	5.47	7.89	7.66	7.57	3	3.00
10/5/0010	19:50		Middle	2.0	26.10	26.10	00.45	8.29	8.29		28.58	28.58	00.50	71.7	72.0	74.0	5.08	5.10	5.00	2.35	2.61		5	
19/5/2012	19:52	Cloudy	Middle	2.0	26.20	26.20	26.15	8.30	83.00	26.97	28.60	28.60	28.59	70.9	71.6	71.6	5.09	5.09	5.09	2.30	2.40	2.42	4	4.50
	17:35		Middle	2.0	26.40	26.40		8.30	8.30		29.40	29.40		71.6	72.2		4.88	4.93		2.96	2.74		5	
21/5/2012	17:37	Cloudy	Middle	2.0	26.40	26.40	26.40	8.32	8.32	8.31	29.41	29.41	29.41	73.0	71.7	72.1	4.98	4.89	4.92	2.84	2.88	2.86	6	5.50
	21:29		Middle	1.5	25.80	25.80		7.98	7.98		30.48	30.48		80.8	80.1		5.55	5.50		4.98	4.96		4	
23/5/2012	21:31	Fine	Middle	1.5	25.80	25.80	25.80	7.99	7.99	7.99	30.49	30.49	30.49	80.9	80.6	80.6	5.56	5.54	5.54	4.99	4.91	4.96	6	5.00
	22:15		Middle	2.0	26.50	26.50		8.15	8.15		29.78	29.78		56.9	57.1		3.90	3.93		2.32	2.08		4	
25/5/2012	22:17	Fine	Middle	2.0	26.40	26.40	26.45	8.16	8.16	8.16	29.79	29.79	29.79	57.4	57.4	57.2	3.94	3.96	3.93	2.33	2.21	2.24	5	4.50

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTU		Suspende	
		Condition	r	n	Va	<u> </u>	Average	Va	lue -	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	-	Average	mç Value	J/∟ Average
1/5/2012	23:04	Cloudy	Middle	1.0	25.20	25.20	25.15	7.78	7.78	7.78	28.81	28.81	28.82	84.0	84.1	83.8	5.86	5.87	5.85	1.65	1.72	1.71	<2	<2
170/2012	23:06	Cloudy	Middle	1.0	25.10	25.10	20.10	7.77	7.77	1.10	28.82	28.82	20.02	83.5	83.5	00.0	5.85	5.83	0.00	1.67	1.81		<2	~~
2/5/2012	14:42	Cloudy	Middle	1.5	27.30	27.30	27.35	7.59	7.59	7.60	25.06	25.06	25.07	91.2	91.7	91.1	6.23	6.26	6.22	1.95	1.82	1.86	<2	<2
	14:44	,	Middle	1.5	27.40	27.40		7.60	7.60		25.07	25.07		90.9	90.5		6.20	6.17		1.77	1.91		<2	
4/5/2012	17:30	Fine	Middle	2.0	27.10	27.10	27.15	7.82	7.82	7.83	26.83	26.83	26.83	79.3	79.8	79.7	5.42	5.45	5.44	2.49	2.58	2.51	4	4.50
	17:33		Middle	2.0	27.20	27.20		7.83	7.83		26.82	26.82		79.7	79.9		5.44	5.46		2.46	2.51		5	
7/5/2012	17:32	Fine	Middle	1.5	26.90	26.90	26.95	8.38	8.38	8.38	28.30	28.30	28.25	96.6	96.3	96.3	7.68	7.65	7.65	3.42	2.99	3.11	5	4.50
	17:34		Middle	1.5	27.00	27.00		8.37	8.37		28.20	28.20		96.2	96.1		7.64	7.63		3.01	3.03		4	
9/5/2012	22:00	Fine	Middle	1.5	27.20	27.20	27.25	8.42	8.42	8.43	27.38	27.38	27.39	98.0	97.3	97.8	6.65	6.60	6.63	6.21	6.48	6.41	14	14.00
	22:02		Middle	1.5	27.30	27.30		8.43	8.43		27.39	27.39		97.9	98.0		6.64	6.64		6.61	6.32		14	
11/5/2012	0:15	Cloudy	Middle	1.5	26.20	26.20	26.25	8.23	8.23	8.24	30.37	30.37	30.38	85.4	84.0	84.5	5.83	5.74	5.77	4.01	4.13	4.10	<2	<2
	0:17		Middle	1.5	26.30	26.30		8.24	8.24		30.38	30.38		83.9	84.6		5.73	5.78		4.21	4.04		<2	
15/5/2012	0:45	Cloudy	Middle	1.0	26.60	26.60	26.55	8.12	8.12	8.13	29.02	29.02	29.03	89.0	88.8	88.9	6.10	6.08	6.09	4.44	4.24	4.30	13	13.50
	0:47		Middle	1.0	26.50	26.50		8.13	8.13		29.03	29.03		88.7	88.9		6.07	6.10		4.11	4.41		14	
17/5/2012	17:16	Fine	Middle	2.0	27.40	27.40	27.35	8.18	8.18	8.18	29.31	29.31	29.32	73.1	73.2	73.4	4.91	4.92	4.93	5.54	5.42	5.28	4	4.00
	17:19		Middle	2.0	27.30	27.30		8.17	8.17		29.32	29.32		73.3	73.8		4.93	4.97		5.24	4.91		4	
19/5/2012	18:00	Cloudy	Middle	1.5	26.20	26.20	26.15	8.23	8.23	8.22	28.94	28.94	28.96	67.9	67.6	67.6	4.67	4.66	4.66	2.38	2.64	2.62	4	4.50
	18:02		Middle	1.5	26.10	26.10		8.21	8.21		28.97	28.97		67.6	67.4		4.65	4.64		2.76	2.68		5	
21/5/2012	16:12	Cloudy	Middle	1.0	26.50	26.50	26.45	8.18	8.18	8.18	29.39	29.39	29.40	70.4	70.7	71.1	4.79	4.81	4.84	4.64	4.48	4.55	5	4.50
	16:14		Middle	1.0	26.40	26.40		8.17	8.17		29.40	29.40		71.7	71.5		4.88	4.86		4.82	4.25		4	
23/5/2012	19:40	Fine	Middle	1.0	26.10	26.10	26.15	7.99	7.99	7.99	30.20	30.20	30.21	73.9	73.8	74.1	5.06	5.05	5.07	4.20	4.38	4.34	6	6.50
	19:42		Middle	1.0	26.20	26.20		7.98	7.98		30.21	30.21		73.9	74.7		5.06	5.11		4.63	4.16		7	
25/5/2012	20:54	Fine	Middle	1.0	26.40	26.40	26.45	8.38	8.38	8.39	29.64	29.64	29.64	56.1	56.0	56.2	3.82	3.81	3.82	3.37	3.41	3.39	7	7.00
	20:56		Middle	1.0	26.50	26.50		8.39	8.39		29.63	29.63		56.5	56.0		3.85	3.81		3.66	3.12		7	

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbic NTU		Suspend	ed Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
1/5/2012	23:39	Cloudy	Middle	2.0	26.10	26.10	26.10	7.69	7.69	7.70	28.86	28.86	28.87	51.9	51.8	51.8	3.63	3.62	3.62	3.62	3.66	3.56	9	8.00
	23:41		Middle	2.0	26.10	26.10		7.70	7.70		28.87	28.87		51.6	52.0		3.60	3.64		3.43	3.51		7	
2/5/2012	15:27	Cloudy	Middle	2.5	26.50	26.50	26.50	7.70	7.70	7.70	26.71	26.71	26.72	65.2	64.6	65.1	4.49	4.45	4.48	2.21	2.15	2.21	7	7.00
	15:29		Middle	2.5	26.50	26.50		7.70	7.70		26.72	26.72		64.9	65.7		4.47	4.52		2.37	2.11		7	
4/5/2012	17:14	Fine	Middle	3.0	26.40	26.40	26.45	7.30	7.30	7.31	27.19	27.19	27.20	63.5	63.0	62.9	4.37	4.34	4.33	5.47	6.01	5.84	6	6.00
	17:17		Middle	3.0	26.50	26.50		7.31	7.31		27.20	27.20		62.6	62.3		4.32	4.30		5.85	6.04		6	
7/5/2012	18:11	Fine	Middle	2.5	26.00	26.00	26.05	8.32	8.32	8.33	28.30	28.30	28.35	80.6	80.3	79.9	6.50	6.49	6.46	1.99	1.78	1.89	3	3.00
113/2012	18:13	1 IIIC	Middle	2.5	26.10	26.10	20.00	8.33	8.33	0.00	28.40	28.40	20.00	79.7	79.1	13.5	6.44	6.39	0.40	1.88	1.91	1.05	3	3.00
9/5/2012	20:32	Fine	Middle	2.5	27.30	27.30	27.30	8.25	8.25	8.26	28.16	28.16	28.17	73.7	74.5	74.0	4.98	5.04	5.01	4.35	4.65	4.56	14	13.50
9/5/2012	20:34	rine	Middle	2.5	27.30	27.30	27.30	8.26	8.26	0.20	28.17	28.17	20.17	74.6	73.3	74.0	5.05	4.96	5.01	4.66	4.58	4.00	13	13.50
	22:37		Middle	2.5	25.40	25.40		8.24	8.24		30.14	30.14		63.6	66.3		4.39	4.58		3.93	3.95		4	
11/5/2012	22:39	Cloudy	Middle	2.5	25.40	25.40	25.40	8.23	8.23	8.24	30.15	30.15	30.15	65.5	64.9	65.1	4.53	4.49	4.50	3.67	3.82	3.84	4	4.00
	0:32		Middle	2.5	26.70	26.70		8.29	8.29		26.99	26.99		72.0	71.8		4.87	4.86		3.93	3.99		4	
15/5/2012	0:34	Cloudy	Middle	2.5	26.80	26.80	26.75	8.30	8.30	8.30	27.00	27.00	27.00	73.1	73.3	72.6	4.92	4.93	4.90	3.62	3.77	3.83	5	4.50
/_/	16:56		Middle	3.0	27.30	27.30		8.21	8.21		28.97	28.97		60.0	60.3		4.65	4.67		5.36	5.68		5	
17/5/2012	16:59	Fine	Middle	3.0	27.20	27.20	27.25	8.22	8.22	8.22	28.96	28.96	28.97	61.5	62.2	61.0	4.15	4.20	4.42	5.49	5.30	5.46	6	5.50
10/5/0010	18:43	Olavata	Middle	3.0	26.30	26.30	00.00	8.34	8.34	0.01	28.64	28.64	00.04	51.3	51.9	54.0	3.52	3.56	0.55	3.09	2.83	0.00	4	4.50
19/5/2012	18:45	Cloudy	Middle	3.0	26.30	26.30	26.30	8.34	8.34	8.34	28.64	28.64	28.64	51.6	51.7	51.6	3.55	3.55	3.55	2.99	3.01	2.98	5	4.50
21/5/2012	16:36	Cloudy	Middle	2.5	26.70	26.70	26.70	8.24	8.24	8.25	29.35	29.35	20.25	58.6	58.8	E9 E	3.98	4.00	2.09	3.65	3.20	2.46	8	7.00
21/5/2012	16:38	Cloudy	Middle	2.5	26.70	26.70	26.70	8.25	8.25	6.20	29.34	29.34	29.35	58.8	57.8	58.5	3.99	3.93	3.98	3.53	3.46	3.46	6	7.00
23/5/2012	20:31	Fine	Middle	2.5	26.50	26.50	26.45	8.02	8.02	8.02	29.93	29.93	29.94	57.7	58.4	57.6	3.93	3.98	3.93	5.80	5.99	5.87	6	6.00
23/3/2012	20:33	FILLE	Middle	2.5	26.40	26.40	20.40	8.02	8.02	0.02	29.94	29.94	29.94	57.9	56.5	57.0	3.94	3.85	3.93	5.88	5.79	5.07	6	0.00
25/5/2012	21:28	Fine	Middle	2.5	26.60	26.60	26.65	8.32	8.32	8.33	29.20	29.20	29.21	57.1	57.0	57.0	3.91	3.90	3.90	3.96	4.01	4.00	8	7.50
23/3/2012	21:30	Fine	Middle	2.5	26.70	26.70	20.00	8.33	8.33	0.33	29.21	29.21	29.21	56.8	57.0	57.0	3.89	3.91	3.90	4.04	3.99	4.00	7	1.30

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	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	ppt lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	23:28	Cloudy	Middle	1.0	25.10	25.10	25.10	7.54	7.54	7.55	27.73	27.73	27.74	49.9	50.1	50.2	3.50	3.51	3.52	4.12	4.14	4.16	3	4.00
	23:30		Middle	1.0	25.10	25.10		7.55	7.55		27.74	27.74		50.2	50.5		3.52	3.53		4.18	4.20		5	
2/5/2012	15:08	Cloudy	Middle	1.5	27.00	27.00	27.00	7.77	7.77	7.78	26.50	26.50	26.51	69.0	69.1	69.5	4.73	4.73	4.76	1.94	1.74	1.83	4	4.00
	15:10		Middle	1.5	27.00	27.00		7.78	7.78		26.51	26.51		70.2	69.6		4.81	4.76		1.72	1.91		4	
4/5/2012	17:02	Fine	Middle	1.5	26.80	26.80	26.85	7.44	7.49	7.45	27.22	27.22	27.23	64.9	64.8	64.8	4.45	4.44	4.44	6.39	6.51	6.53	5	4.50
4/0/2012	17:05	1 110	Middle	1.5	26.90	26.90	20.00	7.43	7.43	1.40	27.23	27.23	21.20	64.7	64.9	04.0	4.43	4.45	-1	6.54	6.68	0.00	4	4.00
7/5/2012	17:54	Fine	Middle	1.5	26.30	26.30	26.35	8.36	8.36	8.37	28.10	28.10	28.15	91.7	91.3	91.2	7.36	7.34	7.33	3.17	3.22	3.13	4	3.50
170/2012	17:56		Middle	1.5	26.40	26.40	20.00	8.37	8.37	0.01	28.20	28.20	20.10	91.0	90.8	01.2	7.31	7.29	1.00	3.03	3.11	0.10	3	0.00
9/5/2012	20:12	Fine	Middle	1.5	27.30	27.30	27.30	8.34	8.34	8.35	27.51	27.51	27.52	85.8	86.2	85.9	5.83	5.85	5.84	3.66	3.62	3.58	5	5.00
0/0/2012	20:14		Middle	1.5	27.30	27.30	21.00	8.35	8.35	0.00	27.52	27.52	21.02	86.0	85.6	00.0	5.84	5.82	0.04	3.55	3.50	0.00	5	0.00
11/5/2012	22:15	Cloudy	Middle	1.5	25.50	25.50	25.45	8.11	8.11	8.12	29.64	29.64	29.65	65.6	66.8	66.4	4.62	4.63	4.62	4.88	4.98	4.86	<2	<2
11/3/2012	22:17	Cloudy	Middle	1.5	25.40	25.40	23.43	8.12	8.12	0.12	29.65	29.65	23.03	66.5	66.7	00.4	4.61	4.63	4.02	4.76	4.81	4.00	<2	~2
15/5/2012	0:07	Cloudy	Middle	1.0	26.80	26.80	26.80	8.43	8.43	8.43	26.95	26.95	26.96	54.1	55.7	55.5	3.71	3.82	3.81	4.27	4.33	4.21	4	4.50
13/3/2012	0:09	Cloudy	Middle	1.0	26.80	26.80	20.00	8.42	8.42	0.45	26.96	26.96	20.90	55.4	56.9	55.5	3.80	3.91	5.01	4.01	4.22	4.21	5	4.50
17/5/2012	16:42	Fine	Middle	1.0	27.30	27.30	27.35	8.19	8.19	8,19	28.98	28.98	28.99	58.3	59.1	59.4	3.94	3.99	4.01	5.22	5.49	5.35	5	4.50
17/3/2012	16:45	1 lile	Middle	1.0	27.40	27.40	21.33	8.18	8.18	0.19	28.99	28.99	20.33	60.0	60.3	33.4	4.04	4.07	4.01	5.39	5.28	5.55	4	4.50
19/5/2012	18:21	Cloudy	Middle	1.5	26.10	26.10	26.15	8.12	8.12	8.12	28.54	28.54	28.53	59.6	59.5	59.9	4.10	4.10	4.12	4.43	4.71	4.50	5	4.50
10/0/2012	18:22	Cloudy	Middle	1.5	26.20	26.20	20.10	8.12	8.12	0.12	28.52	28.52	20.00	60.5	59.8	00.0	4.17	4.12	4.12	4.27	4.60	4.00	4	4.00
21/5/2012	16:22	Cloudy	Middle	1.5	26.90	26.90	26.85	8.25	8.25	8.25	29.24	29.24	29.25	56.5	58.0	57.4	3.83	3.93	3.89	5.62	5.72	5.63	9	9.00
21/3/2012	16:24	Cloudy	Middle	1.5	26.80	26.80	20.05	8.25	8.25	0.25	29.25	29.25	29.23	57.8	57.2	57.4	3.91	3.87	3.09	5.75	5.41	5.05	9	9.00
23/5/2012	20:05	Fine	Middle	1.0	26.50	26.50	26.50	8.02	8.02	8.02	30.01	30.01	30.02	60.0	60.5	60.5	4.08	4.12	4.12	3.59	3.89	3.80	3	4.00
23/3/2012	20:07		Middle	1.0	26.50	26.50	20.00	8.01	8.01	0.02	30.02	30.02	30.02	60.4	61.2	00.5	4.11	4.17	4.12	3.88	3.83	3.00	5	4.00
25/5/2012	21:10	Fine	Middle	1.0	26.90	26.90	26.85	8.18	8.18	8.19	29.42	29.42	29.43	55.9	55.8	55.8	3.80	3.79	3.79	2.01	1.93	1.99	4	3.50
23/3/2012	21:12		Middle	1.0	26.80	26.80	20.00	8.19	8.19	0.19	29.43	29.43	23.43	55.9	55.7	55.0	3.81	3.77	3.19	1.99	2.04	1.33	3	3.30

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition		g Depth	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		oonalion	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Value	Average
1/5/2012	23:32	Cloudy	Middle	1.5	25.10	25.10	25.10	7.56	7.56	7.57	28.78	28.78	28.79	50.3	50.4	50.8	3.52	3.52	3.55	1.24	1.26	1.25	<2	<2
	23:34		Middle	1.5	25.10	25.10		7.57	7.57		28.79	28.79		51.1	51.3		3.58	3.59		1.31	1.19		<2	
2/5/2012	15:20	Cloudy	Middle	1.5	26.40	26.40	26.40	7.68	7.68	7.69	26.65	26.65	26.66	52.3	53.4	53.2	3.62	3.69	3.68	0.21	0.44	0.42	4	3.50
	15:22		Middle	1.5	26.40	26.40		7.69	7.69		26.66	26.66		52.1	55.0		3.60	3.80		0.48	0.56		3	
4/5/2012	17:07	Fine	Middle	1.5	26.50	26.50	26.55	7.25	7.25	7.25	26.81	26.81	26.81	64.3	64.0	63.7	4.45	4.42	4.40	1.89	1.53	1.64	<2	<2
4/3/2012	17:10	T IIIC	Middle	1.5	26.60	26.60	20.00	7.24	7.24	1.20	26.80	26.80	20.01	63.3	63.1	05.7	4.37	4.36	4.40	1.49	1.65	1.04	<2	~2
7/5/2012	18:03	Fine	Middle	1.5	26.00	26.00	26.05	8.38	8.38	8.39	28.10	28.10	28.15	91.1	91.0	90.9	7.35	7.32	7.32	4.93	4.99	4.95	9	9.00
7/5/2012	18:05	Fille	Middle	1.5	26.10	26.10	20.05	8.39	8.39	0.39	28.20	28.20	20.15	90.8	90.7	90.9	7.31	7.31	7.32	4.91	4.95	4.95	9	9.00
0/5/2012	20:21	Fine	Middle	1.5	27.30	27.30	27.20	8.31	8.31	0.00	26.92	26.92	20.02	81.8	81.4	01.0	6.00	5.96	E 00	4.74	4.81	4.70	6	5.00
9/5/2012	20:23	Fine	Middle	1.5	27.30	27.30	27.30	8.32	8.32	8.32	26.93	26.93	26.93	81.0	81.0	81.3	5.93	5.94	5.96	4.66	4.92	4.78	4	5.00
	22:25	a i i	Middle	1.5	25.50	25.50		8.08	8.08		29.86	29.86		60.9	60.8		4.22	4.21		1.56	1.52		<2	
11/5/2012	22:27	Cloudy	Middle	1.5	25.40	25.40	25.45	8.09	8.09	8.09	29.87	29.87	29.87	61.1	61.3	61.0	4.23	4.24	4.23	1.36	1.41	1.46	<2	<2
	0:24		Middle	1.5	26.70	26.70		8.32	8.32		26.99	26.99		60.5	61.6		4.15	4.23		3.04	3.03		3	
15/5/2012	0:26	Cloudy	Middle	1.5	26.80	26.80	26.75	8.33	8.33	8.33	26.98	26.98	26.99	61.3	62.1	61.4	4.20	4.26	4.21	3.21	3.22	3.13	3	3.00
	16:47		Middle	1.0	27.20	27.20		8.28	8.28		28.96	28.96		61.7	62.0		4.17	4.19		5.88	6.13		6	
17/5/2012	16:50	Fine	Middle	1.0	27.30	27.30	27.25	8.29	8.29	8.29	29.97	28.97	29.22	62.4	62.8	62.2	4.22	4.24	4.21	6.34	6.69	6.26	6	6.00
	18:29		Middle	1.5	26.20	26.20		8.32	8.32		28.38	28.38		49.2	48.9		3.38	3.36		2.39	2.40		4	
19/5/2012	18:31	Cloudy	Middle	1.5	26.20	26.20	26.20	8.32	8.32	8.32	28.39	28.39	28.39	48.2	48.5	48.7	3.31	3.34	3.35	2.13	2.36	2.32	4	4.00
	16:28		Middle	1.5	26.60	26.60		8.31	8.31		29.33	29.33		61.5	62.0		4.19	4.23		4.48	4.82		6	
21/5/2012	16:30	Cloudy	Middle	1.5	26.70	26.70	26.65	8.32	8.32	8.32	29.34	29.34	29.34	62.8	61.9	62.1	4.25	4.22	4.22	4.29	4.34	4.48	6	6.00
	20:15		Middle	1.5	26.50	26.50		7.99	7.99		30.09	30.09		52.7	53.2		3.59	3.62		4.83	4.35		2	
23/5/2012	20:17	Fine	Middle	1.5	26.50	26.50	26.50	7.98	7.98	7.99	30.10	30.10	30.10	54.0	54.1	53.5	3.67	3.68	3.64	4.55	4.50	4.56	4	3.00
	21:20		Middle	1.5	26.80	26.80		8.20	8.20		29.38	29.38		56.3	56.5		3.84	3.85		2.78	2.69		4	
25/5/2012	21:22	Fine	Middle	1.5	26.80	26.80	26.80	8.20	8.20	8.20	29.38	29.38	29.38	56.2	56.6	56.4	3.84	3.87	3.85	2.81	2.68	2.74	6	5.00

Remarks:

Single underline denotes exceedance over Action level

am wa

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

Date	Time	Weater Condition		g Depth	Wate	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	
		Condition	n	n	Va		Average	Va	lue	Average	Va		Average	Va		Average	Va		Average	Va		Average		Average
1/5/2012	0:14	Cloudy	Middle	1.5	25.10	25.10	25.05	7.75	7.75	7.75	28.60	28.60	28.59	67.6	67.5	67.7	4.73	4.72	4.74	4.99	4.87	4.78	7	6.50
	0:16	,	Middle	1.5	25.00	25.00		7.75	7.75	-	28.58	28.58		67.8	67.9	-	4.75	4.76		4.56	4.71		6	
2/5/2012	17:00	Cloudv	Middle	1.5	26.70	26.70	26.70	7.79	7.79	7.80	26.68	26.68	26.69	77.6	76.6	76.9	5.37	5.30	5.32	3.81	3.77	3.78	3	4.00
	17:02	,	Middle	1.5	26.70	26.70		7.80	7.80		26.69	26.69		76.2	77.0		5.27	5.33		3.73	3.79		5	
4/5/2012	16:50	Fine	Middle	1.5	26.50	26.50	26.55	7.54	7.54	7.54	27.18	27.18	27.18	75.0	75.1	75.1	5.17	5.18	5.17	4.55	4.81	4.67	4	4.00
	16:53		Middle	1.5	26.60	26.60		7.53	7.53		27.17	27.17		74.8	75.3		5.15	5.19		4.62	4.71		4	
7/5/2012	18:46	Fine	Middle	1.5	25.60	25.60	25.65	8.43	8.43	8.43	28.10	28.10	28.15	93.0	92.7	92.1	7.56	7.53	7.48	3.55	3.14	3.31	4	3.50
	18:48		Middle	1.5	25.70	25.70		8.43	8.43		28.20	28.20		91.3	91.3		7.42	7.41		3.31	3.22		3	
9/5/2012	21:22	Fine	Middle	1.5	27.10	27.10	27.05	8.19	8.19	8.19	27.21	27.21	27.22	86.0	86.1	86.1	5.85	5.86	5.85	3.79	3.77	3.77	6	6.00
	21:24		Middle	1.5	27.00	27.00		8.18	8.18		27.22	27.22		85.9	86.2		5.83	5.86		3.62	3.89		6	
11/5/2012	21:38	Cloudy	Middle	1.5	25.40	25.40	25.45	8.22	8.22	8.22	30.19	30.19	30.19	79.3	79.0	78.8	5.47	5.45	5.44	4.04	4.07	4.11	3	3.50
11/0/2012	21:40	Cloudy	Middle	1.5	25.50	25.50	20.40	8.21	8.21	0.22	30.18	30.18	00.10	78.7	78.3	10.0	5.43	5.41	0.44	4.11	4.23		4	0.00
15/5/2012	23:52	Cloudy	Middle	1.0	26.80	26.80	26.85	8.13	8.13	8.13	29.21	29.21	29.22	78.0	77.9	78.2	5.27	5.26	5.29	4.01	4.41	4.25	3	3.00
10/0/2012	23:54	Cloudy	Middle	1.0	26.90	26.90	20.00	8.13	8.13	0.10	29.22	29.22	20.22	78.2	78.5	10.2	5.29	5.32	0.20	4.40	4.18	4.20	3	0.00
17/5/2012	16:25	Fine	Middle	1.0	27.30	27.30	27.35	8.22	8.22	8.23	28.61	28.61	28.62	68.5	68.8	69.1	4.63	4.66	4.67	3.52	3.51	3.48	3	4.00
11/3/2012	16:28	1 line	Middle	1.0	27.40	27.40	21.55	8.23	8.23	0.20	28.62	28.62	20.02	69.3	69.6	03.1	4.68	4.70	4.07	3.39	3.49	0.40	5	4.00
19/5/2012	19:28	Cloudy	Middle	1.5	26.30	26.30	26.30	8.33	8.33	8.34	27.57	27.57	27.58	55.0	54.7	54.9	3.80	3.77	3.79	3.56	4.01	3.80	5	4.00
16/6/2012	19:30	Cloudy	Middle	1.5	26.30	26.30	20.00	8.34	8.34	0.04	27.59	27.59	21.00	54.6	55.1	04.0	3.77	3.80	0.10	4.09	3.52	0.00	3	4.00
21/5/2012	17:03	Cloudy	Middle	1.5	26.70	26.70	26.70	7.97	7.97	7.98	27.29	27.29	27.30	61.6	61.9	61.9	4.23	4.25	4.25	4.41	4.39	4.32	4	4.50
21/3/2012	17:05	Cloudy	Middle	1.5	26.70	26.70	20.70	7.98	7.98	7.50	27.30	27.30	27.50	62.0	62.1	01.5	4.26	4.27	4.25	4.20	4.28	4.52	5	4.50
23/5/2012	21:13	Fine	Middle	1.5	27.00	27.00	27.05	7.96	7.96	7.96	29.94	29.94	29.94	66.3	67.3	65.5	4.44	4.50	4.39	3.30	3.05	3.17	5	4.00
23/3/2012	21:15	T IIIC	Middle	1.5	27.10	27.10	27.00	7.95	7.95	7.50	29.93	29.93	20.04	63.3	65.0	00.0	4.24	4.36	4.55	3.18	3.13	0.17	3	4.00
25/5/2012	21:49	Fine	Middle	1.5	27.60	27.60	27.55	7.81	7.81	7.81	29.68	29.68	29.68	46.8	46.9	47.1	3.13	3.14	3.15	2.67	2.42	2.50	5	4.50
23/3/2012	21:51		Middle	1.5	27.50	27.50	21.00	7.80	7.80	7.01	29.68	29.68	29.00	47.4	47.2	47.1	3.17	3.16	5.15	2.51	2.41	2.00	4	4.50

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salinit ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	0:18	Cloudy	Middle	1.5	25.10	25.10	25.10	7.78	7.78	7.79	28.65	28.65	28.66	67.3	68.0	67.8	4.70	4.79	4.77	4.34	4.21	4.32	7	5.50
	0:20		Middle	1.5	25.10	25.10		7.79	7.79		28.66	28.66		68.1	67.9		4.80	4.79		4.31	4.40		4	
2/5/2012	17:04	Cloudy	Middle	1.5	26.30	26.30	26.30	7.76	7.76	7.77	26.59	26.59	26.60	79.0	76.6	77.1	5.49	5.33	5.36	1.68	1.59	1.56	5	3.50
	17:06		Middle	1.5	26.30	26.30		7.77	7.77		26.60	26.60		76.5	76.1		5.34	5.29		1.41	1.55		2	
4/5/2012	16:56	Fine	Middle	1.5	26.10	26.10	26.15	7.30	7.30	7.31	27.33	27.33	27.34	74.7	75.1	74.9	5.17	5.20	5.19	4.76	4.56	4.47	9	9.50
-10/2012	16:59	1 110	Middle	1.5	26.20	26.20	20.10	7.31	7.31	7.01	27.34	27.34	27.04	75.3	74.4	14.0	5.22	5.15	0.10	4.25	4.30	-11/	10	0.00
7/5/2012	18:52	Fine	Middle	1.5	25.40	25.40	25.45	8.42	8.42	8.43	28.30	28.30	28.25	89.7	89.5	89.5	7.28	7.27	7.26	2.12	2.33	2.31	4	4.00
113/2012	18:54	1 me	Middle	1.5	25.50	25.50	20.40	8.43	8.43	0.43	28.20	28.20	20.25	89.4	89.2	00.0	7.26	7.24	7.20	2.38	2.41	2.01	4	4.00
9/5/2012	21:28	Fine	Middle	1.5	27.00	27.00	27.00	8.22	8.22	8.22	27.42	27.42	27.43	82.3	81.9	82.1	6.05	6.01	6.02	4.62	4.75	4.46	5	5.00
9/5/2012	21:30	rine	Middle	1.5	27.00	27.00	27.00	8.22	8.22	0.22	27.43	27.43	27.43	81.9	82.1	02.1	6.00	6.03	0.02	4.22	4.24	4.40	5	5.00
44/5/0040	21:34	Olauta	Middle	1.5	25.50	25.50	05 50	8.24	8.24	0.01	30.28	30.28	00.00	77.3	75.8	70.0	5.33	5.23	5.00	3.34	3.31	0.40	3	0.50
11/5/2012	21:36	Cloudy	Middle	1.5	25.50	25.50	25.50	8.24	8.24	8.24	30.29	30.29	30.29	76.7	77.4	76.8	5.29	5.34	5.30	3.55	3.49	3.42	4	3.50
45/5/0040	23:48	Olauta	Middle	1.0	26.70	26.70	00.75	8.15	8.15	0.40	29.34	29.34	00.05	76.5	76.4	70.7	5.15	5.14	F 47	4.21	4.12	1.10	5	
15/5/2012	23:50	Cloudy	Middle	1.0	26.80	26.80	26.75	8.16	8.16	8.16	29.35	29.35	29.35	76.7	77.1	76.7	5.17	5.20	5.17	4.03	4.04	4.10	7	6.00
17/5/0010	16:30	Fire	Middle	1.0	27.20	27.20	07.45	8.18	8.18	0.40	28.81	28.81	00.00	67.1	66.5	07.4	4.53	4.45	4.50	2.61	2.52	0.05	7	0.50
17/5/2012	16:33	Fine	Middle	1.0	27.10	27.10	27.15	8.18	8.18	8.18	28.82	28.82	28.82	67.3	67.5	67.1	4.55	4.56	4.52	2.84	2.64	2.65	6	6.50
10/5/2012	19:21	Claudu	Middle	1.5	26.30	26.30	20.25	8.37	8.37	0.07	26.05	26.05	20.05	62.8	62.7	62.8	4.36	4.37	4.07	5.95	5.76	5.00	8	7.50
19/5/2012	19:23	Cloudy	Middle	1.5	26.40	26.40	26.35	8.36	8.36	8.37	26.05	26.05	26.05	62.7	63.0	02.8	4.37	4.39	4.37	5.64	5.84	5.80	7	7.50
21/5/2012	17:09	Cloudy	Middle	1.5	26.80	26.80	26.80	8.28	8.28	8.28	27.62	27.62	27.62	62.1	61.5	62.2	4.26	4.21	4.26	2.61	2.53	2.48	3	3.50
21/3/2012	17:11	Cibuay	Middle	1.5	26.80	26.80	20.00	8.28	8.28	0.20	27.62	27.62	21.02	62.0	63.1	02.2	4.25	4.33	4.20	2.41	2.35	2.40	4	3.00
23/5/2012	21:17	Fine	Middle	1.5	27.10	27.10	27.05	7.88	7.88	7.89	29.77	29.77	29.78	69.9	67.7	69.1	4.69	4.53	4.63	2.93	2.99	3.07	3	4.00
23/3/2012	21:19	rine	Middle	1.5	27.00	27.00	27.00	7.89	7.89	7.69	29.78	29.78	29.78	68.8	69.8	09.1	4.61	4.68	4.03	3.01	3.33	3.07	5	4.00
25/5/2012	21:57	Fino	Middle	1.5	27.50	27.50	27.45	7.92	7.92	7.02	29.54	29.54	20.55	47.7	50.2	40.4	3.19	3.35	2 20	3.01	3.03	2 10	4	2.50
25/5/2012	21:59	Fine	Middle	1.5	27.40	27.40	27.45	7.93	7.93	7.93	29.55	29.55	29.55	50.0	49.8	49.4	3.33	3.32	3.30	3.14	3.22	3.10	3	3.50

