

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

- OCTOBER 2012 -

CLIENTS:

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and

Highways Department

PREPARED BY:

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CERTIFIED BY:

Raymond Dai Environmental Team Leader

DATE:

13 November 2012

ENVIRON

Ref.: AACWBIECEM00 0 3364L.12

13 November 2012

By Post and Fax (2691 2649)

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

Attention: Mr. Kelvin CHENG

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass Monthly Environmental Monitoring and Audit Report (October 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 October 2012 dated 12 November 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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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –October 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 September 2012 to October 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
 - The Contractor HY/2009/11 had been submitted the surrender of Further Environmental Permit (FEP-01/356/2009) to EPD on 24 October 2012
 - 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)
 - Rockfilling for HKCEC3E (East of HKCEC) between CH290 and CH385
 - Installation of pipe pile wall for demolition of existing seawall at Expo Drive East.
 Grouting works to pipe pile
 - Dredging works for Type 3 sediment beneath Expo Drive East bridge
 - Dredging works for Type 2 sediment beneath Expo Drive East bridge
 - Fabrication of 3 nos. of precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay 100 and 2 nos. precast discharge outfall in precasting yard at Guangdong, China

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

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- Platform erection for crawler crane demobilization at TST landfall near Salisbury Garden. Demobilization of 80t crawler crane from the jack-up barge.
- Pressure test for fresh watermains CHE and CHF
- Pressure test for cross-harbour watermains CHA and CHB

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

Mainlaying works at Zone B1-5A, B2-1, B3-1, B5-1(Switch Room), B5-3(Switch Room), A1-1, A1-2, A1-4, A2-3D, A3-2A, A3-4B, C1-10 and Run-out of Renaissance Hotel



- Mainlaying works and subsequent reinstatement in Zone B4-3 and Zone B4-1A
- Mainlaying works and subsequent reinstatement in Zone A2-2 and TTA Zone A2-3D
- Pipe laying works at Heading No. H6c has been completed and the road reinstatement works at the jacking pit of Zone A1-3B and TTA Zone A1-4
- Pipe laying works for heading No. H6a.
- Excavation works at Heading No. H1
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street
- Mainlaying works at Expo Drive East in Zone C1-10
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains

E&M

- Electrical works in cooling water pumping stations P5
- Cable works at Zone B1-5A, Zone B5-1(Switch Room) and B5-3(Switch Room)
 Power energization to L.V. switchboard for cooling water pumping stations P1, P3 and P4 by HEC
- Power supply to cooling water pumping stations P1 and P4 from L.V. switchboard
- Optical fiber cabling works from cooling water pumping stations P1, P3, P4 and P5 to relative stakeholders
- iv. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
 - Repairing of door hinge in the New Public Toile
 - Modification work of PTI at Expo Drive East.
 - Modification work of bus station at Expo Drive East near EVA
 - Reinstatement at Tonnochy Road Harbour Road junction
 - Modification work of P7, P8 and P9 Cooling water pumping station
 - Cooling mains installation at west of Gate 1 inside ex-pet garden
 - FS inspection of WSD Pumping Station
 - E&M works at WSD Salt Water Pumping Station
 - Modification work of EVA at WSD Pumping Station
 - Stripping formwork and application of cement mortar for the tie bolt holes inside salt water intake culvert Bay 19b ~ Bay 24
 - Concreting for box-out of access chamber at Bay19b
 - Concreting of the base slab at salt water intake culvert Bay 19a and steel fixing of the wall and top slab
 - Remedial work of wall and top slab of salt water intake A and B was completed
 - Concreting of base slab at salt water intake culvert jacking pit at WCR1
 - Welding for the 2nd layer waling at salt water intake culvert Bay 9 to Bay 11 at WCR1
 - Concreting of wall and top slab of Bay 8 in salt water intake landside cofferdam
 - Concreting of pile caps and wall together with top slab of Bay 6 in salt water intake



landside cofferdam

- Concreting of base slab of Bay 1 and Bay 2 in salt water intake seaside cofferdam
- Cavity grouting between the HDPE Pipes B and Concrete Sleeve Pipes at TBM Jacking Pit
- Breaking the extra cement grout at deformed area for removal of HDPE Pipe A from tunnel and the re-splicing work.
- Laying HDPE pipe A and pipe B at temporary steel bridge
- Vertical bend installation of HDPE pipe A & pipe B and connection to short pipe
- Concreting the wall and top slab of box culvert N1 Bay 1 on UU bridge
- Concreting the Inspection Manhole IM-03 & IM-04 at box culvert N1 Bay 2 and desilting opening DO-01 & DO-02
- Concreting the pile caps of Bay 4 and Bay 5 of box culvert N1, backfill the area with concrete outside the caps
- v. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
 - TZ1 reclamation works
 - Formation of temporary seawall at TS2
 - Seawall trench works at TS2
- vi. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
 - Pile head breaking
 - Sonic tube trimming
- vii. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
 - Marine bored piling
 - Construction works for Box Culvert T
 - Construction of 1500¢ drainage pipe

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. One limit level exceedance was recorded at M6 on 16 October 2012. The limit level exceedance was 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.



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- xi. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot commenced external wall renovation since 1 June 2012
- xii. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xiii. Exceedances were recorded between 2100 and 2130 hours on 1 Oct 2012 at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre throughout the reporting month. Investigations found that the major noise impacts from 2100 to 2130 hours were arising from the display of pyrotechnics on 1 Oct 2012. In addition, there was no construction activity commenced in these two periods. As such, the exceedances were concluded as not project related.

Air Quality Monitoring

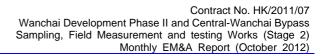
- xiv. Due to extension of site boundary by contractor of HY/2009/19, location of air monitoring station CMA1b – Oil Street Community Liaison Centre has been finely adjusted on 21 April 2012.
- xv. Due to lack of electricity supply, the 24-hr TSP monitoring at the following stations were rescheduled:
 CMA22: from 22 October 2012 to 24 October 2012

CMA2a: from 22 October 2012 to 24 October 2012 CMA4a: from 29 September 2012 to 3 October 2012

xvi. 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

- xvii. 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.
- xviii. 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.
- xix. 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;
- xx. 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.
- xxi. 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



am

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.

- xxii. 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.
- xxiii. 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.
- xxiv. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- xxv. Water quality monitoring at 14 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table I*.

	Water			Mid-1	flood					Mid	ebb		
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
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	4	0	3	0	0	2	2	0	2
	C1	1	0	0	0	0	0	0	0	0	0	0	0
	C3	4	0	0	0	1	0	0	0	0	0	0	0
	C4e	1	0	0	0	0	0	1	0	0	0	0	0
	C4w	2	1	0	0	0	0	3	0	0	0	0	0
Manitarian finished on 27 April 2042	WSD20	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD7	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/01 & HK/2010/06	C2	0	0	0	0	1	0	0	0	0	0	0	0
HK/2009/02	C5e	0	0	0	2	0	1	0	0	0	2	1	1
	C5w	0	0	1	1	0	1	0	0	0	3	0	2
Monitoring started on	WSD21	4	2	0	0	3	1	3	1	1	0	0	0
8 Feb 2012	WSD9	0	0	0	0	1	0	0	0	0	0	0	0
	WSD17	0	0	1	7	0	5	0	0	0	1	0	1

 Table I
 Summary of Water Quality Monitoring Exceedances in Reporting Month



	Water		Mid-flood						Mid-ebb				
Contract no.	Monitoring	DO		Turb	idity	S	S	D	0	Turb	idity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/15	C7	1	1	0	0	0	0	2	0	0	0	0	0
HY/2009/19	C8	0	0	3	4	1	0	0	0	1	1	0	0
Monitoring started on 28 Jan 2012	C9	0	0	4	2	2	1	0	0	2	0	0	0
Total		13	4	9	20	9	12	9	1	6	9	1	6

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

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- xxvi. Investigations were found that 6 turbidity and 5 SS exceedances which were Project-related to Contract no. HK/2009/02. The details of the recorded exceedances can be referred to the Section 6.4.
- xxvii. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table II*.

•		Mid-f	lood	Mid-ebb			
Contract no.	Water Monitoring Station	D	0	DO			
			LL	AL	LL		
	C6	1	0	0	0		
HY/2009/15	C7	3	2	1	1		
HT/2009/15	Ex-WPCWA SW	1	8	1	9		
	Ex-WPCWA SE	4	6	3	7		
	Total	9	16	5	17		

Table IISummary of Enhanced Dissolved Oxygen Monitoring Exceedances inReporting Month

- xxviii. There were 14 action level exceedances and 33 limit level exceedances of enhanced dissolved oxygen recorded in this reporting month. Investigation found that the exceedances are not related to the Project works. The details of the recorded exceedances can be referred to the Section 6.4.
- xxix. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation



Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

Complaints, Notifications of Summons and Successful Prosecutions

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

Site Inspections and Audit

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

- Fabrication of precast concrete caisson seawalls, precast box culvert (Bay 10) and precast discharge outfall in precasting yard at Guangdong, China and anticipated to be delivered to Site. Installation of the precast units
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier
- Grouting works and tie back system for construction of pipe pile wall near Expo Drive East. Removal of seawall at Expo Drive East
- Rockfilling at east of HKCEC near Expo Drive East
- Trust block construction at TST landfall
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore including removal of silt screen and demobilization of jack-up barge
- Fresh water flushing, final cleaning and sterilizatioin for cross-harbour watermains CHA, CHB, CHE & CHF



Installation of Impressed Current Cathodic Protection (ICCP) system to CHA and CHB

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

- Works would be continued at Zone B1-5A, B2-1, B5-1(Switch Room), B5- 3(Switch
 - Room), A1-1, A1-2, A2-2, A1-4(CHWM), A2-3D, A3-2A, A3-4B, run-out of Renaissance Hotel and C1-10
- Mainlaying works at Zone C1-10 and run-out of Renaissance Hotel
- Reinstatement works at Zone B1-5A and B2-1
- Mainlaying works at Zone B3-1
- Mainlaying works at Convention Avenue in Zone A1-1 and A1-2 and the next TTA workfront at Zone A1-2 (CHWM)
- Mainlaying works and grouting works at jacking pit in Zone A1-3A & A1-4A of Convention Avenue would be resumed upon completion of pressure test for intake and discharge pipeline of SOC and HKAPA.
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Pipe laying works for Heading no. H1
- Mainlaying works at Zone A3-4B and the works at Zone A3-4A & A3-5A would be subsequently commenced concurrently after the Zone A3-4B had been completed reinstated and reopened to public.
- Pipe laying works for cross harbour watermains across HKCEC water channel
- Pressure test for the 9 nos. cooling watermains

E&M Works

- Electrical works in Cooling Water Pumping Stations P5
- Initial commissioning for Cooling Water Pumping Stations P5
- Major cabling works from existing LV Switch-board Room to Cooling Water Pumping Stations P5
- Power energization for Cooling Water Pumping Stations P5
- Full commissioning for Cooling Water Pumping Stations P1
- Full commissioning for Cooling Water Pumping Stations P3, P4 & P5

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

- Repairing of door hinge in the New Public Toile
- Modification work of PTI at Expo Drive East.
- Modification work of bus station at Expo Drive East near EVA
- Reinstatement at Tonnochy Road Harbour Road junction
- Modification work of P7, P8 and P9 Cooling water pumping station
- Cooling mains installation at west of Gate 1 inside ex-pet garden



- FS inspection of WSD Pumping Station
- E&M works at WSD Salt Water Pumping Station
- Modification work of EVA at WSD Pumping Station
- Stripping formwork and application of cement mortar for the tie bolt holes inside salt water intake culvert Bay 19b ~ Bay 24
- Concreting for box-out of access chamber at Bay19b
- Concreting of the base slab at salt water intake culvert Bay 19a and steel fixing of the wall and top slab
- Remedial work of wall and top slab of salt water intake A and B was completed
- Concreting of base slab at salt water intake culvert jacking pit at WCR1
- Welding for the 2nd layer waling at salt water intake culvert Bay 9 to Bay 11 at WCR1
- Concreting of wall and top slab of Bay 8 in salt water intake landside cofferdam
- Concreting of pile caps and wall together with top slab of Bay 6 in salt water intake landside cofferdam
- Concreting of base slab of Bay 1 and Bay 2 in salt water intake seaside cofferdam
- Cavity grouting between the HDPE Pipes B and Concrete Sleeve Pipes at TBM Jacking Pit
- Breaking the extra cement grout at deformed area for removal of HDPE Pipe A from tunnel and the re-splicing work.
- Laying HDPE pipe A and pipe B at temporary steel bridge
- Vertical bend installation of HDPE pipe A & pipe B and connection to short pipe
- Concreting the wall and top slab of box culvert N1 Bay 1 on UU bridge
- Concreting the Inspection Manhole IM-03 & IM-04 at box culvert N1 Bay 2 and desilting opening DO-01 & DO-02
- Concreting the pile caps of Bay 4 and Bay 5 of box culvert N1, backfill the area with concrete outside the caps

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

- TZ1 reclamation works
- Dredging for seawall foundation at TS2
- Seawall trench works at TS2

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

- Pile head breaking
- Sonic tube trimming

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



Corridor Link

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



Lam Geotechnics Limited

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 September to October. 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)	DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

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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	3912 3388	3912 3010
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 Venture	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	2162 9909	2587 1878
Joint Venture	HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	
		Deputy Site Agent	Mr Andy Yu	96484896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Jack Chu	9775 3008	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
Chun Wo – CRGL	Contractor under Contract no.	Site Agent	Mr. Chan Sing Cho	3658 3002	2827 9996
Joint Venture	HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State	Contractor under Contract no.	Project Director	Chan Wai Hung	2823 7813	2865 5229
Constructi on Engineerin g (HK) Ltd.	HY/2009/15	Site Manager	P J Fan	3557 6368	2566 2192
		Contractor's Representativ e	Mr. David Lau	3557 6358	
		Head of Construction Manager	Roger Cheung	3557 6371	
		Senior Construction Manager	Gene Cheung	3557 6395	
		Environmental Officer	Mr. Daniel Sin	3557 6347	
Gammon -Leader JV	Contractor under Contract no.	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
	HK/2010/06	Site Agent	Mr. Keith Tse	2529 2068	
		Environmental Officer	Mr. Lee Wai Man	9481 6024	



Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo - CRGL -	Contractor under Contract no.	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
MBEC_ Joint Venture	HY/2009/19	Site Agent	Mr. Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Mr. Calvin Leung	9286 9208	
		Environmental Manager /	Mr. M.H. Isa	9884 0810	
		Environmental Officer			
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
		Construction Manager (Land)	Eric Fong	6191 9337	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechni cs Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.4.3. For Contract no. HY/2009/11, the principal work activities in this reporting month included:
 - The Contractor HY/2009/11 had been submitted the surrender of Further Environmental Permit (FEP-01/356/2009) to EPD on 24 October 2012
 - 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)

- Rockfilling for HKCEC3E (East of HKCEC) between CH290 and CH385
- Installation of pipe pile wall for demolition of existing seawall at Expo Drive East.
 Grouting works to pipe pile
- Dredging works for Type 3 sediment beneath Expo Drive East bridge
- Dredging works for Type 2 sediment beneath Expo Drive East bridge
- Fabrication of 3 nos. of precast concrete caisson seawall, 1 no. precast concrete box culvert (namely Bay 100 and 2 nos. precast discharge outfall in precasting yard at



Guangdong, China

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

- Rockfilling and rock protection to cross-harbour watermains
- Thrust block construction for A18B18
- Platform erection for crawler crane demobilization at TST landfall near Salisbury Garden. Demobilization of 80t crawler crane from the jack-up barge.
- Pressure test for fresh watermains CHE and CHF
- Pressure test for cross-harbour watermains CHA and CHB

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

- Mainlaying works at Zone B1-5A, B2-1, B3-1, B5-1(Switch Room), B5-3(Switch Room), A1-1, A1-2, A1-4, A2-3D, A3-2A, A3-4B, C1-10 and Run-out of Renaissance Hotel were in progress.
- Mainlaying works and subsequent reinstatement in Zone B4-3 and Zone B4-1A were substantially completed.
- Mainlaying works and subsequent reinstatement in Zone A2-2 was substantially completed and subsequent TTA Zone A2-3D was commenced.
- Pipe laying works at Heading No. H6c has been completed and the road reinstatement works at the jacking pit of Zone A1-3B was completed. The subsequent TTA Zone A1-4 was commenced.
- Pipe laying works for heading No. H6a was substantially completed.
- Excavation works at Heading No. H1 was substantially completed.
- Mainlaying and chamber construction works at the traffic island near junction of Convention Avenue and Fenwick Pier Street was currently in progress.
- Mainlaying works at Expo Drive East in Zone C1-10 was in progress.
- Final cleaning, CCTV inspection and pressure test for the 9 nos. cooling watermains was commenced.

E&M

- Electrical works in cooling water pumping stations P5
- Cable works at Zone B1-5A, Zone B5-1(Switch Room) and B5-3(Switch Room)
 Power energization to L.V. switchboard for cooling water pumping stations P1, P3 and P4 by HEC
- Power supply to cooling water pumping stations P1 and P4 from L.V. switchboard
- Optical fiber cabling works from cooling water pumping stations P1, P3, P4 and P5 to relative stakeholders
- 2.4.5. For Contract no. HK/2009/02, the principal work activities in this reporting month included:
 - Repairing of door hinge in the New Public Toile



- Modification work of PTI at Expo Drive East.
- Modification work of bus station at Expo Drive East near EVA
- Reinstatement at Tonnochy Road Harbour Road junction
- Modification work of P7, P8 and P9 Cooling water pumping station
- Cooling mains installation at west of Gate 1 inside ex-pet garden
- FS inspection of WSD Pumping Station
- E&M works at WSD Salt Water Pumping Station
- Modification work of EVA at WSD Pumping Station
- Stripping formwork and application of cement mortar for the tie bolt holes inside salt water intake culvert Bay 19b ~ Bay 24
- Concreting for box-out of access chamber at Bay19b
- Concreting of the base slab at salt water intake culvert Bay 19a and steel fixing of the wall and top slab
- Remedial work of wall and top slab of salt water intake A and B was completed
- Concreting of base slab at salt water intake culvert jacking pit at WCR1
- Welding for the 2nd layer waling at salt water intake culvert Bay 9 to Bay 11 at WCR1
- Concreting of wall and top slab of Bay 8 in salt water intake landside cofferdam
- Concreting of pile caps and wall together with top slab of Bay 6 in salt water intake landside cofferdam
- Concreting of base slab of Bay 1 and Bay 2 in salt water intake seaside cofferdam
- Cavity grouting between the HDPE Pipes B and Concrete Sleeve Pipes at TBM Jacking Pit
- Breaking the extra cement grout at deformed area for removal of HDPE Pipe A from tunnel and the re-splicing work.
- Laying HDPE pipe A and pipe B at temporary steel bridge
- Vertical bend installation of HDPE pipe A & pipe B and connection to short pipe
- Concreting the wall and top slab of box culvert N1 Bay 1 on UU bridge
- Concreting the Inspection Manhole IM-03 & IM-04 at box culvert N1 Bay 2 and desilting opening DO-01 & DO-02
- Concreting the pile caps of Bay 4 and Bay 5 of box culvert N1, backfill the area with concrete outside the caps
- 2.4.6. For Contract no. HY/2009/15, the principal work activities in this reporting month included:
 - TZ1 reclamation works
 - Dredging for seawall foundation at TS2
 - Seawall trench works at TS2
- 2.4.7. For Contract no. HK/2010/06, the principal work activities in this reporting month included:
 - Pile head breaking



Lam Geotechnics Limited

- Sonic tube trimming
- 2.4.8. For Contract no. HY/2009/19, the principal work activity in this reporting month included:
 - Marine bored piling
 - Construction works for Box Culvert T
 - Construction of 1500¢ drainage pipe
- 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 HKCEC</u>

Marine Works

- Fabrication of precast concrete caisson seawalls, precast box culvert (Bay 10) and precast discharge outfall in precasting yard at Guangdong, China and anticipated to be delivered to Site. Installation of the precast units
- Dredging works for Type 2 sediment underneath Expo Drive East Bridge
- Dredging works between CH290 and CH370 at east of HKCEC near Wan Chai west ferry pier
- Grouting works and tie back system for construction of pipe pile wall near Expo Drive East. Removal of seawall at Expo Drive East
- Rockfilling at east of HKCEC near Expo Drive East
- Trust block construction at TST landfall
- Rockfilling and rock armour protection works to cross-harbour watermains
- Reinstatement works at TST seashore including removal of silt screen and demobilization of jack-up barge
- Fresh water flushing, final cleaning and sterilizatioin for cross-harbour watermains CHA, CHB, CHE & CHF
- Installation of Impressed Current Cathodic Protection (ICCP) system to CHA and CHB

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

Works would be continued at Zone B1-5A, B2-1, B5-1(Switch Room), B5- 3(Switch Room), A1-1, A1-2, A2-2, A1-4(CHWM), A2-3D, A3-2A, A3-4B, run-out of Renaissance Hotel and C1-10



- Mainlaying works at Zone C1-10 and run-out of Renaissance Hotel
- Reinstatement works at Zone B1-5A and B2-1
- Mainlaying works at Zone B3-1
- Mainlaying works at Convention Avenue in Zone A1-1 and A1-2 and the next TTA workfront at Zone A1-2 (CHWM)
- Mainlaying works and grouting works at jacking pit in Zone A1-3A & A1-4A of Convention Avenue would be resumed upon completion of pressure test for intake and discharge pipeline of SOC and HKAPA.
- Mainlaying works at traffic island near junction between Convention Avenue and Fenwick Pier Street
- Pipe laying works for Heading no. H1
- Mainlaying works at Zone A3-4B and the works at Zone A3-4A & A3-5A would be subsequently commenced concurrently after the Zone A3-4B had been completed reinstated and reopened to public.
- Pipe laying works for cross harbour watermains across HKCEC water channel
- Pressure test for the 9 nos. cooling watermains
- E&M Works
 - Electrical works in Cooling Water Pumping Stations P5
 - Initial commissioning for Cooling Water Pumping Stations P5
 - Major cabling works from existing LV Switch-board Room to Cooling Water Pumping Stations P5
 - Power energization for Cooling Water Pumping Stations P5
 - Full commissioning for Cooling Water Pumping Stations P1
 - Full commissioning for Cooling Water Pumping Stations P3, P4 & P5

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

- Complete PTI modification works after completion of New Public Toilet in East Island
 at Expo Drive East.
- Complete all cooling mains and cabling works for P7, P8 & P9 Pumping Stations permanent power-on and signal control.
- Continue 800MS pipe installation inside Ex-pet Garden.
- Complete modification work of EVA & Vehicle access at WSD Pumping Station
- Complete the finishing works of WSD Salt Water Pumping Station.
- Continue construction of Bay 1b 2, Bay 6 8 salt water intake culverts at WCR1 area.
- Complete ELS of the salt water intake culverts Bay 9 11 to formation level at WCR1 area and commence culvert works.
- Continue salt water intake culvert at transition bays inside jacking pit and receiving pit.



- Continue remaining drainage works and reinstatement works along Wan Shing Street.
- Complete HDPE piping inside outfall seaside cofferdam.
- Continue construction for Box Culvert N1 at WCR1 area.
- Continue concreting works for the Mezzanine Level at the New Ferry Pier.
- Commence seawall strengthening works at WCR2 area.

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

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

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

- Pile head breaking
- Platform Disassembly
- Sonic tube trimming
- Dredging

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

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



3. Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

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

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

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	17 Aug 2009	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	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
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Valid

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

Contract no. 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.
- 3.1.6. The Contractor HY/2009/11 had been submitted the surrender of Further Environmental Permit (FEP-01/356/2009) to EPD on 24 October 2012

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
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>

3.1.7. 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-RE0174-12	5 Mar 2012	30 Mar 2012 to 29 Sep 2012	Expired	
	GW-RS0356-12	03 Apr 2012	11 Apr 2012 to 29 Sep 2012	Expired	
	GW-RS0394-12	16 Apr 2012	19 Apr 2012 to 12 Oct 2012	Expired	
	GW-RS0460-12	10 May 2012	13 May 2012 to 6 Nov 2012	Valid	
	GW-RS0514-12	14 May 2012	27 May 2012 to 26 Nov 2012	Valid	
	GW-RS0855-12	16 Aug 2012	17 Aug 2012 to 9 Feb 2013	Valid	
	GW-RS0862-12	20 Aug 2012	28 Aug 2012 to 27 Feb 2013	Valid	
	GW-RS0949-12	12 Sep 2012	16 Sep 2012 to 15 Mar 2013	Valid	
	GW-RS0545-12	24 May 2012	26 May 2012 to 25 Nov 2012	Valid	
	GW-RS0546-12	25 May 2012	26 May 2012 to 25 Nov 2012	Valid	



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0760-12	18 Jul 2012	20 Jul 2012 to 19 Jan 2013	Valid
	GW-RS0806-12	3 Aug 2012	4 Aug 2012 to 03 Feb 2013	Valid
	GW-RS0823-12	3 Aug 2012	3 Aug 2012 to 02 Feb 2013	Valid
	GW-RS0852-12	16 Aug 2012	16 Aug 2012 to 01 Feb 2013	Valid
	GW-RS0994-12	25 Sep 2012	25 Sep 2012 to 19 Nov 2012	Valid
	GW-RS1011-12	26 Sep 2012	30 Sep 2012 to 29 Mar 2013	Valid
	GW-RS1017-12	27 Sep 2012	30 Sep 2012 to 24 Mar 2013	Valid
	GW-RE0793-12	21 Sep 2012	30 Sep 2012 to 29 Mar 2013	Valid
	GW-RS1040-12	8 Oct 2012	13 Oct 2012 to 12 Apr 2013	Valid
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/13-004	23 May 2012	24 May 2012 to 23 Nov 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/13-062	9 Oct 2012	10 Oct 2012 to 9 Nov 2012	Valid
Permit for Dumping at Sea - Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	EP/MD/13-061	4 Sep 2012	17 Sep 2012 to 16 Oct 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. 5)	24 Aug 2012
Condition 2.8	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
Condition 2.9	Silt Screen Deployment Plan	19 Apr 2010
	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>

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0671-12	25 June 2012	17 Jul 2012 to 16 Jan 2013	Valid
	GW-RS0730-12	9 July 2012	10 Jul 2012 to 8 Jan 2013	Valid
	GW-RS0736-12	9 July 2012	9 Jul 2012 to 8 Jan 2013	Valid
	GW-RE0283-12	5 Apr 2012	1 May 2012 to 30 Nov 2012	Valid
	GW-RS0739-12	9 July 2012	1 Aug 2012 to 31 Jan 2013	Valid
	GW-RS1038-12	10 Oct 2012	10 Oct 2012 to 9 Apr 2013	Valid
	GW-RS1069-12	17 Oct 2012	19 Oct 2012 to 18 Apr 2013	Valid
	GW-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	Expired
	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	Cancelled



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0423-12	30 Apr 2012	19 May 2012 to 18 Nov 2012	Cancelled
	GW-RS0427-12	30 Apr 2012	23 May 2012 to 22 Nov 2012	Valid
	GW-RS0533-12	21 May 2012	21 May 2012 to 10 Nov 2012	Valid
	GW-RS0550-12	25 May 2012	7 June 2012 to 6 Dec 2012	Valid
	GW-RS0611-12	14 June 2012	15 Jun 2012 to 28 Nov 2012	Valid
	GW-RS0633-12	13 June 2012	16 Jun 2012 to 14 Dec 2012	Valid
	GW-RS0814-12	3 Aug 2012	6 Aug 2012 to 5 Dec 2012	Valid
	GW-RS0850-12	10 Aug 2012	14 Aug 2012 to 13 Feb 2013	Valid
	GW-RS0870-12	21 Aug 2012	16 Sept 2012 to 31 Dec 2012	Valid
	GW-RS0996-12	25 Sept 2012	26 Sept 2012 to 25 Mar 2013	Valid
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Cancelled
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
	WT00009691-2011	1 Aug 2011	31 July 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3 593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3 593-02	22 Sep 2010	N/A	Valid
Dumping Permit (Type 1 – 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 Sites) & Type 2 – Confined Marine disposal)	EP/MD/13-077	28 Sept 2012	6 Oct 2012 to 5 Nov 2012	Valid
	EP/MD/13-058	29 Aug 2012	6 Sep 2012 to 5 Oct 2012	Expired

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

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010



EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
Condition 2.8	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
Condition 2.6	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	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
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
0	Landscape Plan (Control of Night Time Lighting)	2 June 2010
Condition 2.18	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
	FEP-01/416/2011	11 Nov 2011	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for Filling and Diaphragm Wall Works at TS4/ME4	GW-RS0924-12	31 Aug 2012	01 Sep 2012 to 28 Feb 2013	Valid
Construction Noise Permit (CNP) for bored pile construction at Eastern Breakwater of CBTS	GW-RS1009-12	03 Oct 2012	03 Oct 2012 to 25 Mar 2013	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0343-12	12 Apr 2012	13 Apr 2012 to 8 Oct 2012	Expired
Construction Noise Permit (CNP) for Removal Works at TS1	GW-RS0607-12	12 Jun 2012	13 Jun 2012 to 7 Dec 2012	Valid
Construction Noise Permit (CNP) for Dredging at TS2	GW-RS1023-12	05 Oct 2012	09 Oct 2012 to 25 Mar 2013	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C116 9-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	27 Sep 2010 to 27 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	03 Oct 2012	17 Oct 2012 to 16 Jan 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/13-018	6 Jun 2012	6 Jun 2012 to 5 Dec 2012	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) &	EP/MD/13-076	28 Sep 2012	8 Oct 2012 to 7 Nov 2012	Valid
Type 2 – Confined Marine disposal)	EP/MD/13-059	31 Aug 2012	8 Sep 2012 to 7 Oct 2012	Expired

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
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010



FEP Condition	Submission	Date of Submission
	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
Condition 2.23	Amendment for Noise Management Plan	27 Jan 2011

3.1.10. Implementation status of the recommended mitigation measures during this reporting period is presented in <u>Appendix 3.1.</u>

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

3.1.11. 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
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	N/A	Valid
	FEP-08/364//2009/A	15 June 2012	N/A	Valid
Notification of Works Under APCO	326344	18 Jan 2011	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0012-12	18 June 2012	6 Jul 2012 to 5 Jan 2013	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0989-12	21 Sept 2012	6 Oct 2012 to 5 Apr 2013	Valid
	GW-RS0313-12	27 Mar 2012	6 Apr to 5 Oct 2012	Expired
	GW-RS0658-12	21 June 2012	13 Jul 2012 to 12 Jan 2013	Valid
	GW-RS0923-12	31 Aug 2012	15 Oct 2012 to 15 Apr 2013	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G25 33-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 November 2011	31 July 2016	Valid`

an

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	
	Revised Silt Curtain Deployment Plan	22 Oct 2012	
Condition 2.9	Silt Screen Deployment Plan	11 April 2011	
Condition 2.23	Noise Management Plan	11 March 2011	
ontract no. HY/2009/19 - Central- Wan Chai Bypass Tunnel (North Point Section) and Island			
Eastern Corridor Li	ink_		

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

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

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Granted	Valid
Notification of Works Under APCO	326160	24 Jan 2011	Notified	Valid
Construction Noise Permit (CNP) (For D-wall construction) (Portion I, VII, VIII & IX)	GW-RS0871-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0507-12	22-May-12	23-Nov-12	Cancelled
Construction Noise Permit (CNP) (For Bored pile construction at Portion III, V)	GW-RS0885-12	27-Aug-12	26-Feb-13	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0589-12	18-Jun-12	17-Dec-12	Valid
Construction Noise Permit (CNP) (For IEC)	GW-RS0953-12	17-Sep-12	20-Mar-13	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS1065-12	16-Oct-12	20-Apr-13	Valid



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
Registration as a Waste Producer	7012306	21 Jan 2011	Registered	-
C&D Waste Disposal	7012306	10 Feb 2011	Registered	-
Vessel Disposal	7013285	21 July 2011	Registered	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	Registered	-
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/12-150	14-May-12	14-Nov-12	Valid
Dumping Permit (Type 2 – Confined Marine Disposal)	EP/MD/13-063	17 Sep 2012	16 Oct 2012	Expired



4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

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

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.
- 4.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.

Table 4.2 Real Time Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.4. 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.



- 4.1.5. 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.
- 4.1.6. 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

- 4.1.7. 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.
- 4.1.8. 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 *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 4.2.15. The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
 - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
 - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
 - 3 Strong Identifiable, likely to have odour nuisance;



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

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.

n		-
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).



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 since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension

4.3.27. The propose	d DO monitoring stations of the Project are shown in <i>Table 4.7</i> and <i>Figure 4.1</i> .
Table 4.7	Marine Water Quality Stations for Additional DO Monitoring

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

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



5. Monitoring Results

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in *Figure 2.1* and *Figure 4.1*. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. 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*.

<u>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</u>

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 <u>Appendix 5.2</u>

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

5.1.11. One limit level exceedance was recorded at M6 on 16 October 2012 in this reporting month. Details of noise monitoring results and graphical presentation can be referred in *Appendix 5.2*

5.2 Real-time Noise Monitoring

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

- 5.2.1 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 5.2.2 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 and the FEP-01/356/2009 was under application of surrender in this reporting period.
- 5.2.3 Exceedances were recorded between 2100 and 2130 hours on 1 Oct 2012 at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre throughout the reporting month. Investigations found that the major noise impacts from 2100 to 2130 hours were arising from the display of pyrotechnics on 1 Oct 2012. In addition, there was no construction activity commenced in these two periods. As such, the exceedances were concluded as not project related.
- 5.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot commenced external wall renovation since 1 June 2012

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

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

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

RTN2 had been relocated to RTN2a since 5 Oct 2012

^{5.2.5} Details of real time noise monitoring results and graphical presentation can be referred to *Appendix 5.5.*



5.3 Air Monitoring Results

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

CMA2a: from 22 October 2012 to 24 October 2012 CMA4a: from 29 September 2012 to 3 October 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 2011and 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.

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

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

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 5.8	Air Monitoring Station for Contract no. HK/2009/02
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Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</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 Cont	ract no. HY/2009/19
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Station	Description
CMA1b	Oil St Community Liaison Centre
CMA2a	Causeway Bay Community Centre

5.4 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 Int	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	ke								
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.



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

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.

Station Ref.	Location	Easting	Northing
WSD Salt Water	Intake		
WSD7	Kowloon South	834150.0	818300.3
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
Cooling Water I	ntake		
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Great Eagle Centre	835932.8	815888.2
C4w	Wan Chai Tower	835629.8	815889.2

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

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.

			00/0 2
Station Ref.	Location	Easting	Northing
WSD Salt Water In	take		
WSD21	Wan Chai	836220.8	815940.1
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
Cooling Water Inta	ike		
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
Pomarks:	÷	-	-

 Table 5.13
 Water 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. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 5.4.15. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations are summarized in *Table 5.15* below.

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

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

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

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

5.4.16. 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 5.16Water Monitoring Stations for Contract no. HY/2009/19

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

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



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- 5.4.17. 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.
- 5.4.18. 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.
- 5.4.19. 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.
- 5.4.20. 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.
- 5.4.21. 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>.

	Water	Mid-flood				Mid-ebb							
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/11	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
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	4	0	3	0	0	2	2	0	2
	C1	1	0	0	0	0	0	0	0	0	0	0	0
	C3	4	0	0	0	1	0	0	0	0	0	0	0
	C4e	1	0	0	0	0	0	1	0	0	0	0	0
	C4w	2	1	0	0	0	0	3	0	0	0	0	0
Monitoring finished on 27 April 2012	WSD20	0	0	0	0	0	0	0	0	0	0	0	0

Table 5.17	Summary of Water Quality Monitoring Exceedances in Reporting Month
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	Water	Mater Mid-flood						Mid-ebb						
Contract no.	Monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S	
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	
	WSD7	0	0	0	0	0	0	0	0	0	0	0	0	
HK/2009/01 & HK/2010/06	C2	0	0	0	0	1	0	0	0	0	0	0	0	
HK/2009/02	C5e	0	0	0	2	0	1	0	0	0	2	1	1	
	C5w	0	0	1	1	0	1	0	0	0	3	0	2	
Monitoring started on	WSD21	4	2	0	0	3	1	3	1	1	0	0	0	
8 Feb 2012	WSD9	0	0	0	0	1	0	0	0	0	0	0	0	
	WSD17	0	0	1	7	0	5	0	0	0	1	0	1	
HY/2009/15	C7	1	1	0	0	0	0	2	0	0	0	0	0	
HY/2009/19	C8	0	0	3	4	1	0	0	0	1	1	0	0	
Monitoring started on 28 Jan 2012	C9	0	0	4	2	2	1	0	0	2	0	0	0	
Total	•	13	4	9	20	9	12	9	1	6	9	1	6	

- 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
- 5.4.22. Investigations were found that three turbidity and two SS project related exceedances recorded at C5e on 13, 15 and 25 Oct 2012. In addition, three turbidity and three SS project related exceedances were recorded at C5w on 13, 15 and 20 Oct 2012. The details of the recorded exceedances can be referred to the Section 6.4.
- 5.4.23. 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*.