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pН			Salinit ppt	iy.	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Condition	n	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	23:59	Cloudy	Middle	1.5	25.30	25.30	25.35	7.76	7.76	7.77	28.87	28.87	28.89	77.0	77.1	76.9	5.37	5.38	5.35	3.32	3.41	3.32	10	9.50
	0:01		Middle	1.5	25.40	25.40		7.77	7.77		28.90	28.90		76.6	76.8		5.32	5.34		3.21	3.32		9	
2/5/2012	15:52	Cloudy	Middle	1.5	28.10	28.10	28.15	7.74	7.74	7.74	26.82	26.82	26.83	76.6	76.2	76.0	5.13	5.10	5.08	3.03	3.14	3.01	5	5.00
	15:54		Middle	1.5	28.20	28.20		7.73	7.73		26.83	26.83		75.8	75.2		5.07	5.03		3.06	2.82		5	
4/5/2012	16:38	Fine	Middle	2.0	26.80	26.80	26.85	7.63	7.63	7.63	27.44	27.44	27.44	71.2	71.0	71.3	4.87	4.86	4.88	6.73	6.47	6.50	6	6.50
	16:41		Middle	2.0	26.90	26.90		7.62	7.62		27.43	27.43		71.5	71.6	-	4.89	4.90		6.30	6.50		7	
7/5/2012	18:30	Fine	Middle	1.5	26.00	26.00	26.00	8.27	8.27	8.28	25.60	25.60	25.65	89.1	88.7	88.5	7.18	7.17	7.14	5.33	5.23	5.35	6	6.00
113/2012	18:32	1 me	Middle	1.5	26.00	26.00	20.00	8.28	8.28	0.20	25.70	25.70	23.05	88.3	87.9	00.0	7.12	7.10	7.14	5.34	5.50	5.55	6	0.00
9/5/2012	20:59	Fine	Middle	2.0	26.90	26.90	26.85	8.42	8.42	8.42	27.56	27.56	27.56	93.6	91.1	92.2	6.44	6.20	6.33	7.98	7.66	7.83	44	42.50
9/5/2012	21:02	Fine	Middle	2.0	26.80	26.80	20.80	8.41	8.41	0.42	27.55	27.55	27.50	90.7	93.4	92.2	6.29	6.39	0.33	7.92	7.74	7.63	41	<u>42.50</u>
	23:13		Middle	1.5	25.40	25.40		8.31	8.31		30.29	30.29		80.9	81.4		5.59	5.62		7.55	7.56		5	
11/5/2012	23:15	Cloudy	Middle	1.5	25.30	25.30	25.35	8.30	8.30	8.31	30.28	30.28	30.29	81.0	80.8	81.0	5.60	5.58	5.60	7.49	7.71	7.58	6	5.50
	23:37		Middle	1.5	26.60	26.60		8.15	8.15		29.40	29.40		84.6	85.1		5.73	5.77		5.03	5.51		6	
15/5/2012	23:39	Cloudy	Middle	1.5	26.60	26.60	26.60	8.16	8.16	8.16	29.41	29.41	29.41	84.8	85.0	84.9	5.75	5.77	5.76	5.22	5.73	5.37	6	6.00
	16:10		Middle	2.0	27.20	27.20		8.17	8.17		29.04	29.04		69.6	69.6		4.65	4.69		3.35	3.18		<2	
17/5/2012	16:13	Fine	Middle	2.0	27.10	27.10	27.15	8.16	8.16	8.17	29.03	29.03	29.04	69.7	70.3	69.8	4.70	4.74	4.70	2.57	2.58	2.92	<2	<2
19/5/2012	19:03	Claudy	Middle	1.5	26.70	26.70	26.65	8.34	8.34	8.35	28.98	28.98	28.99	58.8	58.9	58.5	3.99	4.01	3.99	3.93	3.69	3.74	9	8.00
19/5/2012	19:05	Cloudy	Middle	1.5	26.60	26.60	20.00	8.35	8.35	8.35	28.99	28.99	28.99	58.1	58.3	58.5	3.96	3.98	3.99	3.73	3.61	3.74	7	8.00
21/5/2012	16:50	Cloudy	Middle	1.5	28.00	28.00	28.05	8.27	8.27	8.27	29.53	29.53	29.54	62.3	62.2	62.6	4.15	4.14	4.17	4.34	4.52	4.49	4	5.00
21/3/2012	16:52	Cloudy	Middle	1.5	28.10	28.10	20.00	8.26	8.26	0.27	29.54	29.54	23.54	62.6	63.3	02.0	4.16	4.21	4.17	4.44	4.67	4.45	6	5.00
23/5/2012	20:49	Fine	Middle	1.5	27.30	27.30	27.30	7.90	7.90	7.90	30.28	30.28	30.29	75.6	74.6	75.9	5.08	5.01	5.10	7.77	7.56	7.71	9	8.00
23/3/2012	20:51		Middle	1.5	27.30	27.30	21.30	7.90	7.90	1.50	30.29	30.29	30.23	77.6	75.9	13.9	5.21	5.10	5.10	7.78	7.71	1.11	7	0.00
25/5/2012	21:40	Fine	Middle	1.5	27.40	27.40	27.35	8.05	8.05	8.05	29.64	29.64	29.65	49.3	49.2	49.1	3.30	3.30	3.29	1.98	1.82	1.93	5	4.50
23/3/2012	21:42		Middle	1.5	27.30	27.30	21.00	8.04	8.04	0.00	29.65	29.65	23.05	49.0	49.0	43.1	3.28	3.29	5.25	1.91	2.01	1.35	4	4.50

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pН			Salinit ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	n	n	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
1/5/2012	1:15	Cloudy	Middle	1.5	25.16	25.16	25.17	7.91	7.91	7.91	28.52	28.52	28.51	85.7	85.7	85.6	6.00	6.00	5.99	0.60	0.88	0.74	3	3.50
	1:16		Middle	1.5	25.17	25.17		7.91	7.90		28.50	28.50		85.7	85.2		6.00	5.96		0.75	0.72		4	<u> </u>
2/5/2012	12:10	Cloudy	Middle	2.0	27.60	27.60	27.70	8.23	8.23	8.23	28.55	28.55	28.55	90.1	88.8	89.4	6.15	6.05	6.09	1.76	0.91	1.04	3	3.50
	12:12	-	Middle	2.0	27.80	27.80		8.23	8.23		28.54	28.54		90.4	88.3		6.16	6.01		0.76	0.73		4	
4/5/2012	18:05	Fine	Middle	2.0	26.60	26.60	26.65	8.34	8.34	8.34	27.56	27.56	27.56	90.5	90.9	90.7	6.21	6.24	6.23	2.74	2.51	2.70	5	5.00
	18:07		Middle	2.0	26.70	26.70		8.33	8.33		27.56	27.56		90.3	91.1		6.20	6.25		2.63	2.93		5	
7/5/2012	20:46	Fine	Middle	2.0	25.30	25.30	25.30	8.32	8.32	8.32	29.24	29.24	29.24	91.8	91.5	91.9	6.36	6.34	6.36	1.55	1.62	1.64	6	5.50
110/2012	20:47	1 110	Middle	2.0	25.30	25.30	20.00	8.32	8.32	0.02	29.24	29.24	20.24	92.8	91.4	01.0	6.40	6.34	0.00	1.68	1.69	1.04	5	0.00
9/5/2012	0:46	Fine	Middle	2.0	26.80	26.80	26.80	8.29	8.29	8.29	27.96	27.96	27.96	89.4	90.2	89.4	6.10	6.12	6.09	1.19	1.00	0.99	3	3.50
3/3/2012	0:47	1 IIIC	Middle	2.0	26.80	26.80	20.00	8.29	8.29	0.23	27.96	27.96	27.50	89.4	88.7	03.4	6.10	6.05	0.05	0.92	0.86	0.55	4	5.50
11/5/0010	1:30	Olaustu	Middle	2.0	24.80	24.80	04.00	8.03	8.03	0.00	29.44	29.44	00.45	80.5	81.3		5.64	5.69	5.00	1.93	1.90	4.70	3	4.00
11/5/2012	1:31	Cloudy	Middle	2.0	24.80	24.80	24.80	8.00	8.00	8.02	29.45	29.45	29.45	80.3	81.2	80.8	5.63	5.68	5.66	1.66	1.65	1.79	5	4.00
45/5/0040	1:27	Olaustu	Middle	2.0	26.70	26.70	00.70	7.98	7.98	7.00	27.23	27.23	07.00	85.0	86.0	05.7	5.80	5.88	5.05	0.25	0.28	0.40	5	5.50
15/5/2012	1:28	Cloudy	Middle	2.0	26.70	26.70	26.70	7.98	7.98	7.98	27.23	27.23	27.23	86.0	85.6	85.7	5.88	5.85	5.85	0.57	0.50	0.40	6	5.50
47/5/004.0	18:40	Fig.	Middle	3.0	26.40	26.40	00.05	7.99	7.99	7.00	28.35	28.35	00.05	65.9	67.5	07.4	4.50	4.61	4.50	1.84	1.82	4 77	2	0.00
17/5/2012	18:42	Fine	Middle	3.0	26.30	26.30	26.35	7.97	7.97	7.98	28.35	28.35	28.35	67.8	67.1	67.1	4.63	4.58	4.58	1.95	1.47	1.77	2	2.00
19/5/2012	21:15	Cloudy	Middle	2.0	26.10	26.10	26.10	8.08	8.08	8.08	27.97	27.97	27.97	78.3	79.4	78.7	5.40	5.48	5.43	1.05	2.05	1.59	6	5.00
19/3/2012	21:16	Cloudy	Middle	2.0	26.10	26.10	20.10	8.08	8.08	0.00	27.97	27.97	21.91	78.4	78.5	70.7	5.41	5.41	5.45	1.58	1.67	1.55	4	5.00
21/5/2012	22:20	Cloudy	Middle	2.0	25.70	25.70	25.70	7.94	7.94	7.94	28.88	28.88	28.88	71.9	72.7	72.3	4.98	5.02	5.00	2.14	2.43	2.28	3	3.50
21/3/2012	22:21	Cloudy	Middle	2.0	25.70	25.70	25.70	7.94	7.94	7.94	28.88	28.88	20.00	72.3	72.1	12.5	5.01	4.99	5.00	2.05	2.51	2.20	4	3.50
23/5/2012	20:16	Fine	Middle	2.0	26.10	26.10	26.10	8.00	8.00	8.00	29.13	29.13	29.13	78.4	78.0	77.7	5.40	5.39	5.36	2.86	2.87	2.92	5	6.00
23/3/2012	20:17	FILLE	Middle	2.0	26.10	26.10	20.10	8.00	8.00	0.00	29.13	29.13	29.13	77.0	77.4	11.1	5.30	5.33	0.00	3.04	2.91	2.92	7	0.00
25/5/2012	1:14	Fine	Middle	2.0	27.00	27.00	27.00	7.91	7.91	7.91	28.84	28.84	28.84	64.2	64.0	64.1	4.35	4.33	4.34	2.13	1.93	1.91	6	6.50
23/3/2012	1:15	1 IIIE	Middle	2.0	27.00	27.00	21.00	7.91	7.91	7.91	28.84	28.84	20.04	64.1	64.2	04.1	4.34	4.34	4.04	1.90	1.69	1.31	7	0.00

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/5/2012	0:26	Cloudy	Middle	2.0	24.91	24.91	24.94	7.87	7.87	7.85	29.79	29.79	29.79	84.0	84.2	84.1	5.87	5.88	5.87	0.96	0.86	0.89	5	4.00
	0:27		Middle	2.0	24.97	24.97		7.83	7.83		29.78	29.78		84.0	84.1		5.87	5.87		0.91	0.84		3	
2/5/2012	14:56	Cloudy	Middle	2.5	27.20	27.20	27.25	8.24	8.24	8.24	28.56	28.56	28.56	89.6	88.1	89.1	6.12	6.02	6.08	0.91	0.95	0.95	2	2.50
	14:58		Middle	2.5	27.30	27.30		8.23	8.23		28.56	28.56		89.9	88.6		6.14	6.04		1.07	0.88		3	
4/5/2012	15:25	Fine	Middle	2.0	27.00	27.00	27.05	8.45	8.45	8.44	27.14	27.14	27.15	110.1	110.4	110.4	7.49	7.56	7.55	0.72	0.79	0.73	5	4.50
	15:28		Middle	2.0	27.10	27.10		8.43	8.43		27.15	27.15		110.3	110.7		7.55	7.58		0.61	0.79		4	
7/5/2012	19:55	Fine	Middle	2.5	25.50	25.50	25.50	8.36	8.36	8.36	30.44	30.44	30.44	90.6	90.8	90.7	6.22	6.23	6.22	0.87	1.14	0.98	4	4.50
113/2012	19:56	1 1110	Middle	2.5	25.50	25.50	23.50	8.36	8.36	0.00	30.44	30.44	30.44	91.1	90.1	30.7	6.25	6.17	0.22	0.91	0.98	0.00	5	4.50
0/5/2012	23:03	Fine	Middle	2.5	27.30	27.30	27.40	8.32	8.32	0.00	30.23	30.23	20.22	91.6	92.5	01.0	6.09	6.15	6.44	1.42	1.24	1.10	2	2.00
9/5/2012	23:04	Fine	Middle	2.5	27.50	27.50	27.40	8.32	8.32	8.32	30.23	30.23	30.23	92.1	91.2	91.9	6.12	6.06	6.11	1.14	0.95	1.19	4	3.00
	0:40		Middle	2.5	24.80	24.80		8.24	8.24		29.33	29.33		89.1	90.8		6.24	6.36		0.61	0.95		3	
11/5/2012	0:41	Cloudy	Middle	2.5	24.80	24.80	24.80	8.24	8.22	8.24	29.33	29.33	29.33	89.4	89.0	89.6	6.26	6.24	6.28	0.92	0.70	0.80	3	3.00
	0:38		Middle	2.5	26.40	26.40		7.97	7.97		28.00	28.00		85.6	85.2		5.85	5.83		0.50	0.54		3	
15/5/2012	0:39	Cloudy	Middle	2.5	26.40	26.40	26.40	7.97	7.97	7.97	28.00	28.00	28.00	84.1	84.0	84.7	5.75	5.75	5.80	0.75	0.65	0.61	3	3.00
.= /= /=	15:00		Middle	3.5	27.50	27.50		7.94	7.94		28.53	28.53		74.0	73.9		4.97	4.98		1.55	1.63		<2	
17/5/2012	15:02	Fine	Middle	3.5	27.70	27.70	27.60	7.93	7.93	7.94	28.53	28.53	28.53	74.6	74.3	74.2	5.01	4.99	4.99	1.51	1.47	1.54	<2	<2
19/5/2012	19:05	Cloudy	Middle	3.0	26.50	26.50	26.50	8.03	8.03	8.03	28.94	28.94	28.94	81.5	81.0	80.6	5.56	5.53	5.50	1.04	1.02	0.98	7	6.50
19/5/2012	19:06	Cloudy	Middle	3.0	26.50	26.50	26.50	8.03	8.03	8.03	28.94	28.94	28.94	80.0	80.0	80.6	5.46	5.46	5.50	0.95	0.90	0.98	6	0.50
21/5/2012	21:28	Cloudy	Middle	3.0	25.90	25.90	25.90	8.11	8.11	8.11	29.45	29.45	29.45	81.3	80.7	80.9	5.59	5.55	5.56	1.98	1.87	1.98	4	3.50
21/3/2012	21:29	Cloudy	Middle	3.0	25.90	25.90	25.90	8.11	8.11	0.11	29.45	29.45	29.40	80.5	81.1	80.9	5.53	5.57	5.50	2.04	2.03	1.90	3	3.50
23/5/2012	22:20	Fine	Middle	3.0	26.20	26.20	26.20	8.11	8.11	8.12	29.79	29.79	29.79	79.2	79.3	79.1	5.41	5.42	5.41	2.08	2.49	2.39	5	4.50
23/3/2012	22:21	FILLE	Middle	3.0	26.20	26.20	20.20	8.13	8.13	0.12	29.79	29.79	29.19	79.2	78.8	79.1	5.41	5.39	J.41	2.55	2.44	2.39	4	4.00
25/5/2012	0:27	Fine	Middle	3.0	27.20	27.20	27.20	8.12	8.12	8.12	29.76	29.76	29.76	70.8	70.8	70.9	4.77	4.77	4.78	1.81	2.01	1.97	6	6.00
23/3/2012	0:28		Middle	3.0	27.20	27.20	21.20	8.12	8.12	0.12	29.76	29.76	23.70	70.9	70.9	10.9	4.78	4.78	4.70	2.18	1.86	1.97	6	0.00

Remarks:

Single underline denotes exceedance over Action level



Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salinit ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va		Average	Value	Average
30/4/2012	17:33	Cloudy	Middle	2.0	25.17	25.17	25.17	7.48	7.48	7.48	30.68	30.68	30.68	81.4	81.3	81.3	5.63	5.63	5.63	0.72	0.67	0.68	3	3.00
	17:34	,	Middle	2.0	25.17	25.17	-	7.48	7.48	-	30.68	30.68		81.3	81.2		5.63	5.62		0.64	0.69		3	
2/5/2012	21:05	Cloudy	Middle	2.0	25.92	25.92	25.92	7.66	7.66	7.66	28.02	28.02	28.02	83.6	83.5	83.5	5.80	5.80	5.79	0.65	0.46	0.51	2	2.00
2/0/2012	21:06	eleady	Middle	2.0	25.92	25.92	20:02	7.66	7.66	1100	28.02	28.02	20.02	83.5	83.3	00.0	5.79	5.78	0.110	0.59	0.34	0.01	<2	2.00
4/5/2012	9:20	Fine	Middle	2.0	25.60	25.60	25.60	7.68	7.68	7.67	28.96	28.96	28.97	92.6	92.6	92.3	6.41	6.41	6.39	1.35	1.37	1.37	6	5.50
4/3/2012	9:22	Tine	Middle	2.0	25.60	25.60	23.00	7.66	7.66	1.01	28.97	28.97	20.07	92.0	91.9	32.5	6.37	6.37	0.55	1.45	1.31	1.57	5	0.00
7/5/2012	10:35	Fine	Middle	3.0	25.80	25.80	25.75	8.52	8.52	8.53	30.20	30.20	30.20	101.3	101.2	101.3	8.14	8.13	8.14	0.16	0.20	0.17	3	3.50
7/5/2012	10:37	FILIE	Middle	3.0	25.70	25.70	23.75	8.53	8.53	0.55	30.20	30.20	30.20	101.5	101.2	101.5	8.15	8.14	0.14	0.12	0.18	0.17	4	3.50
9/5/2012	15:20	Fine	Middle	2.5	27.50	27.50	27.50	8.40	8.40	8.40	29.10	29.10	29.10	106.2	106.6	106.6	8.33	8.36	8.35	0.64	0.49	0.53	<2	<2
9/3/2012	15:22	Fille	Middle	2.5	27.50	27.50	27.50	8.40	8.40	0.40	29.10	29.10	29.10	106.7	106.8	100.0	8.36	8.36	0.33	0.48	0.49	0.55	<2	<2
11/5/2012	16:43	Cloudy	Middle	3.0	26.00	26.00	26.00	8.08	8.08	0.00	29.63	29.63	20.02	93.7	93.2	02.0	6.54	6.51	0.50	1.64	1.66	1.00	<2	<2
11/5/2012	16:45	Cloudy	Middle	3.0	26.00	26.00	26.00	8.07	8.07	8.08	29.63	29.63	29.63	93.4	93.9	93.6	6.52	6.55	6.53	1.74	1.67	1.68	<2	<2
4.4/5/0040	19:15	Olevela	Middle	2.0	26.90	26.90	00.00	8.06	8.06	0.00	28.70	28.70	00.70	91.3	93.0	01.0	6.16	6.28	0.40	0.44	0.24	0.00	3	0.00
14/5/2012	19:16	Cloudy	Middle	2.0	26.90	26.90	26.90	8.06	8.06	8.06	28.70	28.70	28.70	91.8	90.1	91.6	6.20	6.08	6.18	0.37	0.28	0.33	3	3.00
47/5/0040	8:40	Olevelu	Middle	3.0	26.30	26.30	00.00	7.90	7.90	7.00	28.89	28.89	00.00	79.1	79.6	70.5	5.43	5.46	5.45	1.68	1.49	4.50	<2	
17/5/2012	8:42	Cloudy	Middle	3.0	26.30	26.30	26.30	7.89	7.89	7.90	28.89	28.89	28.89	79.6	79.6	79.5	5.46	5.46	5.45	1.57	1.57	1.58	<2	<2
40/5/0040	9:00	F in a	Middle	3.0	26.60	26.60	00.05	8.15	8.15	0.45	29.08	29.08	00.00	82.8	82.6	00.0	5.63	5.62	5.00	1.43	1.18	4.00	2	0.00
19/5/2012	9:02	Fine	Middle	3.0	26.70	2.70	20.65	8.15	8.15	8.15	29.08	29.08	29.08	82.9	82.7	82.8	5.64	5.62	5.63	1.26	1.34	1.30	2	2.00
04/5/0040	10:05	F in a	Middle	3.0	26.00	26.00	00.40	8.10	8.10	0.40	29.23	29.23	00.04	79.0	79.3	70.0	5.43	5.44	5.45	1.47	1.45	4.40	7	0.50
21/5/2012	10:07	Fine	Middle	3.0	26.20	26.20	26.10	8.09	8.09	8.10	29.24	29.24	29.24	79.4	79.5	79.3	5.45	5.46	5.45	1.43	1.32	1.42	6	6.50
00/5/0040	13:10	-	Middle	2.5	26.50	26.50	00.45	8.16	8.16	0.40	29.74	29.74	20.75	67.6	67.9	68.0	4.61	4.63	4.64	1.39	1.49	4.45	2	2.00
23/5/2012	13:12	Fine	Middle	2.5	26.40	26.40	26.45	8.15	8.15	8.16	29.76	29.76	29.75	68.1	68.3	68.0	4.64	4.66	4.64	1.52	1.39	1.45	2	2.00
05/5/0040	15:00	-	Middle	2.0	27.50	27.50	07.50	8.11	8.11	0.40	29.36	29.36	20.07	70.7	71.2	74.0	4.74	4.77	4 77	1.46	1.24	1.00	3	2.00
25/5/2012	15:03	Fine	Middle	2.0	27.50	27.50	27.50	8.09	8.09	8.10	29.37	29.37	29.37	71.3	71.4	71.2	4.78	4.79	4.77	1.22	1.22	1.29	3	3.00

Remarks:

Single underline denotes exceedance over Action level



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

Date	Time	Weater Condition	Sampling Depth m		Water Temperature			pH -			Salinity ppt			DO Saturation %			DO mg/L			Turbidity NTU			Suspended Solids ma/L	
					Value Average		Value Average		Value Average		Value Average					Value Average			Average					
30/4/2012	20:07	Cloudy	Middle	2	24.73		24.76	7.65	7.65	7.65	30.39	30.39	30.39	85.3	85.2	85.2	5.95	5.95	5.95	0.93	0.75	0.80	2	2.00
	20:08		Middle	2	24.78	24.78	2	7.65	7.65		30.39	30.39	00.00	85.0	85.2		5.93	5.95		0.70	0.81	0.00	2	
2/5/2012	23:25	- Cloudy	Middle	2	25.73	25.73	25.73	7.70	7.70	7.70	27.79	27.79	27.79	86.4	86.2	86.3	6.02	6.01	6.01	0.80	0.71	0.72	2	2.50
	23:26		Middle	2	25.73	25.73		7.70	7.70		27.79	27.79		86.2	86.2		6.01	6.01		0.76	0.61		3	
4/5/2012	10:45	Fine	Middle	2	26.30	26.30	26.30	7.53	7.53	7.53	28.71	28.72	28.72	81.0	80.9	80.8	5.56	5.55	5.54	1.29	1.14	1.23	3	3.00
	10:47		Middle	2	26.30	26.30	20.00	7.52	7.52	7.00	28.72	28.72		80.7	80.7		5.53	5.53		1.39	1.08		3	
7/5/2012	12:00	Fine	Middle	3	26.30	26.30	26.30	8.48	8.48	8.48	30.00	30.00	30.00	99.6	99.7	99.7	8.02	8.03	8.03	2.53	2.51	2.58	4	3.50
	12:02		Middle	3	26.30	26.30	20.00	8.48	8.48		30.00	30.00		99.8	99.8		8.04	8.04		2.78	2.48		3	
9/5/2012	12:30	- Fine -	Middle	3	27.10	27.10	27.10	8.38	8.38	8.38	27.90	27.90	27.90	94.7	94.8	94.8	7.49	7.49	7.49	2.93	2.80	2.84	2	2.00
	12:32		Middle	3	27.10	27.10		8.38	8.38		27.90	27.90		94.9	94.6		7.49	7.47		2.78	2.84		2	
11/5/2012	15:05	Cloudy	Middle	4	24.90	24.90	24.95	8.06	8.06	8.06	29.52	29.52	29.52	91.7	91.6	91.4	6.40	6.39	6.38	1.06	1.01	1.06 -	4	3.50
	15:07		Middle	4	25.00	25.00		8.06	8.06		29.51	29.51	20.02	91.1	91.2	•	6.35	6.36	0.00	1.11	1.07	1.00	3	0.00
14/5/2012	21:21	Cloudy	Middle	2	26.40	26.40	26.40	8.01	8.01	8.01	28.37	28.37	28.37	82.0	82.9	82.4	5.60	5.66	5.62	0.36	0.41	0.39	3	3.00
	21:22		Middle	2	26.40	26.40		8.01	8.01		28.37	28.37		81.6	83.0		5.57	5.64		0.42	0.36		3	
17/5/2012	10:23	Cloudy	Middle	3	26.40	26.40	26.45	7.89	7.89	7.89	28.59	28.59	28.59 73.2	72.7	72.9	73.0	4.98	5.00	5.00	1.25	1.23	1.24	<2	<2
	10:25		Middle	3	26.50	26.50		7.88	7.88		28.59	28.59		73.2	73.0		5.02	5.00		1.24	1.24		<2	
19/5/2012	10:25	Fine	Middle	4	26.60 26.60	26.60	- 26.65	8.07	8.07	8.07	28.81	28.81	28.81	81.4	81.6	81.6	5.55	5.56	5.56	0.41	0.24	0.41	4	4.00
	10:27		Middle	4	26.70	26.70		8.06	8.06		28.81	28.81		81.8	81.4		5.58	5.54		0.55	0.45		4	
21/5/2012	11:27	Fine	Middle	3	26.50	26.50	26.50	8.04	8.04	8.04	29.15	29.15	29.15	73.1	74.0	74.0	4.99	5.05	5.05	2.41	2.65	2.48	6	5.00
21/0/2012	11:29		Middle	3	26.50	26.50	20.00	8.03	8.03		29.15	29.15	20.10	74.4	74.6	1	5.08	5.09		2.48	2.36		4	0.00
23/5/2012	10:49	Fine	Middle	3	26.20	26.20	- 26.15	8.21	8.21	8.21	29.79	29.79	29.79	73.0	73.3	73.2	5.00	5.02	5.01	4.47	4.67	4.67	8	7.00
20/0/2012	10:51		Middle	3	26.10	26.10		8.20	8.20		29.79	29.79		73.3	73.3		5.01	5.02		4.58	4.96		6	1.00
25/5/2012	13:30	Fine	Middle	2	27.70	27.70	27.70	8.14	8.14	8.14	29.22	29.22	29.22	75.9	75.8	75.6	5.06	5.06	5.04	2.03	2.05	2.03	6	5.00
23/3/2012	13:33	FILLE	Middle	2	27.70	27.70	2	8.14	8.14	0	29.22	29.22	20.22	75.3	75.2		5.03	5.02		2.04	2.01		4	0.00

Remarks:

Single underline denotes exceedance over Action level



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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			рН			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		Value Averag		Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTU lue	Average	mç Value	g/L Average
30/4/2012	19:45	Cloudy	Middle	2	25.02	25.02	25.03	7.59	7.59	7.59	29.54	29.54	29.54	90.5	90.1	90.2	6.31	6.28	6.29	2.94	3.00	2.97	7	7.00
	19:46		Middle	2	25.04	25.04		7.59	7.59		29.54	29.54	20101	90.1	90.1		6.29	6.28	0.20	2.72	3.20		7	
2/5/2012	22:42	Cloudy	Middle	2	26.06	26.06	26.06	7.74	7.74	7.72	25.86	25.86	25.86	88.8	88.8	88.8	6.22	6.22	6.22	0.90	0.86	0.84	3	3.00
	22:43		Middle	2	26.05	26.05	20.00	7.70	7.70		25.86	25.86	20.00	88.8	88.8		6.22	6.22	0.22	0.83	0.78		3	3.00
4/5/2012	12:25	Fine	Middle	3	25.60	25.60	25.50	8.43	8.43	8.43	26.59	26.59	26.60	105.3	104.5	104.8	7.40	7.34	7.37	5.24	5.65	5.76	4	3.50
4/3/2012	12:28		Middle	3	25.40	25.40	23.30	8.42	8.42		26.60	26.60	20.00	105.0	104.4	104.0	7.38	7.34		6.09	6.06		3	3.50
7/5/2012	14:00	Fine	Middle	3	26.10	26.10	26.05	8.41	8.41	8.42	28.70	28.70	28.70	97.5	97.7	97.5	7.86	7.87	7.86	1.89	1.90	1.86	6	6.00
1/0/2012	14:02		Middle	3	26.00	26.00	20.00	8.42	8.42		28.70	28.70	20.70	97.4	97.3		7.85	7.85		1.79	1.84		6	0.00
9/5/2012	14:15	Fine	Middle	2	25.80	25.80	25.85	8.45	8.45	8.44	28.37	28.37	28.38	106.9	105.3	105.9	7.42	7.29	7.35	1.87	2.15	2.04	7	7.00
9/3/2012	14:18		Middle	2	25.90	25.90	20.00	8.43	8.43		28.38	28.38	20.30	105.4	105.8		7.32	7.35		2.11	2.04	2.07	7	7.00
11/5/2012	14:43	Cloudy	Middle	3	25.50	25.50	25.55	8.10	8.10	8.10	29.53	29.53	29.53	93.6	93.4	93.4	6.46	6.45	6.45	1.41	1.11	1.40	3	2.50
11/5/2012	14:45		Middle	3	25.60	25.60	20.00	8.09	8.09		29.52	29.52	29.53	93.3	93.1		6.45	6.42	0.10	1.47	1.62	1.40	2	2.50
14/5/2012	21:01	Cloudy	Middle	2	26.80	26.80	26.85	8.02	8.02	8.02	27.63	27.63	27.65	87.9	87.8	87.9	6.01	5.99	6.01	1.78	1.70	1.73	8	7.50
14/5/2012	21:02		Middle	2	26.90	26.90	20.80	8.01	8.01	0.02	27.66	27.66	27.00	87.8	88.2		6.00	6.02	0.01	1.76	1.66		7	7.50
47/5/2042	12:00	Cloudy	Middle	3	26.10	26.10	00.45	8.24	8.24	8.24	28.97	28.97	28.98	66.8	66.7	66.3	4.59	4.58	4.56	4.41	4.27	· 4.38	3	3.00
17/5/2012	12:03		Middle	3	26.20	26.20	26.15	8.23	8.23		28.98	28.98	26.96	66.3	65.5		4.54	4.51		4.49	4.36		3	3.00
19/5/2012	12:30	Fine	Middle	3	26.90	26.90	26.95	8.01	8.01	8.01	28.26	28.26	28.25	73.2	73.5	73.7	4.97	5.00	5.01	1.83	1.63	1.75	9	8.00
19/5/2012	12:32		Middle	3	27.00	27.00	20.95	8.00	8.00		28.24	28.24		74.3	73.7		5.04	5.01		1.82	1.72		7	
21/5/2012	13:30	Fine	Middle	3	27.10	27.10	07.40	8.05	8.05	0.05	29.15	29.15	00.45	80.5	80.6	80.6	5.44	5.45	5.45	2.93	3.02	2.89	4	4.50
21/5/2012	13:32		Middle	3	27.10	27.10	27.10	8.04	8.04	8.05	29.15	29.15	29.15	80.6	80.7		5.45	5.46		2.82	2.79		5	4.50
22/5/2012	10:39	Fino	Middle	3	26.40	26.40	26.40	8.30	8.30	8.31	30.47	30.47		78.9	78.6	70.7	5.35	5.34	5.34	6.52	6.21	6.45	8	7.50
23/5/2012	10:42	Fine	Middle	3	26.40	26.40	20.40	8.31	8.31		30.50	30.50	30.49	78.8	78.6	78.7	5.34	5.33		6.62	6.44		7	7.50
25/5/2042	13:00	Fine	Middle	2	27.40	27.40	07.45	8.07	8.07	0.00	29.16	29.16		70.7	70.7	70.0	4.75	4.75		2.41	2.25	2.23	6	5.50
25/5/2012	13:02	Fine	Middle	2	27.50	27.50	27.45	8.05	8.05	8.06	29.16	29.16	29.16	70.8	70.9	70.8	4.76	4.75	4.75	2.10	2.17		5	5.50

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pH -			Salini	y	D	O Satu	ation		DO ma/L			Turbid NTU		Suspende	
		Condition	r	n	Va	°C ilue	Average	Va	lue -	Average	Va	ppt ilue	Average	Va	alue %	Average	Va	lue ⊓ig/∟	Average	Va	alue	Average	mg Value	y/∟ Average
30/4/2012	19:32	Cloudy	Middle	2	25.01	25.01	25.03	7.58	7.58	7.58	29.36	29.36	29.36	87.7	87.7	87.7	6.13	6.13	6.13	3.04	2.72	2.87	6	6.00
	19:33	0.0003	Middle	2	25.04	25.04	20.00	7.58	7.58		29.36	29.36	20.00	88.0	87.5	0.111	6.14	6.11	0.10	2.77	2.93	2.01	6	0.00
2/5/2012	22:55	Cloudy	Middle	2	26.15	26.15	26.16	7.80	7.80	7.80	25.75	25.75	25.76	89.4	89.6	89.5	6.24	6.26	6.26	1.06	1.04	1.11	2	2.50
	22:56		Middle	2	26.17	26.17		7.80	7.80		25.76	25.76		89.3	89.8		6.24	6.28		1.27	1.08		3	
4/5/2012	12:35	Fine	Middle	2	25.70	25.70	25.75	8.44	8.44	8.44	26.54	26.54	26.54	101.4	100.5	101.0	7.13	7.06	7.10	5.40	5.70	5.82	4	4.50
	12:38		Middle	2	25.80	25.80		8.43	8.43		26.53	26.53		101.0	101.2		7.09	7.11		6.08	6.10		5	
7/5/2012	13:43	Fine	Middle	2	26.10	26.10	26.15	8.30	8.30	8.30	27.60	27.60	27.60	89.9	89.7	89.6	7.23	7.21	7.22	6.69	6.02	6.44	7	7.50
	13:46		Middle	2	26.20	26.20		8.30	8.30		27.60	27.60		89.5	89.4		7.21	7.21		6.48	6.57		8	
9/5/2012	14:25	Fine	Middle	3	25.70	25.70	25.75	8.42	8.42	8.42	28.36	28.36	28.37	103.5	103.7	103.7	7.24	7.22	7.22	3.37	3.57	3.50	7	7.50
	14:28		Middle	3	25.80	25.80		8.41	8.41		28.38	28.38		103.0	104.5		7.16	7.26		3.67	3.39		8	
11/5/2012	14:25	Cloudy	Middle	2	25.50	25.50	25.55	7.99	7.99	7.99	28.73	28.73	28.73	88.6	88.4	88.2	6.14	6.12	6.11	2.10	2.29	2.19	4	3.50
	14:27		Middle	2	25.60	25.60		7.99	7.99		28.72	28.72		88.0	87.9		6.09	6.08		2.31	2.04		3	
14/5/2012	20:49	Cloudy	Middle	2	26.70	26.70	26.70	7.96	7.96	7.96	27.62	27.62	27.62	83.9	84.0	83.9	5.74	5.74	5.74	2.38	2.36	2.31	4	4.00
	20:50		Middle	2	26.70	26.70		7.96	7.96		27.62	27.62		83.8	83.8		5.73	5.73		2.27	2.23		4	
17/5/2012	12:10	Cloudy	Middle	2	26.10	26.10	26.15	8.19	8.19	8.19	28.93	28.93	28.93	66.5	66.1	66.3	4.57	4.54	4.56	3.20	2.98	3.07	3	2.50
	12:13		Middle	2	26.20	26.20		8.18	8.18		28.92	28.92		66.4	66.3		4.56	4.55		3.07	3.02		2	
19/5/2012	12:17	Fine	Middle	2	27.00	27.00	27.05	8.00	8.00	7.99	27.73	27.73	27.74	69.8	70.3	69.9	4.74	4.78	4.75	3.21	3.09	3.13	6	5.50
	12:19		Middle	2	27.10	27.10		7.98	7.98		27.74	27.74		70.0	69.6		4.76	4.73		3.09	3.12		5	
21/5/2012	13:15	Fine	Middle	2	27.00	27.00	27.05	8.07	8.07	8.07	27.90	27.90	27.90	72.1	70.5	71.1	4.90	4.79	4.83	4.72	4.74	4.89	5	5.50
	13:17		Middle	2	27.10	27.10		8.06	8.06		27.90	27.90		70.8	71.0		4.81	4.83		5.17	4.94		6	<u> </u>
23/5/2012	10:47	Fine	Middle	3	26.40	26.40	26.35	8.15	8.15	8.16	30.67	30.67	30.68	67.4	66.7	68.3	4.57	4.52	4.61	7.83	7.87	7.75	8	8.00
	10:50		Middle	3	26.30	26.30		8.16	8.16		30.68	30.68		68.5	70.5		4.64	4.71		7.72	7.58		8	<u> </u>
25/5/2012	12:45	Fine	Middle	2	27.80	27.80	27.80	8.04	8.04	8.04	28.17	28.17	28.18	66.5	66.3	66.3	4.46	4.44	4.44	3.92	3.73	3.68	5	4.00
	12:47		Middle	2	27.80	27.80		8.03	8.03		28.18	28.18		66.2	66.1		4.44	4.43		3.40	3.65		3	