		Mid-f	lood	Mid	-ebb
Contract no.	Water Monitoring Station	DO		DO	
		AL	LL	AL	LL
	C6	1	0	0	0
HY/2009/15	C7	3	2	1	1
	Ex-WPCWA SW	1	8	1	9
	Ex-WPCWA SE	4	6	3	7

Total

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

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- 5.4.24. There were 14 action level exceedances and 33 limit level exceedances recorded in enhanced dissolved oxygen monitoring in this reporting period.
- 5.4.25. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation phase II and the HKCEC extension could be continuously monitored. Details of additional DO monitoring results can be referred in <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. No Inert C&D waste was disposed and non- inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in *Table 5.19.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	22245.415	ТКО137, ТМ38
Inert C&D materials recycled, m ³	105	5104.5	N/A
Non-inert C&D materials disposed, m ³	32.76	1049.7	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	250	8050	N/A
*Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (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	767 (Bulk Volume)	43785 (Bulk Volume)	East of Cha Chau

 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
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	1160 (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

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

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</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	12932.4	213739.4	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	40	649	SENT Landfill
Non-inert C&D materials recycled, m ³	NIL	NIL	N/A
Chemical waste disposed, kg	0	5521	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 Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	Nil	114464 (Bulk volume)	East of Sha Chau

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed,	NIL	141579.2	Tuen Mun Area 38



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
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	NIL	97,857 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	NIL	207,285 (Bulk Volume)	East of Sha Chau
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	7,050 (Bulk Volume)	East of Sha Chau

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

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

5.5.6. Non-inert C&D waste was disposed and Inert C&D waste was recycled in this reporting month. Details of the waste flow table are summarized in *Table 5.22.*

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	0	11366.23	TM38
Inert C&D materials recycled, m ³	45	311.8	N/A
Non-inert C&D materials disposed, m ³	2.39	2.39	N/A
Non-inert C&D materials recycled, kg	0	1374.5	N/A
Chemical waste disposed, L	0	600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0 (Bulk Volume)	3,694 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	0 (Bulk Volume)	12,297 (Bulk Volume)	East Sha Chau

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



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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	20134.29	75719.06	TM38
Inert C&D materials recycled, m ³	1128	1128	N/A
Non-inert C&D materials disposed, m ³	27.39	112.21	N/A
Non-inert C&D materials recycled, kg	104.64	104.64	N/A
Chemical waste disposed, L	NIL	0.29	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	0	83	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	0	482	East Sha Chau

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

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



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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 One limit level exceedances were recorded at M6 – HK Baptist Church Henrietta Secondary School on 16 October 2012 in the reporting month. Investigations found that major traffic noise was contributed in the noise monitoring and not related to the Project.

6.2 Real-time noise Monitoring

6.2.1 Exceedances were recorded between 2100 and 2130 hours on 1 Oct 2012 at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre throughout the reporting month. Investigations found that the major noise impacts from 2100 to 2130 hours were arising from the display of pyrotechnics on 1 Oct 2012. In addition, there was no construction activity commenced in these two periods. As such, the exceedances were concluded as not project related.

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.



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

- 6.4.2 There were occasionally DO exceedances recorded at C1, C3, C4e and C4w in this reporting month. No odour nuisance was noted during DO monitoring. Confirmed with Contractor, there was no work conducted during the water quality monitoring. The exceedances were possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.3 Turbidity and SS exceedances at WSD19 were occasionally recorded in this reporting month. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedances were possible in relation to the changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.4 SS exceedance at C2 was recorded on 25 October 2012. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 25 Oct 2012, pile head breaking under HK/2010/06 and filling at HKCEC water channel under HK/2009/01 were conducted on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedance was possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

- 6.4.5 There were turbidity and SS exceedances recorded at C5w on 8 Oct 2012 during ebb tide. Checking with Contractor's work, no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day. The exceedance was considered as trapping of unknown particles inside the silt screen. The contractor was reminded water quality near to the intake should be provided with sufficient protection. The exceedance was considered not project related.
- 6.4.6 There were turbidity and SS exceedances recorded at C5e and C5w on 13 and 15 Oct 2012 during ebb tide. Muddy water quality appearance inside and outside silt screen were observed during monitoring. Checking with Contractor's work, rockfilling near temporary seawall at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain for rockfilling were in proper condition on that day. Although the Contractor's records have shown a well maintained silt curtain and silt screen, muddy water was still observed around the intake during monitoring. The turbidity and SS concentration has returned to below the Action Level after stopping of filling works during the flood tide. This shows possible defects at the silt curtain and that protection around the intake is inadequate to protect the sensitive receiver during the filling activities.
- 6.4.7 There were turbidity exceedances recorded at C5e and C5w on 17 Oct 2012 during flood tide. Checking with Contractor's work, rockfilling in WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain for rockfilling were in proper condition on that day. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.



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- 6.4.8 There were turbidity and SS exceedances recorded at C5w on 20 October 2012 during flood tide. Silty water was observed discharging from water pipe into Well B during monitoring. 21.65 NTU turbidity was recorded outside the silt screen. Contractor immediately removed the pipe from Well B. ET reminded Contractor should ensure the water pumping into Well for cooling purpose should not deteriorate the water quality of intake. No further exceedance was recorded in the next consecutive water monitoring on 22 Oct. The turbidity and SS concentration has returned to below the Action Level after removal of water pipe.
- 6.4.9 There were turbidity and SS exceedances recorded at C5e on 25 October 2012 during flood tide. Muddy dispersion into the Well as a result of the rockfilling in WCR2 was observed during inspection walk on 25 Oct. ET recommended that gaps at temporary sheet pile at Well B should be sealed up and the turbid water inside well should be treated to improve the water quality in the well. Daily water quality monitoring at C5e was conducted on 26 Oct 12 under Event and Action Plan. The turbidity of C5e was 7.38 NTU on 26 Oct 12 which is below Action level. The turbidity and SS concentration has returned to below the Action Level after the improvement of condition of temporary sheet pile at Well.
- 6.4.10 There were occasionally DO, turbidity and SS exceedances recorded at WSD21 in this reporting month. Checking with Contractor's work, rockfilling in WCR2 was conducted on those days. Checking with contractor's inspection record, the silt screen and silt curtain for rockfilling were in proper condition on that day. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.11 There was SS exceedance at mid-flood recorded at WSD21 on 15 October 2012. Confirmed with Contractor, Checking with Contractor's work, rockfilling in WCR2 was conducted on those days. Checking with contractor's inspection record, the silt screen and silt curtain for rockfilling were in proper condition on that day. The exceedance was possibly due to cleaning of screen panels at WSD intake. Materials from the cleaning of screen panels were unavoidably collected during monitoring. The exceedance was considered as not project related.
- 6.4.12 There were DO exceedances recorded at WSD21 on 4, 6 and 10 October 2012 in this reporting month. No odour nuisance was noted during DO monitoring. Confirmed with Contractor, there was no work conducted during the water quality monitoring. The exceedance was considered as natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.13 There were occasionally turbidity and SS exceedances recorded at WSD17 and WSD9 in this reporting month. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedance was possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.14 There were turbidity and SS exceedances recorded at WSD17 on 28 September 2012 and 2 October 2012. Checking with contractor's record, cleaning screen panel at Quarry Bay WSD intake was conducted on these days. The exceedances were possibly due to cleaning of screen panels at the WSD intake. Material from the cleaning of screen panels was avoidably collected during monitoring. The exceedance was considered as not project related.



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

- 6.4.15 There were occasionally DO exceedances recorded at C6 and C7 in this reporting month. After checking with the Contractor's works, the deployed silt curtain was in proper condition for TS2 seawall construction. The exceedances were possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.
- 6.4.16 There were occasionally DO exceedances at Ex-WPCWA SE and Ex-WPCWA SW recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at ex-WPCWA. The exceedances were possible in relation to the accumulation of organic particles discharge from culvert near monitoring station and considered not related to the Projects works.

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

6.4.17 SS exceedance at C2 was recorded on 25 October 2012. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 25 Oct 2012, pile head breaking under HK/2010/06 and filling at HKCEC water channel under HK/2009/01 were conducted on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below Action Level and the silt screen was in proper condition, the exceedance was possible in relation to the natural variation or changes of water quality in the vicinity of the water quality monitoring station and not project related.

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

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

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

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

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

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



7. Cumulative Construction Impact due to the Concurrent Projects

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Monthly EM&A report (September 2012) of Central Reclamation Phase III (CRIII), filling works, building construction works and pipe works were performed in the October 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 while the adverse water impact was only located in the WCR2 in relation to the rock filling operation causing exceedances in WCR2 in this reporting month. Thus, it was unlikely to have cumulative impact from CRIII. It is evaluated the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. 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 3, 10, 18 and 24 October 2012 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

ltem	Date	Observations	Action taken by Contractor	Outcome
121003_01	3-Oct-12	The oil stain was observed on the ground which should be removed and disposed as chemical waste. (VIP area)	The oil stain was removed	Completion as observed on 10-Oct-12
121010_01	10-Oct-12	Drip tray should be provided for oil drums (Grand Hyatt)	The oil drums were removed.	Completion as observed on 18-Oct-12
121010_02	10-Oct-12	Existing trees to be retained on site shall be carefully protected during construction (Pumping station, C1 site office)	materials were	Completion as observed on 18-Oct-12
121018_01	18-Oct-12	5 5	removed.	Completion as observed on 24-Oct-12
121024_01	24-Oct-12	The oil stain was observed on ground which should be removed and disposed as chemical waste (Near to Grand Hyatt)	The oil stain was removed	Completion as observed on 31-Oct-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 4, 11, 17 and 25 October 2012 during this reporting period. The results of these inspections and outcomes are summarized in *Table 8.2*.

Table 8.2 Sur	mmary of Environmental Inspections for Contract no. HK/2009/02
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ltem	Date	Observations	Action taken by Contractor	Outcome
121004_02	4-Oct-12	Drip tray should be provided for oil drums (WCR1)	The oil drums were removed.	Completion as observed on 11-Oct-12
121011_01	11-Oct-12	·	The dust in the road was removed.	Completion as observed on 17-Oct-12
121011_02	11-Oct-12	51	The existing trees were carefully protected.	Completion as observed on 17-Oct-12
121017_01	17-Oct-12	Measure should be taken to prevent mud and dusty	The wheel washing facilities	Completion as observed on



ltem	Date	Observations	Action taken by Contractor	Outcome
		materials from vehicles is deposited on roads (Old gate 2, Ex-helipad)	was provided in the exit of vehicular site.	25-Oct-12
121017_02	17-Oct-12	Dark smoke emission from generator was observed. The maintenance of generator should be provided to avoid dark smoke emission. (WCR1)	The generator was removed.	Completion as observed on 25-Oct-12
121017_03	17-Oct-12	Existing tree (T0031) to be retained on site should be protected during construction (Opposite to WSD pumping station)	The tree T0031 was protected during construction.	Completion as observed on 25-Oct-12
121025_01	25-Oct-12		The silt curtain and geotextile were provided along the temporary seawall.	Completion as observed on 1-Nov-12
121025_02	25-Oct-12	Tree protection fence should be provided for retained tree during construction.(Opposite to WSD pumping station)	The tree protection fence was provided.	Completion as observed on 1-Nov-12

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 3, 9, 16 and 24 October 2012 in reporting month. The results of these inspections and outcomes are summarized in *Table 8.3*.

ltem	Date	Observations	Action taken by Contractor	Outcome
121003_01	3-Oct-12	Chemical drums were observed to be without drip tray at several locations, the contractor should provide adequate measures and storage area for chemical drums. (TPCWAE, TS4)	chemical drums.	observed on
121009_01	9-Oct-12	The oil leakage was observed on ground which should be cleaned and removed as chemical waste(TS1 and TS4)	removed as	Completion as observed on 16-Oct-12
121009_02	9-Oct-12	Cares should be taken to prevent the mud trail occur on the public road (Gate of TS4, outside POC)	was removed.	Completion as observed on 16-Oct-12
121009_03	9-Oct-12	Muddy water was observed around the public gully, preventive action should be provided to avoid the illegal discharge. (Gate of TS4, outside POC)	was removed.	Completion as observed on 16-Oct-12
121016_01	16-Oct-12	Three sides and top cover enclosure should be provided for grouting work (TS4, TPCWAE)	provided for	Completion as observed on 24-Oct-12

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



ltem	Date	Observations	Action taken by Contractor	Outcome
121016_02	16-Oct-12	The condition of silt curtain should be improved (northern TPCWAE)		observed on
121016_03	16-Oct-12	Drip tray shall be proivded for chemical containers and holes should be plugged to avoid leakage. (TPCWAE, TS4)	provided for	observed on
121016_04	16-Oct-12	Ventilation at grouting plants should be improved to avoid dust generation outside covered area. (TS4, near nothern treatment plant)	were maintained to avoid gaps and	observed on
121024_01	24-Oct-12	Proper cover and filtration system for grouting facilities to ensure proper dust control. (TS4, TPCWAE)	placed to enclose	observed on 30
121024_02	24-Oct-12	Proper storage facilities and drip trays should be provided for chemicals and oil drums (Eastern Breakwater, TS4)	drums were	observed on 30

8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 3, 8, 18 and 22 October 2012 in reporting month. The results of these inspections and outcomes are summarized in Table 8.4.

ltem	Date	Observations	Action taken by Contractor	Outcome
121003_01	3-Oct-12	The oil stain was observed on the ground which should be removed and disposed as chemical waste.(2w)	removed as	Completion as observed on 8-Oct-12
121018_01	18-Oct-12	The silt accumulated in u-channel should be cleaned more regularly (2e)	accumulated in	Completion as observed on 18-Oct-12

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



8.0.6. Four site inspections for Contract no. HY/2009/19 were carried out on 3, 10, 17 and 24 October 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
121010_01	10-Oct-12	5	Oil leakage and oil drums were removed.	Completion as observed on 17-Oct-12
121017_01			provided for	Completion as observed on 24-Oct-12



9. Complaints, Notification of Summons and Prosecution

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

Table 9.1 Cumulative Statistics on Complaints

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

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



10. Conclusion

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.
- 10.0.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 10.0.4. 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;
- 10.0.5. 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.
- 10.0.6. 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.
- 10.0.7. 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.
- 10.0.8. 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.
- 10.0.9. 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.



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

Table 10.1	Construction Activities and Recommended Mitigation Measures in Coming
Reporting M	lonth

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



Contract No.	Key Construction Works	Recommended Mitigation Measures
	CHB, CHE & CHF	
	Installation of Impressed Current	
	Cathodic Protection (ICCP)	
	system to CHA and CHB	
	Fresh Watermains, Cooling	
	Watermains and Salt Watermains	
	(On Land)	
	Works would be continued at	
	Zone B1-5A, B2-1, B5-1(Switch	
	Room), B5- 3(Switch Room),	
	A1-1, A1-2, A2-2, A1-4(CHWM),	
	A2-3D, A3-2A, A3-4B, run-out of	
	Renaissance Hotel and C1-10	
	Mainlaying works at Zone C1-10	
	and run-out of Renaissance	
	Hotel	
	Reinstatement works at Zone	
	B1-5A and B2-1	
	Mainlaying works at Zone B3-1	
	Mainlaying works at Convention	
	Avenue in Zone A1-1 and A1-2	
	and the next TTA workfront at	
	Zone A1-2 (CHWM)	
	Mainlaying works and grouting	
	works at jacking pit in Zone	
	A1-3A & A1-4A of Convention	
	Avenue would be resumed upon	
	completion of pressure test for	
	intake and discharge pipeline of	
	SOC and HKAPA.	
	Mainlaying works at traffic island	
	near junction between	
	Convention Avenue and Fenwick	
	Pier Street	
	Pipe laying works for Heading	
	no. H1	
	Mainlaying works at Zone A3-4B	



Contract No.	Key Construction Works	Recommended Mitigation Measures
	and the works at Zone A3-4A &	
	A3-5A would be subsequently	
	commenced concurrently after	
	the Zone A3-4B had been	
	completed reinstated and	
	reopened to public.	
	Pipe laying works for cross	
	harbour watermains across	
	HKCEC water channel	
	• Pressure test for the 9 nos.	
	cooling watermains	
	E&M Works	
	Electrical works in Cooling Water	
	Pumping Stations P5	
	Initial commissioning for Cooling	
	Water Pumping Stations P5	
	 Major cabling works from existing 	
	LV Switch-board Room to	
	Cooling Water Pumping Stations	
	P5	
	Power energization for Cooling	
	Water Pumping Stations P5	
	Full commissioning for Cooling	
	Water Pumping Stations P1	
	Full commissioning for Cooling	
	Water Pumping Stations P3, P4	
	& P5	
	Complete PTI modification works	To so well a bot motorial as
HK/2009/02	after completion of New Public	 To cover the dusty material or stockpile by impervious sheet;
	Toilet in East Island at Expo	• Frequency spray water on the dry
	Drive East.	dusty road and on the surface of
		concrete breakingTo well maintain the mechanical
	 Complete all cooling mains and cabling works for P7, P8 & P9 	equipments / machineries to avoid
	-	abnormal noise nuisance and dark smoke emission
	Pumping Stations permanent	 To conform the installation and
	power-on and signal control.	setting as in the silt screen and silt
	Continue 800MS pipe installation inside Ex pet Corden	curtain deployment plan
	inside Ex-pet Garden.	Movable noise barrier shall be deployed for demolition works



Contract No.	Key Construction Works	Recommended Mitigation Measures
	 Complete modification work of EVA & Vehicle access at WSD Pumping Station Complete the finishing works of WSD Salt Water Pumping Station. Continue construction of Bay 1b – 2, Bay 6 – 8 salt water intake culverts at WCR1 area. Complete ELS of the salt water intake culverts Bay 9 – 11 to formation level at WCR1 area and commence culvert works. Continue salt water intake culvert at transition bays inside jacking pit and receiving pit. Continue remaining drainage works and reinstatement works along Wan Shing Street. Complete HDPE piping inside outfall seaside cofferdam. Continue construction for Box Culvert N1 at WCR1 area. Continue concreting works for the Mezzanine Level at the New Ferry Pier. Commence seawall strengthening works at WCR2 area. 	 Daily visual inspection of silt screen and silt curtain to ensure its operation properly Review silt screen deployment and resubmit associate plans to EPD Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HY/2009/15	 Formation of temporary seawall at TS2 TZ1 and TS2 reclamation works 	 Watering any dust generating activities Checking all drip trays frequently and clear any stagnant water and mud inside it. Noise control measures shall be provided during restricted hours.

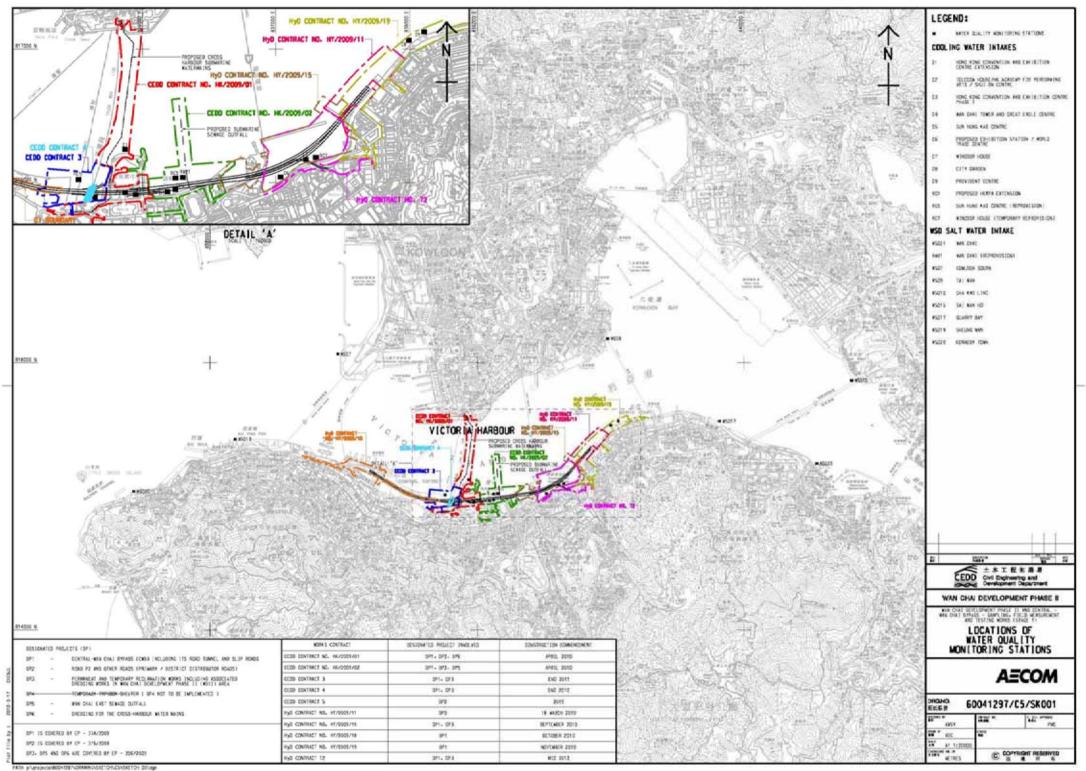


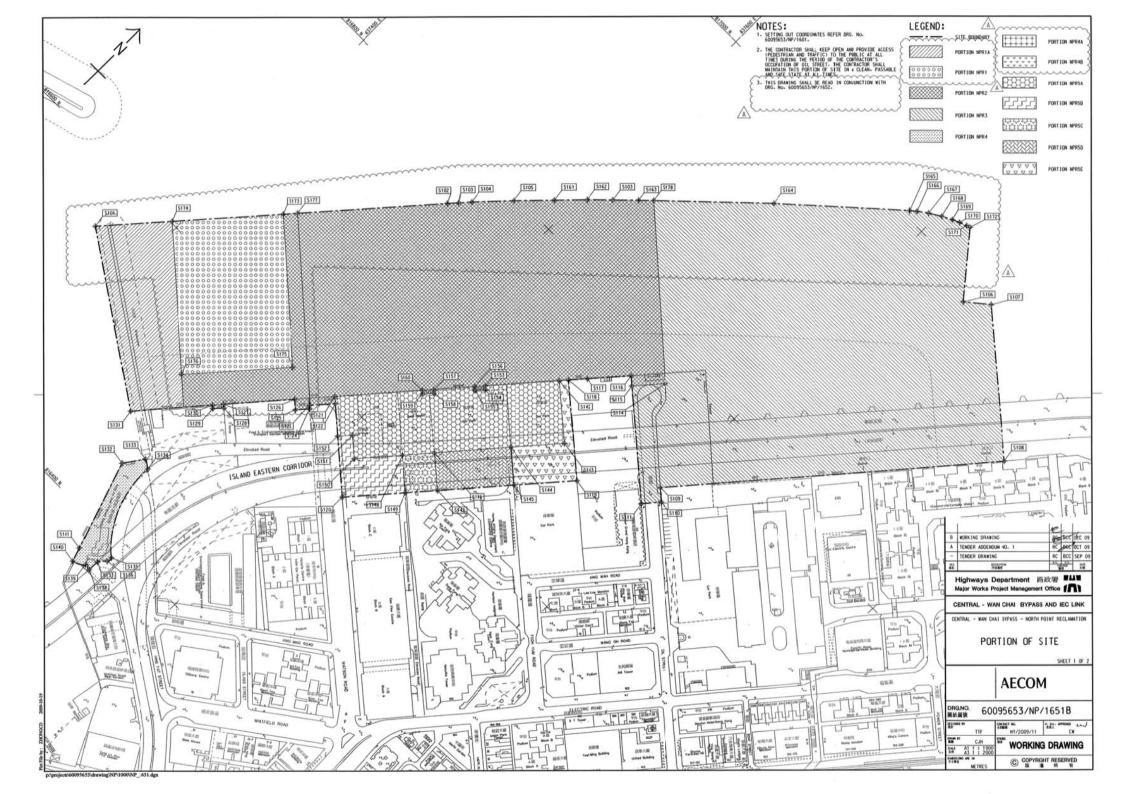
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2010/06	 Pile head breaking Platform Disassembly Sonic tube trimming Dredging 	 To conform the installation and setting as in the silt screen and silt curtain deployment plan To space out noisy equipment and position as far as possible from sensitive receiver. Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2009/19	 Construction works for Box Culvert T Marine Piling Construction of 1500	• To conform the installation and setting as in the silt screen and silt curtain deployment plan