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
Duito		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mg Value	g/L Average
30/4/2012	19:09	Cloudy	Middle	1	24.86	24.86	24.86	7.53	7.53	7.53	29.07	29.07	29.07	76.2	76.3	76.2	5.35	5.36	5.35	0.39	0.36	0.39	3	3.00
50/4/2012	19:10	Cloudy	Middle	1	24.86	24.86	24.00	7.53	7.53	1.55	29.07	29.07	23.07	76.3	76.1	70.2	5.35	5.34	0.00	0.44	0.35	0.00	3	5.00
2/5/2012	22:15	Cloudy	Middle	2	26.13	26.13	26.13	7.42	7.41	7.42	25.96	25.96	25.96	71.3	71.5	71.5	4.99	5.00	5.00	0.58	0.56	0.61	2	2.00
	22:16	,	Middle	2	26.13	26.13		7.42	7.42		25.96	25.96		71.6	71.6		5.00	5.00		0.62	0.66		2	
4/5/2012	12:10	Fine	Middle	2	27.20	27.20	27.15	8.07	8.07	8.07	26.53	26.53	26.52	61.6	62.4	63.1	4.20	4.25	4.29	3.88	4.03	4.06	<2	<2
	12:13		Middle	2	27.10	27.10		8.06	8.06		26.51	26.51		63.9	64.4		4.33	4.38		4.12	4.20		<2	
7/5/2012	13:24	Fine	Middle	2	26.20	26.20	26.15	8.31	8.31	8.31	27.10	27.10	27.05	85.5	85.2	85.1	6.91	6.88	6.87	1.86	1.92	1.88	3	3.50
	13:26		Middle	2	26.10	26.10		8.31	8.31		27.00	27.00		85.0	84.6		6.86	6.83		1.86	1.87		4	
9/5/2012	14:40	Fine	Middle	2	29.40	29.40	29.35	8.46	8.46	8.46	26.75	26.75	26.76	67.0	65.5	64.3	4.45	4.35	4.27	3.02	3.07	3.01	2	2.50
	14:43		Middle	2	29.30	29.30		8.45	8.45		26.76	26.76		63.0	61.5		4.19	4.09		2.94	2.99		3	
11/5/2012	14:00	Cloudy	Middle	2	26.80	26.80	26.85	7.94	7.94	7.94	27.25	27.25	27.25	77.6	77.9	77.8	5.32	5.35	5.34	0.76	0.76	0.81	3	3.00
	14:02	,	Middle	2	26.90	26.90		7.93	7.93	-	27.25	27.25		77.7	78.1		5.33	5.36		0.79	0.92		3	
14/5/2012	20:22	Cloudy	Middle	1	27.00	27.00	27.00	7.81	7.81	7.81	27.19	27.19	27.19	76.2	76.0	75.9	5.20	5.19	5.18	0.50	0.46	0.51	10	10.50
	20:23	,	Middle	1	27.00	27.00		7.81	7.81	-	27.19	27.19		75.5	75.8		5.15	5.17		0.52	0.54		11	
17/5/2012	11:50	Cloudy	Middle	2	27.20	27.20	27.25	7.81	7.81	7.82	27.69	27.69	27.70	48.8	49.9	49.8	3.31	3.39	3.38	1.21	1.31	1.32	<2	<2
	11:53		Middle	2	27.30	27.30		7.82	7.82		27.70	27.70		50.1	50.3		3.41	3.42		1.41	1.33		<2	
19/5/2012	11:59	Fine	Middle	2	26.80	26.80	26.90	7.84	7.84	7.83	26.88	26.88	26.88	69.4	69.7	69.5	4.75	4.76	4.75	1.38	1.60	1.58	3	3.00
	12:01		Middle	2	27.00	27.00		7.82	7.82		26.88	26.88		69.7	69.3		4.76	4.74		1.73	1.62		3	
21/5/2012	12:56	Fine	Middle	2	26.70	26.70	26.75	8.09	8.09	8.09	26.43	26.43	26.43	64.1	63.9	63.7	4.41	4.40	4.38	1.90	1.94	1.92	3	3.00
	12:58		Middle	2	26.80	26.80		8.08	8.08		26.42	26.42		63.5	63.2		4.37	4.35		1.89	1.95	-	3	
23/5/2012	11:10	Fine	Middle	2	26.20	26.20	26.25	8.20	8.20	8.21	29.59	29.59	29.60	56.7	56.9	56.9	3.88	3.90	3.89	3.30	3.33	3.34	<2	<2
	11:13		Middle	2	26.30	26.30		8.21	8.21		29.60	29.60		57.5	56.4		3.93	3.86		3.49	3.23		<2	
25/5/2012	12:25	Fine	Middle	2	27.40	27.40	27.45	7.86	7.86	7.86	28.07	28.07	28.08	57.0	56.6	56.9	3.85	3.82	3.84	0.98	0.96	0.97	<2	<2
	12:27		Middle	2	27.50	27.50		7.85	7.85		28.09	28.09		56.9	56.9		3.84	3.84		1.02	0.92		<2	

Remarks:

Single underline denotes exceedance over Action level

lam	
am	Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	y	D	O Satu	ration		DO			Turbid		Suspende	
Dato		Condition	n	า	Va	lue	Average	Va	- Ilue	Average	Va	ppt Ilue	Average	Va	ilue %	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mg Value	g/L Average
30/4/2012	20:58	Cloudy	Middle	1.5	25.00	25.00	25.00	7.81	7.81	7.81	28.41	28.41	28.42	83.5	83.4	83.6	5.87	5.86	5.88	1.38	1.25	1.24	3	3.50
30/4/2012	21:00	Cloudy	Middle	1.5	25.00	25.00	23.00	7.81	7.81	7.01	28.42	28.42	20.42	83.7	83.9	00.0	5.89	5.91	5.00	1.21	1.12	1.24	4	0.00
2/5/2012	20:59	Cloudy	Middle	1.5	26.10	26.10	26.10	7.82	7.82	7.83	25.17	25.17	25.17	88.2	88.5	87.7	6.18	6.20	6.14	2.91	3.34	3.13	2	2.50
	21:01	,	Middle	1.5	26.10	26.10		7.83	7.83		25.17	25.17		88.3	85.7		6.18	6.00		3.31	2.97		3	
4/5/2012	11:25	Fine	Middle	2.0	26.10	26.10	26.15	8.41	8.41	8.42	26.29	26.29	26.30	102.4	102.1	102.5	7.12	7.30	7.18	2.40	2.29	2.51	3	3.00
	11:28		Middle	2.0	26.20	26.20		8.42	8.42		26.30	26.30		102.9	102.7		7.15	7.14		2.80	2.56		3	
7/5/2012	11:16	Fine	Middle	2.5	25.00	25.00	25.05	8.30	8.30	8.31	29.54	29.54	29.54	89.3	88.1	88.8	6.23	6.14	6.19	1.81	1.85	1.78	3	3.00
	11:18		Middle	2.5	25.10	25.10		8.31	8.31		29.54	29.54		89.9	87.9		6.26	6.13		1.66	1.78		3	
9/5/2012	15:33	Fine	Middle	2.5	27.00	27.00	27.05	8.47	8.47	8.48	27.56	27.56	27.56	80.3	79.3	78.7	5.48	5.41	5.37	2.60	2.61	2.61	8	7.50
	15:35		Middle	2.5	27.10	27.10		8.48	8.48		27.55	27.55		78.0	77.3		5.32	5.27		2.64	2.60		7	<u> </u>
11/5/2012	16:45	Cloudy	Middle	2.0	25.40	25.40	25.35	8.37	8.37	8.36	29.64	29.64	29.65	97.1	97.3	97.2	6.73	6.74	6.74	1.49	1.43	1.34	<2	<2
	16:48		Middle	2.0	25.30	25.30		8.35	8.35		29.65	29.65		97.1	97.4		6.72	6.75		1.19	1.26		<2	<u> </u>
14/5/2012	21:15	Cloudy	Middle	1.5	26.80	26.80	26.85	7.30	7.30	7.31	28.54	28.54	28.54	95.3	93.4	93.5	6.49	6.36	6.39	1.96	1.87	1.92	5	4.50
	21:17		Middle	1.5	26.90	26.90		7.31	7.31		28.54	28.54		92.6	92.8		6.34	6.35		1.91	1.92		4	<u> </u>
17/5/2012	10:45	Cloudy	Middle	2.5	26.70	26.70	26.75	9.19	9.19	9.19	28.75	28.75	28.76	87.4	87.2	87.5	5.95	5.94	5.96	2.63	2.71	2.66	<2	<2
	10:48		Middle	2.5	26.80	26.80		9.18	9.18		28.76	28.76		87.6	87.8		5.97	5.98		2.76	2.54		<2	<u> </u>
19/5/2012	13:05	Fine	Middle	2.5	27.30	27.30	27.35	8.22	8.22	8.23	28.95	28.95	28.96	83.3	83.8	84.2	5.58	5.62	5.63	1.69	1.56	1.71	4	3.50
	13:08		Middle	2.5	27.40	27.40		8.23	8.23		28.97	28.97		84.6	84.9		5.65	5.67		1.74	1.85		3	<u> </u>
21/5/2012	14:15	Fine	Middle	2.0	26.60	26.60	26.55	8.78	8.78	8.79	29.45	29.45	29.46	78.2	77.4	78.9	5.33	5.27	5.37	3.60	3.68	3.52	5	4.00
	14:18		Middle	2.0	26.50	26.50		8.79	8.79		29.46	29.46		79.5	80.4		5.41	5.48		3.47	3.32		3	<u> </u>
23/5/2012	12:00	Fine	Middle	2.5	26.20	26.20	26.25	7.84	7.84	7.84	30.63	30.63	30.63	77.3	77.1	77.2	5.27	5.26	5.27	7.25	7.21	7.40	4	4.50
	12:03		Middle	2.5	26.30	26.30		7.83	7.83		30.62	30.62		76.9	77.3		5.25	5.28		7.56	7.58		5	<u> </u>
25/5/2012	16:50	Fine	Middle	2.5	27.00	27.00	27.01	7.61	7.61	7.62	29.17	29.17	29.17	74.3	73.9	74.1	5.02	5.00	5.01	6.16	5.86	5.84	3	2.50
	16:53		Middle	2.5	27.01	27.01		7.62	7.62		29.16	29.16		74.2	74.1		5.02	5.01		5.74	5.58		2	

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satu	ation		DO			Turbid NTU		Suspende	
		Condition	n	n	Va	ilue	Average	Va	lue -	Average	Va	ppt Ilue	Average	Va	lue	Average	Va	mg/L lue	Average	Va		Average	mg Value	Average
30/4/2012	19:05	Cloudy	Middle	1.0	25.40	25.40	25.40	7.70	7.70	7.70	28.82	28.82	28.82	85.7	85.8	85.5	5.97	5.98	5.97	3.66	3.45	3.50	4	4.00
30/4/2012	19:07	Cloudy	Middle	1.0	25.40	25.40	23.40	7.70	7.70	1.10	28.82	28.82	20.02	85.4	85.2	00.0	5.96	5.95	5.57	3.68	3.22	0.00	4	4.00
2/5/2012	21:30	Cloudy	Middle	1.0	26.00	26.00	26.00	7.83	7.83	7.83	25.25	25.25	25.25	88.2	88.4	88.7	6.19	6.20	6.22	3.01	2.99	3.01	3	3.50
	21:32		Middle	1.0	26.00	26.00		7.83	7.83		25.24	25.24		89.0	89.0		6.24	6.25		3.04	2.99		4	<u> </u>
4/5/2012	10:15	Fine	Middle	1.5	26.00	26.00	26.05	8.27	8.27	8.27	27.62	27.62	27.63	84.6	85.3	85.4	5.89	5.91	5.94	1.92	1.87	1.85	4	4.50
	10:18		Middle	1.5	26.10	26.10		8.26	8.26		27.63	27.63		85.8	86.0		5.97	5.99		1.84	1.78		5	<u> </u>
7/5/2012	10:55	Fine	Middle	1.5	25.30	25.30	25.35	8.24	8.24	8.25	29.87	29.87	29.88	82.0	80.9	81.7	5.68	5.60	5.65	1.70	1.74	1.73	3	3.00
	10:57		Middle	1.5	25.40	25.40		8.26	8.26		29.88	29.88		82.4	81.3		5.70	5.63		1.85	1.63		3	<u> </u>
9/5/2012	16:53 16:58	Fine	Middle Middle	1.5	27.40	27.40 27.30	27.35	8.39	8.39	8.40	28.31	28.31 28.30	28.31	101.7	102.1	101.9	6.84	6.87	6.85	2.52 2.96	2.48	2.60	4	3.50
	15:17		Middle	1.5 1.0	27.30 25.20	27.30		8.40 8.23	8.40 8.23		28.30 30.62	30.62		102.0 81.3	101.8 82.1		6.85 5.64	6.82 5.69		2.96	2.44		3	<u> </u>
11/5/2012	15:20	Cloudy	Middle	1.0	25.10	25.10	25.15	8.22	8.22	8.23	30.61	30.61	30.62	82.6	83.1	82.3	5.72	5.75	5.70	2.34	2.49	2.47	3	3.00
	19:32		Middle	1.0	26.60	26.60		8.17	8.17		28.93	28.93		88.2	88.5		6.02	6.04		5.29	5.55		6	
14/5/2012	19:34	Cloudy	Middle	1.0	26.70	26.70	26.65	8.18	8.18	8.18	28.93	28.93	28.93	87.6	86.3	87.7	5.98	5.89	5.98	5.72	5.81	5.59	5	5.50
	9:37	<u> </u>	Middle	1.5	26.20	26.20		8.09	8.09		29.33	29.33		62.1	62.3		4.25	4.27		3.69	3.39		<2	
17/5/2012	9:40	Cloudy	Middle	1.5	26.10	26.10	26.15	8.10	8.10	8.10	29.34	29.34	29.34	62.6	62.9	62.5	4.29	4.31	4.28	3.81	3.52	3.60	<2	<2
19/5/2012	11:25	Fine	Middle	1.5	26.30	26.30	26.35	8.20	8.20	8.21	29.27	29.27	29.28	74.0	74.1	74.2	5.06	5.07	5.26	2.01	1.95	2.11	3	3.00
13/3/2012	11:28	Tine	Middle	1.5	26.40	26.40	20.00	8.21	8.21	0.21	29.28	29.28	23.20	74.2	74.4	14.2	5.80	5.09	5.20	2.27	2.21	2.11	3	0.00
21/5/2012	12:25	Fine	Middle	1.5	26.20	26.20	26.15	8.06	8.06	8.07	30.15	30.15	30.15	70.6	70.8	70.8	4.82	4.83	4.84	7.31	6.93	6.76	6	6.00
	12:28	-	Middle	1.5	26.10	26.10		8.07	8.07		30.14	30.14		70.9	71.0		4.84	4.85	-	6.46	6.33		6	
23/5/2012	13:40	Fine	Middle	2.0	26.50	26.50	26.45	7.62	7.62	7.63	30.59	30.59	30.59	75.2	75.1	75.3	5.09	5.08	5.10	4.98	4.89	4.83	4	3.50
	13:43		Middle	2.0	26.40	26.40		7.63	7.63		30.58	30.58		75.3	75.6		5.10	5.12		4.77	4.68		3	<u> </u>
25/5/2012	14:20	Fine	Middle	1.0	26.85	26.85	26.84	8.19	8.19	8.19	29.50	29.50	29.51	91.5	86.9	86.9	6.20	5.88	5.88	6.17	6.08	6.22	4	4.00
	14:23		Middle	1.0	26.83	26.83		8.18	8.18		29.51	29.51		85.7	83.3		5.80	5.62		6.27	6.36		4	<u> </u>

Remarks:

Single underline denotes exceedance over Action level



Date	Time	Weater	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satu	ration		DO			Turbid		Suspende	
		Condition	r	n	Va	ilue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mg Value	g/∟ Average
30/4/2012	19:50	Cloudy	Middle	2.0	25.30	25.30	25.30	7.68	7.68	7.69	29.48	29.48	29.48	62.2	60.6	61.4	4.35	4.22	4.28	3.88	3.62	3.79	4	4.00
30/4/2012	19:52	Cloudy	Middle	2.0	25.30	25.30	20.00	7.69	7.69	7.05	29.48	29.48	23.40	60.8	61.8	01.4	4.25	4.30	4.20	3.90	3.77	0.70	4	4.00
2/5/2012	19:50	Cloudy	Middle	2.5	26.40	26.40	26.40	7.72	7.72	7.73	27.21	27.21	27.21	64.4	66.7	65.7	4.45	4.61	4.54	2.73	3.00	2.86	3	3.00
	19:52	,	Middle	2.5	26.40	26.40		7.73	7.73		27.21	27.21		66.6	65.0		4.60	4.49		2.85	2.86		3	
4/5/2012	10:45	Fine	Middle	2.5	26.00	26.00	26.05	8.17	8.17	8.17	28.14	28.14	28.14	72.3	73.4	73.5	5.00	5.09	5.08	2.41	2.29	2.20	<2	<2
	10:48		Middle	2.5	26.10	26.10		8.16	8.16		28.13	28.13		74.1	74.0		5.12	5.11		2.13	1.97		<2	<u> </u>
7/5/2012	12:34	Fine	Middle	2.5	25.00	25.00	25.00	8.25	8.25	8.25	29.75	29.75	29.75	73.9	72.0	73.3	5.16	5.02	5.11	2.54	2.56	2.50	4	4.00
	12:36		Middle	2.5	25.00	25.00		8.25	8.25		29.75	29.75		74.2	73.1		5.17	5.10		2.43	2.48		4	
9/5/2012	16:35	Fine	Middle	2.5	27.00	27.00	27.05	8.29	8.29	8.28	28.71	28.71	28.72	76.4	76.7	76.6	5.17	5.18	5.18	8.14	8.23	8.25	7	6.50
	16:38		Middle	2.5	27.10	27.10		8.27	8.27		28.72	28.72		76.7	76.4		5.19	5.17		8.61	8.01		6	<u> </u>
11/5/2012	15:52	Cloudy	Middle	2.5	25.40	25.40	25.35	8.37	8.37	8.38	30.36	30.36	30.36	77.4	77.5	78.1	5.32	5.33	5.38	2.55	2.42	2.74	4	3.00
	15:55		Middle	2.5	25.30	25.30		8.38	8.38		30.35	30.35		78.5	79.0		5.42	5.46		2.97	3.00		2	<u> </u>
14/5/2012	20:10	Cloudy	Middle	2.0	26.80	26.80	26.80	8.09	8.09	8.10	29.59	29.59	29.60	72.2	71.9	71.8	4.89	4.87	4.86	4.86	5.00	4.91	7	6.50
	20:12		Middle	2.0	26.80	26.80		8.10	8.10		29.60	29.60		71.0	72.1		4.81	4.88		4.87	4.92		6	<u> </u>
17/5/2012	10:03	Cloudy	Middle	2.5	26.50	26.50	26.45	7.70	7.70	7.71	29.39	29.39	29.39	56.9	57.3	57.5	3.87	3.90	3.91	3.98	3.82	3.57	3	4.00
	10:06		Middle	2.5	26.40	26.40		7.71	7.71		29.38	29.38		57.6	58.2		3.92	3.96		3.34	3.15		5	<u> </u>
19/5/2012	11:55	Fine	Middle	2.5	25.90	25.90	25.95	8.23	8.23	8.24	29.34	29.34	29.34	67.1	67.6	67.8	4.62	4.66	4.67	4.87	4.79	4.51	6	6.50
	11:58		Middle	2.5	26.00	26.00		8.24	8.24		29.33	29.33		67.8	68.5		4.67	4.72		4.29	4.09		7	<u> </u>
21/5/2012	13:05	Fine	Middle	2.5	25.80	25.80	25.85	8.23	8.23	8.23	29.76	29.76	29.77	58.2	58.6	58.5	4.01	4.04	4.03	2.76	2.54	2.48	4	4.50
	13:08		Middle	2.5	25.90	25.90		8.22	8.22		29.77	29.77		58.7	58.5		4.05	4.03		2.39	2.22		5	<u> </u>
23/5/2012	12:55	Fine	Middle	3.0	26.30	26.30	26.35	7.54	7.54	7.54	30.40	30.00	30.31	65.0	65.4	65.6	4.44	4.46	4.46	3.14	2.99	3.01	<2	<2
	12:58		Middle	3.0	26.40	26.40		7.53	7.53		30.41	30.41		65.5	66.3		4.42	4.53		2.98	2.94		<2	
25/5/2012	14:57	Fine	Middle	3.0	26.93	26.93	26.93	7.44	7.44	7.45	29.74	29.74	29.74	64.0	64.5	63.8	4.32	4.35	4.31	8.41	8.25	8.45	4	4.00
	15:00		Middle	3.0	26.92	26.92		7.45	7.45		29.73	29.73		62.8	64.0		4.24	4.31		8.23	8.89		4	

Remarks:

Single underline denotes exceedance over Action level



Date	Time	Weater	Samplin	g Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid		Suspende	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	llue %	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mg Value	g/∟ Average
30/4/2012	19:29	Cloudy	Middle	1.0	25.20	25.20	25.20	7.75	7.75	7.76	28.92	28.92	28.93	59.2	61.3	60.7	4.13	4.27	4.23	4.09	3.83	3.89	5	5.00
00/4/2012	19:31	oloudy	Middle	1.0	25.20	25.20	20.20	7.76	7.76	1.10	28.93	28.93	20.00	61.5	60.7	00.7	4.28	4.22	4.20	3.74	3.91	0.00	5	0.00
2/5/2012	19:15	Cloudy	Middle	1.5	26.30	26.30	26.30	7.76	7.76	7.77	27.15	27.15	27.16	71.1	70.3	71.2	4.92	4.87	4.93	2.98	2.98	3.03	6	6.00
	19:17		Middle	1.5	26.30	26.30		7.77	7.77		27.16	27.16		71.5	71.9		4.94	4.97		3.19	2.97		6	
4/5/2012	10:30	Fine	Middle	1.5	26.00	26.00	26.05	8.14	8.14	8.14	27.43	27.43	27.43	65.3	66.5	66.5	4.52	4.60	4.61	2.20	2.26	2.11	2	2.00
	10:33		Middle	1.5	26.10	26.10		8.13	8.13		27.42	27.42		66.4	67.9		4.60	4.70		1.97	1.99		2	
7/5/2012	12:10	Fine	Middle	2.0	25.50	25.50	25.50	8.22	8.22	8.22	29.28	29.28	29.29	73.9	73.2	73.3	5.12	5.07	5.08	1.52	1.54	1.58	4	4.00
	12:12		Middle	2.0	25.50	25.50		8.22	8.22		29.29	29.29		73.6	72.5		5.10	5.04		1.67	1.59		4	
9/5/2012	16:25	Fine	Middle	1.5	27.50	27.50	27.50	8.32	8.32	8.33	28.48	28.48	28.48	87.9	88.3	88.3	5.90	5.93	5.93	3.35	3.67	3.50	6	6.00
	16:28		Middle	1.5	27.50	27.50		8.34	8.34		28.47	28.47		89.0	88.1		5.97	5.90		3.63	3.34		6	<u> </u>
11/5/2012	15:30	Cloudy	Middle	1.0	25.70	25.70	25.65	8.26	8.26	8.27	30.32	30.32	30.32	69.6	69.4	69.4	4.78	4.77	4.77	2.58	2.64	2.83	2	2.00
	15:33		Middle	1.0	25.60	25.60		8.27	8.27		30.31	30.31		69.5	69.2		4.78	4.76		2.95	3.16		2	<u> </u>
14/5/2012	19:50	Cloudy	Middle	1.5	26.70	26.70	26.70	8.08	8.08	8.09	29.49	29.49	29.49	57.0	56.9	57.3	3.87	3.86	3.89	2.36	2.38	2.29	6	5.00
	19:52		Middle	1.5	26.70	26.70		8.09	8.09		29.49	29.49		57.4	57.9		3.90	3.93		2.19	2.21		4	<u> </u>
17/5/2012	9:50	Cloudy	Middle	1.5	26.60	26.60	26.65	8.14	8.14	8.14	29.31	29.31	29.31	57.9	58.5	58.5	3.95	3.98	3.98	3.78	3.67	3.78	2	2.00
	9:53		Middle	1.5	26.70	26.70		8.13	8.13		29.30	29.30		58.6	58.8		3.99	4.01		3.91	3.76		2	<u> </u>
19/5/2012	11:40	Fine	Middle	1.0	26.20	26.20	26.25	8.03	8.03	8.03	29.29	29.29	29.30	67.0	67.2	67.3	4.58	4.59	4.60	3.08	2.94	2.93	5	5.00
	11:43		Middle	1.0	26.30	26.30		8.02	8.02		29.30	29.30		67.3	67.5		4.60	4.62		2.90	2.80		5	<u> </u>
21/5/2012	12:45	Fine	Middle	1.5	26.40	26.40	26.35	8.92	8.92	8.93	29.78	29.78	29.78	59.6	60.0	60.1	4.06	4.09	4.10	4.38	4.15	4.05	3	3.50
	12:48		Middle	1.5	26.30	26.30		8.93	8.93		29.77	29.77		60.4	60.3		4.12	4.11		3.99	3.68		4	
23/5/2012	12:49	Fine	Middle	1.5	26.60	26.60	26.65	7.98	7.98	7.99	30.50	30.50	30.51	69.2	69.4	69.8	4.69	4.70	4.73	3.58	3.54	3.55	3	2.50
	12:52		Middle	1.5	26.70	26.70		7.99	7.99		30.51	30.51		71.1	69.3		4.82	4.71		3.49	3.59		2	
25/5/2012	14:38	Fine	Middle	1.5	27.01	27.01	27.02	7.54	7.54	7.54	29.61	29.61	29.62	76.6	75.7	75.7	5.18	5.11	5.11	4.64	4.74	4.70	3	3.50
	14:41	-	Middle	1.5	27.02	27.02	-	7.53	7.53		29.62	29.62	-	75.3	75.0		5.09	5.06		4.87	4.54		4	

Remarks:

Single underline denotes exceedance over Action level

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

Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satu	ration		DO			Turbid		Suspende	
Date		Condition	n	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	ilue %	Average	Va	mg/L lue	Average	Va	NTU alue	Average	mg Value	J/L Average
30/4/2012	19:39	Cloudy	Middle	1.5	25.00	25.00	25.05	7.58	7.58	7.59	29.41	29.41	29.41	60.3	61.0	61.3	4.21	4.26	4.28	1.94	2.12	1.92	6	6.50
30/4/2012	19:41	Cloudy	Middle	1.5	25.10	25.10	23.03	7.59	7.59	1.00	29.40	29.40	23.41	61.6	62.2	01.0	4.29	4.34	4.20	1.82	1.78	1.52	7	0.50
2/5/2012	19:21	Cloudy	Middle	1.5	26.10	26.10	26.15	7.54	7.54	7.55	26.73	26.73	26.74	48.9	52.1	51.0	3.40	3.62	3.55	0.48	0.37	0.41	3	3.50
	19:23	,	Middle	1.5	26.20	26.20		7.55	7.55		26.74	26.74		52.2	50.9		3.63	3.54		0.46	0.34	-	4	
4/5/2012	10:38	Fine	Middle	1.5	25.70	25.70	25.65	8.05	8.05	8.05	27.37	27.37	27.37	57.3	59.4	59.5	3.99	4.13	4.14	0.68	0.62	0.62	<2	<2
	10:41		Middle	1.5	25.60	25.60		8.04	8.04		27.36	27.36		60.3	61.0		4.19	4.24		0.60	0.57		<2	
7/5/2012	12:20	Fine	Middle	2.0	24.80	24.80	24.85	8.12	8.12	8.12	29.22	29.22	29.22	57.7	58.7	58.5	4.05	4.12	4.10	0.80	0.81	0.83	4	3.50
	12:21		Middle	2.0	24.90	24.90		8.11	8.11		29.22	29.22	-	58.1	59.3		4.08	4.15		0.87	0.84		3	
9/5/2012	16:31	Fine	Middle	1.0	27.00	27.00	27.05	8.32	8.32	8.32	28.57	28.57	28.57	83.5	83.8	83.9	5.65	5.67	5.67	5.54	5.43	5.16	10	10.00
	16:34		Middle	1.0	27.10	27.10		8.31	8.31		28.56	28.56		84.0	84.2		5.68	5.69		4.80	4.87		10	
11/5/2012	15:40	Cloudy	Middle	1.0	25.60	25.60	25.65	8.30	8.30	8.31	30.46	30.46	30.47	72.2	72.4	73.1	4.97	4.99	5.04	2.91	2.77	2.75	3	3.00
	15:43		Middle	1.0	25.70	25.70		8.31	8.31		30.47	30.47		73.3	74.5		5.05	5.16		2.86	2.47		3	<u></u>
14/5/2012	20:03	Cloudy	Middle	1.5	26.60	26.60	26.65	8.12	8.12	8.13	29.22	29.22	29.23	60.3	61.3	61.2	4.10	4.21	4.17	2.82	3.01	2.97	5	4.00
	20:05		Middle	1.5	26.70	26.70		8.13	8.13		29.23	29.23		61.7	61.3	1	4.19	4.17		2.99	3.04		3	
17/5/2012	9:55	Cloudy	Middle	1.5	26.60	26.60	26.65	8.24	8.24	8.24	29.28	29.28	29.29	53.2	53.6	53.5	3.62	3.65	3.64	3.08	2.88	2.98	3	3.50
	9:58		Middle	1.5	26.70	26.70		8.23	8.23		29.29	29.29		53.4	53.8		3.63	3.66		2.95	3.01		4	<u> </u>
19/5/2012	11:45	Fine	Middle	1.0	25.90	25.90	25.85	8.04	8.04	8.04	29.50	29.50	29.50	46.1	46.7	47.0	3.18	3.22	3.24	1.00	1.01	0.92	2	2.00
	11:48		Middle	1.0	25.80	25.80		8.03	8.03		29.50	29.50		47.3	47.8		3.26	3.29		0.86	0.82		2	<u> </u>
21/5/2012	12:55	Fine	Middle	1.0	26.30	26.30	26.35	8.42	8.42	8.43	29.81	29.81	29.82	58.6	58.9	59.0	4.00	4.02	4.03	3.16	2.76	2.92	4	3.50
	12:58		Middle	1.0	26.40	26.40		8.43	8.43		29.82	29.82		59.1	59.5		4.04	4.07		2.89	2.85		3	<u> </u>
23/5/2012	12:43	Fine	Middle	2.0	26.70	26.70	26.70	7.45	7.45	7.47	30.46	30.46	30.47	68.4	67.7	68.3	4.62	4.57	4.61	5.14	5.10	5.02	3	2.50
	12:46		Middle	2.0	26.70	26.70		7.49	7.49		30.47	30.47		69.0	68.1		4.66	4.60		4.96	4.86		2	<u> </u>
25/5/2012	14:45	Fine	Middle	1.5	27.05	27.05	27.06	7.54	7.54	7.54	29.61	29.61	29.62	65.5	65.2	65.1	4.41	4.40	4.39	5.97	6.31	6.16	8	8.00
	14:48		Middle	1.5	27.06	27.06		7.53	7.53		29.62	29.62		64.9	64.7		4.37	4.36		6.42	5.93		8	<u> </u>

Remarks:

Single underline denotes exceedance over Action level



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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature		pН			Salini ppt	ty	D	O Satur %	ation	-	DO ma/L			Turbid NTU		Suspende	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
30/4/2012	20:30	Cloudy	Middle	1.5	25.60	25.60	25.65	7.78	7.78	7.78	29.16	29.16	29.16	70.3	71.7	71.1	4.86	4.96	4.92	4.68	4.66	4.69	33	<u>32.00</u>
	20:32		Middle	1.5	25.70	25.70		7.78	7.78		29.16	29.16		71.5	70.7		4.95	4.90		4.81	4.60		31	<u> </u>
2/5/2012	20:37	Cloudy	Middle	1.0	26.40	26.40	26.45	7.75	7.75	7.74	27.03	27.03	27.03	69.7	68.5	68.5	4.82	4.73	4.73	3.03	3.21	3.38	10	10.50
2/0/2012	20:39	Cloudy	Middle	1.0	26.50	26.50	20.40	7.73	7.73	7.14	27.02	27.02	21.00	68.9	67.0	00.0	4.76	4.62	4.70	3.57	3.70	0.00	11	10.00
4/5/2012	11:00	Fine	Middle	1.0	26.30	26.30	26.25	8.24	8.24	8.24	28.20	28.20	28.21	76.1	76.8	76.8	5.22	5.27	5.27	2.81	3.02	3.11	3	2.50
4/3/2012	11:03	Fille	Middle	1.0	26.20	26.20	20.25	8.23	8.23	0.24	28.21	28.21	20.21	77.1	77.2	70.0	5.29	5.30	5.27	3.29	3.31	3.11	2	2.50
7/5/004.0	11:45	F ire e	Middle	2.0	25.80	25.80	05.05	8.28	8.28	0.00	29.70	29.70	00.74	78.6	77.5	70.0	5.41	5.33	5.00	2.26	2.12	0.00	2	0.00
7/5/2012	11:46	Fine	Middle	2.0	25.90	25.90	25.85	8.27	8.27	8.28	29.71	29.71	29.71	79.1	77.9	78.3	5.44	5.36	5.39	2.34	2.39	2.28	2	2.00
	16:00		Middle	1.5	28.20	28.20		8.45	8.45		28.81	28.81		76.9	74.0		5.40	5.25		4.03	4.05		2	
9/5/2012	16:03	Fine	Middle	1.5	28.30	28.30	28.25	8.44	8.44	8.45	28.82	28.82	28.82	72.3	70.2	73.4	5.10	5.03	5.20	4.16	4.17	4.10	4	3.00
	16:22		Middle	1.0	25.50	25.50		8.28	8.28		30.29	30.29		78.2	78.0		5.39	5.38		2.22	2.34		3	
11/5/2012	16:25	Cloudy	Middle	1.0	25.60	25.60	25.55	8.27	8.27	8.28	30.29	30.29	30.29	78.5	78.9	78.4	5.43	5.44	5.41	2.50	2.44	2.38	4	3.50
	21:00		Middle	1.5	27.00	27.00		8.12	8.12		29.35	29.35		77.7	77.8		5.24	5.25		2.99	2.98		4	
14/5/2012	21:02	Cloudy	Middle	1.5	26.90	26.90	26.95	8.13	8.13	8.13	29.36	29.36	29.36	76.7	76.4	77.2	5.17	5.16	5.21	3.12	3.29	3.10	3	3.50
	10:27		Middle	1.5	26.90	26.90		8.22	8.22		28.62	28.62		65.6	65.9		4.46	4.48		4.48	4.60		3	
17/5/2012	10:30	Cloudy	Middle	1.5	26.80	26.80	26.85	8.23	8.23	8.23	28.63	28.63	28.63	66.3	66.5	66.1	4.50	4.52	4.49	4.66	4.67	4.60	5	4.00
	12:25		Middle	1.0	27.50	27.50		8.49	8.49		29.15	29.15		67.8	68.3		4.51	4.56		2.49	2.52		5	
19/5/2012	12:28	Fine	Middle	1.0	27.60	27.60	27.55	8.48	8.48	8.49	29.14	29.14	29.15	68.6	69.2	68.5	4.58	4.62	4.57	2.62	2.63	2.57	3	4.00
	13:45		Middle	1.0	27.00	27.00		8.15	8.15		28.47	28.47		72.8	73.4		4.95	4.99		4.64	4.58		6	
21/5/2012	13:48	Fine	Middle	1.0	27.10	27.10	27.05	8.14	8.14	8.15	28.48	28.48	28.48	73.8	74.2	73.6	5.02	5.04	5.00	4.49	4.22	4.48	4	5.00
	12:25		Middle	1.5	27.20	27.20		8.48	8.48		29.70	29.70		73.5	73.3		4.93	4.92		4.03	3.85		3	
23/5/2012	12:28	Fine	Middle	1.5	27.10	27.10	27.15	8.49	8.49	8.49	29.71	29.71	29.71	73.4	73.9	73.5	4.92	4.96	4.93	3.65	3.39	3.73	3	3.00
	15:57		Middle	1.0	29.35	29.35		7.04	7.04		29.36	29.36		55.7	58.5		3.64	3.82		4.81	4.84		4	
25/5/2012	16:00	Fine	Middle	1.0	29.33	29.33	29.34	7.03	7.03	7.04	29.35	29.35	29.36	56.4	54.5	56.3	3.68	3.58	3.68	4.56	4.79	4.75	3	3.50
	10.00		Middlo	1.0	20.00	20.00		7.00	1.00		20.00	20.00		50.4	54.5		5.00	5.00		1.00	4.10		5	1