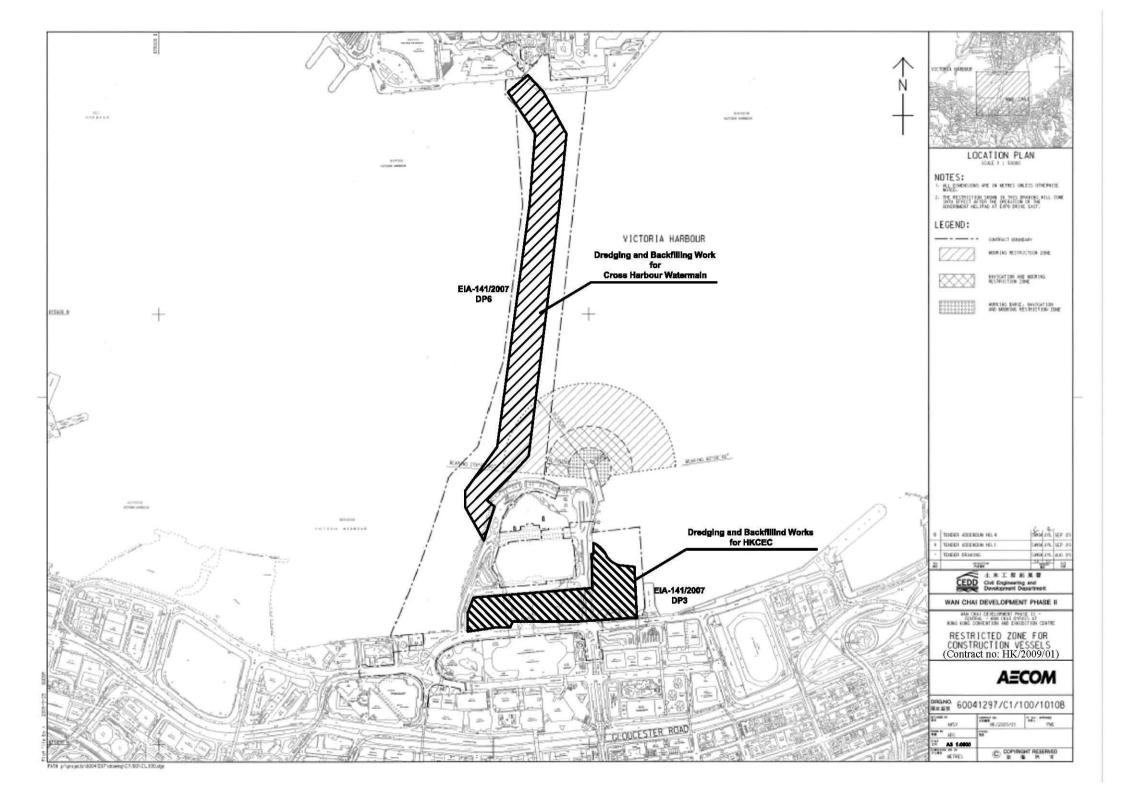


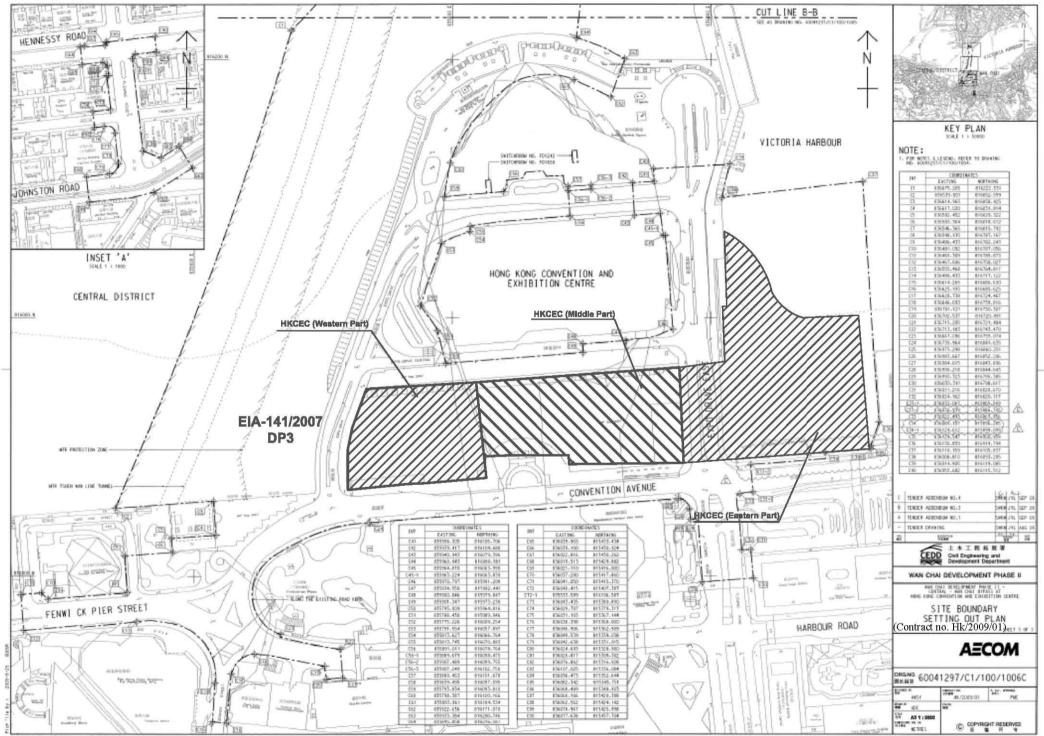
Figure 2.1

Project Layout

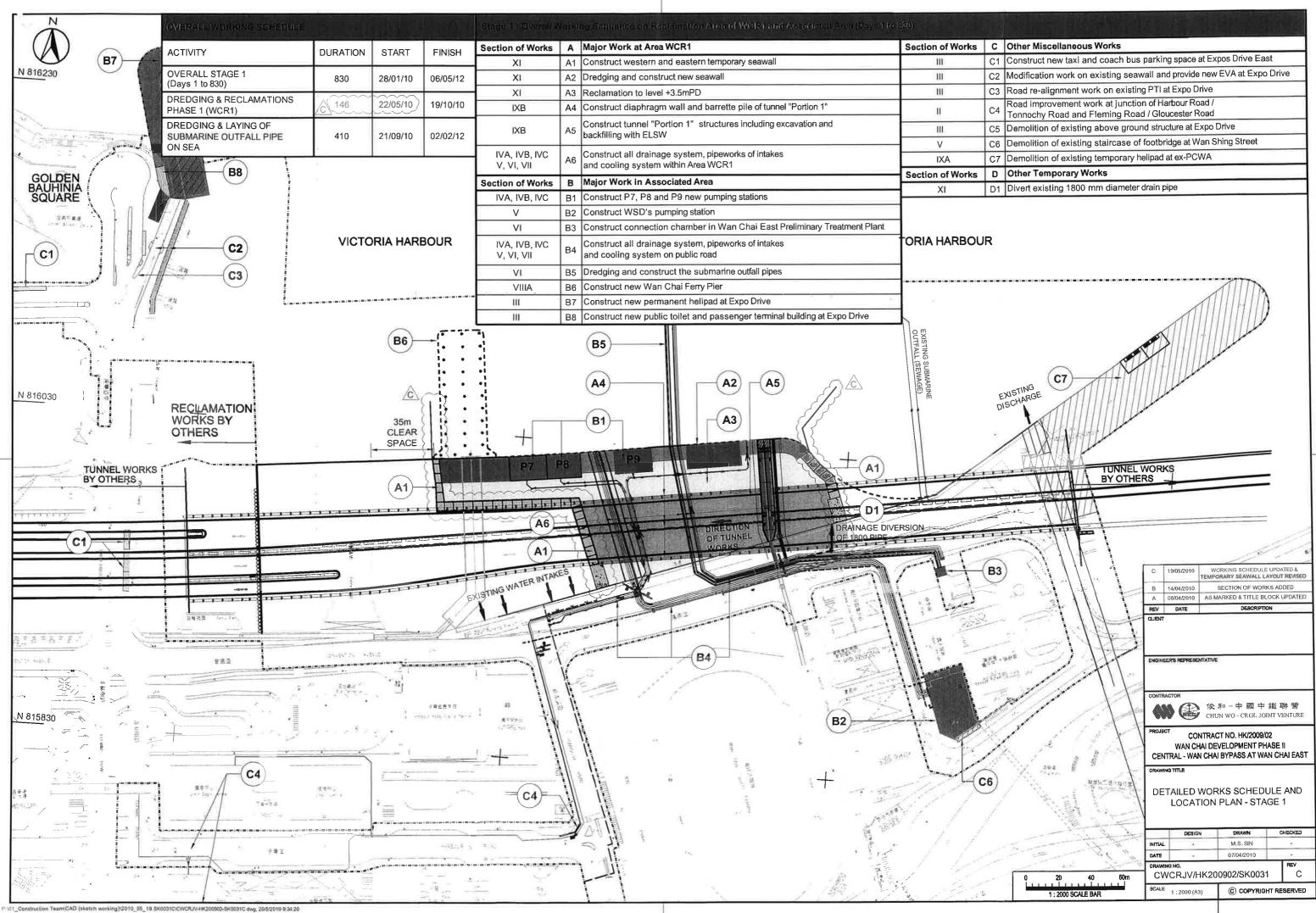




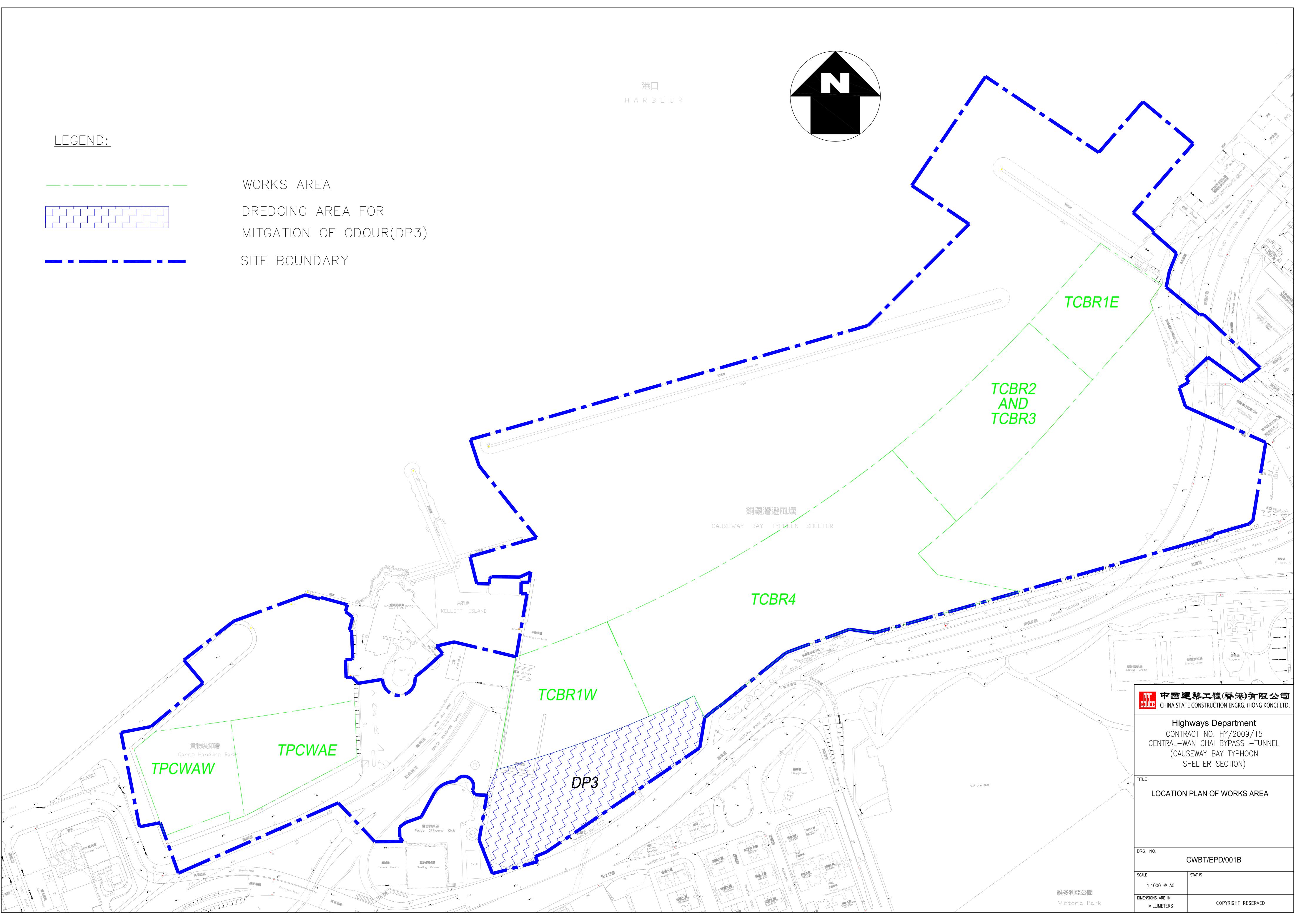


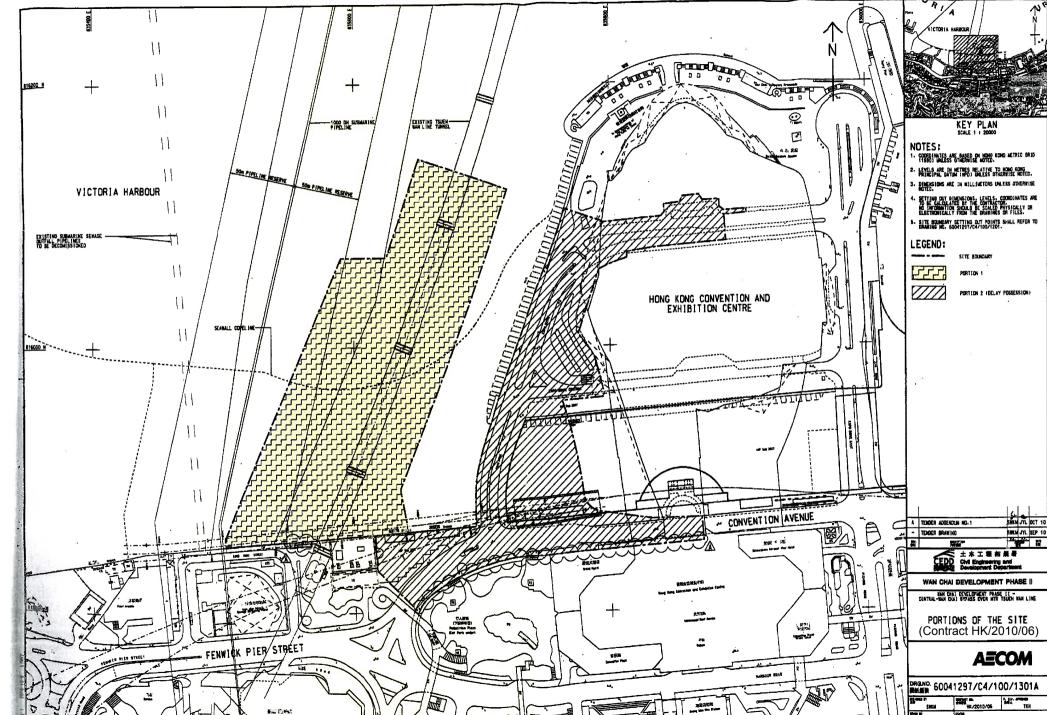


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С	Other Miscellaneous Works
C1	Construct new taxi and coach bus parking space at Expos Drive East
C2	Modification work on existing seawall and provide new EVA at Expo Drive
C3	Road re-alignment work on existing PTI at Expo Drive
C4	Road improvement 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

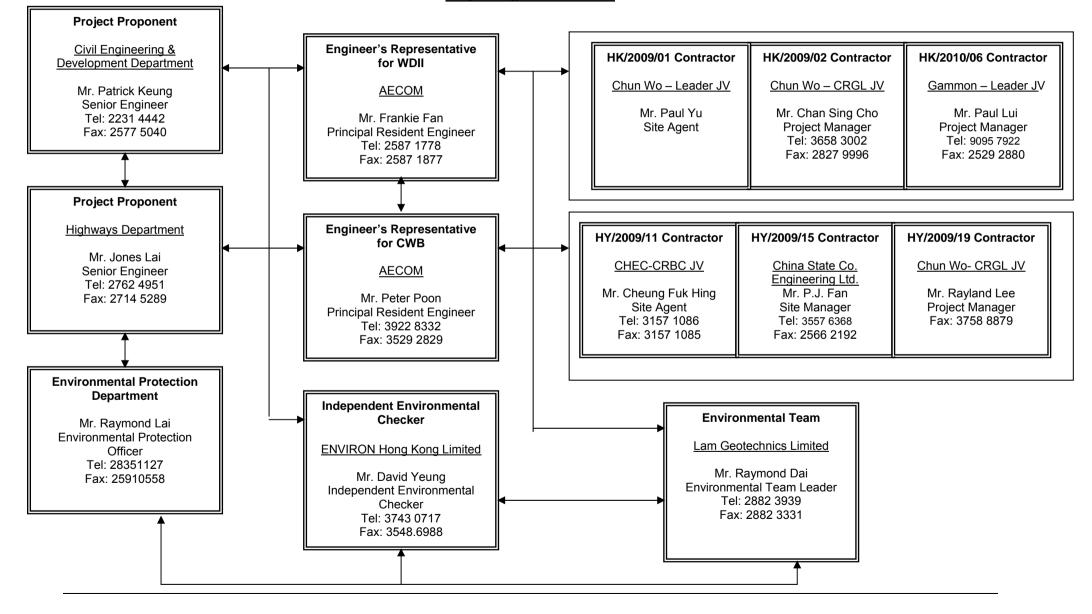
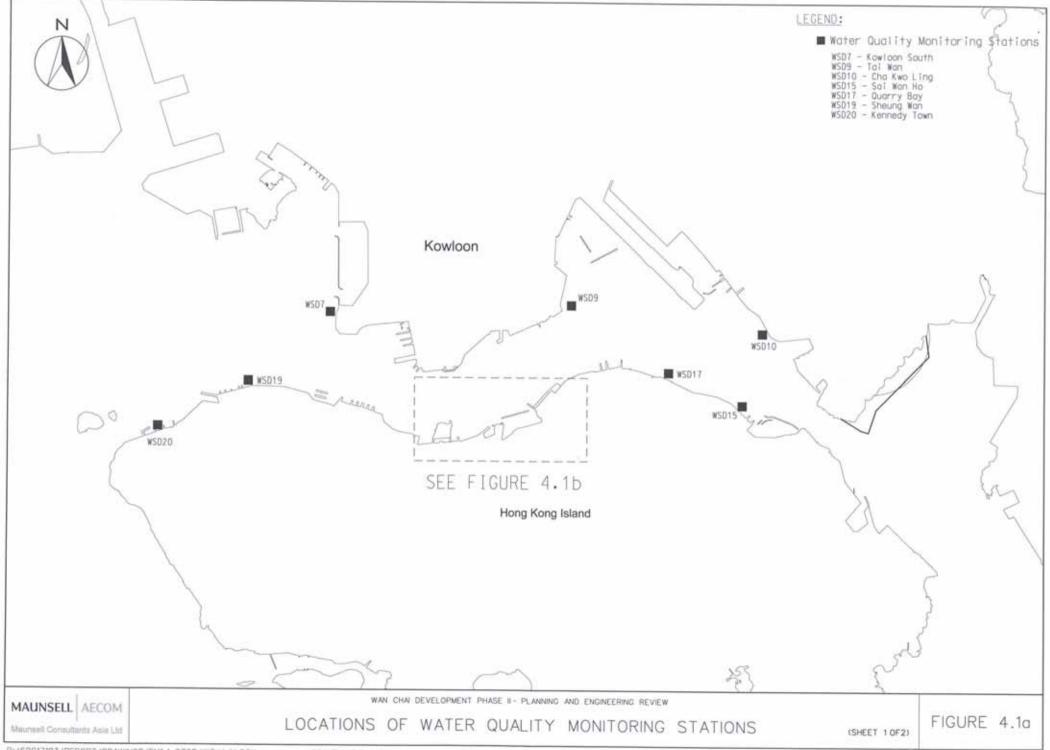