Remarks:

Single underline denotes exceedance over Action level



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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur	ration		DO ma/L			Turbid NTL		Suspende	
		Condition	r	n	Va	ilue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	, in the second s	Average
30/4/2012	20:36	Cloudy	Middle	1.5	25.60	25.60	25.60	7.79	7.79	7.80	29.20	29.20	29.21	71.6	70.8	71.1	4.96	4.90	4.92	5.10	5.21	5.38	14	14.50
	20:38		Middle	1.5	25.60	25.60		7.80	7.80		29.21	29.21		70.5	71.4		4.87	4.94		5.65	5.55		15	
2/5/2012	20:25	Cloudy	Middle	1.0	26.60	26.60	26.55	7.73	7.73	7.74	26.42	26.42	26.43	70.2	70.4	70.6	4.85	4.87	4.88	4.61	4.73	4.58	4	5.00
	20:27	-	Middle	1.0	26.50	26.50		7.74	7.74		26.43	26.43		70.9	71.0		4.90	4.91		4.55	4.44		6	
4/5/2012	11:06	Fine	Middle	1.0	26.30	26.30	26.25	8.21	8.21	8.21	28.32	28.32	28.32	77.5	78.3	78.3	5.31	5.37	5.37	1.93	2.21	2.08	<2	<2
	11:09	-	Middle	1.0	26.20	26.20		8.20	8.20	-	28.31	28.31		78.7	78.8		5.39	5.40		2.10	2.07		<2	
7/5/2012	11:54	Fine	Middle	2.0	25.60	25.60	25.70	8.26	8.26	8.26	29.83	29.83	29.81	78.4	76.4	77.7	5.39	5.25	5.34	1.82	1.83	1.86	5	4.50
	11:55	-	Middle	2.0	25.80	25.80		8.26	8.26		29.79	29.79		78.8	77.1		5.41	5.29		1.94	1.85		4	
9/5/2012	16:05	Fine	Middle	1.5	27.30	27.30	27.35	8.39	8.39	8.40	28.81	28.81	28.82	88.7	87.4	88.8	5.95	5.87	5.96	2.50	2.31	2.53	6	5.50
	16:08		Middle	1.5	27.40	27.40		8.40	8.40		28.83	28.83		89.4	89.8		5.99	6.02		2.66	2.64		5	
11/5/2012	16:31	Cloudy	Middle	1.0	25.70	25.70	25.65	8.26	8.26	8.27	30.23	30.23	30.24	73.9	74.1	74.2	5.08	5.10	5.11	1.52	1.40	1.42	<2	<2
11/0/2012	16:33	cicuaj	Middle	1.0	25.60	25.60	20.00	8.27	8.27	0.2.1	30.24	30.24	00.21	74.3	74.6		5.12	5.13	0.11	1.43	1.34	2	<2	
14/5/2012	20:52	Cloudy	Middle	1.5	26.90	26.90	26.85	8.13	8.13	8.14	29.41	29.41	29.41	73.9	74.4	74.1	4.99	5.02	5.00	4.02	4.04	4.07	5	4.50
	20:54	cicuaj	Middle	1.5	26.80	26.80	20.00	8.14	8.14	0.11	29.40	29.40	20	74.4	73.6		5.02	4.96	0.00	4.11	4.09		4	
17/5/2012	10:33	Cloudy	Middle	1.5	26.90	26.90	26.85	8.20	8.20	8.21	28.82	28.82	28.83	66.4	66.7	67.1	4.51	4.53	4.56	3.16	3.31	3.36	<2	<2
	10:36	cicuaj	Middle	1.5	26.80	26.80	20.00	8.21	8.21	0.21	28.83	28.83	20.00	67.5	67.8	0111	4.59	4.61		3.43	3.54	0.00	<2	
19/5/2012	12:33	Fine	Middle	1.0	27.30	27.30	27.35	8.29	8.29	8.29	29.47	29.47	29.48	74.7	75.8	76.0	5.00	5.08	5.09	6.26	5.84	5.97	15	- 14.50
10,0,2012	12:36		Middle	1.0	27.40	27.40	21.00	8.28	8.28	0.20	29.48	29.48	20110	76.6	76.8	1010	5.13	5.14	0.00	5.75	6.01	0.01	14	1 1100
21/5/2012	13:50	Fine	Middle	1.0	27.10	27.10	27.15	8.16	8.16	8.17	28.75	28.75	28.76	74.0	74.8	74.8	5.01	5.06	5.06	4.62	4.45	4.53	5	4.50
2110/2012	13:53		Middle	1.0	27.20	27.20	21.10	8.17	8.17	0.17	28.76	28.76	20.70	75.0	75.2	1.0	5.08	5.09	0.00	4.64	4.39	4.00	4	1.00
23/5/2012	12:19	Fine	Middle	1.5	26.90	26.90	26.85	8.43	8.43	8.43	30.00	30.00	30.01	70.8	71.8	74.0	4.77	4.86	5.00	4.66	4.80	4.69	3	3.00
20/0/2012	12:21	1110	Middle	1.5	26.80	26.80	20.00	8.42	8.42	0.40	30.01	30.01	00.01	76.1	77.3	14.0	5.14	5.22	0.00	4.71	4.59	4.00	3	0.00
25/5/2012	16:05	Fine	Middle	1.5	29.50	29.50	29.51	7.04	7.04	7.04	28.76	28.76	28.76	50.9	50.0	50.8	3.31	3.26	3.31	5.56	5.15	5.42	4	4.00
20/0/2012	16:08		Middle	1.5	29.51	29.51	20.01	7.03	7.03	1.04	28.75	28.75	20.70	50.9	51.3	50.0	3.32	3.34	0.01	5.57	5.38	0.42	4	UU

Remarks:

Single underline denotes exceedance over Action level



Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature	-	pН		-	Salini ppt	ly	C	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va		Average		Average
30/4/2012	20:20	Cloudy	Middle	1.5	25.90	25.90	25.85	7.76	7.76	7.76	29.27	29.27	29.27	76.8	76.4	76.4	5.28	5.26	5.26	3.35	3.21	3.28	6	- 5.00
	20:22	-	Middle	1.5	25.80	25.80		7.75	7.75		29.27	29.27		76.3	75.9		5.26	5.22		3.10	3.44		4	
2/5/2012	20:12	Cloudy	Middle	1.0	27.00	27.00	27.05	7.72	7.72	7.72	27.33	27.33	27.34	72.2	72.4	72.3	4.93	4.95	4.95	2.58	2.50	2.54	3	2.50
2/0/2012	20:14	Cloudy	Middle	1.0	27.10	27.10	21.00	7.71	7.71	1.12	27.34	27.34	21.04	72.1	72.6	72.0	4.93	4.97	4.00	2.51	2.55	2.04	2	2.00
4/5/2012	10:50	Fine	Middle	2.0	26.00	26.00	25.95	8.22	8.22	8.22	28.41	28.41	28.42	79.1	80.2	80.3	5.45	5.64	5.55	2.84	3.24	3.13	3	2.50
4/5/2012	10:53	Fille	Middle	2.0	25.90	25.90	20.90	8.21	8.21	0.22	28.42	28.42	20.42	80.7	81.0	60.5	5.55	5.57	5.55	3.16	3.28	3.13	2	2.50
7/5/0040	11:34	Fine	Middle	2.0	25.40	25.40	0E 4E	8.28	8.28	0.00	30.07	30.07	20.07	76.1	74.1	75.5	5.26	5.12	E 04	3.11	3.46	2.20	3	2.00
7/5/2012	11:36	Fine	Middle	2.0	25.50	25.50	25.45	8.28	8.28	8.28	30.07	30.07	30.07	76.5	75.2	75.5	5.28	5.19	5.21	3.40	3.24	3.30	3	3.00
0/5/0040	15:55	Eine.	Middle	2.0	28.00	28.00	00.05	8.38	8.38	0.00	28.80	28.80	00.70	93.0	93.4	00.4	6.17	6.20	0.00	5.89	5.75	5.00	33	
9/5/2012	15:58	Fine	Middle	2.0	28.10	28.10	28.05	8.37	8.37	8.38	28.78	28.78	28.79	93.5	93.6	93.4	6.21	6.22	6.20	4.93	4.57	5.29	34	<u>33.50</u>
	16:08		Middle	1.5	25.60	25.60		8.31	8.31		30.50	30.50		76.2	76.4		5.24	5.25		2.18	2.15		2	
11/5/2012	16:11	Cloudy	Middle	1.5	25.50	25.50	25.55	8.32	8.32	8.32	30.50	30.50	30.50	76.8	77.0	76.6	5.28	5.29	5.27	2.10	2.20	2.16	2	2.00
	20:36		Middle	1.5	26.90	26.90		8.14	8.14		29.39	29.39		80.8	82.1		5.46	5.47		3.64	3.33		4	
14/5/2012	20:38	Cloudy	Middle	1.5	26.80	26.80	26.85	8.15	8.15	8.15	29.38	29.38	29.39	83.9	84.6	82.9	5.67	5.72	5.58	3.63	3.42	3.51	4	4.00
	10:13		Middle	2.0	26.90	26.90		8.68	8.68		29.59	29.59		57.2	57.4		3.86	3.88		5.45	5.55		3	<u> </u>
17/5/2012	10:16	Cloudy	Middle	2.0	26.80	26.80	26.85	8.67	8.67	8.68	29.60	29.60	29.60	57.8	59.0	57.9	3.92	3.98	3.91	5.06	5.12	5.30	3	3.00
	12:18		Middle	1.5	27.00	27.00		8.15	8.15		29.68	29.68		59.2	59.3		3.99	4.00		2.77	3.08		9	<u> </u>
19/5/2012	12:21	Fine	Middle	1.5	27.10	27.10	27.05	8.16	8.16	8.16	29.69	29.69	29.69	59.9	60.5	59.7	4.04	4.08	4.03	3.01	3.09	2.99	8	8.50
	13:32		Middle	1.5	27.70	27.70		8.15	8.15		29.75	29.75		57.1	57.4		3.81	3.83		5.29	4.98		4	<u> </u>
21/5/2012	13:35	Fine	Middle	1.5	27.80	27.80	27.75	8.16	8.16	8.16	29.77	29.77	29.76	57.7	57.8	57.5	3.85	3.86	3.84	4.88	4.97	5.03	6	5.00
	12:12		Middle	2.0	27.40	27.40		7.83	7.83		30.40	30.40		64.4	64.0		4.25	4.23		4.44	4.15		3	<u>+</u>
23/5/2012	12:15	Fine	Middle	2.0	27.30	27.30	27.35	7.84	7.84	7.84	30.41	30.41	30.41	66.3	67.4	65.5	4.44	4.51	4.36	4.21	4.29	4.27	3	3.00
	15:40		Middle	1.5	29.14	29.14		7.27	7.27		29.53	29.53		55.7	56.8		3.50	3.70		5.83	5.40		4	<u>† </u>
25/5/2012	15:43	Fine	Middle	1.5	29.13	29.13	29.14	7.28	7.28	7.28	29.54	29.54	29.54	55.3	55.2	55.8	3.46	3.45	3.53	6.20	5.83	5.82	3	3.50

Remarks:

Single underline denotes exceedance over Action level



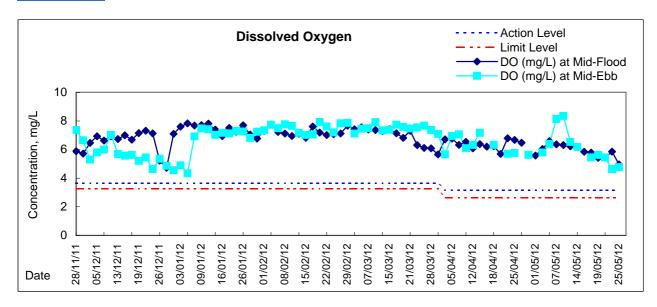
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

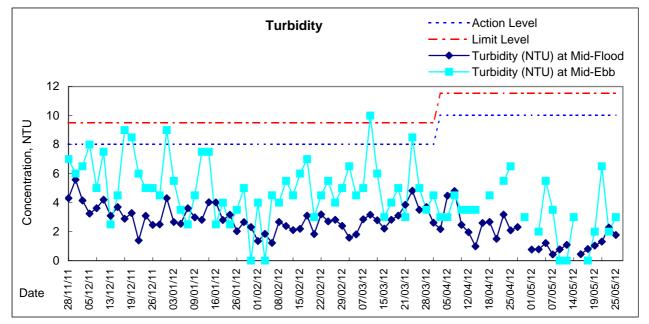
Date	Time	Weater	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTU		Suspend	
		Condition	r	n	Va	ilue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	ilue %	Average	Va	mg/L lue	Average	Va	alue	Average	mç Value	g/∟ Average
30/4/2012	21:16	Cloudy	Middle	1.5	25.21	25.21	25.21	7.59	7.59	7.59	29.02	29.02	29.02	83.3	83.3	83.3	5.82	5.82	5.81	2.17	2.19	2.16	6	6.50
	21:17	-	Middle	1.5	25.21	25.21		7.59	7.59		29.02	29.02		83.2	83.2		5.81	5.80		2.04	2.23		7	
2/5/2012	0:08	Cloudy	Middle	1.5	26.29	26.29	26.29	7.68	7.68	7.68	25.76	25.76	25.76	77.5	77.2	77.3	5.41	5.39	5.39	0.68	0.59	0.62	4	4.00
2/3/2012	0:09	Cloudy	Middle	1.5	26.29	26.29	20.29	7.68	7.68	7.00	25.75	25.75	23.70	77.0	77.3	11.5	5.37	5.40	0.00	0.54	0.66	0.02	4	4.00
4/5/2012	11:25	Fine	Middle	2.0	26.60	26.60	26.65	7.53	7.53	7.50	25.41	25.41	25.44	86.5	86.6	00.7	6.02	6.02	C 02	2.11	1.72	1.07	5	5.00
4/5/2012	11:27	Fine	Middle	2.0	26.70	26.70	26.65	7.50	7.50	7.52	25.40	25.40	25.41	86.7	86.9	86.7	6.03	6.04	6.03	2.09	1.95	1.97	5	5.00
7/5/004.0	12:25	F ire e	Middle	2.5	26.40	26.40	00.40	8.42	8.42	0.40	27.80	27.80	07.00	97.4	97.3	07.4	7.82	7.81	7.00	1.58	1.80	4.70	6	0.00
7/5/2012	12:27	Fine	Middle	2.5	26.40	26.40	26.40	8.43	8.43	8.43	27.80	27.80	27.80	97.4	97.5	97.4	7.81	7.82	7.82	1.81	1.74	1.73	6	6.00
- /- /- / -	11:40		Middle	2.0	27.80	27.80		8.40	8.40		27.60	27.60		97.3	97.0		7.57	7.55		2.44	2.42		2	
9/5/2012	11:42	Fine	Middle	2.0	27.90	27.90	27.85	8.38	8.38	8.39	27.60	27.60	27.60	97.3	97.1	97.2	7.56	7.55	7.56	2.60	2.47	2.48	2	2.00
	13:00		Middle	3.0	26.10	26.10		7.88	7.88		28.70	28.70		83.6	83.8		5.76	5.77		1.51	1.79		3	
11/5/2012	13:02	Cloudy	Middle	3.0	26.20	26.20	26.15	7.89	7.89	7.89	28.69	28.69	28.70	83.8	83.4	83.7	5.77	5.74	5.76	1.48	1.39	1.54	2	2.50
	22:10		Middle	1.5	26.90	26.90		8.06	8.06		27.35	27.35		88.5	88.6		6.05	6.05		1.00	1.10		4	
14/5/2012	22:11	Cloudy	Middle	1.5	26.90	26.90	26.90	8.06	8.06	8.06	27.35	27.35	27.35	87.6	87.9	88.2	5.99	6.00	6.02	1.08	1.27	1.11	4	4.00
	11:00		Middle	2.5	26.80	26.80		7.96	7.96		27.35	27.35		74.9	75.4		5.13	5.17		1.61	1.65		<2	
17/5/2012	11:02	Cloudy	Middle	2.5	26.80	26.80	26.80	7.94	7.94	7.95	27.36	27.36	27.36	75.5	75.7	75.4	5.18	5.19	5.17	1.79	1.70	1.69	<2	<2
	11:00		Middle	3.0	27.00	27.00		8.08	8.08		27.77	27.77		75.8	76.0		5.16	5.18		1.66	1.57		3	
19/5/2012	11:02	Fine	Middle	3.0	27.10	27.10	27.05	8.06	8.06	8.07	27.77	27.77	27.77	76.2	75.4	75.9	5.19	5.14	5.17	1.47	1.52	1.56	5	4.00
	12:03		Middle	2.5	26.60	26.60		7.94	7.94		28.26	28.26		69.8	69.7		4.77	4.77		2.73	2.52		6	
21/5/2012	12:05	Fine	Middle	2.5	26.70	26.70	26.65	7.93	7.93	7.94	28.27	28.27	28.27	69.9	69.9	69.8	4.78	4.78	4.78	2.86	2.42	2.63	5	5.50
	9:58		Middle	3.0	25.80	25.80		7.87	7.87		29.34	29.34		66.7	66.8		4.60	4.61		4.10	3.94		6	
23/5/2012	10:00	Fine	Middle	3.0	25.70	25.70	25.75	7.87	7.87	7.87	29.36	29.36	29.35	67.6	67.3	67.1	4.67	4.65	4.63	4.12	4.09	4.06	7	6.50
	11:40		Middle	2.5	27.60	27.60		7.89	7.89		29.09	29.09		64.3	64.8		4.30	4.33		5.22	5.07		8	
25/5/2012	11:42	Fine	Middle	2.5	27.60	27.60	27.60	7.90	7.90	7.90	29.10	29.10	29.10	65.3	65.6	65.0	4.36	4.38	4.34	5.01	5.10	5.10	8	8.00

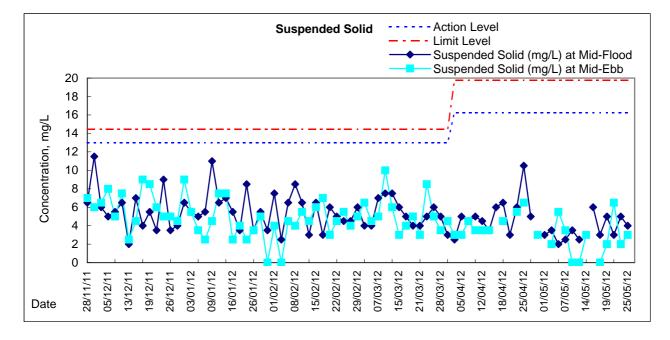
Remarks:

Single underline denotes exceedance over Action level

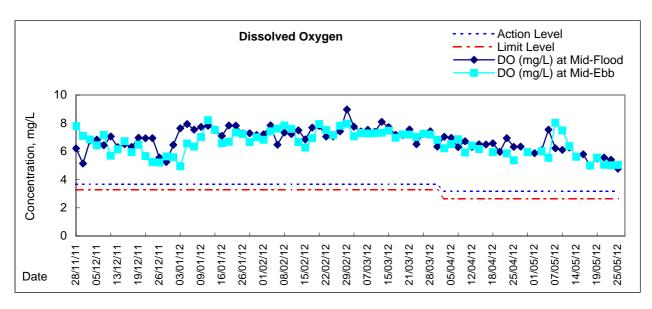
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

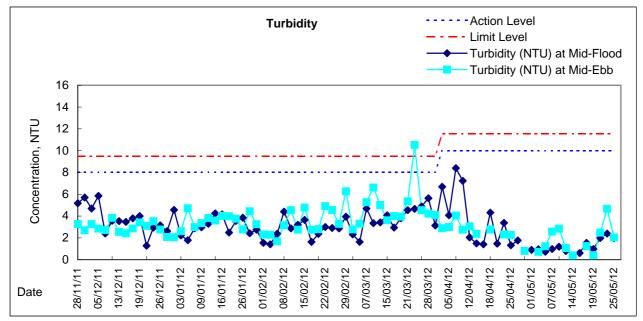


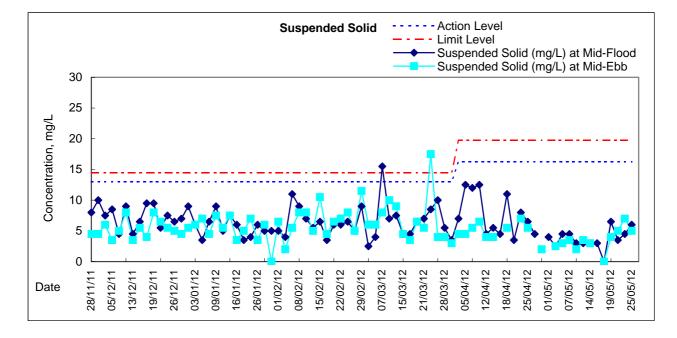






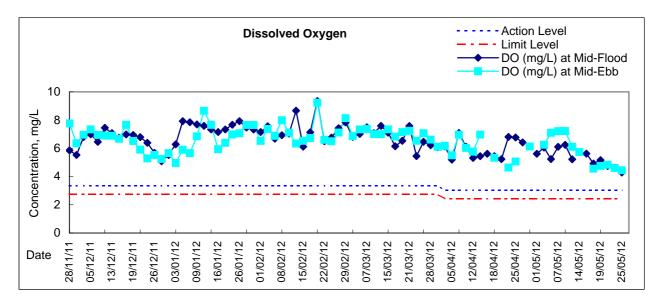


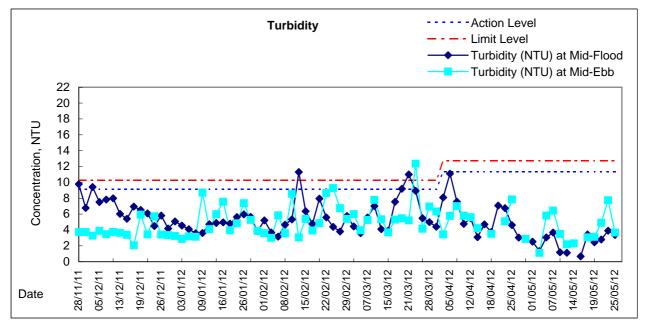


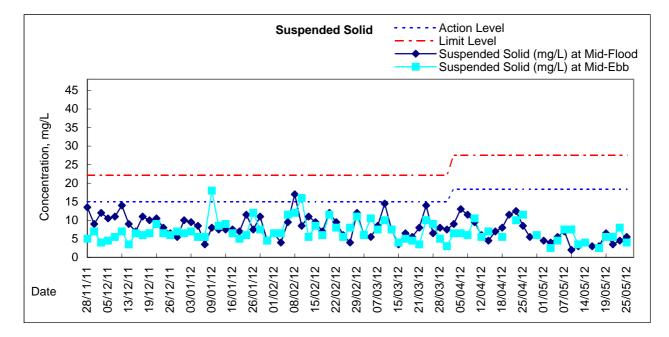




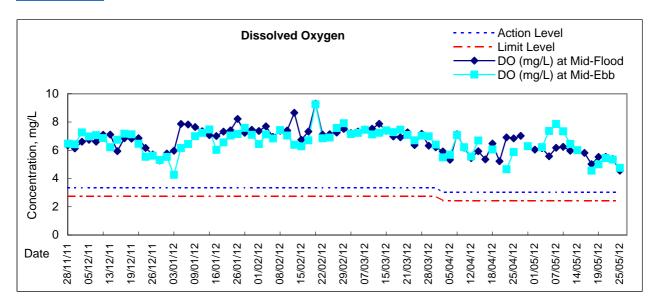
Graphic Presentation of Water Quality Result of C8 - City Garden

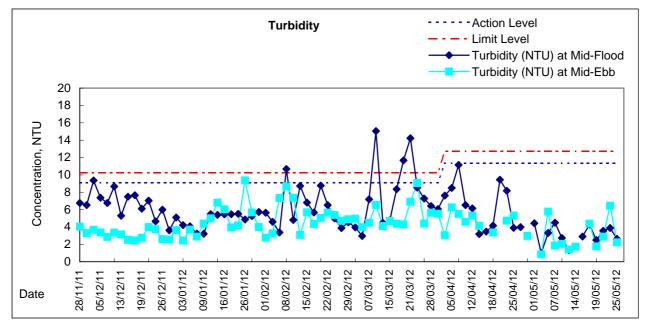


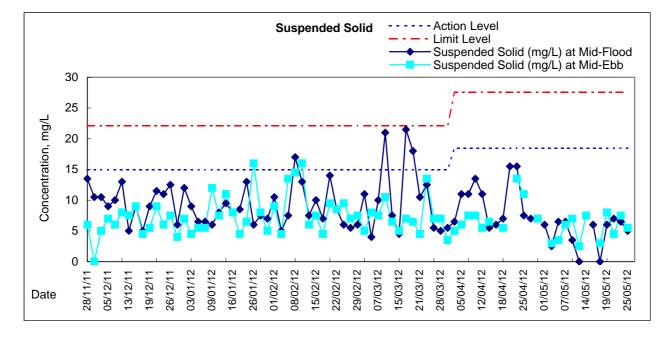




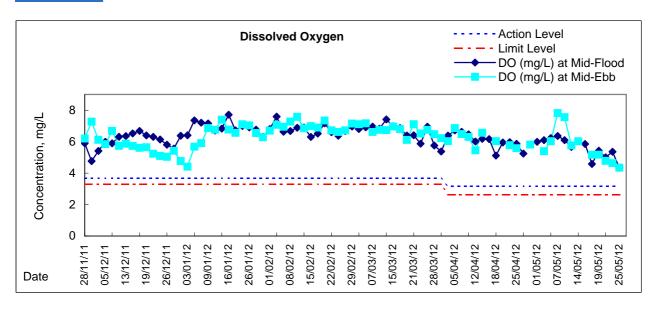
Graphic Presentation of Water Quality Result of C9 - Provident Centre

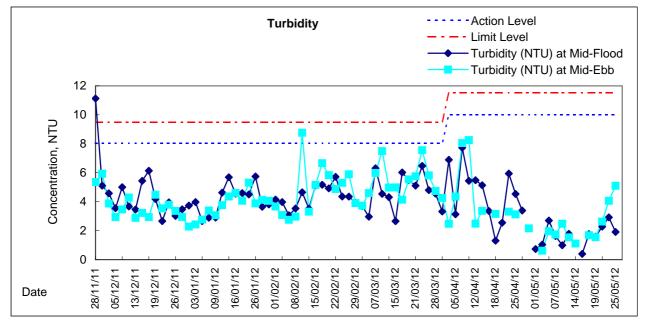


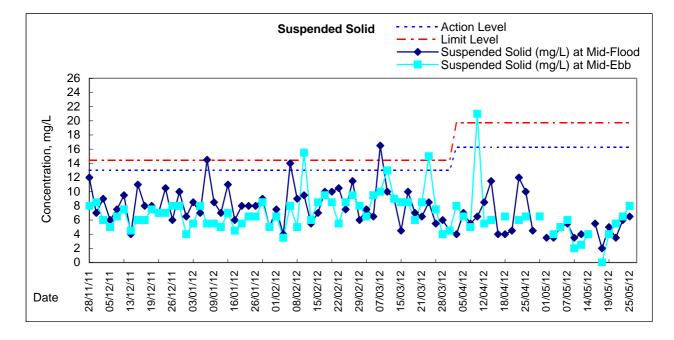




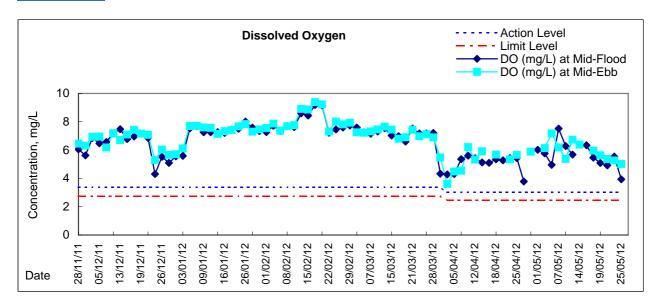
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

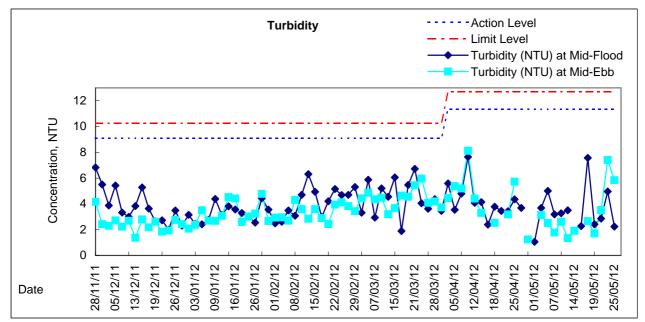


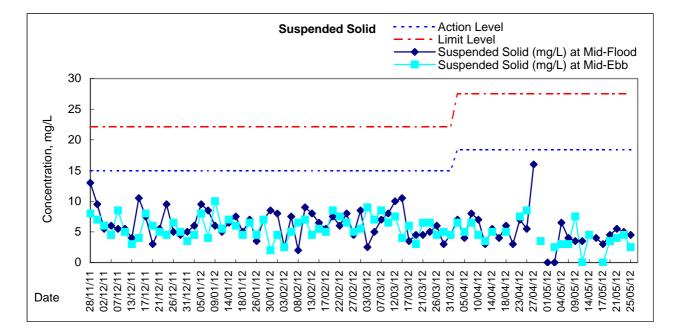




Graphic Presentation of Water Quality Result of C1 - HKCEC

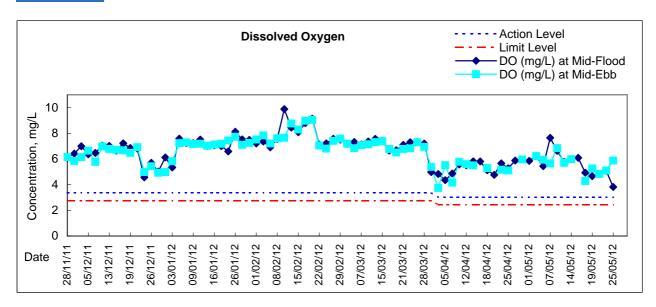


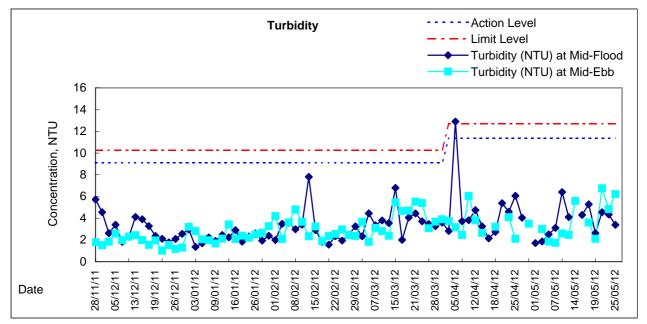


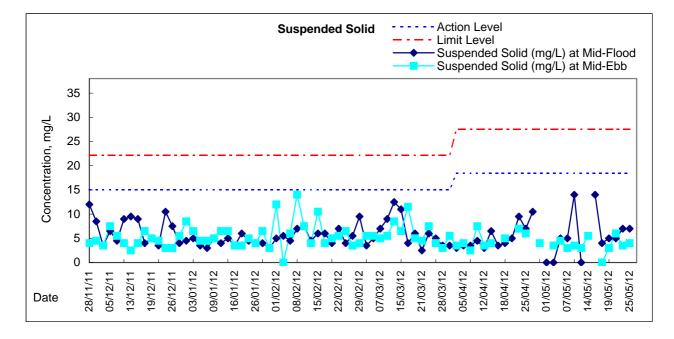




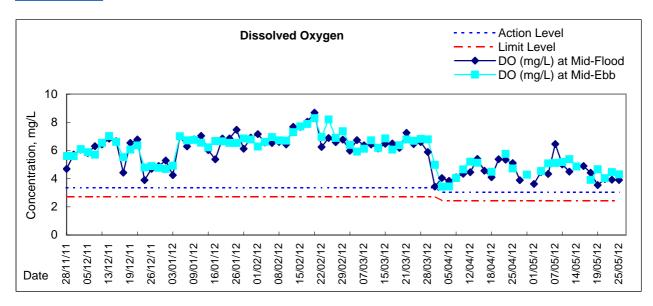
Graphic Presentation of Water Quality Result of C2 - TH / APA / SOC

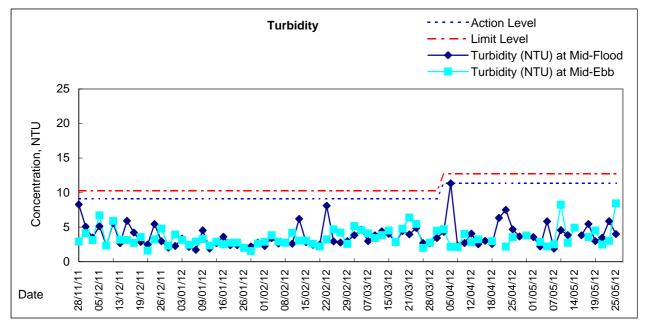


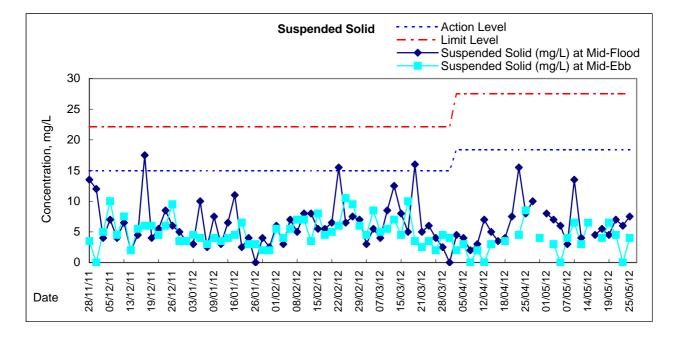




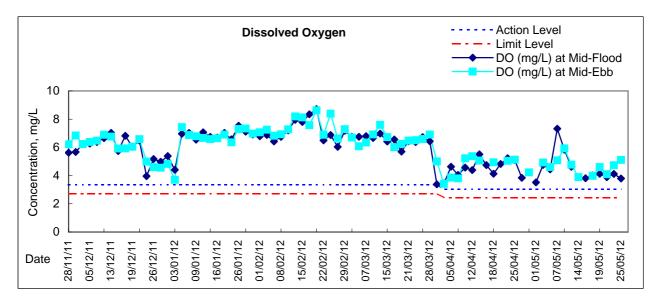


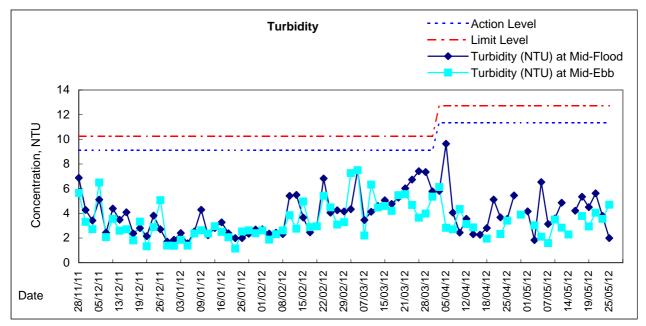


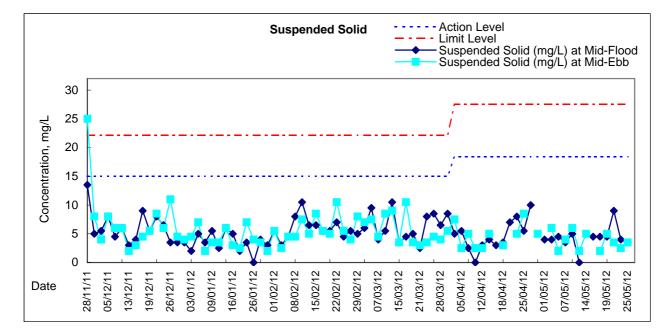




Graphic Presentation of Water Quality Result of C4e - WCT and GEC (Eastern)