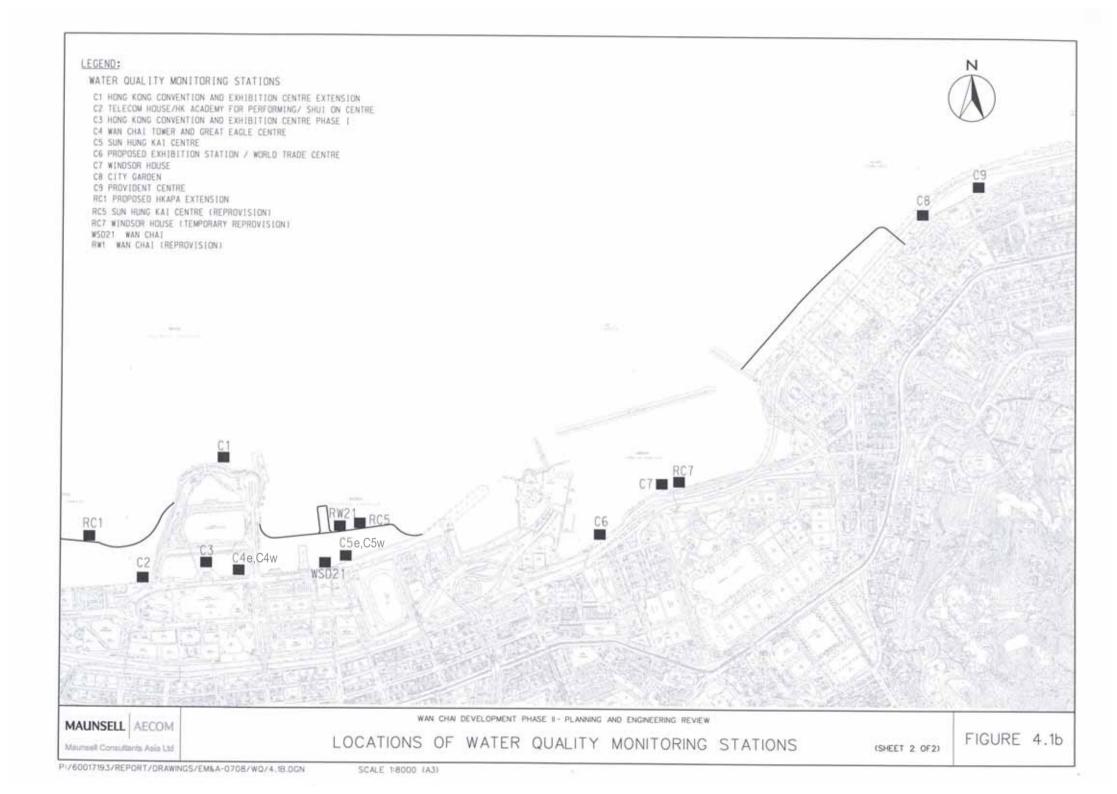
Figure 2.3

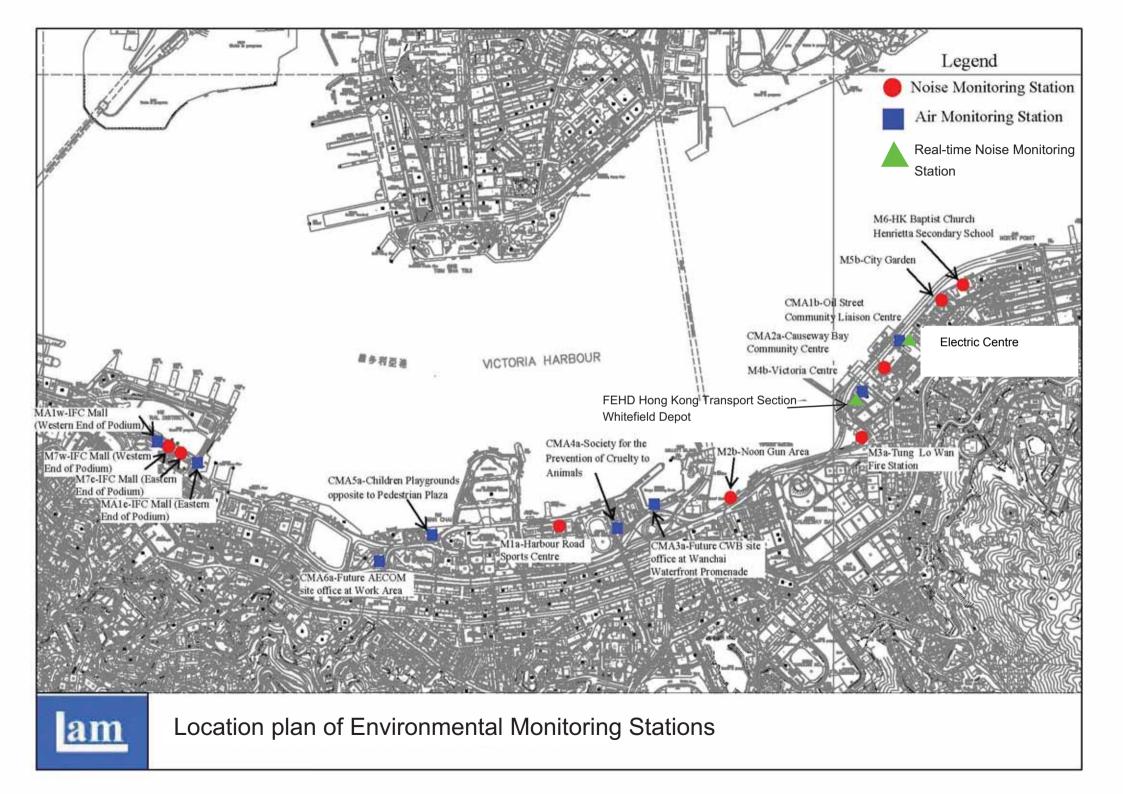
Locations of Monitoring Stations

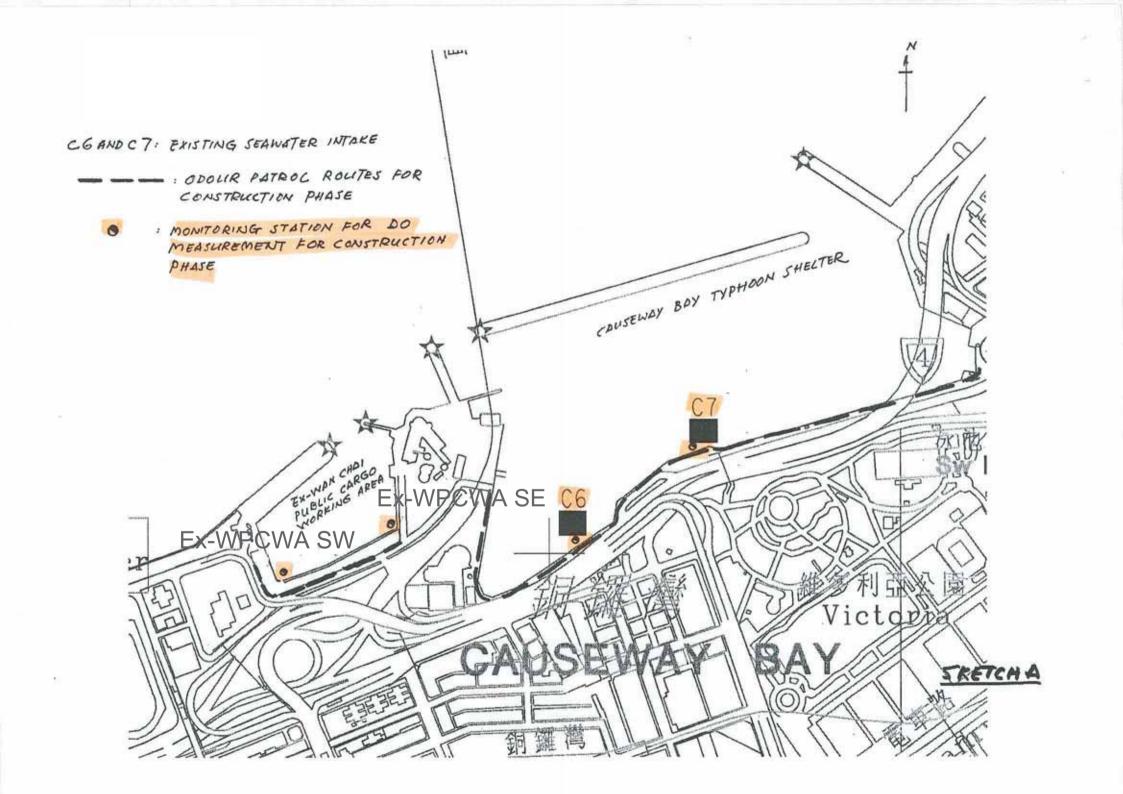


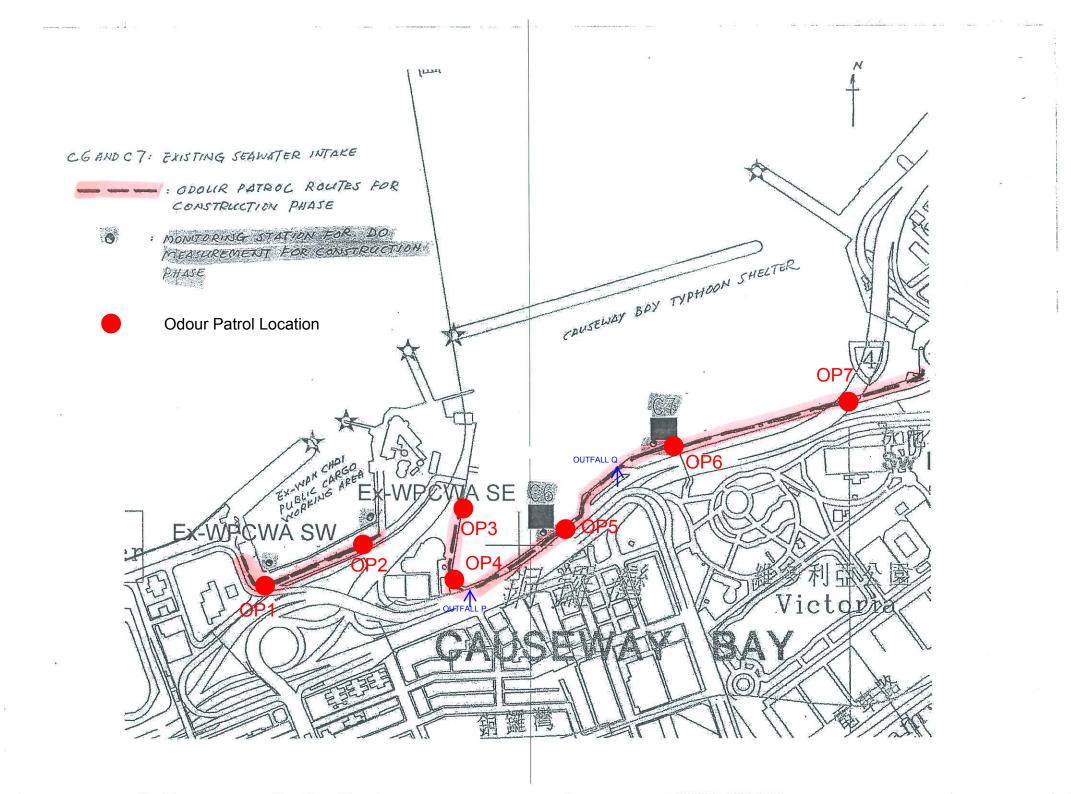
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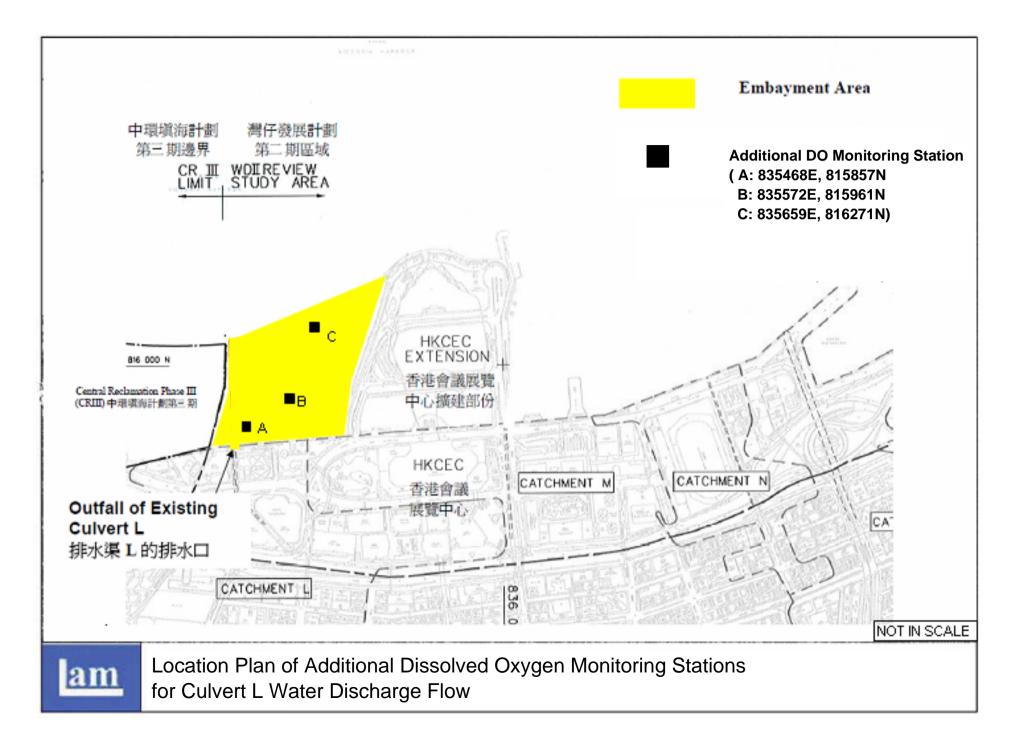
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Appendix 3.1

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	Implementation Stages*				Relevant Legislation
			Agent	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	In	Implemen Stages		on	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
		Liotation / Thing	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	In	1 .	entati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
Constructio	n 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*	on	Relevant Legislation and Guidelines
Lintikei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, 	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	In		entati ges*	on	Relevant Legislation
		8	Agent	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	In	nplem Sta	entati ges*	Relevant Legislation	
Lintitei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	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.

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- 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

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EIA Ref	Environmental Protection Measures / Mitigation Measures			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 m than the maximum production rates state production rates without considering the	ed in the table	le below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
			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							

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EIA Ref	Environmental Protection Measures / Mitigation Measures			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	For dredging within the Causeway Ba partially constructed to protect the no dredging activities. For example, at seawalls shall be constructed first (al seawater intakes at the inner water woul the remaining dredging activities along	arby seav FCBR1W ove high d be prote	water intake , the southe water mar ected from th	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed 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								

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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

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Implementation	Implementation Stages*			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 at the seawater intakes during the dredging operations. Daily 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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		ientati ges*	ion	Relevant Legislation
EIA KU	Environmental Freection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	• Work site	Contractor		\checkmark			ProPECC PN 1/94; WPCO (TM-DSS)
	 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						wrco (1M-D55)
	 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.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation
		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

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- 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
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		I					
	B (within the Project Boundary)				I.		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,							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				Relevant Legislation
		Timing	Agent	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

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Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Constructio	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
86.7.2	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.							
86.7.3	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.							

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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.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	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			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
			Agent	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)

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
21111101		Lioution / Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
\$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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation	
Lint Kei	Environmental Protection Measures / Mitigation Measures	Location / Thinng	Agent	Des	С	0	Dec	and Guidelines	
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004	
S6.7.14	 Bentonite Shurry 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 writed the used after the marine. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94	
	avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.								
	• If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.								
	 If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 								

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

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
Lint Kei	Environmental Protection Steasares / Shitigation Steasares	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

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- 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

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

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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	on	Relevant Legislation
	BB			Des	С	0	Dec	and Guidelines
	 <u>Water Quality Mitigation Measures</u> Stockpile of untreated soil shall be covered as far as 							
	practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following							
	the requirements of WPCO.							
	Waste Mitigation Measures							
	• Treated oversize materials will be used as filling material							
	for backfilling within the site. Sorted materials of size							
	smaller than 5 cm will be collected and transferred to the							
	mixing plant for further decontamination treatment.							
	• Stabilized soils shall be broken into suitable size for backfilling or reuse on site.							
	• A high standard of housekeeping shall be maintained within the mixing plant area.							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

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

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project - Schedule 3 DP							
8.9.7.2	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 –	Reclamation Works							
\$.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	•	entati ges*	on	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							

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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	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				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	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
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

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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

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages*				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

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Image: Constraint of the section of	EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	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	
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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						
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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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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

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	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 Level in μ g/m ³		24-hour TSP Le	evel 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 Season				
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	Cooling Water Intake						
SS in mg L ⁻¹	15.00	22.13	18.42	27.54			
Turbidity in NTU	9.10	10.25	11.35	12.71			
DO in mg/L	3.36	2.73	3.02	2.44			

Remarks:

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

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



Certificate No. 23166	Page 1 of 4 Pages	
Customer: Lam Geotechnics Limited		
Address : 11/F, Centre Point, 181-185 Gloucester Road	d, Wanchai, Hong Kong.	
Order No. : Q21208	Date of receipt : 24-May-	12
Item Tested		
Description : Precision Integrating Sound Level Meter		
Manufacturer : Rion		
Model : NL-14	Serial No. : 10303242	
Test Conditions		
Date of Test : 5-Jun-12	Supply Voltage :	
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %	
Test Specifications		
Calibration check.		
Ref. Document/Procedure: Z01.		
Test Results		

All results were within the IEC 651 Type 1 or IEC 804 Type 1 specification after adjustment. The results are shown in the attached page(s).

Main Test equi	pment used:		
Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	15136	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

P. F. Wong

Calibrated by :

Approved by : **Dorothy Cheuk** 6-Jun-12 Date:

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

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



Certificate No. 23166

Page 2 of 4 Pages

Results :

1. SPL Accuracy

	UUT Set	ting			UUT Rea		
Level Range (dB)	Filter	Weight	Time Const.	Applied Value (dB)	Before adjust.	After adjust.	
1000000000000000000000000000000000000	OFF L _P	Fast	94.0		94.1		
40 100	011	L _{PA}	Fast		*92.2	94.1	
			Slow	-		94.1	
		L _{PC}	Fast			94.1	
60 - 120	OFF L _P	T	Fast	94.0		94.0	
				Fast		<u>, 1990</u>	94.0
		DFA	Slow			94.0	
		L _{PC}	Fast			94.0	
60 - 120	OFF	Lp	Fast	114.0		114.1	
60 - 120	00-120 011		L _{PA}	Fast			114.1
		DPA	Slow			114.1	
		L _{PC}	Fast			114.1	

IEC 651 Type 1 Spec. : \pm 0.7 dB Uncertainty : \pm 0.2 dB

2. Level Stability : 0.1 dB

IEC 651 Type 1 Spec. : \pm 0.3 dB Uncertainty : \pm 0.01 dB



Certificate No. 23166

Page 3 of 4 Pages

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	113.9	-0.1	$\pm 0.7 \text{ dB}$
130	104.0	103.9	-0.1	
120	94.0	94.0 (Ref.)		
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	_
90	64.0	64.1	+0.1	
80	54.0	54.2	+0.2	

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

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.1	+0.1	$\pm 0.4 \text{ dB}$
	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 dB, ± 1 dB
250 Hz	-8.5	- 8.6 dB, ± 1 dB
500 Hz	-3.2	- 3.2 dB, ± 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	+0.8	$+ 1.0 \text{ dB}, \pm 1 \text{ dB}$
8 kHz	-1.5	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-7.2	- 6.6 dB, + 3 dB ~ - ∞

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



Certificate No. 23166

Page 4 of 4 Pages

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.7	
$1/10^{3}$	40.0	39.4	± 1.0 dB
$1/10^{4}$	40.0	39.3	

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

Remark : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 000 hPa.
- 4. *Out of Specification

----- END -----



Certificate No.	23167	Page	Page 1 of 2 Pages		
Customer :	Lam Geotechnics Limited				
Address :	11/F, Centre Point, 181-185	Gloucester Road, W	anchai, Hong Kon	g.	
Order No. :	Q21208		Date of receip	ot :	24-May-12
Item Tested					
Description : Manufacturer :	Sound Level Calibrator Rion				
Model :	NC-73		Serial No.	: 1046	5798
Test Conditi	ons				
Date of Test :	6-Jun-12		Supply Volta	ge :	
Ambient Temp	erature : (23 ± 3)°C		Relative Hum	hidity : (50 ±	: 25) %
Test Specifi	cations				
Calibration cheo Ref. Document	ck. /Procedure : F21, Z02.				
Test Results	5			6	
	within the manufacturer's sp shown in the attached page				
Main Test equi	pment used:				
Equipment No.	Description	Cert. No.		Traceabl	
S014	Spectrum Analyzer	13535		18 8824 C	C & SCL-HKSAR
S024	Sound Level Calibrator	15136			C & SCL-HKSAR
S041	Universal Counter	15610		SCL-HK	
S206	Sound Level Meter	16338		SCL-HK	SAR

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

P. F. Wong

Calibrated by :

Appro	ved by :	Dorothy Cheuk
Data	6- lun-12	

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

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Certificate No. 23167

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	94.43	± 1 dB

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.982 kHz	±2 %

Uncertainty : ± 0.1 %

- **3.** Level Stability : 0.0 dB Uncertainty : ± 0.01 dB
- Total Harmonic Distortion : < 0.5 % Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

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

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



ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

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

HK1221110
HONG KONG
10/08/2012
14/08/2012

COMMENTS

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

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	YSI SONDE
Brand Name:	YSI
Model No.:	YSI Professional plus
Serial No.:	11H100476
Equipment No.:	
Date of Calibration:	13 August, 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 <u>hongkong@alsglobal.com</u>

Mr Chan Kwok Fai, Godfrey Laboratory Manager - Hong Kong

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Page 1 of 2

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

Environmental 🐊

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:HK12Date of Issue:14/0Client:LAM

HK1221110 14/08/2012 LAM GEOTECHNICS LIMITED



Description:	YSI SONDE		
Brand Name:	YSI		
Model No.:	YSI Professional plus		
Serial No.:	11H100476		
Equipment No.:	<u></u>		
Date of Calibration:	13 August, 2012	Date of next Calibration:	13 November, 2012

Parameters:

Dissolved Oxygen	Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.10	3.06	-0.04
5.65	5.64	-0.01
8.19	8.18	-0.01
	- 1231 - 737 Cone	
	Tolerance Limit (±mg/L)	0.20

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	4.02	0.02
7.0	7.02	0.02
10.0	9.86	-0.14
	Tolerance Limit (±unit)	0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	
10	9.74	-2.6
20	18.89	-5.6
30	28.96	-3.5
	Tolerance Limit (±%)	10.0

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
9.5	9.8	0.3
20.5	21.2	0.7
39.5	38.3	-1.2
	Tolerance Limit (°C)	2.0

Mr Chan Kwok Fai, Godfrey aboratory Manager – Hong Kong

ALS Technichem (HK) Pty Ltd

CASTCO

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

TEST REPORT Performance Check / Calibration of Turbidity Meter

Date of issue : 31-07-2012 Page 1 of 1 page(s)	Castco L	Castco LRN: EN0120726-13			
Sample details as supplied by	customer:-				
Customer: Lam Geotechnics	Ltd.	Custon	er Ref. No.:		
Address: 11/F., Centre Point,	ress: 11/F., Centre Point, 181-185 Gloucester Rosd, Wanchai, Hong Kon Title:		et No.:		
Job Title:					
Sample Identification No.:		Date S	ampled:		
Laboratory Test Results:-					
Date of sample received: 26-	07-2012	Test period: 27-07-	2012		
Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	Method		

g()			
0	0.06		
5	4.53	-9.4	
10	9.08	-9.2	ENV-WAT-TUR
50	46.0	-8.0	ENV-WAI-TOK
100	101	+1.0	
200	190	-5.0	

Remark(s):

Checked by :

- 1. Test results only relate to the specimen tested.
- 2. Compliance requirement : Tolerance Limit \pm 10.0%.
- 3. Turbidity meter model No.: HACH 2100P.
- 4. Turbidity meter serial No.: 931000003861.
- 5. Next Calibration due date: 27-10-2012.

6. Reference method: APHA 21st Ed. 2130B (Nephelometric method).

H. T. MA

Certified by :

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

End of Report

LEE STEPHEN SHU HANG Ph.D. Chief Chemist

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ju	1 19, 2012	Rootsmeter	D / 1	138320	Ta (K) -	298
Operator	Tisch	Orifice I.I)005	Pa (mm) -	751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3840	3.2	2.00
2	NA	NA	1.00	0.9760	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8340	8.8	5.50
5	NA	NA	1.00	0.6890	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9850 0.9809 0.9788 0.9777 0.9725	0.7117 1.0050 1.1212 1.1723 1.4115	1.4066 1.9892 2.2240 2.3326 2.8132		0.9957 0.9915 0.9894 0.9883 0.9831	0.7194 1.0159 1.1333 1.1850 1.4268	0.8903 1.2591 1.4078 1.4765 1.7807
Qstd sloj intercep coeffici	t (b) =	2.01145 -0.02803 0.99995		Qa slop intercep coeffici	t (b) =	1.25953 -0.01774 0.99995
v axis =	SQRT [H20 ()	Pa/760) (298/	Ta)]	'y axis =	SQRT [H20 (1	[a/Pa)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date :	13-Aug-12
Equipment no.	:	EL452	Calbration Due Dat :	13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305		Kelvin	Pressure, P	а		1015	mmHg
	Orifice Transfer Standard Information								
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02	803
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	13.3 x 298	/T _a) ^{1/2}	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$:	
Calibration of RSP									
Calibration	Manometer Reading			C	l _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/	(T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)	Y-axis	\$
1	6.0	6.0	12.0	1.	7177	60		59.357	2
2	5.0	5.0	10.0	1.	5692	54		53.421	5
3	4.0	4.0	8.0	1.4	4050		47	46.496	5
4	2.5	2.5	5.0	1.	1137		36	35.614	3
5	1.5	1.5	3.0	0.	3658		24	23.742	:9
By Linear Regression of	Y on X								
	Slope, m	=	41.2	723	Int	ercept, b	=^	11.3427	
Correlation Co	pefficient*	=	0.99	991					
Calibration	Accepted	=	Yes/	\o **					

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

** Delete as appro	priate.				
Remarks :					
Calibrated by	:	Fung	Checked by	:	Derek Lo
Date	:	13-Aug-12	Date	:	13-Aug-12



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calbration Date	:	16-Oct-12
Equipment no.	:	EL452	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		301		Kelvin	Pressure, P		1010 n	nmHg	
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.0280	03
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 10	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_{c}$		
Calibration of RSP									
Calibration	Manometer Reading			G	l _{std}	Contin	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/T	a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	X-axis		CFM)	Y-axis	
1	6.1	6.1	12.2	1.1	7389		62	61.5897	
2	5.0	5.0	10.0	1.5	5757		55	54.6360	
3	4.1	4.1	8.2	1.4	4281		48	47.6824	
4	2.5	2.5	5.0	1.	1182		36	35.7618	
5	1.4	1.4	2.8	0.8	3403		25	24.8346	
By Linear Regression of	Y on X								
	Slope, m	=	40.7	641	Int	ercept, b	= -	9.7338	
Correlation Co	pefficient*	=	0.99	994					
Calibration	Accepted	=	Yes/	\o **					

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Sam	Checked	dby :	Derek Lo
Date	:	16-Oct-12	- Date	:	16-Oct-12



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	Calbration Date	:	13-Aug-12
Equipment no.	:	EL380	Calbration Due Dat	:	13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305		Kelvin	Pressure, P	a		1015	mmHg
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02	803
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	13.3 x 298	$/T_{a})^{1/2}$	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$		
Calibration of RSP									
Calibration	Manometer Reading			C	Q _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298	/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	X-axis		CFM)	Y-axis	5
1	6.1	6.1	12.2	1.	7318		58	57.378	16
2	5.0	5.0	10.0	1.	5692		52	51.442	29
3	3.7	3.7	7.4	1.3	3519		44	43.528	16
4	2.4	2.4	4.8	1.	0915		35	34.625	50
5	1.4	1.4	2.8	0.	8369		26	25.721	5
By Linear Regression of	Y on X								
	Slope, m	=	35.3	013	Int	ercept, b	=	3.9263	_
Correlation Co	pefficient*	=	0.99	999					
Calibration	Accepted	=	Yes/	Vo**					

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

** Delete as appropriate.

Remarks :					
Calibrated by	:	Fung	Checked by	:	Derek Lo
Date	:	13-Aug-12	Date	:	13-Aug-12



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМА5а	Calbration Date	:	16-Oct-12
Equipment no.	:	EL380	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition									
Temperature, T _a		301		Kelvin	Pressure, P	a		1010	mmHg	
			Orifice Tra	nsfer Stan	dard Inform	ation				
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02	803	
Last Calibration Date		19-Jul-1	ul-12 (HxP _a / 1013			13.3 x 298	/T _a) ^{1/2}			
Next Calibration Date		19-Jul-1	3	$= m_c \times Q_{std} + b_c$						
			C	alibration	of RSP					
Calibration	Mar	Manometer Reading Q std Continuou			uous Flow	IC				
Point	H (inches of water)		(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298	/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	x-	X-axis (Cl		CFM)	Y-axis		
1	6.1	6.1	12.2	1.	7389		57	56.6228		
2	5.0	5.0	10.0	1.	5757		52	51.655	59	
3	3.8	3.8	7.6	1.3	3754		45	44.702	22	
4	2.4	2.4	4.8	1.	0959		35	34.768	34	
5	1.5	1.5	3.0	0.	3693		27	26.821	13	
By Linear Regression of	Y on X									
	Slope, m	=	34.5	420	Int	ercept, b	=	3.0633	_	
Correlation Co	pefficient*	=	0.99	997						
Calibration Accepted = Yes/Ne**										

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

** Delete as appro	priate.					
Remarks :						
Calibrated by	:	Sam	_	Checked by	:	Derek Lo
Date	:	16-Oct-12		Date	:	16-Oct-12



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	:	13-Aug-12
Equipment no.	:	EL390	Calbration Due Dat	:	13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305		Kelvin	Pressure, P	а		1015	
			Orifice Tra	nsfer Stan	dard Informa	ation			
Equipment No.	EL086			Slope, m _c	2.011	45	Intercept, b	c -0.028	803
Last Calibration Date		19-Jul-1	2		(HxH	P _a / 101	13.3 x 298	/T _a) ^{1/2}	
Next Calibration Date		19-Jul-1	3	$= m_c \times Q_{std} + b_c$					
			C	alibration	of RSP				
Calibration	Mar	nometer R	ometer Reading Q std Continuou			uous Flow	IC		
Point	Н (inches of	water)	(m ³	(m ³ / min.) Recorde		order, W	(W(P _a /1013.3x298/	(T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	-axis (CF		CFM)	Y-axis	5
1	6.1	6.1	12.2	1.	7318		60	59.357	2
2	5.0	5.0	10.0	1.	5692		53	52.432	2
3	3.7	3.7	7.4	1.3	3519		45	44.517	9
4	2.5	2.5	5.0	1.	1137		36	35.614	3
5	1.4	1.4	2.8	0.	8369		26	25.721	5
By Linear Regression of	Y on X								
	Slope, m	=	37.3	619	Inte	ercept, b	= -	5.8154	
Correlation Co	pefficient*	=	0.99	996					
Calibration Accepted = Yes			Yes/	\o **					

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

13-Aug-12

:

Date

Calibrated by	:	Fung	Checked by
Remarks :			
** Delete as appro	opriate.		

13-Aug-12

:

:

Date

Derek Lo



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	Calbration Date	:	16-Oct-12
Equipment no.	:	EL390	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

	Ambient Condition									
Temperature, T _a		301		Kelvin	Pressure, P	а		1010 mmHg		
			Orifice Tra	nsfer Stan	dard Inform	ation				
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02803		
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	3.3 x 298	$/T_{a})^{1/2}$		
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$			
			C	alibration	of RSP					
Calibration	Manometer Reading			C	Q _{std}	Continu	ious Flow	IC		
Point	Н (H (inches of water)		(m ³	/ min.)	Reco	rder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-	axis	(C	FM)	Y-axis		
1	6.1	6.1	12.2	1.	7389		60	59.6030		
2	5.0	5.0	10.0	1.:	5757		53	52.6493		
3	3.8	3.8	7.6	1.3	3754		44	43.7088		
4	2.4	2.4	4.8	1.	0959	:	34	33.7750		
5	1.4	1.4	2.8	0.	8403	:	23	22.8478		
By Linear Regression of	Y on X									
	Slope, m	=	40.4	660	Int	ercept, b =	=	1.1111		
Correlation Co	pefficient*	=	0.99	994						
Calibration Accepted = Yes				No**						

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

** Delete as appropriate.

Remarks :						
Calibrated by	:	Sam	 Checked by	:	Derek Lo	
Date	:	16-Oct-12	 Date	:	16-Oct-12	

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАЗа	Calbration Date :	13-Aug-12
Equipment no.	:	EL888	Calbration Due Dat :	 13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305		Kelvin	Pressure, P	a		1015 mmHg	
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02803	
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	3.3 x 298	$(T_a)^{1/2}$	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$		
	Calibration of RSP								
Calibration	Manometer Reading			C) _{std}	Continu	ious Flow	IC	
Point	H (inches of water)		(m ³	/ min.)	Reco	rder, W	$(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$		
	(up)	(down)	(difference)	X-	axis	(C	FM)	Y-axis	
1	6.0	6.0	12.0	1.1	7177		48	47.4858	
2	4.7	4.7	9.4	1.	5219		41	40.5608	
3	3.9	3.9	7.8	1.3	3875	:	36	35.6143	
4	2.4	2.4	4.8	1.0	0915		24	23.7429	
5	1.5	1.5	3.0	0.8	8658		15	14.8393	
By Linear Regression of	Y on X								
	Slope, m	=	38.5	754	Int	ercept, b	=1	8.3502	
Correlation Co	pefficient*	=	0.99	997					
Calibration Accepted = Yes				\o **					

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

** Delete as appropriate.

Remarks :						
Calibrated by	:	Fung		Checked by	:	Derek Lo
Date	:	13-Aug-12	_	Date	:	13-Aug-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАЗа	Calbration Date	:	16-Oct-12
Equipment no.	:	EL888	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		301		Kelvin	Pressure, P	a		1010 mmHg	
Orifice Transfer Standard Information									
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.02803	
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	13.3 x 298	$(T_{a})^{1/2}$	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$		
Calibration of RSP									
Calibration	Mar	Manometer Reading) _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-	X-axis		CFM)	Y-axis	
1	6.1	6.1	12.2	1.	7389		50	49.6691	
2	4.7	4.7	9.4	1.	5281		42	41.7221	
3	4.0	4.0	8.0	1.4	4108		38	37.7485	
4	2.4	2.4	4.8	1.	0959		24	23.8412	
5	1.4	1.4	2.8	0.	8403		14	13.9074	
By Linear Regression of	Y on X								
	Slope, m	=	40.2	808	Int	ercept, b	= -1	19.9065	
Correlation Co	pefficient*	=	0.99	994					
Calibration Accepted = Yes				\o **					

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

** Delete as appropriate.

Remarks :						
Calibrated by	:	Sam		Checked by	:	Derek Lo
Date	:	16-Oct-12	_	Date	:	16-Oct-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date :	13-Aug-12
Equipment no.	:	EL449	Calbration Due Dat :	 13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition										
Temperature, T _a		305		Kelvin	Pressure, P	a		1015	mmHg	
Orifice Transfer Standard Information										
Equipment No.		EL086		Slope, m _c	Slope, m _c 2.01145 I			ntercept, bc -0.02803		
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 10 ⁻	13.3 x 298	$/T_{a})^{1/2}$		
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_c$:		
Calibration of RSP										
Calibration	Mar	Manometer Reading) _{std}	Contin	uous Flow	IC	•	
Point	H (inches of water)		(m ³	/ min.)	n.) Record		(W(P _a /1013.3x2	98/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X-	X-axis		(CFM)		xis	
1	6.0	6.0	12.0	1.1	7177		51	50.4	536	
2	5.0	5.0	10.0	1.	5692		44	43.5	286	
3	3.9	3.9	7.8	1.:	3875		36	35.6	143	
4	2.5	2.5	5.0	1.	1137		26	25.7	215	
5	1.4	1.4	2.8	0.8	8369		14	13.8	500	
By Linear Regression of	Y on X									
	Slope, m	=	40.8	952	Int	ercept, b	=	20.3530		
Correlation Co	oefficient*	=	0.99	92						
Calibration	Yes/	\o **								

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

** Delete as appropriate.

Remarks :						
Calibrated by	:	Fung		Checked by	:	Derek Lo
Date	:	13-Aug-12	_	Date	:	13-Aug-12

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	Calbration Date	:	16-Oct-12
Equipment no.	:	EL449	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		301		Kelvin	Pressure, P	а		1010 m	
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m_c 2.01145			Intercept, b	-0.02	2803
Last Calibration Date	19-Jul-12				(Hxl	P _a / 101	3.3 x 298	$(T_{a})^{1/2}$	
Next Calibration Date		19-Jul-1:	3		=	m _c x	$Q_{std} + b_{c}$;	
Calibration of RSP									
Calibration	Mar	Manometer Reading			std	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x29	B/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	axis	(C	CFM)	Y-ax	is
1	6.0	6.0	12.0	1.1	7247		53	52.64	93
2	5.0	5.0	10.0	1.5	5757		45	44.70	22
3	4.0	4.0	8.0	1.4	4108		38	37.74	85
4	2.5	2.5	5.0	1.	1182		26	25.82	79
5	1.5	1.5	3.0	0.8	3693		15	14.90	07
By Linear Regression of	Y on X								
	Slope, m	=	43.3	273	Int	ercept, b	=	22.8822	_
Correlation Coefficient* = 0.99				992					
Calibration Accepted = Yes/No**									

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

priate.				
:	Sam	Checked by	:	Derek Lo
:	16-Oct-12	Date	:	16-Oct-12
	 	: Sam	: Sam Checked by	: Sam Checked by



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	СМАба	Calbration Date	:	13-Aug-12
Equipment no.	:	EL448	Calbration Due Dat	:	13-Oct-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition									
Temperature, T _a		305		Kelvin	Pressure, P	а		1015	mmHg
			Orifice Tra	nsfer Stan	dard Inform	ation			
Equipment No.		EL086		Slope, m _c	2.011	45	Intercept, b	c -0.028	803
Last Calibration Date		19-Jul-1	2		(HxI	P _a / 101	13.3 x 298	/T _a) ^{1/2}	
Next Calibration Date		19-Jul-1	3		=	m _c x	$Q_{std} + b_{c}$:	
Calibration of RSP									
Calibration	Mar	Manometer Reading			l _{std}	Continu	uous Flow	IC	
Point	H (inches of water)			(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/	(T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-	X-axis		CFM)	Y-axis	
1	6.2	6.2	12.4	1.	7458		61	60.346	5
2	5.0	5.0	10.0	1.	5692		53	52.432	2
3	4.1	4.1	8.2	1.4	4223		46	45.507	2
4	2.5	2.5	5.0	1.	1137		34	33.635	8
5	1.5	1.5	3.0	0.	3658		24	23.742	9
By Linear Regression of	Y on X								
	Slope, m	=	41.3	102	Int	ercept, b	=^	12.3623	_
Correlation Co	pefficient*	=	0.99	993					
Calibration	Accepted	=	Yes/	No**					

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

** Delete as appropriate.

Remarks :					
					_
Calibrated by	:	Fung	 Checked by	:	Derek Lo
Date	:	13-Aug-12	 Date	:	13-Aug-12



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	Calbration Date	:	16-Oct-12
Equipment no.	:	EL448	Calbration Due Dat	:	16-Dec-12

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition												
Temperature, T _a		301		Kelvin	Pressure, P	а		1010 mmHg				
			Orifice Tra	nsfer Stan	dard Inform	ation						
Equipment No.		EL086		Slope, m _c	45	Intercept, b	ntercept, bc -0.02803					
Last Calibration Date		19-Jul-12	2		(HxI	P _a / 101	13.3 x 298	$/T_{a})^{1/2}$				
Next Calibration Date		19-Jul-13	3		=	m _c x	$Q_{std} + b_c$					
Calibration of RSP												
Calibration Manometer Reading Q std Continuous Flow IC												
Point	Н (inches of	water)	(m ³	/ min.)	Reco	order, W	(W(P _a /1013.3x298/T	a) ^{1/2} /35.31)			
	(up)	(down)	(difference)	X-	axis	(C	CFM)	Y-axis				
1	6.0	6.0	12.0	1.1	7247		61	60.5963				
2	5.0	5.0	10.0	1.5	5757		54	53.6427				
3	4.0	4.0	8.0	1.4	4108		46	45.6956				
4	2.5	2.5	5.0	1.1	1182		34	33.7750	1			
5	1.5	1.5	3.0	0.8	8693		23	22.8478				
By Linear Regression of	Y on X											
	Slope, m	=	43.8	163	Int	ercept, b	=	15.3916				
Correlation Co	pefficient*	=	0.99	996								
Calibration	Accepted	=	Yes/	\o **								

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

** Delete as appropriate.

Remarks :			 			
Calibrated by	:	Sam	Checked by	:	Derek Lo	
Date	:	16-Oct-12	 Date	:	16-Oct-12	



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

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

٦	Tentative Environmental Monitoring Schedule
	Octobor 2012

	-	-	October 2		-		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
					28-Sep	24hr TSP	29-Sep
					Impact WQM		
					Mid-ebb: 11:04		
					Mid-flood: 17:38		
30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct		6-Oct
					Noise monitoring		
			24hr TSP (CMA4a)		24hr TSP		
			1hr TSP			1hr TSP	
		Impact WQM		Impact WQM		Impact WQM	
		Mid-flood: 7:31		Mid-ebb: 2:19		Mid-ebb:	2:57
		Mid-ebb: 13:26		Mid-flood: 8:50		Mid-flood:	10:26
7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct		13-Oct
		Noise monitoring					
				0.4k+ TOD			
				24hr TSP	1hr TSP		
	Impact WQM		Impact WQM		111 135	Impact WQM	
	Mid-ebb: 5:02		Mid-ebb: 7:54			Mid-ebb:	10:30
	Mid-flood: 17:49		Mid-flood: 15:39			Mid-flood:	16:50
14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct		20-Oct
		Noise monitoring					
			24hr TSP				
				1hr TSP			
	Impact WQM Mid-ebb: 12:01		Impact WQM Mid-ebb: 13:28			Impact WQM Mid-ebb:	3:17
	Mid-ebb. 12:01 Mid-flood: 17:55		Mid-ebb: 13:28 Mid-flood: 19:08			Mid-ebb. Mid-flood:	10:30
21-Oct		23-Oct	24-Oct	25-Oct	26-Oct	Wild-Illood.	27-Oct
21-000	22-001	23-00	24-001	25-00	26-001		27-00
					Materia and a Manda a		
					Noise monitoring		
	0.4% 700						
	24hr TSP		24hr TSP (CMA2a)			24hr TSP	
			1hr TSP				
	Impact WQM			Impact WQM		Impact WQM	
	Mid-ebb: 5:32			Mid-flood: 15:52		Mid-ebb:	10:39
	Mid-flood: 13:11			Mid-ebb: 21:57		Mid-flood:	16:54

Remarks: The result of 24-hr TSP will be presented in November monthly report.