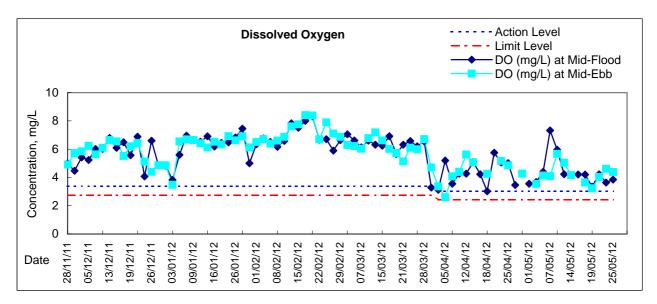


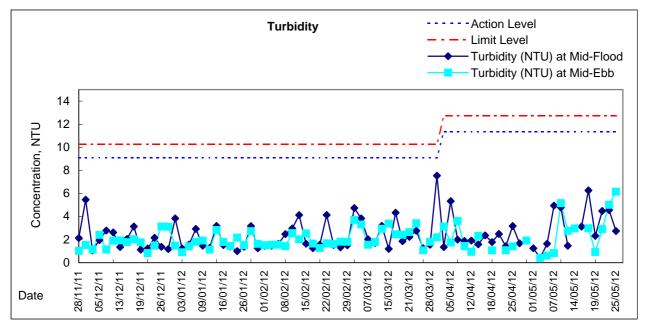


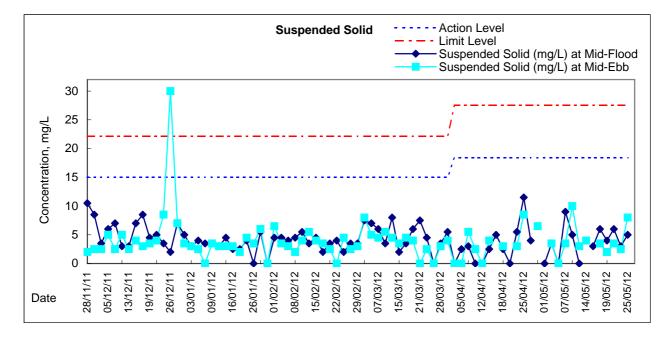




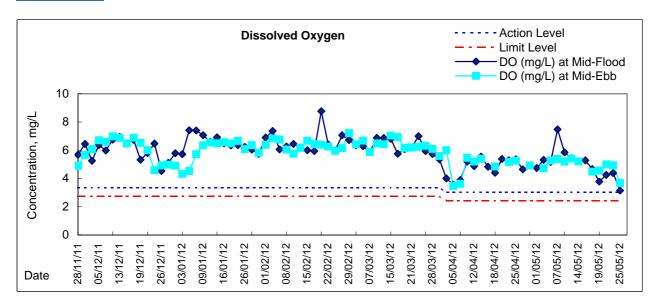
Graphic Presentation of Water Quality Result of C4w - WCT and GEC (Western)

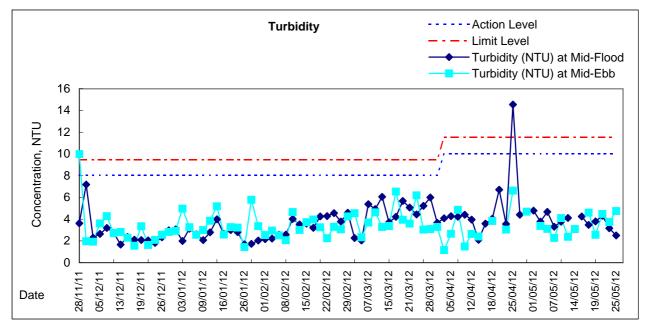


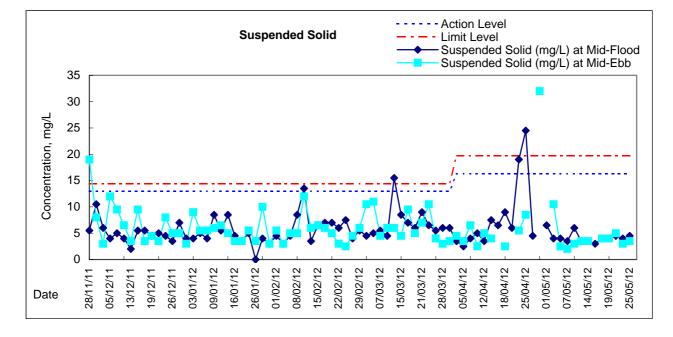




Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

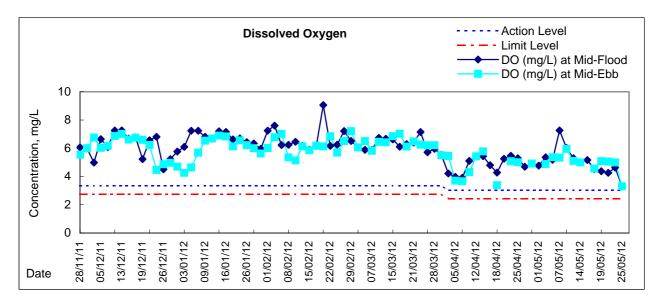


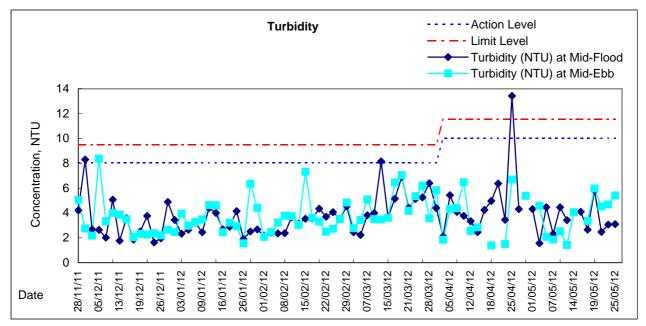


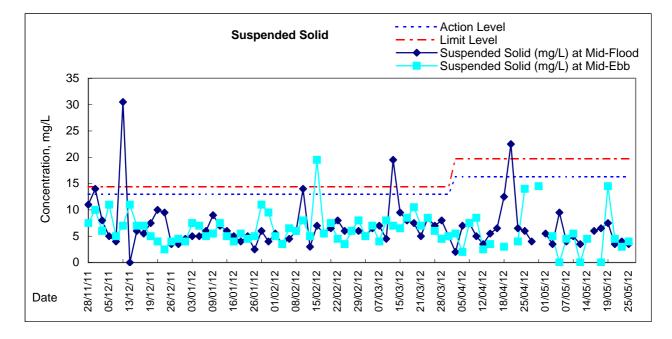




Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

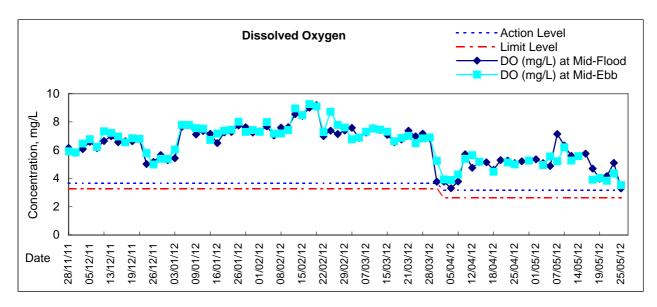


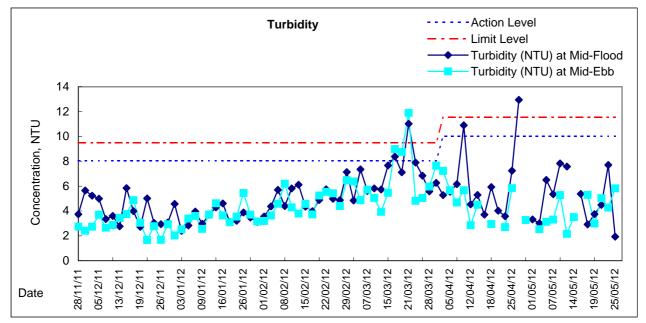


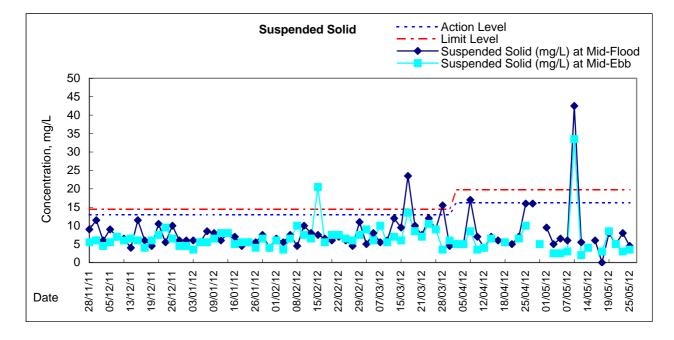




Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

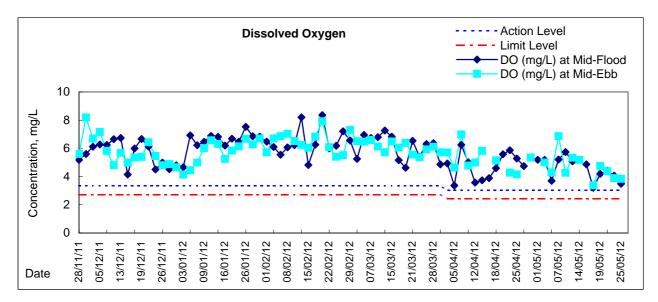


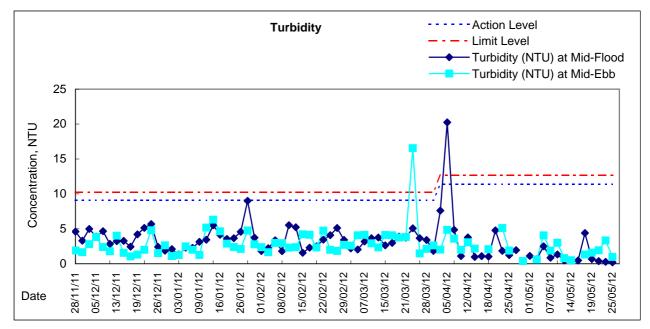


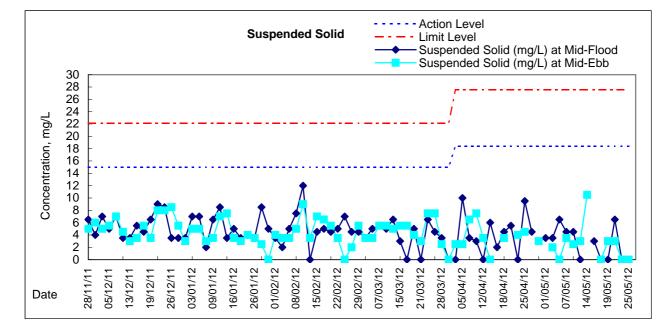




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp °C	perature		pН			Salini	ty	D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ppt ilue	Average	Va	lue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/5/2012	23:28	Cloudy	Middle	1.5	24.83	24.83	24.8	7.72	7.71	7.7	28.92	28.92	28.9	67.6	67.2	67.4	4.76	4.73	4.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	13:50	Cloudy	Middle	1.5	28.60	28.60	28.6	8.13	8.13	8.1	29.43	29.43	29.4	59.8	60.3	60.1	4.20	4.23	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	15:43	Cloudy	Middle	1.5	25.90	25.90	25.9	7.27	7.27	7.3	26.45	26.45	26.5	63.3	63.6	63.5	4.42	4.44	4.43
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	18:57	Fine	Middle	1.5	25.30	25.30	25.3	8.21	8.21	8.2	28.43	28.43	28.4	77.5	77.4	77.5	5.41	5.40	5.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	22:16	Fine	Middle	1.5	27.60	27.60	27.6	8.28	8.28	8.3	26.83	26.83	26.8	88.4	88.2	88.3	6.00	5.99	6.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	23:40	Cloudy	Middle	1.5	25.20	25.20	25.2	8.06	8.06	8.1	28.01	28.02	28.0	82.4	82.2	82.3	5.79	5.77	5.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2012	23:38	Cloudy	Middle	1.0	26.70	26.70	26.7	7.86	7.86	7.9	27.16	27.16	27.2	83.5	83.2	83.4	5.72	5.69	5.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/5/2012	15:11	Cloudy	Middle	1.5	26.40	26.40	26.4	8.14	8.14	8.1	28.11	28.11	28.1	40.8	40.4	40.6	2.81	2.78	2.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	20:23	Cloudy	Middle	1.5	26.00	26.00	26.0	7.83	7.83	7.8	27.24	27.24	27.2	73.5	74.7	74.1	5.09	5.17	5.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	20:35	Cloudy	Middle	1.5	26.20	26.20	26.2	8.01	8.01	8.0	27.17	27.17	27.2	67.2	67.1	67.2	4.66	4.66	4.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2012	21:19	Fine	Middle	1.5	26.20	26.20	26.2	8.07	8.07	8.1	28.44	28.44	28.4	69.0	69.4	69.2	4.75	4.78	4.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	23:25	Fine	Middle	1.5	27.00	27.00	27.0	8.06	8.06	8.1	28.38	28.38	28.4	64.6	64.1	64.4	4.38	4.35	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	WIG-FI																		
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salini	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	ilue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/5/2012	23:35	Cloudy	Middle	1.5	24.75	24.75	24.8	7.80	7.80	7.8	29.19	29.19	29.2	73.7	73.9	73.8	5.18	5.19	5.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	13:56	Cloudy	Middle	1.5	27.70	27.70	27.7	8.12	8.12	8.1	28.39	28.39	28.4	73.8	71.6	72.7	5.00	4.85	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	15:35	Cloudy	Middle	1.5	26.67	26.67	26.7	7.33	7.33	7.3	26.97	26.97	27.0	53.7	53.6	53.7	3.73	3.72	3.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	18:37	Fine	Middle	1.5	25.40	25.40	25.4	8.15	8.15	8.2	28.28	28.28	28.3	75.5	75.6	75.6	5.25	5.26	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	22:10	Fine	Middle	1.5	27.30	27.30	27.3	8.19	8.19	8.2	26.52	26.52	26.5	84.4	84.5	84.5	5.76	5.76	5.76
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	23:51	Cloudy	Middle	1.5	25.30	25.30	25.3	7.79	7.79	7.8	27.83	27.83	27.8	72.9	72.9	72.9	5.12	5.12	5.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2012	23:48	Cloudy	Middle	1.0	26.60	26.60	26.6	7.81	7.81	7.8	27.10	27.10	27.1	71.0	71.2	71.1	4.88	4.89	4.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/5/2012	15:05	Cloudy	Middle	1.5	27.40	27.40	27.4	8.03	8.03	8.0	27.76	27.76	27.8	46.6	47.1	46.9	3.15	3.18	<u>3.17</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	20:18	Cloudy	Middle	1.5	26.00	26.00	26.0	7.74	7.74	7.7	26.77	26.77	26.8	60.2	60.2	60.2	4.20	4.18	4.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	20:27	Cloudy	Middle	1.5	26.10	26.10	26.1	7.75	7.75	7.8	27.07	27.07	27.1	63.5	63.7	63.6	4.41	4.43	4.42
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2012	21:07	Fine	Middle	1.5	26.20	26.20	26.2	7.82	7.82	7.8	28.38	28.38	28.4	57.4	59.0	58.2	3.96	4.07	4.02
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	23:35	Fine	Middle	1.5	26.90	26.90	26.9	7.72	7.72	7.7	28.11	28.11	28.1	50.5	51.3	50.9	3.44	3.49	3.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Samplin		Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/5/2012	23:24	Cloudy	Middle	1.5	25.23	25.23	25.2	7.87	7.87	7.9	29.33	29.33	29.3	84.3	84.5	84.4	5.89	5.91	5.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	13:30	Cloudy	Middle	1.5	26.30	26.30	26.3	8.37	8.37	8.4	26.40	26.40	26.4	97.6	97.3	97.5	6.85	6.84	6.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	15:51	Cloudy	Middle	1.5	26.33	26.33	26.3	7.45	7.45	7.5	26.15	26.15	26.2	87.0	87.3	87.2	6.07	6.08	6.08
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	18:23	Fine	Middle	1.0	25.60	25.60	25.6	8.33	8.33	8.3	28.39	28.39	28.4	95.3	95.0	95.2	6.63	6.62	6.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	22:01	Fine	Middle	1.5	27.80	27.80	27.8	8.37	8.37	8.4	26.94	26.94	26.9	93.7	93.9	93.8	6.34	6.35	6.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	23:25	Cloudy	Middle	1.5	25.00	25.00	25.0	7.97	7.97	8.0	28.52	28.52	28.5	85.2	85.0	85.1	5.99	5.98	5.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2012	2:30	Cloudy	Middle	1.5	26.40	26.40	26.4	7.92	7.92	7.9	27.26	27.26	27.3	81.4	81.4	81.4	5.61	5.61	5.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:21		Surface	1.0	26.50	26.50	26.5	8.28	8.28	8.3	28.99	28.99	29.0	71.3	70.1	70.7	4.88	4.80	4.84
17/5/2012	15:22	Cloudy	Middle	2.0	26.40	26.40	26.4	8.27	8.27	8.3	29.01	29.01	29.0	69.5	69.8	69.7	4.76	4.78	4.77
	15:23		Bottom	3.0	26.40	26.40	26.4	8.27	8.27	8.3	28.99	28.99	29.0	69.2	68.7	69.0	4.73	4.70	4.72
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	19:55	Cloudy	Middle	1.5	26.30	26.30	26.3	7.93	7.93	7.9	27.49	27.49	27.5	80.3	80.4	80.4	5.54	5.55	5.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	20:16	Cloudy	Middle	1.5	26.40	26.40	26.4	7.90	7.90	7.9	28.48	28.48	28.5	77.3	77.8	77.6	5.30	5.34	5.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2012	21:50	Fine	Middle	1.5	26.20	26.20	26.2	7.96	7.96	8.0	28.34	28.34	28.3	73.9	74.5	74.2	5.09	5.14	5.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	23:10	Fine	Middle	1.5	27.00	27.00	27.0	7.94	7.94	7.9	28.43	28.43	28.4	68.0	68.2	68.1	4.62	4.63	4.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/5/2012	23:20	Cloudy	Middle	1.5	25.16	25.16	25.2	8.00	8.00	8.0	29.42	29.42	29.4	82.1	82.2	82.2	5.73	5.73	5.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	13:35	Cloudy	Middle	1.5	26.80	26.80	26.8	8.31	8.31	8.3	26.33	26.33	26.3	87.6	88.5	88.1	6.15	6.20	6.18
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	15:53	Cloudy	Middle	1.5	26.17	26.17	26.2	7.40	7.40	7.4	26.10	26.10	26.1	84.6	85.0	84.8	5.91	5.93	5.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	18:13	Fine	Middle	1.0	26.10	26.10	26.1	8.32	8.32	8.3	28.29	28.29	28.3	95.7	96.1	95.9	6.60	6.32	6.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	21:55	Fine	Middle	1.5	27.70	27.70	27.7	8.36	8.36	8.4	26.94	26.94	26.9	94.7	94.8	94.8	6.40	6.40	6.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	23:18	Cloudy	Middle	1.5	25.20	25.20	25.2	7.98	7.98	8.0	28.59	28.59	28.6	82.1	82.6	82.4	5.75	5.78	5.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/5/2012	2:24	Cloudy	Middle	1.5	26.40	26.40	26.4	8.07	8.05	8.1	27.47	27.47	27.5	82.2	82.3	82.3	5.65	5.65	5.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:26		Surface	1.0	26.50	26.50	26.5	8.28	8.28	8.3	28.69	28.69	28.7	72.3	71.7	72.0	4.95	4.91	4.93
17/5/2012	15:27	Cloudy	Middle	2.0	26.50	26.50	26.5	8.28	8.28	8.3	28.86	28.86	28.9	70.8	72.7	71.8	4.84	4.97	4.91
	15:28		Bottom	3.0	26.40	26.40	26.4	8.25	8.25	8.3	28.97	28.97	29.0	66.0	65.9	66.0	4.51	4.50	4.51
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	19:50	Cloudy	Middle	1.5	26.30	26.30	26.3	8.03	8.03	8.0	27.53	27.53	27.5	77.5	78.8	78.2	5.35	5.44	5.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	20:10	Cloudy	Middle	1.5	26.50	26.50	26.5	7.97	7.97	8.0	28.50	28.50	28.5	76.1	76.8	76.5	5.21	5.25	5.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2012	21:45	Fine	Middle	1.5	26.20	26.20	26.2	8.00	8.00	8.0	28.96	28.96	29.0	76.8	77.1	77.0	5.28	5.30	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	23:05	Fine	Middle	1.5	27.00	27.00	27.0	8.02	8.02	8.0	28.47	28.47	28.5	67.4	67.1	67.3	4.56	4.53	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

	Time	Weater	Samplir	ng Depth	Wat	er Temr	perature		pН			Salini	hv	D	O Satu	ration		DO	
Date	Time	Condition		n		°C	Average	Va	- lue	Average	Ve	ppt			% alue	Average	Va	mg/L	
	-		Surface	-	- va	lue -	- Average	- Va	iue -	Average -	-	-	Average -	- Va	iue -	- Average	- Va	ilue -	Average
30/4/2012	19:04	Cloudy	Middle	1	25.01	25.01	25.0	7.53	7.53	7.5	29.66	29.66	29.7	78.2	78.0	78.1	5.46	5.43	5.45
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	22:23	Cloudy	Middle	2	25.99	25.99	26.0	7.49	7.49	7.5	26.02	26.02	26.0	70.6	70.5	70.6	4.94	4.94	4.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	12:05	Cloudy	Middle	2	25.50	25.50	25.5	8.18	8.18	8.2	26.86	26.86	26.9	62.0	61.7	61.9	4.36	4.34	4.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	13:14	Fine	Middle	2	26.00	26.00	26.0	8.21	8.21	8.2	28.20	28.20	28.2	85.9	85.2	85.6	6.93	6.89	6.91
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	14:50	Fine	Middle	2	25.90	25.90	25.9	8.40	8.40	8.4	28.18	28.18	28.2	86.4	86.8	86.6	6.00	6.02	6.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	13:58	Cloudy	Middle	1	25.60	25.60	25.6	8.00	8.00	8.0	27.58	27.58	27.6	83.9	83.7	83.8	5.86	5.85	5.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2012	20:30	Cloudy	Middle	1	26.70	26.70	26.7	8.00	8.00	8.0	27.34	27.34	27.3	79.7	79.7	79.7	5.46	5.46	5.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/5/2012	11:30	Cloudy	Middle	2	26.10	26.10	26.1	8.60	8.60	8.6	28.67	28.67	28.7	43.5	42.7	43.1	3.00	2.94	2.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	11:45	Fine	Middle	2	25.60	25.60	25.6	7.93	7.93	7.9	27.84	27.84	27.8	39.1	40.1	39.6	2.73	2.81	2.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/3/2012	12:44	1 IIIE	Middle Bottom	2	26.30 -	26.30	- 26.3	7.88	7.88	7.9	27.16	27.16	- 27.2	36.1	35.3	35.7	2.50	2.44	<u>2.47</u>
	- 11:17		Surface	1	26.30	- 26.30	26.3	7.94	7.94	7.9	- 29.76	- 29.76	- 29.8	- 54.0	53.9	54.0	- 3.68	3.67	3.68
23/5/2012	11:18	Cloudy	Middle	3	26.30	26.30	26.3	7.93	7.93	7.9	29.86	29.86	29.9	54.3	54.1	54.2	3.70	3.69	3.70
	11:19		Bottom	4	26.30	26.30	26.3	7.94	7.94	7.9	29.97	29.97	30.0	53.9	53.6	53.8	3.68	3.65	3.67
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	12:17	Fine	Middle	2	26.60	26.60	26.6	8.03	8.03	8.0	28.51	28.51	28.5	57.3	57.3	57.3	3.93	3.93	3.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		l									I					1			<u>I</u>

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

	INIIG-EI	1	1					1									1		
Date	Time	Weater Condition		g Depth	Wat	er Temp °C	erature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	-
	-	Containion	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2012	19:09	Cloudy	Middle	1	24.86	24.86	24.9	7.53	7.53	7.5	29.07	29.07	29.1	76.2	76.3	76.3	5.35	5.36	5.36
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	22:15	Cloudy	Middle	2	26.13	26.13	26.1	7.42	7.41	7.4	25.96	25.96	26.0	71.3	71.5	71.4	4.99	5.00	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	12:10	Cloudy	Middle	2	27.20	27.20	27.2	8.07	8.07	8.1	26.53	26.53	26.5	61.6	62.4	62.0	4.20	4.25	4.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	13:20	Fine	Middle	2	26.20	26.20	26.2	8.31	8.31	8.3	27.10	27.10	27.1	85.5	85.2	85.4	6.91	6.88	6.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	14:40	Fine	Middle	2	29.40	29.40	29.4	8.46	8.46	8.5	26.75	26.75	26.8	67.0	65.5	66.3	4.45	4.35	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	14:00	Cloudy	Middle	2	26.80	26.80	26.8	7.94	7.94	7.9	27.25	27.25	27.3	77.6	77.9	77.8	5.32	5.35	5.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2012	20:22	Cloudy	Middle	1	27.00	27.00	27.0	7.81	7.81	7.8	27.19	27.19	27.2	76.2	76.0	76.1	5.20	5.19	5.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/5/2012	11:37	Cloudy	Middle	2	27.20	27.20	27.2	7.81	7.81	7.8	27.69	27.69	27.7	48.8	49.9	49.4	3.31	3.39	3.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	11:59	Fine	Middle	2	26.80	26.80	26.8	7.84	7.84	7.8	26.88	26.88	26.9	69.4	69.7	69.6	4.75	4.76	4.76
	-	Ì	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	12:56	Fine	Middle	2	26.70	26.70	26.7	8.09	8.09	8.1	26.43	26.43	26.4	64.1	63.9	64.0	4.41	4.40	4.41
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/5/2012	11:10	Cloudy	Middle	2	26.20	26.20	26.2	8.20	8.20	8.2	29.59	29.59	29.6	56.7	56.9	56.8	3.88	3.90	3.89
	-	t	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	12:25	Fine	Middle	2	27.40	27.40	27.4	7.86	7.86	7.9	28.07	28.07	28.1	57.0	56.6	56.8	3.85	3.82	3.84
	-	İ	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

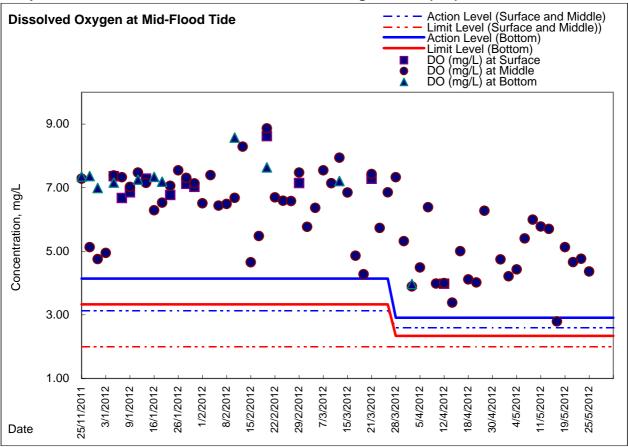
Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp °C	perature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2012	18:50	Cloudy	Middle	1.0	24.35	24.35	24.4	7.59	7.59	7.6	29.18	29.18	29.2	75.5	75.0	75.3	5.34	5.30	5.32
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	.	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	22:00	Cloudy	Middle Bottom	1.0	26.18	26.18	26.2	7.66	7.66	7.7	26.04	26.04	26.0	89.1 -	89.1	89.1 -	6.24	6.24	6.24
	-		Surface	-	-	-		-	-	-	-	-	-	-	-		-	-	-
4/5/2012	11:55	Cloudy	Middle	1.5	25.50	25.50	25.5	8.36	8.36	8.4	27.46	27.46	27.5	93.8	92.9	93.4	6.58	6.52	6.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	12:54	Fine	Middle	1.5	26.70	26.70	26.7	8.25	8.25	8.3	28.10	28.10	28.1	97.5	97.3	97.4	7.88	7.87	7.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	15:00	Fine	Middle	1.5	25.60	25.60	25.6	8.67	8.67	8.7	28.97	28.97	29.0	96.4	95.1	95.8	6.69	6.60	6.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:38		Surface	1.0	25.30	25.30	25.3	8.04	8.04	8.0	28.72	28.72	28.7	83.0	82.7	82.9	5.80	5.78	5.79
11/5/2012	13:40	Cloudy	Middle	2.0	25.20	25.20	25.2	8.03	8.03	8.0	28.82	28.82	28.8	81.2	80.6	80.9	5.69	5.64	5.67
	13:42		Bottom	3.0	25.00	25.00	25.0	8.00	8.00	8.0	29.12	29.12	29.1	70.7	70.4	70.6	4.96	4.95	4.96
44/5/0040	-	Clauda	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2012	20:10	Cloudy	Middle Bottom	1.0	26.70	26.70	26.7	7.98	7.98	8.0	28.18	28.18	28.2	87.2	86.1	86.7	5.95	5.87	5.91
	_		Surface		_	-	_	-	-		_	-		-	-	_	-	-	
17/5/2012	11:20	Cloudy	Middle	1.5	26.20	26.20	26.2	9.12	9.12	9.1	29.29	29.29	29.3	59.3	58.4	58.9	4.08	4.02	4.05
	-	-	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	11:22	Fine	Middle	1.5	25.40	25.40	25.4	7.96	7.96	8.0	28.83	28.82	28.8	48.8	49.3	49.1	3.40	3.44	<u>3.42</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	12:30	Fine	Middle	1.5	26.00	26.00	26.0	8.01	8.01	8.0	28.47	28.47	28.5	48.5	48.3	48.4	3.34	3.33	<u>3.34</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:23		Surface	1.0	26.30	26.30	26.3	7.60	7.60	7.6	30.54	30.54	30.5	62.3	61.1	61.7	4.21	4.15	4.18
23/5/2012	11:24	Cloudy	Middle	3.0	26.30	26.30	26.3	7.62	7.62	7.6	30.56	30.56	30.6	61.0	62.2	61.6	4.14	4.23	4.19
	11:25		Bottom	5.0	26.30	26.30	26.3	7.70	7.70	7.7	30.58	30.58	30.6	60.9	60.2	60.6	4.13	4.09	4.11
05/5/0040	-	F 100	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/5/2012	12:09	Fine	Middle	1.5	26.40	26.40	26.4	8.00	8.00	8.0	29.00	29.00	29.0	57.1	57.1	57.1	3.90	3.90	3.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

am

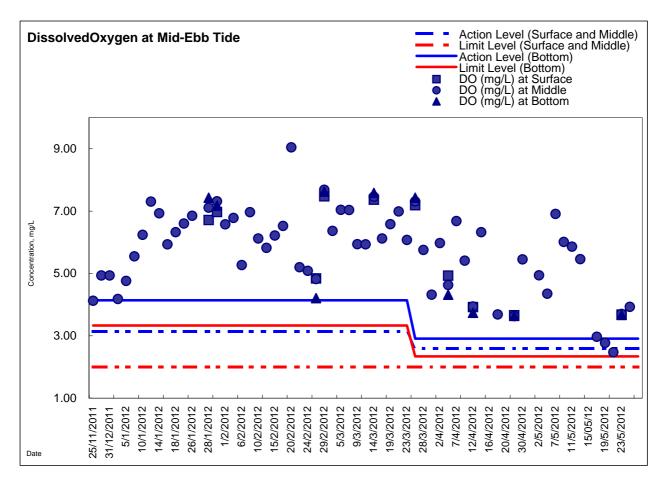
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

								1						1			1		
Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30/4/2012	18:45	Cloudy	Middle	1.0	25.12	25.12	25.1	7.60	7.60	7.6	29.91	29.91	29.9	79.5	79.5	79.5	5.51	5.51	5.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/5/2012	21:55	Cloudy	Middle	1.0	26.09	26.09	26.1	7.67	7.67	7.7	26.15	26.15	26.2	88.9	88.8	88.9	6.21	6.21	6.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2012	11:58	Cloudy	Middle	1.5	25.60	25.60	25.6	8.36	8.36	8.4	27.31	27.31	27.3	95.9	95.3	95.6	6.71	6.67	6.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/5/2012	13:00	Fine	Middle	1.5	25.80	25.80	25.8	8.33	8.33	8.3	28.20	28.20	28.2	96.4	96.2	96.3	7.86	7.82	7.84
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/5/2012	15:03	Fine	Middle	1.5	25.50	25.50	25.5	8.40	8.40	8.4	28.98	28.98	29.0	93.9	93.6	93.8	6.52	6.50	6.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13:45		Surface	1.0	25.20	25.20	25.2	8.00	8.00	8.0	28.78	28.78	28.8	75.4	76.2	75.8	5.28	5.34	5.31
11/5/2012	13:47	Cloudy	Middle	2.0	25.00	25.00	25.0	7.98	7.98	8.0	28.42	28.42	28.4	74.1	74.3	74.2	5.19	5.21	5.20
	13:49		Bottom	3.0	24.90	24.90	24.9	7.98	7.98	8.0	28.99	28.99	29.0	71.3	71.4	71.4	5.00	5.01	5.01
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/5/2012	20:05	Cloudy	Middle	1.0	26.70	26.70	26.7	8.06	8.06	8.1	28.30	28.30	28.3	84.5	85.7	85.1	5.76	5.84	5.80
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/5/2012	11:25	Cloudy	Middle	1.5	26.20	26.20	26.2	9.50	9.50	9.5	28.30	28.30	28.3	56.5	56.4	56.5	3.88	3.87	3.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19/5/2012	11:28	Fine	Middle	1.5	25.50	25.50	25.5	7.91	7.91	7.9	28.83	28.83	28.8	52.0	52.1	52.1	3.62	3.63	3.63
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/5/2012	12:35	Fine	Middle	1.5	26.10	26.10	26.1	7.97	7.97	8.0	28.90	28.90	28.9	54.5	54.5	54.5	3.75	3.75	3.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:28		Surface	1.0	26.20	26.20	26.2	7.26	7.26	7.3	30.46	30.46	30.5	62.8	63.1	63.0	4.27	4.29	4.28
23/5/2012	11:29	Cloudy	Middle	3.0	26.30	26.30	26.3	7.27	7.27	7.3	30.48	30.48	30.5	63.7	64.0	63.9	4.33	4.35	4.34
	11:30		Bottom	5.0	26.30	26.30	26.3	7.31	7.31	7.3	30.49	30.49	30.5	62.7	62.8	62.8	4.25	4.27	4.26
	-		Surface	-	-	-		-	-	-	-	-	-	-	-	-	-		-
25/5/2012	12:07	Fine	Middle	1.5	26.40	26.40	26.4	7.97	7.97	8.0	29.05	29.05	29.1	56.5	56.5	56.5	3.86	3.86	3.86
20/0/2012	-			1.5	-	-	20.4	-	-	0.0	- 29.05	- 29.05	20.1	- 50.5	- 50.5	50.5	-	-	
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

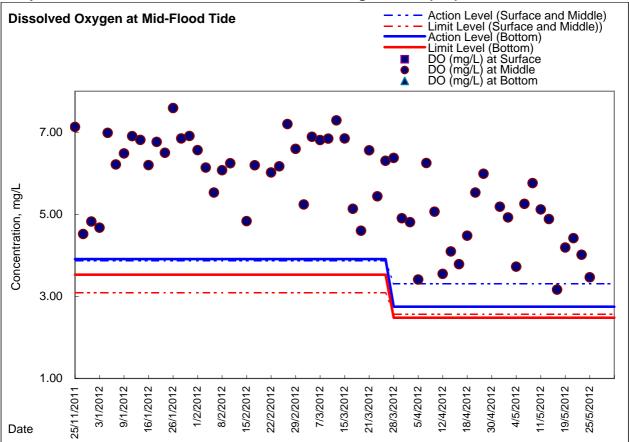




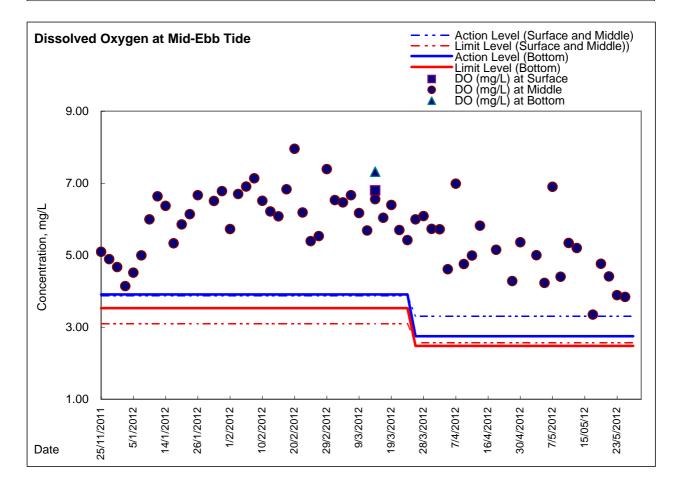
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





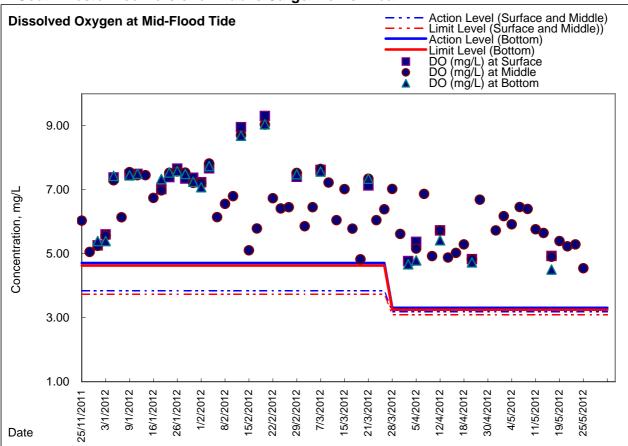


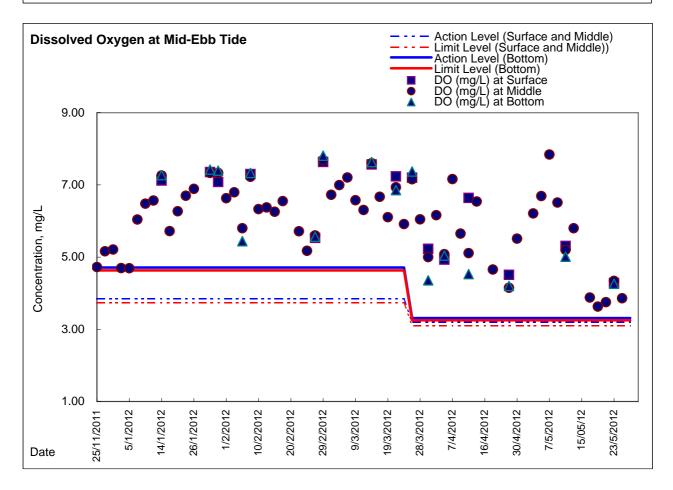
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House





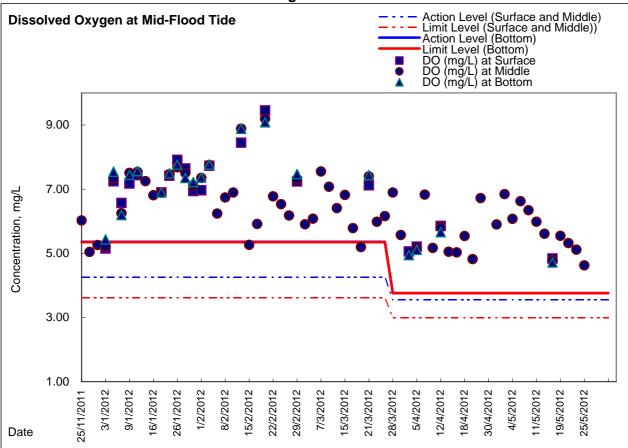
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

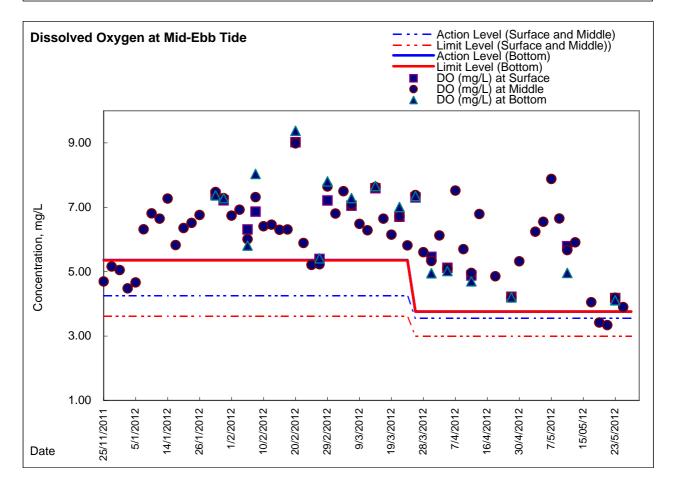






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







Appendix 5.4a

Additional Dissolved Oxygen Monitoring Results

Location: Station A Coordinate: 835468E, 815857N

Date	Time	Weater	Samplin	g Depth	Wat		perature		pН			Salinit	у	D	O Satur	ation		DO	
Dato		Condition	n	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L ilue	Average
					va	lue	Avelage	va	lue	Avelage	va	liue	Average	va	lue	Avelage	ve		Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-May-12	16:21	Cloudy	Middle	1.5	26.05	26.05	26.05	7.48	7.48	7.48	25.49	25.49	25.49	68.6	69.0	68.80	4.82	6.84	5.83
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:55		Surface	1.0	26.20	26.20	26.20	8.46	8.46	8.46	27.42	27.42	27.42	113.1	112.9	113.00	7.84	7.82	7.83
09-May-12	-	Sunny	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:56		Bottom	3.0	26.10	26.10	26.10	8.46	8.46	8.46	27.50	27.50	27.50	112.7	113.1	112.90	7.82	7.85	7.84
	15:48		Surface	1.0	26.40	26.40	26.40	8.23	8.23	8.23	28.08	28.08	28.08	65.3	66.1	65.70	4.49	4.55	4.52
17-May-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:49		Bottom	4.0	26.20	26.20	26.20	8.24	8.24	8.24	29.51	29.51	29.51	52.7	52.6	52.65	3.63	3.62	3.63
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23-May-12	17:35	Cloudy	Middle	1.5	26.90	26.90	26.90	7.97	7.97	7.97	27.83	27.83	27.83	73.1	72.4	72.75	4.96	4.80	4.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Location: Station B Coordinate: 835572E, 815961N

		_, 01330114																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	oerature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	16:12		Surface	1.0	25.91	25.91	25.91	7.48	7.48	7.48	25.82	25.82	25.82	67.8	68.5	68.15	4.76	4.81	4.79
04-May-12	16:13	Cloudy	Middle	5.0	25.24	25.24	25.24	7.35	7.35	7.35	27.05	27.05	27.05	62.6	62.5	62.55	4.42	4.41	4.42
	16:14		Bottom	9.0	24.28	24.28	24.28	7.14	7.14	7.14	30.05	30.05	30.05	55.3	54.6	54.95	3.90	3.85	3.88
	18:45		Surface	1.0	25.90	25.90	25.90	8.46	8.46	8.46	27.39	27.39	27.39	115.2	115.4	115.30	8.02	8.03	8.03
09-May-12	18:46	Sunny	Middle	5.5	25.80	25.80	25.80	8.45	8.45	8.45	27.50	27.50	27.50	110.9	113.4	112.15	7.80	7.90	7.85
	18:47		Bottom	10.0	25.80	25.80	25.80	8.42	8.42	8.42	27.84	27.84	27.84	92.2	90.4	91.30	6.42	6.30	6.36
	15:43		Surface	1.0	26.40	26.40	26.40	8.29	8.29	8.29	28.58	28.58	28.58	74.3	75.6	74.95	5.10	5.19	5.15
17-May-12	15:44	Cloudy	Middle	5.5	26.20	26.20	26.20	8.28	8.28	8.28	28.89	28.89	28.89	71.0	70.8	70.90	4.88	4.87	4.88
	15:45		Bottom	10.0	25.90	25.90	25.90	8.21	8.21	8.21	30.08	30.08	30.08	51.7	51.2	51.45	3.56	3.53	3.55
	17:40		Surface	1.0	26.40	26.40	26.40	7.97	7.97	7.97	29.91	29.91	29.91	76.8	77.1	76.95	5.23	5.24	5.24
23-May-12	17:41	Cloudy	Middle	5.0	26.40	26.40	26.40	7.99	7.99	7.99	29.96	29.96	29.96	76.1	75.6	75.85	5.18	5.14	5.16
	17:42		Bottom	9.0	26.50	26.50	26.50	8.00	8.00	8.00	30.17	30.17	30.17	73.5	74.1	73.80	4.99	5.03	5.01

Location: Station C Coordinate: 835659E, 816271N

Coordinate.		,																	
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini ppt	y	C	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	16:00		Surface	1.0	26.36	26.36	26.36	7.48	7.48	7.48	26.20	26.20	26.20	72.5	72.4	72.45	5.04	5.03	5.04
04-May-12	16:02	Cloudy	Middle	6.5	25.40	25.40	25.40	7.32	7.32	7.32	27.44	27.44	27.44	65.2	65.1	65.15	4.57	4.56	4.57
	16:04		Bottom	12.0	25.01	25.01	25.01	7.24	7.24	7.24	27.71	27.71	27.71	66.4	66.5	66.45	4.28	4.27	4.28
	18:35		Surface	1.0	25.80	25.80	25.80	8.62	8.62	8.62	26.90	26.90	26.90	120.0	119.4	119.70	8.40	8.35	8.38
09-May-12	18:36	Sunny	Middle	6.5	25.70	25.70	25.70	8.48	8.48	8.48	27.32	27.32	27.32	115.7	116.9	116.30	8.08	8.17	8.13
	18:37		Bottom	12.0	25.70	25.70	25.70	8.44	8.44	8.44	27.73	27.73	27.73	109.4	109.8	109.60	7.63	7.66	7.65
	15:36		Surface	1.0	26.50	26.50	26.50	8.33	8.33	8.33	28.66	28.66	28.66	80.1	80.0	80.05	5.50	5.47	5.49
17-May-12	15:37	Cloudy	Middle	7.0	26.00	26.00	26.00	8.24	8.24	8.24	29.73	29.73	29.73	59.2	59.0	59.10	4.08	4.05	4.07
	15:38		Bottom	13.0	25.50	25.50	25.50	8.22	8.22	8.22	30.38	30.38	30.38	52.5	52.4	52.45	3.62	3.61	3.62
	17:47		Surface	1.0	26.30	26.30	26.30	7.98	7.98	7.98	29.93	29.93	29.93	73.8	74.2	74.00	5.03	5.06	5.05
23-May-12	17:48	Cloudy	Middle	6.5	26.40	26.40	26.40	8.00	8.00	8.00	30.20	30.20	30.20	72.1	72.2	72.15	4.90	4.91	4.91
	17:49		Bottom	12.0	26.30	26.30	26.30	8.00	8.00	8.00	30.34	30.34	30.34	65.4	64.3	64.85	4.44	4.37	4.41

Location: Station A Coordinate: 835468E, 815857N

Date	Time	Weater	Samplin	g Depth	Wat		perature		pН			Salini	ty	D	O Satur	ation		DO	
Date		Condition	n	า	Va	℃	A	Ve	-	A	Ve	ppt	A	Ve	%	A	V	mg/L	
					Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04-May-12	11:50	Cloudy	Middle	1.5	25.50	25.50	25.50	8.30	8.30	8.30	26.98	26.98	26.98	90.8	91.1	90.95	6.38	6.40	6.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09-May-12	15:25	Sunny	Middle	1.5	26.30	26.30	26.30	8.40	8.40	8.40	28.08	28.08	28.08	100.1	102.4	101.25	6.91	7.05	6.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Surface	1.0	26.20	26.20	26.20	9.44	9.44	9.44	28.97	28.97	28.97	59.6	59.8	59.70	4.09	4.10	4.10
17-May-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:12		Bottom	4.0	26.20	26.20	26.20	9.38	9.38	9.38	29.13	29.13	29.13	58.9	57.1	58.00	4.02	3.91	3.97
	11:53		Surface	1.0	26.30	26.30	26.30	7.35	7.35	7.35	30.18	30.18	30.18	63.6	64.1	63.85	4.33	4.36	4.35
23-May-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:54		Bottom	4.0	26.30	26.30	26.30	7.36	7.36	7.36	30.48	30.48	30.48	59.5	58.4	58.95	4.04	3.93	3.99

Location: Station B Coordinate: 835572E, 815961N

coordinate.	0000722	., 01000111																	
Date	Time	Weater Condition		g Depth	Wat	er Temp ℃	oerature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	า	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	11:45		Surface	1.0	25.60	25.60	25.60	8.40	8.40	8.40	26.57	26.57	26.57	104.2	103.6	103.90	7.33	7.29	7.31
04-May-12	11:46	Cloudy	Middle	5.0	25.40	25.40	25.40	8.30	8.30	8.30	26.97	26.97	26.97	98.3	97.5	97.90	6.91	6.86	6.89
	11:47		Bottom	9.0	25.40	25.40	25.40	8.33	8.33	8.33	27.66	27.66	27.66	87.5	87.0	87.25	6.14	6.11	6.13
	15:20		Surface	1.0	25.90	25.90	25.90	8.45	8.45	8.45	28.27	28.27	28.27	110.7	110.8	110.75	7.67	7.69	7.68
09-May-12	15:21	Sunny	Middle	5.0	25.80	25.80	25.80	8.47	8.47	8.47	28.31	28.31	28.31	108.2	108.9	108.55	7.53	7.55	7.54
	15:22		Bottom	9.0	24.70	24.70	24.70	8.37	8.37	8.37	30.01	30.01	30.01	83.0	82.0	82.50	5.81	5.74	5.78
	11:05		Surface	1.0	26.20	26.20	26.20	9.88	9.88	9.88	29.06	29.06	29.06	71.1	71.2	71.15	4.88	4.89	4.89
17-May-12	11:06	Cloudy	Middle	5.0	26.10	26.10	26.10	9.86	9.86	9.86	29.05	29.05	29.05	71.0	70.7	70.85	4.87	4.86	4.87
	11:07		Bottom	9.0	26.10	26.10	26.10	9.85	9.85	9.85	28.85	28.85	28.85	60.4	60.8	60.60	4.16	4.20	4.18
	11:46		Surface	1.0	26.50	26.50	26.50	7.23	7.23	7.23	30.49	30.49	30.49	69.0	69.1	69.05	4.67	4.68	4.68
23-May-12	11:47	Cloudy	Middle	6.0	26.40	26.40	26.40	7.33	7.33	7.33	30.55	30.55	30.55	71.3	71.7	71.50	4.84	4.87	4.86
	11:48		Bottom	11.0	26.30	26.30	26.30	7.32	7.32	7.32	30.48	30.48	30.48	59.4	61.4	60.40	4.04	4.18	4.11

Location: Station C Coordinate: 835659E, 816271N

coordinate.	0000002	., 01027 111																	
Date	Time	Weater Condition		g Depth	Wat	er Temp ℃	perature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	11:35		Surface	1.0	25.60	25.60	25.60	8.40	8.40	8.40	26.20	26.20	26.20	108.7	109.5	109.10	7.66	7.72	7.69
04-May-12	11:38	Cloudy	Middle	7.0	25.50	25.50	25.50	8.38	8.38	8.38	26.85	26.85	26.85	99.5	98.7	99.10	7.00	6.95	6.98
	11:41		Bottom	13.0	25.10	25.10	25.10	8.32	8.32	8.32	27.50	27.50	27.50	90.4	90.0	90.20	6.37	6.34	6.36
	15:10		Surface	1.0	25.80	25.80	25.80	8.57	8.57	8.57	27.97	27.97	27.97	113.3	112.7	113.00	7.89	7.84	7.87
09-May-12	15:11	Sunny	Middle	6.5	25.20	25.20	25.20	8.48	8.48	8.48	28.94	28.94	28.94	96.9	97.6	97.25	6.77	6.83	6.80
	15:12		Bottom	12.0	25.10	25.10	25.10	8.40	8.40	8.40	27.25	27.25	27.25	94.1	95.4	94.75	6.58	6.67	6.63
	11:00		Surface	1.0	26.10	26.10	26.10	9.13	9.13	9.13	28.94	28.94	28.94	76.5	78.5	77.50	5.29	5.40	5.35
17-May-12	11:01	Cloudy	Middle	6.5	26.00	26.00	26.00	9.06	9.06	9.06	29.12	29.12	29.12	71.1	70.7	70.90	4.89	4.87	4.88
	11:02		Bottom	12.0	25.50	25.50	25.50	8.98	8.98	8.98	30.35	30.35	30.35	66.9	66.8	66.85	4.61	4.60	4.61
	11:39		Surface	1.0	26.50	26.50	26.50	7.29	7.29	7.29	30.57	30.57	30.57	75.4	75.7	75.55	5.10	5.13	5.12
23-May-12	11:40	Cloudy	Middle	7.5	26.30	26.30	26.30	7.28	7.28	7.28	30.63	30.63	30.63	78.2	77.7	77.95	5.30	5.27	5.29
	11:41		Bottom	14.0	26.40	26.40	26.40	7.27	7.27	7.27	30.58	30.58	30.58	77.3	77.7	77.50	5.26	5.30	5.28



Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Deal time Naise Data DTN		insting Whitefield Depath			
Real-time Noise Data RTN Normal Day 07:00-19:00	11 (FEHD Hong Kong Transport S 5/5/2012 13:31 67.1	11/5/2012 8:31 64.5	16/5/2012 15:31 65.1	22/5/2012 10:31 67.6	26/5/2012 17:31 67.0
30/4/2012 7:01 62.5	5/5/2012 14:01 79.8	11/5/2012 9:01 65.3	16/5/2012 16:01 64.3	22/5/2012 11:01 67.4	26/5/2012 18:01 66.2
30/4/2012 8:01 64.7	5/5/2012 15:01 67.9	11/5/2012 10:01 64.6	16/5/2012 17:01 66.2	22/5/2012 12:01 65.3	26/5/2012 18:31 66.9
30/4/2012 8:31 66.4	5/5/2012 15:31 72.3	11/5/2012 10:31 63.8	16/5/2012 17:31 65.4	22/5/2012 12:31 66.1	Normal Day 19:00-23:00,
30/4/2012 9:01 66.4	5/5/2012 16:01 66.8	11/5/2012 11:01 65.2	16/5/2012 18:01 64.0	22/5/2012 13:01 66.0	Sunday & Holiday 07:00-23:00
30/4/2012 9:31 67.1	5/5/2012 16:31 65.7	11/5/2012 11:31 64.0	16/5/2012 18:31 63.5	22/5/2012 13:31 66.6	28/4/2012 7:01 61.1
30/4/2012 10:01 66.8	5/5/2012 17:01 65.4	11/5/2012 12:01 63.9	17/5/2012 7:01 63.2	22/5/2012 14:01 76.9	
30/4/2012 10:31 66.0	5/5/2012 17:31 64.8	11/5/2012 12:31 62.6	17/5/2012 7:31 64.4	22/5/2012 14:31 71.8	28/4/2012 7:06 60.8
30/4/2012 11:01 66.6	5/5/2012 18:01 65.7	11/5/2012 13:01 63.0	17/5/2012 8:01 64.8	22/5/2012 15:01 66.3	28/4/2012 7:11 61.5
30/4/2012 11:31 66.8	5/5/2012 18:31 64.9	11/5/2012 13:31 64.0	17/5/2012 8:31 65.8	22/5/2012 15:31 71.5	28/4/2012 7:16 62.2
30/4/2012 12:01 63.4	7/5/2012 7:01 63.2	11/5/2012 14:01 64.4	17/5/2012 9:01 66.7	22/5/2012 16:01 66.9	28/4/2012 7:21 62.2
30/4/2012 12:31 62.7	7/5/2012 7:31 64.1	11/5/2012 14:31 61.8	17/5/2012 9:31 67.3	22/5/2012 16:31 68.8	28/4/2012 7:26 62.4
30/4/2012 13:01 64.5	7/5/2012 8:01 63.8	11/5/2012 15:01 63.5	17/5/2012 10:01 67.7	22/5/2012 17:01 66.1	28/4/2012 7:31 63.2
30/4/2012 13:31 66.7	7/5/2012 8:31 66.3	11/5/2012 15:31 63.3	17/5/2012 10:31 68.0	22/5/2012 17:31 67.2	28/4/2012 7:36 60.6
30/4/2012 14:01 66.0	7/5/2012 9:01 65.7	11/5/2012 16:01 64.4	17/5/2012 11:01 68.5	22/5/2012 18:01 64.3	28/4/2012 7:41 62.5
30/4/2012 14:31 66.2	7/5/2012 9:31 67.0	11/5/2012 16:31 64.6	17/5/2012 11:31 67.9	22/5/2012 18:31 64.1	28/4/2012 7:46 62.2
30/4/2012 15:01 66.2	7/5/2012 10:01 66.6	11/5/2012 17:01 65.1	17/5/2012 12:01 64.0	23/5/2012 7:01 69.3	28/4/2012 7:51 61.7
30/4/2012 15:31 66.3	7/5/2012 10:31 67.2	11/5/2012 17:31 64.7	17/5/2012 12:31 65.2	23/5/2012 7:31 64.7	28/4/2012 7:56 62.4
30/4/2012 16:01 67.1	7/5/2012 11:01 67.3	11/5/2012 18:01 63.5	17/5/2012 13:01 70.3	23/5/2012 8:01 64.9	28/4/2012 8:01 61.9
30/4/2012 16:31 67.3	7/5/2012 11:31 67.3	11/5/2012 18:31 62.4	17/5/2012 13:31 71.9	23/5/2012 8:31 67.0	28/4/2012 8:06 62.3
30/4/2012 17:01 66.8	7/5/2012 12:01 62.8	12/5/2012 7:01 64.9	17/5/2012 14:01 67.4	23/5/2012 9:01 67.7	28/4/2012 8:11 62.3
30/4/2012 17:31 65.2	7/5/2012 12:31 62.6	12/5/2012 7:31 65.1	17/5/2012 14:31 70.9	23/5/2012 9:31 66.4	28/4/2012 8:16 64.3
30/4/2012 18:01 63.3	7/5/2012 13:01 75.0	12/5/2012 8:01 64.5	17/5/2012 15:01 67.7	23/5/2012 10:01 69.0	28/4/2012 8:21 63.6
30/4/2012 18:31 63.3	7/5/2012 13:31 76.9	12/5/2012 8:31 65.1	17/5/2012 15:31 69.0	23/5/2012 10:31 67.5	28/4/2012 8:26 64.2
2/5/2012 7:01 61.5	7/5/2012 14:01 67.4	12/5/2012 9:01 66.0	17/5/2012 16:01 66.7	23/5/2012 11:01 67.1	28/4/2012 8:31 63.9
2/5/2012 7:31 64.2	7/5/2012 14:31 74.9	12/5/2012 9:31 63.8	17/5/2012 16:31 67.3	23/5/2012 11:31 67.7	28/4/2012 8:36 64.5
2/5/2012 8:01 64.7	7/5/2012 15:01 67.6	12/5/2012 10:01 64.7	17/5/2012 17:01 67.9	23/5/2012 12:01 67.3	28/4/2012 8:41 64.2
2/5/2012 8:31 66.0	7/5/2012 15:31 71.5	12/5/2012 10:31 64.0	17/5/2012 17:31 65.8	23/5/2012 12:31 66.4	28/4/2012 8:46 63.9
2/5/2012 9:01 67.5	7/5/2012 16:01 65.6	12/5/2012 11:01 69.4	17/5/2012 18:01 66.3	23/5/2012 13:01 65.1	28/4/2012 8:51 65.8
2/5/2012 9:31 67.3	7/5/2012 16:31 66.6	12/5/2012 11:31 68.6	17/5/2012 18:31 64.9	23/5/2012 13:31 67.9	28/4/2012 8:56 66.0
2/5/2012 10:01 67.3	7/5/2012 17:01 66.7	12/5/2012 12:01 63.8	18/5/2012 7:01 64.0	23/5/2012 14:01 68.2	28/4/2012 9:01 64.9
2/5/2012 10:31 66.1	7/5/2012 17:31 66.3	12/5/2012 12:31 62.5	18/5/2012 7:31 64.9	23/5/2012 14:31 68.0	28/4/2012 9:06 65.3
2/5/2012 11:01 67.5	7/5/2012 18:01 65.2	12/5/2012 13:01 63.5	18/5/2012 8:01 64.7	23/5/2012 15:01 68.7	28/4/2012 9:11 64.6
2/5/2012 11:31 66.0	7/5/2012 18:31 63.2	12/5/2012 13:31 69.7	18/5/2012 8:31 65.9	23/5/2012 15:31 67.6	28/4/2012 9:16 64.5
2/5/2012 12:01 63.6	8/5/2012 7:01 63.9	12/5/2012 14:01 70.3	18/5/2012 9:01 65.6	23/5/2012 16:01 68.6	28/4/2012 9:21 64.5
2/5/2012 12:31 67.4	8/5/2012 7:31 64.0	12/5/2012 14:31 65.4	18/5/2012 9:31 65.1	23/5/2012 16:31 66.3	28/4/2012 9:26 64.0
2/5/2012 13:01 65.3	8/5/2012 8:01 64.8	12/5/2012 15:01 72.3	18/5/2012 10:01 66.1	23/5/2012 17:01 67.3	28/4/2012 9:31 63.9
2/5/2012 13:31 65.9	8/5/2012 8:31 65.9	12/5/2012 15:31 68.0	18/5/2012 10:31 65.5	23/5/2012 17:31 67.0	28/4/2012 9:36 63.8
2/5/2012 14:01 66.4 2/5/2012 14:31 69.9	8/5/2012 9:01 65.7 8/5/2012 9:31 65.1	12/5/2012 16:01 64.4	18/5/2012 11:01 68.2	23/5/2012 18:01 64.9	28/4/2012 9:41 64.4 28/4/2012 9:46 64.0
2/5/2012 15:01 68.8	8/5/2012 10:01 64.7	12/5/2012 16:31 66.0 12/5/2012 17:01 67.9	18/5/2012 11:31 67.7 18/5/2012 12:01 64.5	24/5/2012 7:01 62.8	28/4/2012 9:51 63.4
2/5/2012 15:31 68.7	8/5/2012 10:31 65.3	12/5/2012 17:31 65.8	18/5/2012 12:31 64.0	24/5/2012 7:31 63.5	28/4/2012 10:01 64.6
2/5/2012 16:01 69.2	8/5/2012 11:01 64.9	12/5/2012 18:01 63.9	18/5/2012 13:01 64.3	24/5/2012 8:01 64.7	28/4/2012 10:06 64.7
2/5/2012 16:31 67.9	8/5/2012 11:31 63.8	12/5/2012 18:31 64.2	18/5/2012 13:31 68.2	24/5/2012 8:31 67.1	28/4/2012 10:11 64.7
2/5/2012 17:01 68.9	8/5/2012 12:01 65.3	14/5/2012 7:01 64.2	18/5/2012 14:01 74.9	24/5/2012 9:01 67.1	28/4/2012 10:16 64.8
2/5/2012 17:31 66.8	8/5/2012 12:31 63.4	14/5/2012 7:31 65.6	18/5/2012 14:31 70.2	24/5/2012 9:31 68.0 24/5/2012 10:01 68.3	28/4/2012 10:21 65.0
2/5/2012 18:01 68.7 2/5/2012 18:31 68.2	8/5/2012 13:31 63.9	14/5/2012 8:01 64.9 14/5/2012 8:31 66.4	18/5/2012 15:01 70.2 18/5/2012 15:31 69.1	24/5/2012 10:31 70.9	28/4/2012 10:26 66.2 28/4/2012 10:31 65.0
3/5/2012 7:01 62.4	8/5/2012 14:01 64.0	14/5/2012 9:01 64.8	18/5/2012 16:01 65.3	24/5/2012 11:01 69.3	28/4/2012 10:36 64.9
3/5/2012 7:31 63.4	8/5/2012 14:31 64.9	14/5/2012 9:31 63.7	18/5/2012 16:31 66.2	24/5/2012 11:31 68.4	28/4/2012 10:41 64.7
3/5/2012 8:01 64.2	8/5/2012 15:01 63.6	14/5/2012 10:01 64.6	18/5/2012 17:01 67.0	24/5/2012 12:01 64.2	28/4/2012 10:46 64.9
3/5/2012 8:31 65.8	8/5/2012 15:31 64.0	14/5/2012 10:31 64.0	18/5/2012 17:31 65.5	24/5/2012 12:31 62.9	28/4/2012 10:51 65.4
3/5/2012 9:01 66.1	8/5/2012 16:01 65.1	14/5/2012 11:01 69.5	18/5/2012 18:01 64.2	24/5/2012 13:01 65.6	28/4/2012 10:56 64.0
3/5/2012 9:31 66.8	8/5/2012 16:31 64.6	14/5/2012 11:31 67.8	18/5/2012 18:31 64.5	24/5/2012 13:31 69.9	28/4/2012 11:01 64.3
3/5/2012 10:01 66.8	8/5/2012 17:01 66.2	14/5/2012 12:01 63.0	19/5/2012 7:01 63.3	24/5/2012 14:01 72.5	28/4/2012 11:06 64.3
3/5/2012 10:31 66.2	8/5/2012 17:31 66.3	14/5/2012 12:31 62.2	19/5/2012 7:31 64.0	24/5/2012 14:31 70.0	28/4/2012 11:11 64.9
3/5/2012 11:01 70.0	8/5/2012 18:01 63.9	14/5/2012 13:01 62.1	19/5/2012 8:01 64.4	24/5/2012 15:01 67.7	28/4/2012 11:16 64.8
3/5/2012 11:31 68.6	8/5/2012 18:31 64.4	14/5/2012 13:31 68.9	19/5/2012 8:31 66.0	24/5/2012 15:31 69.2	28/4/2012 11:21 64.1
3/5/2012 12:01 63.9	9/5/2012 7:01 65.0	14/5/2012 14:01 71.2	19/5/2012 9:01 66.3	24/5/2012 16:01 68.0	28/4/2012 11:26 63.3
3/5/2012 12:31 62.2	9/5/2012 7:31 65.6	14/5/2012 14:31 65.1	19/5/2012 9:31 66.4	24/5/2012 16:31 68.8	28/4/2012 11:31 64.9
3/5/2012 13:01 66.5	9/5/2012 8:01 66.0	14/5/2012 15:01 71.9	19/5/2012 10:01 66.4	24/5/2012 17:01 67.9	28/4/2012 11:36 64.1
3/5/2012 13:31 66.7	9/5/2012 8:31 64.8	14/5/2012 15:31 67.6	19/5/2012 10:31 67.0	24/5/2012 17:31 67.1	28/4/2012 11:41 63.9
3/5/2012 14:01 67.0	9/5/2012 9:01 67.3	14/5/2012 16:01 63.5	19/5/2012 11:01 66.8	24/5/2012 18:01 67.4	28/4/2012 11:46 63.6
3/5/2012 14:31 66.9	9/5/2012 9:31 68.1	14/5/2012 16:31 66.3	19/5/2012 11:31 66.7	24/5/2012 18:31 67.1	28/4/2012 11:51 64.5
3/5/2012 15:01 67.8	9/5/2012 10:01 69.5	14/5/2012 17:01 68.2	19/5/2012 12:01 63.9	25/5/2012 7:01 65.8	28/4/2012 11:56 64.2
3/5/2012 15:31 66.2	9/5/2012 10:31 70.7	14/5/2012 17:31 65.5	19/5/2012 12:31 63.7	25/5/2012 7:31 64.4	28/4/2012 12:01 63.4
3/5/2012 16:01 65.8	9/5/2012 11:01 68.7	14/5/2012 18:01 62.5	19/5/2012 13:01 70.2	25/5/2012 8:01 64.8	28/4/2012 12:06 63.1
3/5/2012 16:31 66.2	9/5/2012 11:31 69.1	14/5/2012 18:31 62.9	19/5/2012 13:31 72.2	25/5/2012 8:31 66.5	28/4/2012 12:11 63.7
3/5/2012 17:01 65.9	9/5/2012 12:01 65.3	15/5/2012 7:01 62.7	19/5/2012 14:01 67.2	25/5/2012 9:01 66.8	28/4/2012 12:16 64.1
3/5/2012 17:31 65.0	9/5/2012 12:31 66.3	15/5/2012 7:31 62.1	19/5/2012 14:31 70.4	25/5/2012 9:31 66.8	28/4/2012 12:21 63.7
3/5/2012 18:01 64.7	9/5/2012 13:01 65.2	15/5/2012 8:01 63.0	19/5/2012 15:01 66.6	25/5/2012 10:01 67.9	28/4/2012 12:26 63.6
3/5/2012 18:31 63.1	9/5/2012 13:31 67.1	15/5/2012 8:31 64.1	19/5/2012 15:31 68.1	25/5/2012 10:31 68.4	28/4/2012 12:31 63.2
4/5/2012 7:01 64.4	9/5/2012 14:01 68.5	15/5/2012 9:01 65.6	19/5/2012 16:01 66.5	25/5/2012 11:01 68.3	28/4/2012 12:36 64.6
4/5/2012 7:31 65.3	9/5/2012 14:31 65.8	15/5/2012 9:31 65.5	19/5/2012 16:31 66.2	25/5/2012 11:31 67.9	28/4/2012 12:41 64.0
4/5/2012 8:01 63.4	9/5/2012 15:01 65.9	15/5/2012 10:01 66.4	19/5/2012 17:01 67.5	25/5/2012 12:01 65.2	28/4/2012 12:46 62.8
4/5/2012 8:31 64.0	9/5/2012 15:31 67.9	15/5/2012 10:31 67.0	19/5/2012 17:31 67.0	25/5/2012 12:31 64.8	28/4/2012 12:51 62.8
4/5/2012 9:01 64.4	9/5/2012 16:01 64.4	15/5/2012 11:01 67.5	19/5/2012 18:01 66.5	25/5/2012 13:01 67.1	28/4/2012 12:56 62.7
4/5/2012 9:31 65.7	9/5/2012 16:31 68.1	15/5/2012 11:31 66.8	19/5/2012 18:31 64.5	25/5/2012 13:31 69.8	28/4/2012 13:01 63.0
4/5/2012 10:01 66.8	9/5/2012 17:01 69.1	15/5/2012 12:01 63.9	21/5/2012 7:01 63.0	25/5/2012 14:01 71.8	28/4/2012 13:06 63.1
4/5/2012 10:31 66.0	9/5/2012 17:31 64.9	15/5/2012 12:31 64.1	21/5/2012 7:31 64.5	25/5/2012 14:31 69.9	28/4/2012 13:11 63.5
4/5/2012 11:01 66.8	9/5/2012 18:01 65.3	15/5/2012 13:01 64.0	21/5/2012 8:01 65.5	25/5/2012 15:01 68.7	28/4/2012 13:16 64.2
4/5/2012 11:31 66.9	9/5/2012 18:31 62.4	15/5/2012 13:31 66.9	21/5/2012 8:31 67.3	25/5/2012 15:31 68.8	28/4/2012 13:21 64.4
4/5/2012 12:01 65.7	10/5/2012 7:01 63.1	15/5/2012 14:01 68.2	21/5/2012 9:01 68.2	25/5/2012 16:01 67.3	28/4/2012 13:26 65.2
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Real-time Noise Data RTI	N2 (Oil Street Community Liaison	Centre)			
Normal Day 07:00-19:00	5/5/2012 13:31 64.9	11/5/2012 8:31 64.9	16/5/2012 15:31 65.9	22/5/2012 10:31 71.5	26/5/2012 17:31 68.1
30/4/2012 7:01 63.9	5/5/2012 14:01 66.0	11/5/2012 9:01 64.8	16/5/2012 16:01 66.4	22/5/2012 11:01 71.8	26/5/2012 18:01 64.8
30/4/2012 7:31 64.8	5/5/2012 14:31 66.8	11/5/2012 9:31 66.2	16/5/2012 16:31 66.2	22/5/2012 11:31 71.1	26/5/2012 18:31 72.9
30/4/2012 8:01 67.1	5/5/2012 15:01 64.6	11/5/2012 10:01 65.1	16/5/2012 17:01 67.4	22/5/2012 12:01 69.1	Normal Day 19:00-23:00,
30/4/2012 8:31 68.4	5/5/2012 15:31 62.8	11/5/2012 10:31 65.8	16/5/2012 17:31 67.6	22/5/2012 12:31 70.2	
30/4/2012 9:01 68.6	5/5/2012 16:01 63.3	11/5/2012 11:01 64.8	16/5/2012 18:01 66.3	22/5/2012 13:01 70.1	Sunday & Holiday 07:00-23:00
30/4/2012 9:31 67.4	5/5/2012 16:31 64.4	11/5/2012 11:31 65.0	17/5/2012 7:01 63.6	22/5/2012 13:31 67.1	28/4/2012 7:01 63.4
30/4/2012 10:01 67.0	5/5/2012 17:01 66.0	11/5/2012 12:01 62.8		22/5/2012 14:01 71.3	28/4/2012 7:06 62.4
30/4/2012 10:31 67.6	5/5/2012 17:31 69.8	11/5/2012 12:31 61.5	17/5/2012 7:31 63.9	22/5/2012 14:31 66.2	28/4/2012 7:11 63.0
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30/4/2012 12:01 63.5	7/5/2012 7:01 63.0	11/5/2012 14:01 63.1	17/5/2012 9:01 67.5	22/5/2012 16:01 67.9	28/4/2012 7:26 63.0
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30/4/2012 13:01 70.6	7/5/2012 8:01 65.1	11/5/2012 15:01 62.9	17/5/2012 10:01 66.8	22/5/2012 17:01 68.2	28/4/2012 7:36 62.5
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Real-time Noise	Doto DTN	2 (Oil Street Comr	nunitu Lininon (Contro)							
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7/5/2012 23:46	60.3	9/5/2012 0:56	56.7	10/5/2012 2:06	59.3	11/5/2012 3:16	54.1	12/5/2012 4:26	57.6	13/5/2012 5:36	61.1
7/5/2012 23:51	62.2	9/5/2012 1:01	57.6	10/5/2012 2:11	60.1	11/5/2012 3:21	54.8	12/5/2012 4:31	58.0	13/5/2012 5:41	61.5
7/5/2012 23:56	62.0	9/5/2012 1:06	57.4	10/5/2012 2:16	59.8	11/5/2012 3:26	54.5	12/5/2012 4:36	57.0	13/5/2012 5:46	61.8
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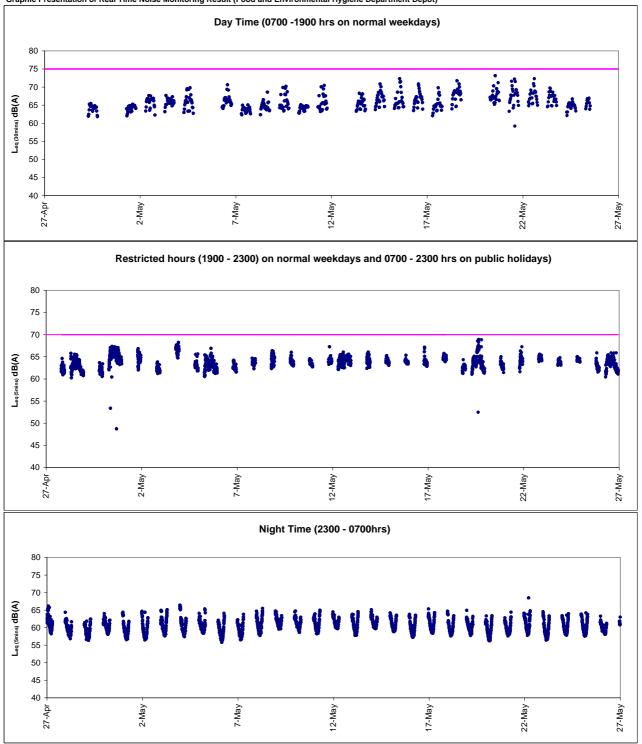
Real-time Noise Data	TN2 (Oil Street Community Liais	on Centre)			
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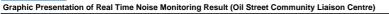
Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

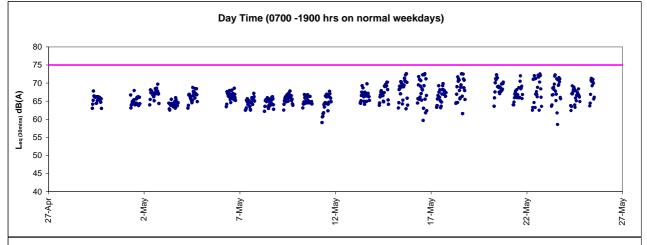




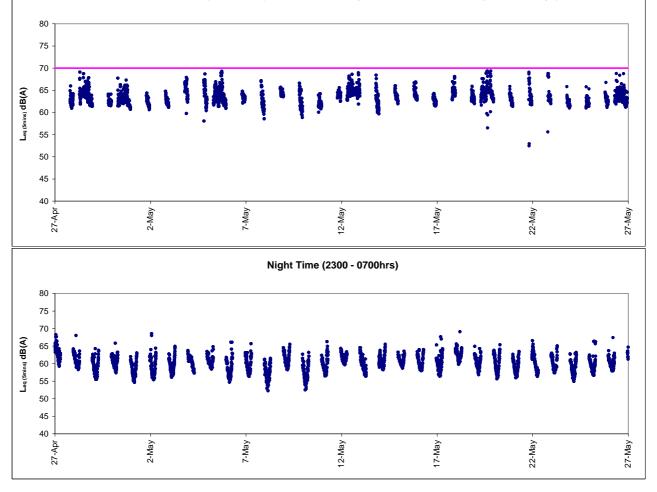


Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)





Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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



Event / Action Plan for Construction Air Quality

EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. 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. 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; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	 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; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event and Action Plan for Marine Water Quality

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



EVENT		ACTION		
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	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. 	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 	
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. 	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris. 	



Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tidal	Location	Parameters (Avg.)	Measured	Action Level	Limit Level	Follow-up	
X_W320	9-May-12	Mid-flood	WSD21	DO (mg/L)	6.33	3.17	2.63	Possible reason:	Possible inrelation to cleaning of screen panels at SHK and Wan Chai WSD Pumping Station was recorded on 9 May 2012.
				Turbidity	7.83	10.01	11.54	Action taken / to be taken:	Checking with contractor's works on 9 May, the marine works below were undertaken: - Formwork erection and reinforcement fixing inside water tanks in Reprovisioned Wan Chai Ferry Pier - Cleaning of screen panels at SHK and Wan Chai WSD Pumping station at around 18:00pm - Filling Gap at 'Well A' and welding decking on 'Well C' for SHK and Wan Chai WSD Pumping station Reviewing the results at the monitoring stations nearer than WSD 21, no exceedance was recorded. Checking with the contractor's inspection record, the silt screen and silt curtain were in proper condition on 9 May.
				Suspended Solid	42.50	16.26	19.74	Remarks / Other Obs:	The exceedances was possibly due to cleaning of screen panels at the pumping station. Materials from the cleaning of screen panels was unavoidably collected during monitoring. No further exceedance was recorded in the next consecutive monitoring. The exceedance was considered as not project related.
X_W321	9-May-12	Mid-Ebb	WSD21	DO (mg/L)	6.20	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.29	10.01		Action taken / to be taken:	Checking with contractor's works on 9 May, the marine works below were undertaken: - Formwork erection and reinforcement fixing inside water tanks in Reprovisioned Wan Chai Ferry Pier - Filling Gap at 'Well A' and welding decking on 'Well C' for SHK and Wan Chai WSD Pumping station Reviewing the results at the monitoring stations nearer than WSD 21, no exceedance was recorded. Checking with the contractor's inspection record, the silt screen and silt curtain were in proper condition on 9 May.
				Suspended Solid	33.50	16.26	19.74	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 exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level Follow-up action	
X_10C386	30-Apr-12	Mid- Ebb	C5e	DO (mg/L)	4.92	3.02	2 2.44 Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	4.69	11.35	5 12.71 Action taken / to be taken:	Checking the works conducted near the monitoring station, there were marine activites conducted on 30 Apr below undertaken:
								 Formwork erection and reinforcement fixing inside water tanks in Reprovisioned Wan Chai Ferry Pier Installation of steel pipe and plate for reclamation at WCR-2.
								Reviewing the results at the monitoring stations nearer than C5e, no exceedance was recorded. Checking with the contractor's inspection record, the silt screen and silt curtain were in proper condition on 30 April.
				Suspended Solid	32.00	18.42	2 27.54 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 exceedance was considered not project related.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D37	17-May-12	Mid- Flood	C7	Middle	DO (mg/L)	3.17			Possible reason: Action taken / to be taken:	Possible in relation to the low flow near the intake Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were marine activities conducted on 17 May 2012 below: - Barge mooring at TS1 - Dredging at TS2
									Remarks / Other Obs:	Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 15 May 2012. In view that there was no odour was detected during monitoring, it was considered not related to Project works.
X_10D38	19-May-12	Mid- Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.42	3.55	3	Possible reason: Action taken / to be taken: Remarks / Other Obs:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: -Barge tugging at TCWAE and ME4 - Dredging at TS2 Checking with the Contractor's daily records, silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 15 May 2012. In view that there was no odour was detected during monitoring, it was considered
X_10D39	21-May-12	Mid- Ebb	<u>C6</u>	Middle	DO (mg/L)	2.47	2.6	2	Possible reason: Action taken / to be taken: Remarks / Other Obs:	not related to Project works. Possible in relation to the low flow and low water depth Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: - Barge mooring at TS1 and ME4 - Dredging at TS2 Checking with the Contractor's dredging daily record, silt curtain at TS4 and silt screen at C6 were in proper condition in their daily inspection. In addition, the silt curtain was also observed in proper condition during site inspection on 25 May 2012. In view that there was no odour was detected during monitoring, it was considered
X_10D40	21-May-12	Mid- Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.34	3.55	3	Possible reason: Action taken / to be taken: Remarks / Other Obs:	not related to Project works. Possible in relation to the low flow and low water depth during ebb tide Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there was conducted below marine works on that day: -Barge tugging at TCWAE -Dredging at TS2 Checking with the Contractor's daily records, silt curtain at TS4 was in proper condition in their daily inspection. The silt curtain was also observed in proper condition during site inspection on 25 May 2012. In view that there was no odour was detected during monitoring, it was considered not related to Project works.

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



Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
<u>X_10N090</u>	<u>30-Apr-12</u>	<u>11:05</u>	<u>M6 - HK baptist</u> Church henrietta Secondary School	<u>72</u>	<u>Leq(30-min)</u>	when one documented <u>complaint</u> was received	<u>70</u>	Possible reason:	No construction activity and traffic nearby was observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken: Remarks / Other Obs:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station. No construction work for Contract no. HY/2009/19 was conducted during the measurement; it is concluded that the exceedance was not due to the Project but to traffic noise nearby.
<u>X 10N092</u>	<u>16-May-12</u>	<u>15:37</u>	M6 - HK baptist Church henrietta Secondary School	71	<u>Leq(30-min)</u>	when one documented complaint was received	<u>70</u>	<u>Possible reason:</u>	No construction activity and traffic nearby was observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
								Action taken / to be taken: Remarks / Other Obs:	Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station. No construction work for Contract no. HY/2009/19 was conducted during the measurement; it is concluded that the exceedance was not due to the Project but to traffic noise nearby.



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	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown		from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



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) 2)	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	Closed	
					3)	from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. No further complaints were received in the reporting		
					-,	month. The complaint is considered closed.		
100731	31/7/2010	by ICC (CC Case:	Oil Street to Watson Road	due to the dredging works.	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed	
		1-250702681)	1-250702681)	1)	operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
						3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.	
					4)	It is considered as invalid from the EP and CNP point of view.		
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine	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.		
						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	Ou	tcome	Status
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1) 2)	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. 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.	Closed
					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 spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. 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 crock 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.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 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. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 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 The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)		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.	2)	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.	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	.,	It is considered as invalid complaint under this Project. 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. 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.	Closed
					5)	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. 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	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	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
					4)	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	come	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687		She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	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.	
				Saturday, Sunday and public holiday.	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)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1- 304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	1) 2)	It was referred by AECOM to ET on 8 August 2011 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	2)	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	Ou	tcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC	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	2)	With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	
	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.	
					Re	marks: 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	1)	It was referred by AECOM to ET on 17 August 2011.	Closed
		no. 1 – 306740207		from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2)	Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	
					3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	Wan Chai	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.	
					3)	The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	 It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the construction works were referred to the Contractors HY/2009/11 and HY/2009/19. The pump is located on the site area of HY/2009/19 A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall. 	Closed



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.	
						 Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 	
						 In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed 	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) 2)	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. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken 	
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.	 by the Contractor. 1) ET confirmed with the Resident Site Staff that A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area. 	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	 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



Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				was also raised out by RSS at about 7:00 same day. Besides, it was confirmed that there	a.m on the e is no valid
				HK/2009/01 and their Korean Sub-contractor, I Sub-contractor had not notified to Contractor b carrying out the inspection of the BC cutter, ho bentonite pipes at about 6:00a.m to ensure no	Korean efore ists and damages
				between Contractor and sub-contractor and pr sufficient environmental training to all foreman operators on restricted hour operation. Futhern Construction Noise Permit should be checked	ovide and nore, and in
				conducted construction works during restricted without valid Construction Noise Permit. No mo construction works were conducted during nigh period. The construction works will be conduct accordance with the time period stated in valid complaint will be kept in view of any follow-up a	hours ore at time ed in CNP. This
05/04/2012	N/A	North Point	noise from construction sites of CBTS was observed daily before	 RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff th works were performed during the concerned performed during the concerned performed during the concerned performed and the noise level was below 75dB(A). Site in HY/2009/15 was conducted on 10 April 2 condition of noise mitigation measures around found satisfactory. RSS confirmed that no performed during the concerned period. The included drilling, diaphragm wall constr excavations. HyD made a reply to the complainant on 16 A 	eriod. g (M2b and ytime period ispection for 2012. The d CBTS was pilings were major works uction and pril 2012 via CBTS were
	Complaint	Complaint and Received By	Complaint and Received By Complainant	Complaint and Received By Complainant 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.	Complaint and Received By Complainant CNP was checked by the police officer. CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that was also raised out by RSS at about 7:00, same day. Besides, it was confirmed that there Construction Noise Permit for the conducted or works in the period between 2300 and 0700. 3) Due to insufficient communication between Construction Noise Permit for the conducted or works in the period between 2300 and 0700. 4) Due to insufficient communication between Construction Noise Permit thou the Contractor between 2300 and 0700. 5) Due to insufficient communication between Construction Noise Permit thou the Contractor and prosition. 4) Contractor was advised to enhance the communication between Construction works during restricted nour operators on restricted hour operation. Furthern Construction works during restricted place for the construction works during restricted part was considered in relation to the conduct accordance with the time period stated in valid complaint regarding excessive in construction works were conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was conducted during nigregridue was accordance with the line period state in valid complaint regarding excessive in the line period state in valid conducted construction works were conducted during nigregridue was accordance with the Resident Site Staff the construction works science permit. North Point A complaint regarding exces



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	



Appendix 8.1

Construction Programme of Individual Contracts

eclamation in	NPR3 ver.9.5 2011_11_21	Executive	Summary		Data Date: 2	1-Nov-11				
tivity ID	Activity Name		Remaining		Finish	Total		2011		
		Duration	Duration			Float	Sep O	oct N	Nov	De
Reclam	nation in NPR3 ver.9.5 2011_11_21	115	23	21-Jul-11 A	19-Dec-11	-39				
Landsid	de	115	23	05-Aug-11 A	19-Dec-11	-39			-	
Installat	ion Seawall Blocks to B6 and B7	55	0	13-Aug-11 A	18-Oct-11 A	_		▼		
Constru	ct the Concrete Coping at B6 and B7	82	0	13-Aug-11 A	07-Nov-11 A					
Laying C	Geotextile & Filter Material	86	0	05-Aug-11 A	14-Nov-11 A		1	·	▼	1
Constru	ict Open Channel U under IEC	33	0	23-Sep-11 A	30-Oct-11 A					
Constru	ct Open Channel U outside IEC	32	20	30-Sep-11 A	15-Dec-11	-36				
Constru	ict the Drainage Pipeline at West of Open Channel U	34	0	30-Sep-11 A	31-Oct-11 A			—		
Constru	Ict the Drainage Pipeline at East of Open Channel U	28	17	01-Nov-11 A	15-Dec-11	-31		-	-	
Unloadii	ng Sorted Public Fill behind new seawall	53	0	15-Aug-11 A	20-Nov-11 A		1	·	-	j.
Reclama	ation	98	23	13-Aug-11 A	19-Dec-11	-39		·	_	
Seaside	e	100	23	21-Jul-11 A	19-Dec-11	-39			-	
Constru	uction of Outlet Pipe from City Garden	54	20	12-Oct-11 A	19-Dec-11	-34	•		-	
Constru	uction of B8	13	13	15-Nov-11 A	09-Dec-11	-31				

Contract No. HK/2009/01

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

Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH	2010	2011	2012	2013
ACTIVITY	START	FINISH	FebMalApiMaJunJul Au SepOctNo De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb Ma Api Ma Jun Jul Au Sep Oct No De	Jan Feb MarApi Ma Jun Jul Au; Sep Oct No De
Submissions before Works Commencement						
Submit silt curtain deployment plan	31/3/10	31/3/10	•			
Submit silt screen deployment plan	31/3/10	31/3/10	•			
Submit measures to mitigate noise impact	31/3/10	31/3/10	•			
Cross Harbour Watermains from WCN to TST (DP6)						
Trench dredging for marine watermains installation	29/4/10	28/10/10				
Backfilling for watermain	28/1/11	14/12/11				
Reclamation Works at HKCEC Water Channel (DP3)						
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10				
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11				
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11				
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11				
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12				
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13				

K/2009/02-Marine & Reclamation Works	Duration	Start	2010	2011 2012 2	013 2014 2015
	2008 d	Thu 28/1/10	04 01 02 03 04 01 0	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2	2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
Contract Commencement	0 d	Thu 28/1/10	•		
General	1879 d	Mon 22/2/10			
Submission & obtain approval for marine GI	21 d	Mon 22/2/10			
Stage 1 Marine GI for reclamation					
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Construction of Permanent Seawall Blocks for curved coastline					
	Stage 1 Marine GI for reclamation Engineer's Design review for Dredging of WCR1, WCR2 & WCR4 Relocation of New Star Ferry Pier Demolition of Existing Star Ferry Pier Stage 2 Marine GI for Reclamation Engineer's Design review for Dredging of WCR3 Complete Diversion of Hung Hing Road Traffic Back to Original Excavate & remove top of d-wall for permanet seawall construction Submarine Outfall Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea Phase 1 - WCR1 Mobilization of plants Seabed dredging Bedding Filling and Permanent seawall (precast cassion) Bulk reclamation Phase 2 - WCR2 Mobilization of plants Temp seawall and Seabed dredging Bulk reclamation Phase 3 - TWCR4 & WCR4 Mobilization of plants Temp Seawall and Seabed dredging Bulk temp reclamation Phase 4 - WCR3 Mobilization of plants Seabed dredging for Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phase 5 - Construct Permanent Seawall Backfill and permanent seawall (precast cassion) Bulk reclamation Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dRelocation of New Star Ferry Pier0 dDemolition of Existing Star Ferry Pier100 dStage 2, Marine GI for Reclamation14 dEngineer's Design review for Dredging of WCR321 dComplete Diversion of Hung Hing Road Traffic Back to Original20 dExcavate & remove top of d-wall for permanet seawall construction50 dSubmarine Outfall500 dDredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dPhase 1 - WCR1158 dMobilization of plants1 dSeabed dredging63 dBedding Filling and Permanent seawall (precast cassion)60 dBulk reclamation37 dPhase 2 - WCR2149 dMobilization of plants1 dTemp seawall and Seabed dredging77 dBulk reclamation73 dPhase 3 - TWCR4 & WCR498 dMobilization of plants1 dTemp Seawall and Seabed dredging75 dBulk & temp reclamation24 dPhase 4 - WCR3294 dMobilization of plants1 dSeabed dredging for Permanent Seawall12 dSeabed dredging for Permanent Seawall12 dPhase 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4105 dMobilization of plants1 dDredging and Filling for permanent Seawall Blocks for curved coastline50 d	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier10 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Tue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)60 dTue 22/6/10Buk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Buk reclamation73 dWed 16/5/12Phase 3 - TWCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Seabed dredging for Permanent Seawall75 dSat 28/4/12Buk k temp reclamation24 dWed 11/7/12Phase 4 - WCR310 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Backfill and permanent Seawall102 dTue 18/3/14Mobilization of p	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Demolition of Existing Star Ferry Pier100 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Seabed dredging63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR2149 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Bulk reclamation77 dThu 1/3/12Phase 3 - WCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dSat 28/4/12Temp Seawall and Seabed dredging75 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 8/3/14Bulk reclamation108 dTue 8/3/14Phase 4 - WCR3294 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Mobilization of plants1 dTue 8/3/14Bulk terclamation108 dTue 8/3/14Phase 5 - Construct Perm	Engineer's Design review for Dredging of WCR1, WCR2 & WCR430 dMon 22/3/10Relocation of New Star Ferry Pier0 dTue 18/3/14Stage 2 Marine GI for Reclamation14 dTue 18/3/14Engineer's Design review for Dredging of WCR321 dTue 25/3/14Complete Diversion of Hung Hing Road Traffic Back to Original20 dFri 6/2/15Excavate & remove top of d-wall for permanet seawall construction50 dWed 25/2/15Submarine Outfall500 dTue 21/9/10Dredging, Laving and Backfilling of Submarine Outfall Pipe at Sea500 dTue 21/9/10Phase 1 - WCR1158 dWed 21/4/10Mobilization of plants1 dWed 21/4/10Bedding Filling and Permanent seawall (precast cassion)63 dWed 21/4/10Bulk reclamation37 dFri 20/8/10Phase 2 - WCR21 dThu 1/3/12Mobilization of plants1 dThu 1/3/12Temp seawall and Seabed dredging77 dThu 1/3/12Bulk reclamation75 dSat 28/4/12Phase 3 - TWCR4 & WCR498 dSat 28/4/12Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Mobilization of plants1 dSat 28/4/12Phase 4 - WCR3294 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Bulk reclamation75 dSat 28/4/12Phase 4 - WCR310 dTue 18/3/14Mobilization of plants1 dTue 18/3/14Seabed dredging for

Activity	Cal		Orig	Early	Early	2010 2011	204.2	2010			1	
ID	ID	Description	Dur	Start	Finish	2010 2011	2012	2013	2014	2015	2016	2017
CBRIE (T												
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11	TCBR1E(TS1)-dredging+rock	fill(prep. for sea	awall)			
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11	TCBR1E (TS1)-temporary reclamation						
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12							
BR4						201						
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10	Maintenance dree	dging for naviga	tion safety for r	elocation of RHM	(YC mooring a	t Area B	
		TS2 Area)										
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10	ITCBR2&TCBR3(T	S2)- Maintenan	e dredging for	navigation safety	at Area A for	relocation of com	nercial ves
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12		TCBR2&TCB	R3(TS2)-dredge-	+rockfill seabed	(preparation fo	or seawall)	
120	1	TCBR2&TCBR3(TS2)temporary reclamation	115	26FEB12*	19JUN12				emporary reclam			
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	130CT13						porary reclamation	1
BR1W (1	S4 Are	a)										
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11	TCBR1W(TS4)	-dredging+rock	ill(prep. for sea	wall)			
130	1	TCBR1W(TS4) temporary reclamation	68	28JAN11	05APR11	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)						
165	1	TCBR1W(TS4)removal temporary reclamation	26	270CT13*	21NOV13	TCBR1W(TS4)temporary reclamation						
CWAE											., ····	
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11	TPCWAE-dredg	ging+rockfill(pr	ep. for seawall)				
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	TPCWAEtemporary reclamation						
170	1	TPCWAEremoval temporary reclamation	28	28SEP13*	250CT13							
CWAW					nx				- The Tennerta	temperary ree	ATTRACTOR 1	
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	280CT13*	13DEC13				TPCWAW-dredgi	na+rockfill(pre	n for seawall)	
150	1	TPCWAWtemporary reclamation	83	14DEC13	06MAR14	-			TPCWAWte			
175	1	TPCWAWremoval temporary reclamation		02JUL15*	20AUG15	-	TP		I temporary recla		manon	
		EP02 Progress Bar		CONT	RACT NO. HY/	RUCTION ENGG LTD 2009/15: CENTRAL		· · · · · · · · · · · · · · · · · · ·	based on IWP Rev. (pared: 28 Oct 2010)		
		Critical Activity		WAN CHA	I BYPASS- TU	NNEL (CBTS SECTIO	N)					

Act ID	Description	Orig Early Dur Start	Early Finish	JAN FEB I	MAR APR	MAY JUN	2011 JUL AUG	SEP	OCT N	OV DEC	JAN	FEB MAR	APR	MAY	201 JUN	12 JUL	AUG	SEP	ост	NOV	DEC	JAN	2013 FEB MAR F
Section I																							
Contract C	bligation																						
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1000	Commencement of Section I of works	0 20JAN11 *	•	Commerice	ment of Sectio	on I of works				+++++		+++++++++++++++++++++++++++++++++++++++				1 1 1 1							+++++++++++++++++++++++++++++++++++++++
	KS																						
1050	Apply Marine notice to Marine Department	30 21JAN11	19FEB11	Арр	ly Marine notic	e to Marine E	Department (dre	edg)															
1060	Apply Marine notice to Marine Dept. Piling	30 18FEB11	19MAR11		🗖 Apply Marin	ne notice to N	larine Dept. Pil	ing															
1080	Apply FEP under EP356/2009	21 28FEB11	20MAR11	1	Apply FEP	under EP356	/2009																
1081	Submission of Works Schedule for FEP	14 05MAR11	21MAR11		💻 Submissior	n of Works Sch	nedule for FEP																
1082	Submission of Location Plan for FEP	14 05MAR11	21MAR11	- 1	Submission		ロビビントレントン														<u></u>		
1083	Submission of Silt Curtain Deployment	14 05MAR11	21MAR11				in Deployment																
1084	Submission of Silt Screen Deployment Plan	14 05MAR11	21MAR11				n Deployment	Plan															
1085	Submission Noise Management Plan	14 05MAR11	21MAR11		Submission Apply Dum		gement Plan																
1090	Apply Dumping Permit	30 18FEB11	19MAR11 01MAR11		pply CNP											1111							
1100	Apply CNP Apply C&D waste disposal	30 31JAN11 30 20JAN11	18FEB11		ly C&D waste d	isposal		+++++++++++++++++++++++++++++++++++++++		-+++++				+ +			+ + + +						
1110	Apply C&D waste disposal Apply Discharge licence	30 20JAN11 30 18FEB11	18FEB11 19MAR11		Apply Disch																		
1130	Notification of chemical waste Producer	30 20JAN11	18FEB11		fication of cher		roducer																
1140	Notification to Labor Dept-Works	30 20JAN11	18FEB11			and a share of a	Commenceme	nt															
1150	Submit Risk Ass to MTR	21 28FEB11	20MAR11	1 🗄 🗄 🗄	🔲 Submit Ris	k Ass to MTR																	
1260	Erect Hoarding	30 28FEB11	29MAR11	ti i chi chi bi	Erect Ho	arding		i i i i i i i		- † † † † † † †	tiiii		+ † † † † -	11111			+ + + + + + + + + + + + + + + + + + +	; ; ; ; ; -	1-1-11		† † † † † 	1111	
1270	Demarcation of Marine Site Boundary	21 01MAR11	21MAR11	1 +	💻 Demarcatio	on of Marine S	Site Boundary																
1280	Working Site Office establishment	14 27JAN11	09FEB11	🔲 Workin	g Site Office e	stablishment																	
Monitoring	1																						
						monitoring sys	rtom from C1																
1160 1180	Takeover monitoring system from C1 Commence Monitoring- ADMS.etc	0 21MAR11 0 21MAR11	-		i i she she she	e Monitoring-	de el el el el el el éta de la compañía de la comp																
Dredging	•	0 21MARTI																					
Dicuging	TORS																						
1070	Submit Dredging MS	30 18FEB11	19MAR11		Submit Dre	dging MS																	
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1078	Initial Hydrographic Survey	1 20MAR11	20MAR11			ographic Surv																	
1200	Initial Dredging Works for Piling	15 22MAR11	05APR11		💻 Initial 🛙	Dredging Worl	ks for Piling																
1210	Final Hydrographic survey	3 07MAY12			·			+					++++-	Final I							++++		
1220	Final Dredging Works	7 10MAY12												Fina	I Dredg	ing Wor		tion Hydi					
1230	Confirmation Hydrographic survey	70 17MAY12	25JUL12												+ + + +		Jiiiiiia		lographin	c survey			
Piling Wor	N3																						
1240	Submit stage platform MS	30 10FEB11	11MAR11		Submit stage	platform MS																	
1250	Submit piling MS	30 10FEB11	11MAR11		Submit piling	MS																	
P1000	Erect temporary Piling Platform	120 06APR11	03AUG11				Erec	t tempora	ry Piling Pl	atform													
P1020	Pre-drilling	150 06JUN11	02NOV11						P	e-drilling													
P1040	Bored Piles Construction and Testing	250 06JUL11	11MAR12		· - + + + + + + + + + + + + + + + + + +		+	+++++++++++++++++++++++++++++++++++++++			<u> </u>	and and any local law law law law	the second second	Construct	and and the large large	- ter ter ter af		; ; ; ; ; ;			i i i i i i	+ +	
P1060	Drive Sheet piles along Bored piles	140 03NOV11	21MAR12										1 1 1 1	et piles a									
P1080	Dismantle Temporary Piling Platform	50 25FEB12 90 17JAN12	14APR12											mantle Te									
P1100 P1120	Dive sheet piles beyond precast seawall Trim pilehead to cut-off level	90 17JAN12 210 29SEP11	15APR12 25APR12										<u>tii</u> .	Trim pile	1111								
P1140	Cut steel casing of bore piles	210 293EF11 210 06OCT11	02MAY12										li i i i	Cut stee	and the latest sector of the s	a contra da							
P1160	Cut sheet piles to design level for box units	120 08JAN12	06MAY12															for box	units		+++-		
Act			Early Finish																				ليتبتني
ID	Description	Orig Early Dur Start	Finish	JAN FEB I	MAR APR	MAY JUN	JUL AUG 2011	SEP	OCT N	OV DEC	JAN	FEB MAR	APR	MAY	JUN 201		AUG	SEP	OCT	NOV	DEC	JAN	FEB MAR F 2013
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ctivity ID	Activity Name	Rem Dur	Start	M	arch	2012 April				
		Dur			20 27 05 12		02 09 16 23			
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	ACT DATES									
01.1 - Conditio										
0110-1100	PMI for Section 1 of the Works	0		21-Mar-12		PMI for Sect	ion 1 of the Works			
	of Site Possession for each Portion									
0150-1000	Site possession Period Portion VI	2030	20-Jan-11 A	10-Oct-17						
0150-1100	Site Possession Period Portion VIIA	2030	04-Aug-11 A	10-Oct-17						
0150-1200	Site Possession Period Portion VIIB	732	04-Aug-11 A	22-Mar-14						
0150-1300	Site Possession Period Portion VIIC	1169	04-Aug-11 A	02-Jun-15						
0150-1400	Site Possession Period Portion VIID	732	04-Aug-11 A	22-Mar-14						
0150-1500	Site Possession Period Portion XI	622	05-Oct-11 A	03-Dec-13						
0150-1700	Site Possession Period Portion IB	732	10-Nov-11 A	22-Mar-14						
0150-1800	Site Possession Period Portion IC	1169	10-Nov-11 A	02-Jun-15						
0150-1900	Site Possession Period Portion ID	732	10-Nov-11 A	22-Mar-14						
0150-2000	Site Possession Period Portion X	2030	10-Nov-11 A	10-Oct-17						
0150-2100	Site Possession Period Portion III	2030	31-Dec-11 A	10-Oct-17						
0150-2200	Site Possession Period Portion VA	2030	31-Dec-11 A	10-Oct-17	-					
0150-2300	Site Possession Period Portion VB	976	31-Dec-11 A	21-Nov-14	-					
0150-2400	Site Possession Period Portion VC	2030	31-Dec-11 A	10-Oct-17	-					
0150-2500	Site Possession Period Portion VD	1233	31-Dec-11 A	05-Aug-15	-					
02 - PRE-CC	DNSTRUCTION WORKS									
02.2 - Contrac	stor's Submission									
0220-1250	Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	8	04-Aug-11 A	28-Mar-12		Co	ncrete Ready Mix/Design Mix - Concrete			
0220-1260	Drainage Pipes & Materials - Submission	7	15-Sep-11 A	27-Mar-12		Dra	nage Pipes & Materials - Submission			
0220-1270	Drainage Pipes & Materials - ER Review/Comment	14	28-Mar-12	10-Apr-12	-		Drainage Pipes & Mater			
0220-1280	Drainage Pipes & Materials - Resubmission	7	11-Apr-12	17-Apr-12			Drainage Pipe			
0220-1290	Drainage Pipes & Materials - ER Approval	14	18-Apr-12	01-May-12	-					
0220-1300	Drainage Pipes & Materials - Procurement & Delivery	14	25-Apr-12	08-May-12	-					
0220-1360	Tunnel Structures Materials - Submission	28	21-Mar-12	17-Apr-12	-		Tunnel Structu			
0220-1370	Tunnel Structures Materials - ER Review/Comment	28	18-Apr-12	15-May-12	-					
0220-1380	Tunnel Structures Materials - Resubmission	14	16-May-12	29-May-12			<u>+</u>			
0220-1390	Tunnel Structures Materials - ER Approval	21	30-May-12	19-Jun-12	-					
0220-1460	Bridge Bearing - Submission	15	10-Oct-11 A	04-Apr-12	-		Bridge Bearing - Submission			
0220-1470	Bridge Bearing - ER Review/Comment	28	05-Apr-12	02-May-12	-					
0220-1480	Bridge Bearing - Resubmission	14	03-May-12	16-May-12	-					
0220-1490	Bridge Bearing - ER Approval	28	17-May-12	13-Jun-12						
02.3 - Method	Statement / Shop Drawings		-							
0230-1131	MS Marine Piling - Submission (low headroom)	28	21-Mar-12	17-Apr-12			MS Marine Pil			
0230-1132	MS Marine Piling - ER Review & Comment (low headroom)	28	18-Apr-12	15-May-12	-					
0230-1133	MS Marine Piling - Resubmission (low headroom)	28	16-May-12	12-Jun-12	-					
0230-1260	MS Cut & Cover Tunnel - Submission	28	21-Mar-12	17-Apr-12			MS Cut & Cov			
0230-1270	MS Cut & Cover Tunnel - ER Review & Comment	28	18-Apr-12	15-May-12	-					
0230-1280	MS Cut & Cover Tunnel - Resubmission	28	16-May-12	12-Jun-12	-					
0230-1340	MS Pre-cast Segment Bridge - Submission	28	01-Apr-12	28-Apr-12	-					
0200 1010		20	01700112	207.0112						
Remaining Le	evel of Effort			Cont	ract HY/2009/19		3MRF			
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Actual Work		Three Mo	onth Rolli	ing Proar	amme (21 MAR 20	12 to 20 JU	N 2012) ^{3MR}			
Remaining W	lork			5 - 5	``		Pag			

	Remaining Work
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- Critical Remaining Work
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	🖕 Draina	age Pipes &	Materia	lls - ER Ap	proval			
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it & Cover	Tunnel -	Submission						
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3MRP	- MAR	2012 to JU	JN 20	12				
Page 1	of 7							

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0230-1350	MS Pre-cast Segment Bridge - ER Review & Comment	28	29-Apr-12	26-May-12							
0230-1360	MS Pre-cast Segment Bridge - Resubmission	28	27-May-12	23-Jun-12							
0230-1460	MS Stressing/Destressing Tendons - Submission	28	21-Mar-12	17-Apr-12						MS S	Stressing/De
0230-1470	MS Stressing/Destressing Tendons - ER Review & Comment	28	18-Apr-12	15-May-12							
0230-1480	MS Stressing/Destressing Tendons - Resubmission	28	16-May-12	12-Jun-12							
0230-1540	MS Precasting of Bridge Segment & Beam - Submission	18	14-Dec-11 A	07-Apr-12	_				MS Pre	casting of B	ridge Segm
0230-1550	MS Precasting of Bridge Segment & Beam - ER Review & Comment	28	08-Apr-12	05-May-12							
0230-1560	MS Precasting of Bridge Segment & Beam - Resubmission	36	06-May-12	10-Jun-12	_						
0230-1570	MS Precasting of Bridge Segment & Beam - ER Approval	28	11-Jun-12	08-Jul-12	_						
0230-1700	MS Temporary Bridge TA - Submission	28	03-Jun-12	30-Jun-12	-						
02.4 - Contracto	or's Design and Build Items										
0240-1010	Temp Bridge "TA" Design - Prep & Submit	60	16-Dec-11 A	19-May-12							
0240-1020	Temp Bridge "TA" Design - ER review and comment	28	20-May-12	16-Jun-12	_						
0240-1041	Temp Bridge "TD" Design - Prep & Submit	120	14-Apr-12	11-Aug-12	-						
0240-1090	Int. Noise Enclosure Design - Public Consultation	90	29-Jul-11 A	18-Jun-12	_						
0240-1095	Int. Noise Enclosure Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	09-Jun-12	_						
0240-1100	Int. Noise Enclosure Design - ER review & comment	28	10-Jun-12	07-Jul-12							
0240-1120	Noise Barrier Design - Public Consultation	90	29-Jul-11 A	18-Jun-12	_						
0240-1120	Noise Barrier Design - ACABAS/ER Consultation/Submission	81	16-Dec-11 A	09-Jun-12	_						
0240-1122	Noise Barrier Design - ER review & comment	28	10-Dec-11 A	03-Jul-12	-						
0240-1124	Perm. Noise Enclosure Design - Public Consultation	166	14-Feb-12 A	02-Sep-12	_						
	, , , , , , , , , , , , , , , , , , ,	100	14-1 60-12 A	02-36h-15							
	egment/Beam Off-site Precasting	10	14 Dec 11 A	00 May 10							
0250-1000	Propose, approve and set-up Factory for Pre-cast Unit	61	14-Dec-11 A	20-May-12	_					Goomotr	ria Docian (
0250-1100	Geometric Design of the Bridge Segments/Beams	26	14-Dec-11 A	15-Apr-12	_					Geometr	ric Design o
0250-1200	Bridge Segment/Beam Mould Preparation	24	15-Apr-12	09-May-12	_						
0250-1300	Trial Casting for Bridge Segment/Beam	18	09-May-12	27-May-12							
0250-1400	Preparation for Bridge Segment /Beam Production	30	27-May-12	26-Jun-12							
)3 - PRELIMI	NARY WORKS										
03.1 - Site Estab											
0310-1290	Fabrication of Special Hoarding	64	24-Oct-11 A	07-Jun-12							
0310-1300	Hoarding at Portion VA & VB	40	07-Jun-12	26-Jul-12*							
0310-1400	Move in Surcharge to Portion III & VD	6	21-Mar-12	27-Mar-12				Mo	ove in Surcharge to F	Portion III & V	√D
0310-1500	Surcharge kept on Site	90	28-Mar-12	25-Jun-12				-			
03.2 - Geotechn	ical Instrumentation & Monitoring Works										
0320-1100	Geotechnical Instrumentation Portion X	60	21-Mar-12	02-Jun-12							
03.3 - Interface \	Works										
0330-1100	Works at FEHD Permanent Depot (Stage 1)	36	21-Mar-12	05-May-12							
0330-1110	Submit to FEHD/ER Relocation Sequence & Programme	6	21-Mar-12	27-Mar-12				Su	ibmit to FEHD/ER Re	elocation Sec	quence & P
0330-1120	Relocate FEHD to Permanent Depot at Portions IA & X	12	07-May-12	19-May-12							
04 - SECTION	I 1 OF THE WORKS (Subject to Excision)										
04.1 - Drainage											
0410-0980	Ground investigation + CAR & RAP approval	2	19-Jul-11 A	23-Mar-12				Ground i	nvestigation + CAR 8	& RAP appro	val
0410-0990	Engineer Instruction to excision of the works	0		23-Mar-12				Engineer	Instruction to excisi	on of the wo	rks
0410-1010	Confirmatory Investigation/Sample/Tests/Decontamination	60	23-Mar-12	06-Jun-12							
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Remaining Level				Cont	ract HY	//2009 /1	9				ЗM

Actual Level of Effort
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Milestone

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Critical Remaining Work

Three Month Rolling Programme (21 MAR 2012 to 20 JUN 2012)

			May			June
23	30	07	14	21	<mark>28</mark> ИS Pre-	cast Segment Bridge - E
essing/De	stressin	g Tendons	- Submise	sion		
	1 1 1		MS S	tressing/De	estressi	ng Tendons - ER Review
	1					MS Stre
lge Segm		am - Subi				
		MS Preca	asting of B	ridge Segm	ient & E	Beam - ER Review & Cor
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	i i i				Ì	Noise Barrier
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Design o	f the Brid		ents/Bearr			
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	Ū			Relocate F	EHD to	Permanent Depot at Po
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Page 2	of 7					

rity ID	Activity Name	Rem Dur	Start	Finish	March		2012 April
0440 4000			00.14	00 Ma 40	20 27 05 12	19 26	02 09 16 23
0410-1020	Utility Coordination and Liaison	48	23-Mar-12	23-May-12	_		
0410-1030	Setting Out and Utility Detection & Protection at Portion XI	18	06-Jun-12	28-Jun-12			
	I 2 & 2A OF THE WORKS						
	ver Tunnel Ch 4932-5149						
05.2.1 - D-Wall C			00 Mar 10	01 Mar 10			D-wall Panel N106 (6m - 441cu.m)
	D-wall Panel N106 (6m - 441cu.m)	9	22-Mar-12	31-Mar-12	_	D-wall Panel	N105 (4.8m - 354cu.m)
0521-1710.10	D-wall Panel N105 (4.8m - 354cu.m)	1	07-Mar-12 A	21-Mar-12	D-wall Panel N104 (-	
0521-1710.15	D-wall Panel N104 (3.4m - 257cu.m)	0	18-Feb-12 A 03-Feb-12 A	05-Mar-12 A	D-wall Panel N95 (6m - 492cu.		A
0521-1710.60	D-wall Panel N95 (6m - 492cu.m)	0		27-Feb-12 A		el N94 (6m - 49	Zeu m)
0521-1750.05	D-wall Panel N94 (6m - 497cu.m)	0	28-Feb-12 A	12-Mar-12 A		,	wall Panel N93 (6m - 501cu.m)
0521-1750.10	D-wall Panel N93 (6m - 501cu.m)	7	14-Mar-12 A	28-Mar-12	D-wall Panel N91 (6m - 472cu.m)		
0521-1750.20	D-wall Panel N91 (6m - 472cu.m)	0	07-Feb-12 A	22-Feb-12 A	D-wall Panel N85 (6m - 507	ou m)	
0521-1750.50	D-wall Panel N85 (6m - 507cu.m)	0	13-Feb-12 A	29-Feb-12 A		cu.iii)	
0521-1790.10	D-wall Panel N74 (6m - 562cu.m)	10	16-Apr-12*	26-Apr-12		D	D-w
0521-1790.15	D-wall Panel N75 (6m - 554cu.m)	5	12-Mar-12 A	26-Mar-12			II Panel N75 (6m - 554cu.m)
0521-1790.20	D-wall Panel N76 (6m - 585cu.m)	0	23-Feb-12 A	09-Mar-12 A	D-wall Panel N	``	
0521-1795.25	D-wall Panel N80 (6m - 537cu.m)	0	08-Feb-12 A	16-Mar-12 A	D-wa	Panel N80 (6r	n - 537cu.m)
0521-1800.20	D-wall N65-N70 Pre-drilling (6 nos 1 rig@6d/hole)	36	02-Apr-12*	17-May-12			
0521-1810	D-wall N59-N70 Grouting for Existing Seawall Rubble Mound	18	18-May-12	07-Jun-12			
)521-1820	D-wall N59-N70 Guide Wall	18	08-Jun-12	29-Jun-12			
0521-1840	D-wall N52-N58 Pre-drilling (7 nos@6d - 2 rig)	42	18-May-12	07-Jul-12			
0521-1990.02	D-wall South Panel (02) S103 (6m - 484cu.m)	0	10-Feb-12 A	24-Feb-12 A	D-wall South Panel (02) S103 (6m		
0521-1990.03	D-wall South Panel (03) S109 (6m - 455cu.m)	0	18-Feb-12 A	03-Mar-12 A	D-wall South Panel (03)	S109 (6m - 45	5cu.m)
521-1990.04	D-wall South Panel (04) S97	0	27-Feb-12 A	10-Mar-12 A	D-wall South I	Panel (04) S97	
0521-1990.05	D-wall South Panel (05) S102 (5.96m - 483 cu.m)	0	27-Feb-12 A	14-Mar-12 A	D-wall S	outh Panel (05)	S102 (5.96m - 483 cu.m)
0521-1990.06	D-wall South Panel (06) S104 (6m - 481cu.m)	0	08-Mar-12 A	19-Mar-12 A		-wall South Pa	nel (06) S104 (6m - 481cu.m)
0521-1990.07	D-wall South Panel (07) S96	5	12-Mar-12 A	26-Mar-12			I South Panel (07) S96
0521-1990.08	D-wall South Panel (08) S101 (6m 489cu.m)	9	17-Mar-12 A	30-Mar-12			D-wall South Panel (08) S101 (6m 489cu.r
0521-1990.09	D-wall South Panel (10) S111 (7.65m - 575cu.m)	13	20-Mar-12 A	05-Apr-12	-		D-wall South Panel (10) S111 (7.6
0521-1990.10	D-wall South Panel S98	10	31-Mar-12	14-Apr-12			D-wall South Panel S
0521-1990.11	D-wall South Panel S105	10	11-Apr-12	21-Apr-12			D-wall Sou
0521-1990.12	D-wall South Panel S100	10	18-Apr-12	28-Apr-12			
0521-1990.13	D-wall South Panel S95	10	25-Apr-12	07-May-12			
0521-1990.14	D-wall South Panel S112	10	03-May-12	14-May-12			
0521-1990.15	D-wall South Panel S106	10	10-May-12	21-May-12	-		
0521-1990.16	D-wall South Panel S113	10	17-May-12	28-May-12	-		
0521-1990.17	D-wall South Panel S107	10	24-May-12	04-Jun-12	-		
0521-1990.18	D-wall South Panel S87	8	19-Mar-12 A	29-Mar-12			wall South Panel S87
0521-1990.19	D-wall South Panel S91	10	26-Mar-12	07-Apr-12	-		D-wall South Panel S91
0521-1990.20	D-wall South Panel S83	10	02-Apr-12	16-Apr-12			D-wall South Pane
0521-1990.21	D-wall South Panel S92	10	12-Apr-12	23-Apr-12			D-wall S
0521-1990.22	D-wall South Panel S86	10	19-Apr-12	30-Apr-12	-		
0521-1990.23	D-wall South Panel S90	10	26-Apr-12	08-May-12			
	D-wall South Panel S82	10	04-May-12	15-May-12	-		
0521-1990.24							

	Tremaining Level of Life
	Actual Level of Effort
	Actual Work

Critical Remaining Work

Remaining Work

Milestone

Three Month Rolling Programme (21 MAR 2012 to 20 JUN 2012)

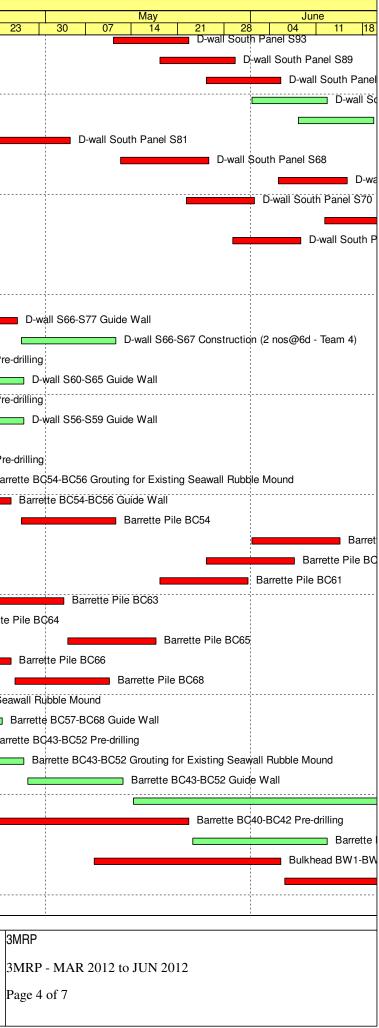
Page 3 of 7



ctivity ID	Activity Name	Rem	Start	Finish		2012		
		Dur			March 20 27 05 12 19 26	April		
0521-1990.25	D-wall South Panel S93	10	11-May-12	22-May-12				
0521-1990.26	D-wall South Panel S89	10	18-May-12	29-May-12				
0521-1990.27	D-wall South Panel S84	10	25-May-12	05-Jun-12				
0521-1990.28	D-wall South Panel S88	10	01-Jun-12	12-Jun-12				
0521-1990.29	D-wall South Panel S85	10	08-Jun-12	19-Jun-12				
0521-1990.33	D-wall South Panel S81	10	23-Apr-12	04-May-12				
0521-1990.34	D-wall South Panel S68	12	12-May-12	25-May-12				
0521-1990.35	D-wall South Panel S69	10	05-Jun-12	15-Jun-12				
0521-1990.36	D-wall South Panel S70	10	22-May-12	01-Jun-12				
0521-1990.37	D-wall South Panel S71	10	12-Jun-12	22-Jun-12				
0521-1990.38	D-wall South Panel S72	10	29-May-12	08-Jun-12				
0521-2010	D-wall S90-S101 Guide Wall	0	12-Jan-12 A	03-Mar-12 A	D-wall S90-S101 Guide Wall			
0521-2040	D-wall S81-S89 Guide Wall	0	27-Feb-12 A	10-Mar-12 A	D-wall S81-S89 Guide Wall			
0521-2060	D-wall S66-S77 Pre-drilling	0	21-Feb-12 A	11-Mar-12 A	D-wall S66-S77 Pre-drilling			
0521-2070	D-wall S66-S77 Guide Wall	15	10-Apr-12*	26-Apr-12		D-w		
0521-2085	D-wall S66-S67 Construction (2 nos@6d - Team 4)	12	27-Apr-12*	11-May-12				
0521-2090	D-wall S60-S65 Pre-drilling	15	27-Feb-12 A	10-Apr-12		D-wall S60-S65 Pre-drilling		
0521-2100	D-wall S60-S65 Guide Wall	15	11-Apr-12	27-Apr-12		D-		
0521-2120	D-wall S56-S59 Pre-drilling	15	16-Feb-12 A	10-Apr-12		D-wall S56-S59 Pre-drilling		
0521-2130	D-wall S56-S59 Guide Wall	15	11-Apr-12	27-Apr-12		D		
05.2.2 - Barrette	Construction							
0522-2185	Barrette BC54 Pre-drilling	6	02-Apr-12*	11-Apr-12	•	Barrette BC54 Pre-drilling		
0522-2190	Barrette BC54-BC56 Grouting for Existing Seawall Rubble Mound	9	12-Apr-12	21-Apr-12		Barrette BO		
0522-2200	Barrette BC54-BC56 Guide Wall	9	16-Apr-12	25-Apr-12		Barre		
0522-2210.54	Barrette Pile BC54	12	27-Apr-12	11-May-12		_		
0522-2210.56	Barrette Pile BC56	12	01-Jun-12	14-Jun-12				
0522-2210.59	Barrette Pile BC59	12	25-May-12	07-Jun-12				
0522-2210.61	Barrette Pile BC61	12	18-May-12	31-May-12				
0522-2210.63	Barrette Pile BC63	12	19-Apr-12	03-May-12				
0522-2210.64	Barrette Pile BC64	12	02-Apr-12*	18-Apr-12		Barrette Pile B		
0522-2210.65	Barrette Pile BC65	12	04-May-12	17-May-12				
0522-2210.66	Barrette Pile BC66	12	12-Apr-12	25-Apr-12		Barre		
0522-2210.68	Barrette Pile BC68	12	26-Apr-12	10-May-12				
0522-2230	Barrette BC57-BC68 Grouting for Existing Seawall Rubble Mound	2	28-Jan-12 A	23-Mar-12	Barrette BC5	-BC68 Grouting for Existing Seawall R		
0522-2240	Barrette BC57-BC68 Guide Wall	24	23-Mar-12	24-Apr-12		Barrette		
0522-2270	Barrette BC43-BC52 Pre-drilling	25	21-Mar-12	21-Apr-12		Barrette BC		
0522-2280	Barrette BC43-BC52 Grouting for Existing Seawall Rubble Mound	12	14-Apr-12	27-Apr-12		Ba		
0522-2290	Barrette BC43-BC52 Guide Wall	12	28-Apr-12	12-May-12				
0522-2310	Barrette BC45-BC49 Construction (5 nos@6.5d - Team 5)	34	14-May-12	21-Jun-12				
0522-2320	Barrette BC40-BC42 Pre-drilling	25	23-Apr-12	22-May-12				
0522-2330	Barrette BC40-BC42 Grouting for Existing Seawall Rubble Mound	18	23-May-12	12-Jun-12				
0522-2360	Bulkhead BW1-BW7 Pre-drilling	25	08-May-12	05-Jun-12	-			
0522-2370	Bulkhead BW1-BW7 Grouting for Existing Seawall Rubble Mound	18	06-Jun-12	27-Jun-12	-			
05.2.3 - ELS								
Remaining Leve	el of Effort			Cont	ract HY/2009/19	3MRP		
Actual Level of I								
Actual Work	v l	Three Mo	onth Rolli	ing Progr	amme (21 MAR 2012 to 20 JUN 2	2012) ^{3MRP}		
Remaining Worl	κ				·	Page 4		

Critical Remaining Work

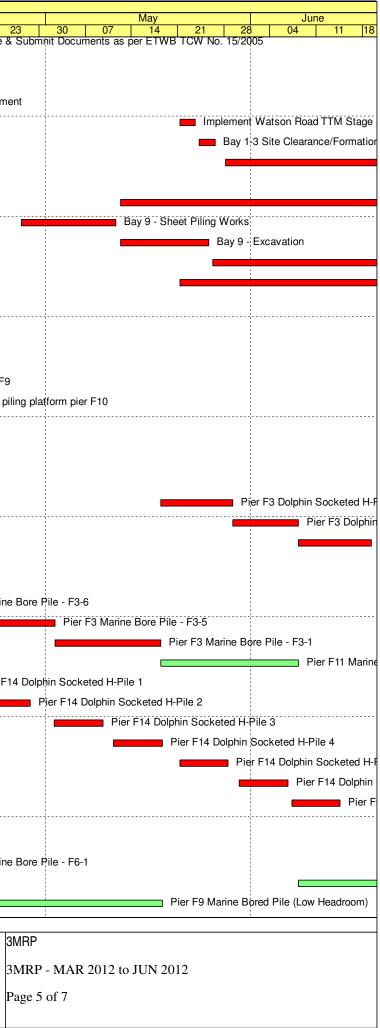
Milestone



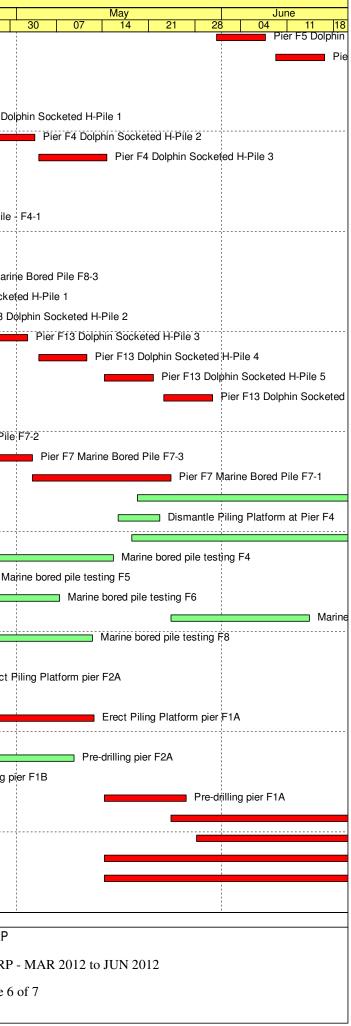
rity ID A	Activity Name	Rem	Start	Finish		Marc	b		2012 April
		Dur			20 27	05 12		26 02 09	16 23
0523-2398 P	Prepare & Submnit Documents as per ETWB TCW No. 15/2005	21	21-Jan-12 A	17-Apr-12					Prepare & Sub
05.3 - Box Culvert T	n								
0530-3000 B	Bay 5 Box Culvert Construction	0	20-Jan-12 A	14-Mar-12 A		Bay	/ 5 Box Culvert	Construction	
0530-3010 B	Bay 5 Road Reinstatement	7	28-Mar-12	07-Apr-12				Bay 5 Ro	bad Reinstatement
0530-3020 Ir	mplement Watson Road TTM Stage 2	3	21-May-12	23-May-12					
0530-3030 B	Bay 1-3 Site Clearance/Formation	3	24-May-12	26-May-12					
0530-3040 B	Bay 1-3 Trench excavation	36	28-May-12	10-Jul-12					
0530-3080 B	Bay 6A Box Culvert Construction	6	01-Mar-12 A	28-Mar-12				Bay 6A Box Culvert Co	nstruction
0530-3090 C	Construct Box Culvert Across Tunnel	48	12-May-12	09-Jul-12					
0530-3111 B	Bay 9 - Sheet Piling Works	12	15-Oct-11 A	11-May-12					
0530-3113 B	Bay 9 - Excavation	12	12-May-12	25-May-12	_				
0530-3114 B	Bay 9 - Box Culvert/Outfall Construction	48	26-May-12	23-Jul-12					
0530-3200 S	Storm Drainage 1500 Dia. Within Portion X (FEHD)	60	21-May-12	31-Jul-12					
0 - SECTION X	OF THE WORKS								
10.1 - E/B Bridges (Bridge D, E and F)								
10.1.1 - Marine Pier C	Construction								
Pier F03 to F15									
1011-1590 E	Erect marine piling platform pier F9	9	10-Jan-12 A	30-Mar-12				Erect marine piling	platform pier F9
1011-1600 E	Erect marine piling platform pier F10	9	10-Jan-12 A	13-Apr-12					Erect marine piling
1011-1610 E	Erect marine piling platform pier F11	0	20-Oct-11 A	12-Mar-12 A	· · · · · · · · · · · · · · · · · · ·	Erect	marine piling pla	atform pier F11	
1011-1620 E	Erect marine piling platform pier F12	0	26-Oct-11 A	07-Mar-12 A		Erect marine	piling platform p	pier F12	
1011-1630 E	Erect marine piling platform pier F13	0	01-Nov-11 A	29-Feb-12 A	E	rect marine piling plat	form pier F13		
1011-1640 E	Erect marine piling platform pier F14	0	08-Nov-11 A	29-Feb-12 A	E	rect marine piling plat	form pier F14		
1011-1750.10 P	Pier F3 Dolphin Socketed H-Pile 1	9	18-May-12	29-May-12	-				
1011-1750.20 P	Pier F3 Dolphin Socketed H-Pile 1	9	29-May-12	08-Jun-12					
1011-1750.30 P	Pier F3 Dolphin Socketed H-Pile 1	9	08-Jun-12	19-Jun-12	-				
1011-1760.40 P	Pier F3 Marine Bore Pile - F3-3	0	20-Feb-12 A	07-Mar-12 A		Pier F3 Marin	e Bo <mark>r</mark> e Pile - F3	3-3	
1011-1760.50 P	Pier F3 Marine Bore Pile - F3-2	4	08-Mar-12 A	26-Mar-12	-		P	Pier F3 Marine Bore Pile -	F3-2
1011-1760.60 P	Pier F3 Marine Bore Pile - F3-6	14	26-Mar-12	14-Apr-12	-				Pier F3 Marine Bo
1011-1760.70 P	Pier F3 Marine Bore Pile - F3-5	14	14-Apr-12	02-May-12			·	•	
1011-1760.80 P	Pier F3 Marine Bore Pile - F3-1	14	02-May-12	18-May-12	-				
1011-1780 P	Pier F11 Marine Bored Pile	18	18-May-12	08-Jun-12	-				
1011-1782.10 P	Pier F14 Dolphin Socketed H-Pile 1	7	12-Apr-12	19-Apr-12	-			_	Pier F14 D
1011-1782.20 P	Pier F14 Dolphin Socketed H-Pile 2	7	21-Apr-12	28-Apr-12	-				
1011-1782.30 P	Pier F14 Dolphin Socketed H-Pile 3	7	02-May-12	09-May-12					
1011-1782.40 P	Pier F14 Dolphin Socketed H-Pile 4	7	11-May-12	18-May-12					
1011-1782.50 P	Pier F14 Dolphin Socketed H-Pile 5	7	21-May-12	28-May-12					
1011-1782.60 P	Pier F14 Dolphin Socketed H-Pile 6	7	30-May-12	06-Jun-12					
	Pier F6 Dolphin Socketed H-Pile 1	7	07-Jun-12	14-Jun-12	-				
	Pier F6 Marine Bore Pile - F6-3	0	07-Jan-12 A	25-Feb-12 A	Pier F	6 Marine Bore Pile - F	6-3		
	Pier F6 Marine Bore Pile - F6-4	4	28-Feb-12 A	24-Mar-12			Pier	r F6 Marine Bore Pile - F6	ò-4
	Pier F6 Marine Bore Pile - F6-1	14	26-Mar-12	14-Apr-12					Pier F6 Marine Bo
	Pier F9 Marine Bored Pile	18	08-Jun-12	30-Jun-12					
	Pier F9 Marine Bored Pile (Low Headroom)	28	16-Apr-12*	18-May-12					
			· - / · P· · · =						
Remaining Level of Ef	ffort			Cont	ract HV	/2009/19			3MR
Actual Level of Effort				Cont	ασιΠΠ	2003/13			
Actual Work		Three Ma	onth Rolli	na Proar	amme (21 MAR 201	2 to 20.	II IN 2012)	3MI

Actual Work
Remaining Work

- Critical Remaining Work
- Milestone



ctivity ID	Activity Name	Rem	Start	Finish	March		2012 April
		Dur			20 27 05 12	19 26	02 09 16 23
1011-1810.10	Pier F5 Dolphin Socketed H-Pile 1	7	31-May-12	07-Jun-12			
1011-1810.20	Pier F5 Dolphin Socketed H-Pile 2	7	09-Jun-12	16-Jun-12			
1011-1820.30	Pier F5 Marine Bore Pile - F5-1	0	20-Feb-12 A	15-Mar-12 A	Pier F	5 Marine Bore F	
1011-1820.40	Pier F5 Marine Bore Pile - F5-3	11	17-Mar-12 A	03-Apr-12			Pier F5 Marine Bore Pile - F5-3
1011-1850.10	Pier F4 Dolphin Socketed H-Pile 1	9	12-Apr-12	21-Apr-12			Pier F4 Do
1011-1850.20	Pier F4 Dolphin Socketed H-Pile 2	9	23-Apr-12	03-May-12			
1011-1850.30	Pier F4 Dolphin Socketed H-Pile 3	9	04-May-12	14-May-12			
1011-1860.40	Pier F4 Marine Bore Pile - F4-2	0	13-Feb-12 A	02-Mar-12 A	Pier F4 Marine Bore Pile	- F4-2	
1011-1860.50	Pier F4 Marine Bore Pile - F4-4	0	03-Mar-12 A	20-Mar-12 A		Pier F4 Marine	Bore Pile - F4-4
1011-1860.60	Pier F4 Marine Bore Pile - F4-1	15	22-Mar-12	11-Apr-12			Pier F4 Marine Bore Pile
1011-1864.20	Pier F8 Marine Bored Pile F8-2	0	13-Feb-12 A	25-Feb-12 A	Pier F8 Marine Bored Pile F8-2		
1011-1864.30	Pier F8 Marine Bored Pile F8-1	8	27-Feb-12 A	30-Mar-12			Pier F8 Marine Bored Pile F8-1
1011-1864.40	Pier F8 Marine Bored Pile F8-3	14	31-Mar-12	20-Apr-12			Pier F8 Mari
1011-1890.10	Pier F13 Dolphin Socketed H-Pile 1	7	02-Apr-12*	12-Apr-12			Pier F13 Dolphin Socke
1011-1890.20	Pier F13 Dolphin Socketed H-Pile 2	7	14-Apr-12	21-Apr-12			Pier F13 D
1011-1890.30	Pier F13 Dolphin Socketed H-Pile 3	7	24-Apr-12	02-May-12			
1011-1890.40	Pier F13 Dolphin Socketed H-Pile 4	7	04-May-12	11-May-12	-		
1011-1890.50	Pier F13 Dolphin Socketed H-Pile 5	7	14-May-12	21-May-12	-		
1011-1890.60	Pier F13 Dolphin Socketed H-Pile 6	7	23-May-12	30-May-12	-		
1011-1920.10	Pier F7 Marine Bored Pile F7-4	0	19-Jan-12 A	17-Mar-12 A	Pie	r F7 Marine Bo	red Pile F7-4
1011-1920.20	Pier F7 Marine Bored Pile F7-2	15	19-Mar-12 A	11-Apr-12			Pier F7 Marine Bored Pile
1011-1920.20	Pier F7 Marine Bored Pile F7-3	13	11-Apr-12	03-May-12			
1011-1920.40	Pier F7 Marine Bored Pile F7-1	18	03-May-12	-	-		
1011-1920.40	Pier F10 Marine Bored Pile (Low Headroom)		19-May-12	24-May-12 20-Jun-12	_		
1011-1981	· · · · · · · · · · · · · · · · · · ·	28			_		
	Dismantle Piling Platform at Pier F4	6	16-May-12	22-May-12			
1011-2090	Marine bored pile testing F3	28	18-May-12	20-Jun-12			
1011-2095	Marine bored pile testing F4	28	12-Apr-12	15-May-12	_		
1011-2100	Marine bored pile testing F5	18	03-Apr-12	27-Apr-12	_		Ma
1011-2105	Marine bored pile testing F6	18	14-Apr-12	07-May-12			
1011-2110	Marine bored pile testing F7	18	24-May-12	14-Jun-12			
1011-2115	Marine bored pile testing F8	18	20-Apr-12	12-May-12			
Pier F01 to F02							
1011-2570	Erect Piling Platform pier F2A	15	05-Apr-12	24-Apr-12			Erect I
1011-2580	Erect Piling Platform pier F1B	12	06-Feb-12 A	03-Apr-12			Erect Piling Platform pier F1B
1011-2590	Erect Piling Platform pier F1A	21	18-Apr-12	12-May-12			
1011-2600	Pre-drilling pier F2B	0	28-Feb-12 A	07-Mar-12 A	Pre-drilling pier F	B	
1011-2610	Pre-drilling pier F2A	12	25-Apr-12	09-May-12			
1011-2620	Pre-drilling pier F1B	12	05-Apr-12	20-Apr-12			Pre-drilling p
1011-2630	Pre-drilling pier F1A	12	14-May-12	26-May-12			
1011-2740	Marine bored pile F2A	56	24-May-12	31-Jul-12			
1011-2750	Marine bored pile F1A	56	28-May-12	02-Aug-12			
1011-2770	Marine bored pile F2B	56	14-May-12	19-Jul-12			
1011-2780	Marine bored pile F1B	56	14-May-12	19-Jul-12			
10.1.2 - Land Pier	r Construction						
							,
Remaining Level				Cont	ract HY/2009/19		3MRP
Actual Level of E Actual Work	-itort			-			3MRP
Remaining Work	<	Three Mo	onth Roll	ing Progr	amme (21 MAR 2012	to 20 JU	N 2012)
Critical Remainin							Page 6
♦ Milestone							



tivity ID	Activity Name	Rem	Start	Finish									2012	
		Dur			20	27	05	March 12	19	26	02	Apri 09	l 16	23
Abutment D12					20					20				
1012-1071	Abutment E/B Bridge Bored Pile D12-1	0	21-Feb-12 A	17-Mar-12 A				A	butment	E/B Brid	lge Bored P	ile D12-1		
1012-1072	Abutment E/B Bridge Bored Pile D12-8	9	17-Mar-12 A	30-Mar-12							Abutment	E/B Bridge B	Bored Pile	D12-8
1012-1073	Abutment E/B Bridge Bored Pile D12-3	12	31-Mar-12	17-Apr-12									Abutme	ent E/B B
1012-1074	Abutment E/B Bridge Bored Pile D12-4	12	18-Apr-12	02-May-12										
1012-1090	Abutment D12 E/B Bridge Bored Pile Testing	18	03-May-12	23-May-12										
1012-1220	Abutment D12 construction (E/B Bridge)	42	24-May-12	13-Jul-12					••••					
Pier D08 to D11														
1012-1015	Pre-drilling for Pilings (D08 to D12) at III (28 no.) (4set)	0	03-Jan-12 A	07-Mar-12 A			Pre-c	Irilling for P	'ilings (D	08 to D1	2) at III (28	no.) (4set)		
1012-1020	Portion III Land Pile G.I. Prelim Report / Founding Level	6	21-Mar-12	27-Mar-12	_					Po	rtion III Land	d Pile G.I. Pr	elim Repo	ort / Found
1012-1025	Portion III Land Pile G.I. Final Report / Founding Level	24	28-Mar-12	27-Apr-12	_									Po
1012-1040.20	Pier D09 Bored Pile D9-2	0	20-Feb-12 A	02-Mar-12 A			Pier D09 Bo	red Pile D9	-2					
1012-1040.30	Pier D09 Bored Pile D9-1	0	03-Mar-12 A	17-Mar-12 A	_			F	Pier D09	Bored P	ile D9-1			
1012-1040.40	Pier D09 Bored Pile D9-4	10	19-Mar-12 A	31-Mar-12	_			I			Pier D09	Bored Pile D	9-4	
1012-1040.50	Pier D09 Bored Pile D9-3	12	02-Apr-12	18-Apr-12	_								Pier D	009 Bored
1012-1040.60	Pier D09 Bored Pile D9-6	12	19-Apr-12	03-May-12	_									
1012-1050.10	Pier D10 Bored Pile D10-2	0	29-Feb-12 A	12-Mar-12 A				Pier D10	Bored P	ile D10-2	2			
1012-1050.20	Pier D10 Bored Pile D10-5	3	11-Mar-12 A	23-Mar-12	_					Pier D10	Bored Pile	D10-5		
1012-1050.30	Pier D10 Bored Pile D10-2	12	24-Mar-12	10-Apr-12	_							Pier D1	0 Bored P	ile D10-2
1012-1050.40	Pier D10 Bored Pile D10-5	12	11-Apr-12	24-Apr-12	_									Pier D
1012-1050.50	Pier D10 Bored Pile D10-3	12	25-Apr-12	09-May-12	_									
1012-1050.60	Pier D10 Bored Pile D10-4	12	10-May-12	23-May-12										
1012-1060.10	Pier D11 Bored Pile D11-5	0	13-Feb-12 A	27-Feb-12 A		Pier	D11 Bored F	ile D11-5						
1012-1060.20	Pier D11 Bored Pile D11-2	6	28-Feb-12 A	27-Mar-12						Pie	r D11 Bored	I Pile D11-2		
1012-1060.30	Pier D11 Bored Pile D11-2	12	28-Mar-12	13-Apr-12								Pie	er D11 Bore	ed Pile D [.]
1012-1060.40	Pier D11 Bored Pile D11-1	12	14-Apr-12	27-Apr-12										Pi
1012-1060.50	Pier D11 Bored Pile D11-3	12	28-Apr-12	12-May-12										
1012-1060.60	Pier D11 Bored Pile D11-4	12	14-May-12	26-May-12										
1012-1130	Pier D09 Construct Pile Cap	18	18-May-12	07-Jun-12										
1012-1140	Pier D09 Construct Pier/Column	12	08-Jun-12	21-Jun-12										
1012-1190	Pier D11 Construct Pile Cap	18	11-Jun-12	03-Jul-12										
Pier D05 to D07														
1012-1270	Pier D07 Bored Piles (6 piles)	108	04-May-12	08-Sep-12										
1012-1290.20	Pier D05 Bored Pile D05-1	13	02-Dec-11 A	07-Jun-12		_								
1012-1300	Pier D05/D06/D07 Bored Piles Testing	18	07-Jun-12	29-Jun-12										
10.1.3 - E/B Bridg	ge Construction													
Bridge D3														
1013-1000	Design & Procurement of Launching Girder	68	21-Jan-12 A	12-Jun-12					-					
1013-1010	Fabrication & Delivery of Launching Girder	75	12-Jun-12	10-Sep-12										

Contract HY/2009/19

Three Month Rolling Programme (21 MAR 2012 to 20 JUN 2012)