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

Tentative Environmental Monitoring Schedule November 2012

	1					November					1	
Sunday	Monday		Tuesda	-	Wedne	-	Thurso		Frid		Satu	
28-Oct	2	29-Oct		30-Oct		31-Oct		1-Nov		2-Nov	r	3-No
			Noise monitoring									
									24hr TSP			
	1hr TSP										1hr TSP	
	Impact WQM				Impact WQM				Impact WQM		Impact WQM	
	Mid-flood:	6:05			Mid-ebb:	12:58					Mid-ebb:	1:4
		11:55			Mid-flood:	18:34			Mid-flood:	18:39)	
4-Nov		5-Nov		6-Nov		7-Nov		8-Nov		9-Nov		10-Nov
			Noise monitoring									
							24hr TSP					
									1hr TSP			
	Impact WQM				•		Impact WQM				Impact WQM	
			Mid-ebb:	3:58	1		Mid-ebb:	6:19			Mid-ebb:	9:0
		20:04					Mid-flood:	14:19			Mid-flood:	15:2
11-Nov	1	2-Nov		13-Nov		14-Nov		15-Nov		16-Nov		17-No
			Noise monitoring									
					24hr TSP							
							1hr TSP					
	Impact WQM				Impact WQM						Impact WQM	
	Mid-ebb:	10:50			Mid-ebb:	12:27					Mid-ebb:	2:13
	Mid-Flood:	16:38			Mid-flood:	17:56					Mid-flood:	9:20
18-Nov	1	9-Nov		20-Nov		21-Nov		22-Nov		23-Nov		24-No
			Noise monitoring									
			24hr TSP									
					1hr TSP							
	Impact WQM						Impact WQM				Impact WQM	
	Mid-ebb:	4:00					Mid-flood:	14:16			Mid-flood:	15:3
	Mid-flood:	11:24					Mid-ebb:	20:29			Mid-ebb:	22:1
25-Nov	2	26-Nov		27-Nov							8	
	24hr TSP											
			1hr TSP									
	Impact WQM											
		16:37										
	Mid-flood: Mid-ebb:	16:37 23:27										



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



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

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
05/10/12	09:20	Fine	74.8 77.5		69.0	72	71	75
09/10/12	10:25	Fine	74.2	.2 77.0 67.5		72	70	75
16/10/12	10:10	Cloudy	74.7	77.0	70.0	72	71	75
26/10/12	10:25	Fine	73.9 76.5		68.5	72	69	75

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
			73.9 74.7 70			Unit: dB(A), (30-min)	
05/10/12	11:05	Fine	73.9 74.7 70.5			68	73	75
09/10/12	11:00	Fine	68.2 69.5 66.5			68	59	75
16/10/12	10:55	Cloudy			68	68	75	
26/10/12	11:10	Fine	72.5 75.0 69.0		68	71	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)	
05/10/12	13:00	Fine	67.2	68.5	64.0	69	67	75
09/10/12	13:00	Fine	66.5	68.0	8.0 64.0 69		67	75
16/10/12	13:00	Cloudy	66.7 68.5 64.5 69		67	75		
26/10/12	13:00	Fine	66.6	68.5	64.0	69	67	75
Location:	M4b - Victoria Centre							

 Date
 Time
 Weather
 Measurement Noise Level
 Baseline Noise Level
 Construction Noise Level
 Limit Level

 Unit:
 dBaseline
 dBaseli

Date	Lime	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
05/10/12	13:50	Fine	72.0	73.0	70.5	67	70	75
09/10/12	13:40	Fine	72.4	73.5	70.5	67	71	75
16/10/12	13:45	Sunny	72.0	73.0	70.5	67	70	75
26/10/12	13:40	Fine	71.6	73.0	69.5	67	70	75

Location: M5b - City Garden

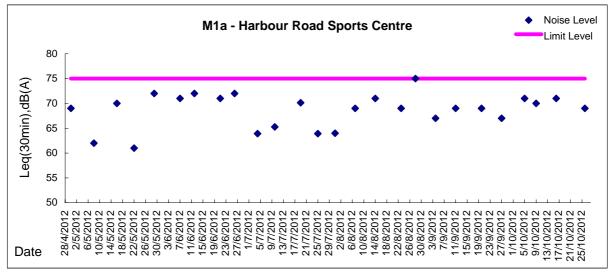
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (30min)	
05/10/12	14:35	Fine	69.5 70.0 68.5			68	64	75
09/10/12	14:25	Fine			69.5	68	69	75
16/10/12	14:25	Fine			70.0	68	70	75
26/10/12	14:30	Fine	70.2 72.0 6		68.0	68	66	75

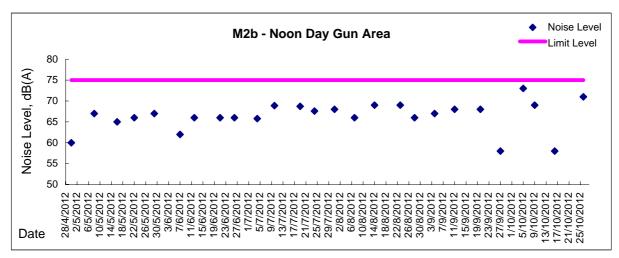
Location: M6 - HK Baptist Church Henrietta Secondary School

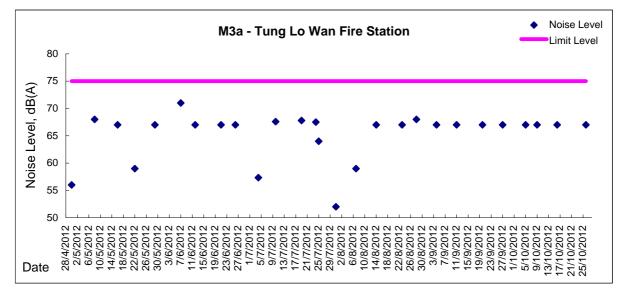
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq
						Unit: dB(A), (3	30-min)	
05/10/12	15:20	Fine	72.5	73.5	70.0	71	68	70
09/10/12	15:10	Fine			71.0	71	70	70
16/10/12	15:35	Fine	73.7	75.0	72.0	71	71	70
26/10/12	15:15	Fine	71.0 72.5 69.0		69.0	71	59	70



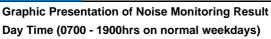
Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

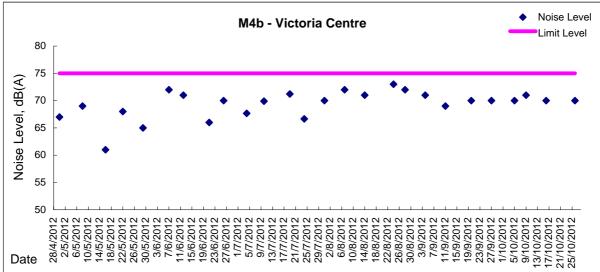


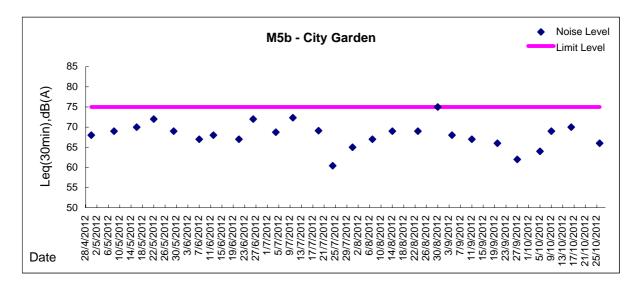


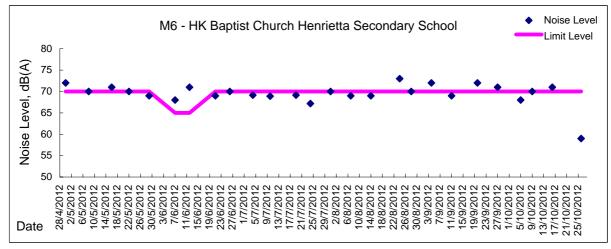














Appendix 5.3

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

am

Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 176.7 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
29-Sep-12	8:00	Fine	004849	2.7393	2.8849	1708.15	1732.15	24.00	1.11	1.11	1.11	1598	91
5-Oct-12	8:00	Fine	004841	2.7506	2.9200	1735.14	1759.14	24.00	1.11	1.20	1.16	1670	101
11-Oct-12	8:00	Fine	003516	2.7926	3.0797	1762.14	1786.14	24.00	1.20	1.16	1.18	1699	169
17-Oct-12	8:00	Fine	003843	2.6832	2.8749	1789.14	1813.14	24.00	1.18	1.16	1.17	1685	114
22-Oct-12	8:00	Fine	003565	2.7752	2.9629	1816.14	1840.14	24.00	1.21	1.18	1.19	1685	111

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

Date	Sampling	Weather	Filter	Filter Weight,	g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m ³
3-Oct-12	8:14	Fine	004848	2.7476	2.7579	1732.14	1733.14	1.00	1.25	1.20	1.23	74	140
3-Oct-12	9:21	Fine	004846	2.7536	2.7605	1733.14	1734.14	1.00	1.02	0.97	0.99	60	116
3-Oct-12	10:38	Fine	004844	2.7688	2.7792	1734.14	1735.14	1.00	1.20	1.20	1.20	72	144
6-Oct-12	13:00	Fine	003577	2.7619	2.7708	1759.14	1760.14	1.00	0.97	0.93	0.95	57	156
6-Oct-12	14:40	Fine	003584	2.7769	2.7850	1760.14	1761.14	1.00	1.11	1.11	1.11	67	122
6-Oct-12	15:45	Fine	003582	2.7807	2.7890	1761.14	1762.14	1.00	1.20	1.16	1.18	71	117
12-Oct-12	8:00	Fine	003834	2.6940	2.7058	1786.14	1787.14	1.00	1.16	1.11	1.14	68	173
12-Oct-12	9:10	Fine	003844	2.7033	2.7200	1787.14	1788.14	1.00	1.21	1.16	1.18	71	236
12-Oct-12	10:30	Fine	003840	2.7146	2.7264	1788.14	1789.14	1.00	1.16	1.16	1.16	70	170
18-Oct-12	8:05	Fine	003562	2.7837	2.7992	1813.14	1814.14	1.00	1.23	1.21	1.22	73	212
18-Oct-12	9:10	Fine	003556	2.7947	2.8129	1814.14	1815.14	1.00	1.21	1.18	1.20	72	254
18-Oct-12	10:15	Fine	003564	2.7779	2.7969	1815.14	1816.14	1.00	1.21	1.18	1.20	72	265
24-Oct-12	8:40	Fine	004076	2.7914	2.8056	1840.14	1841.14	1.00	1.25	1.23	1.24	74	191
24-Oct-12	9:44	Fine	004079	2.7977	2.8108	1841.14	1842.14	1.00	1.23	1.23	1.23	74	178
24-Oct-12	10:49	Fine	004082	2.8188	2.8296	1842.14	1843.14	1.00	1.16	1.16	1.16	70	155

Location: CMA2a - Causeway Bay Community Centre

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

Date	Sampling	Weather	Filter paper	Filter Weigh	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	μ g/m ³
29-Sep-12	8:00	Fine	003379	2.7526	2.9689	11401.62	11425.62	24.00	1.48	1.48	1.48	2131	101
5-Oct-12	8:00	Fine	004842	2.7668	2.9155	11428.62	11452.62	24.00	1.53	1.53	1.53	2203	67
11-Oct-12	8:00	Fine	003581	2.7689	2.9305	11455.62	11479.62	24.00	1.32	1.30	1.31	1886	86
17-Oct-12	8:00	Fine	003580	2.7671	3.0055	11482.61	11506.61	24.00	1.48	1.48	1.48	2131	112
24-Oct-12	12:00	Fine	004084	2.7927	3.0033	11533.99	11557.99	24.00	1.44	1.48	1.46	2102	100

*Due to lack of electricity supply, the 24 hr-TSP was rescheduled form22 Oct 2012 to 24 Oct 2012

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/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-Oct-12	8:26	Fine	004847	2.7365	2.7475	11425.62	11426.62	1.00	1.48	1.48	1.48	89	124
3-Oct-12	9:30	Fine	004845	2.7636	2.7730	11426.62	11427.62	1.00	1.48	1.48	1.48	89	106
3-Oct-12	10:49	Fine	004843	2.7562	2.7657	11427.62	11428.62	1.00	1.48	1.48	1.48	89	107
6-Oct-12	13:00	Fine	003592	2.7758	2.7818	11452.62	11453.62	1.00	1.44	1.44	1.44	86	70
6-Oct-12	14:25	Fine	003585	2.7679	2.7764	11453.52	11454.52	1.00	1.44	1.44	1.44	86	99
6-Oct-12	15:30	Fine	003583	2.7580	2.7659	11454.52	11455.52	1.00	1.44	1.44	1.44	86	92
12-Oct-12	8:00	Fine	003845	2.7018	2.7158	11479.62	11480.62	1.00	1.53	1.53	1.53	92	152
12-Oct-12	9:05	Fine	003514	2.8020	2.8140	11480.62	11481.62	1.00	1.48	1.44	1.46	88	137
12-Oct-12	10:15	Fine	003579	2.7680	2.7823	11481.62	11482.62	1.00	1.48	1.48	1.48	89	161
18-Oct-12	8:05	Fine	003557	2.8005	2.8138	11506.61	11507.61	1.00	1.48	1.48	1.48	89	149
18-Oct-12	9:10	Fine	003563	2.7825	2.7965	11507.61	11508.61	1.00	1.46	1.46	1.46	88	160
18-Oct-12	10:15	Fine	003555	2.8062	2.8221	11508.61	11509.61	1.00	1.48	1.48	1.48	89	179
24-Oct-12	8:28	Fine	004075	2.8176	2.8274	11530.99	11531.99	1.00	1.48	1.48	1.48	89	110
24-Oct-12	9:34	Fine	004078	2.8104	2.8214	11531.99	11532.99	1.00	1.46	1.46	1.46	88	126
24-Oct-12	10:37	Fine	004081	2.8120	2.8237	11532.99	11533.99	1.00	1.46	1.48	1.47	88	133



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	nt, g	Elapse Time	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/m ³
29-Sep-12	8:00	Fine	003540	2.7857	3.0898	12184.90	12208.90	24.00	1.52	1.52	1.52	2189	139
5-Oct-12	8:00	Fine	003616	2.8887	3.1377	12211.88	12235.88	24.00	1.57	1.57	1.57	2261	110
11-Oct-12	8:00	Fine	003591	2.7630	3.1436	12238.88	12262.88	24.00	1.54	1.57	1.56	2246	169
17-Oct-12	8:00	Fine	003567	2.7586	3.1077	12265.88	12289.88	24.00	1.47	1.47	1.47	2117	165
22-Oct-12	8:00	Fine	003236	2.7830	3.0558	12292.88	12316.88	24.00	1.54	1.64	1.59	2290	119

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

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/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-Oct-12	8:00	Fine	003858	2.6930	2.7168	12208.90	12209.90	1.00	1.62	1.62	1.62	97	246
3-Oct-12	9:05	Fine	003519	2.8129	2.8338	12209.90	12210.90	1.00	1.62	1.62	1.62	97	216
3-Oct-12	10:15	Fine	003518	2.8051	2.8232	12210.90	12211.90	1.00	1.71	1.71	1.71	103	176
6-Oct-12	8:05	Fine	003590	2.7566	2.7722	12235.88	12236.88	1.00	1.62	1.62	1.62	97	161
6-Oct-12	9:10	Fine	003587	2.7626	2.7790	12236.88	12237.88	1.00	1.62	1.62	1.62	97	169
6-Oct-12	10:15	Fine	003530	2.7584	2.7810	12237.88	12238.88	1.00	1.62	1.62	1.62	97	233
12-Oct-12	8:10	Fine	003558	2.7947	2.8222	12262.88	12263.88	1.00	1.57	1.57	1.57	94	292
12-Oct-12	9:14	Fine	003598	2.8821	2.9055	12263.88	12264.88	1.00	1.57	1.57	1.57	94	248
12-Oct-12	10:20	Fine	003596	2.8743	2.8915	12264.88	12265.88	1.00	1.72	1.72	1.72	103	167
18-Oct-12	8:04	Fine	003523	2.7591	2.7781	12289.88	12290.88	1.00	1.57	1.59	1.58	95	200
18-Oct-12	9:13	Fine	003521	2.7753	2.7951	12290.88	12291.88	1.00	1.55	1.55	1.55	93	213
18-Oct-12	10:20	Fine	004834	2.7401	2.7588	12291.88	12292.88	1.00	1.59	1.55	1.57	94	198
24-Oct-12	8:10	Fine	003969	2.7388	2.7585	12316.88	12317.88	1.00	1.54	1.50	1.52	91	216
24-Oct-12	9:15	Fine	003967	2.7243	2.7490	12317.88	12318.88	1.00	1.50	1.54	1.52	91	271
24-Oct-12	10:20	Fine	003965	2.7236	2.7475	12318.88	12319.88	1.00	1.54	1.50	1.52	91	262

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level (µg/m3) -171.2 260

Limit	Level	(µg/m3)	- (2

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/m³
3-Oct-12	14:05	Fine	003569	2.7563	2.9794	15624.21	15648.21	24.00	1.18	1.18	1.18	1699	131
5-Oct-12	8:00	Fine	004894	2.7575	2.9279	15648.22	15672.22	24.00	1.23	1.23	1.23	1771	96
11-Oct-12	8:00	Fine	003529	2.7569	3.0586	15675.22	15699.22	24.00	1.23	1.23	1.23	1771	170
17-Oct-12	8:00	Fine	003595	2.8923	3.1054	15702.22	15726.21	23.99	1.29	1.32	1.31	1886	113
22-Oct-12	8:00	Fine	003235	2.7832	2.9832	15729.21	15753.21	24.00	1.32	1.32	1.32	1886	106

* Due to lack of electricity supply, the 24-hr TSP was rescheduled from 29 Sep 2012 to 3 Oct 2012

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 /	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-Oct-12	8:00	Fine	003855	2.7047	2.7194	15621.21	15622.21	1.00	1.23	1.23	1.23	74	199
3-Oct-12	10:00	Fine	003517	2.8139	2.8242	15622.21	15623.21	1.00	1.13	1.13	1.13	68	152
3-Oct-12	13:00	Fine	003570	2.7873	2.7992	15623.21	15624.21	1.00	1.18	1.18	1.18	71	168
6-Oct-12	8:05	Fine	003589	2.7405	2.7509	15672.22	15673.22	1.00	1.23	1.23	1.23	74	141
6-Oct-12	9:12	Fine	003588	2.7635	2.7729	15673.22	15674.22	1.00	1.23	1.23	1.23	74	127
6-Oct-12	10:18	Fine	003537	2.7813	2.7892	15674.22	15675.22	1.00	1.23	1.23	1.23	74	107
12-Oct-12	8:00	Fine	003599	2.8705	2.8870	15699.22	15700.22	1.00	1.26	1.26	1.26	76	218
12-Oct-12	9:05	Fine	003560	2.8016	2.8174	15700.22	15701.22	1.00	1.26	1.23	1.25	75	211
12-Oct-12	10:10	Fine	003597	2.8900	2.9047	15701.22	15702.22	1.00	1.26	1.26	1.26	76	194
18-Oct-12	8:16	Fine	003522	2.7557	2.7698	15726.11	15727.11	1.00	1.35	1.35	1.35	81	175
18-Oct-12	9:25	Fine	004835	2.7379	2.7500	15727.11	15728.11	1.00	1.37	1.37	1.37	82	147
18-Oct-12	10:30	Fine	003377	2.7644	2.7798	15728.11	15729.11	1.00	1.37	1.37	1.37	82	187
24-Oct-12	8:00	Fine	003970	2.7328	2.7450	15753.21	15754.21	1.00	1.41	1.37	1.39	83	146
24-Oct-12	9:05	Fine	003968	2.7296	2.7430	15754.21	15755.21	1.00	1.27	1.34	1.31	78	171
24-Oct-12	10:10	Fine	003966	2.7189	2.7293	15755.21	15756.21	1.00	1.18	1.18	1.18	71	147

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

Report on 24-hour TSP monitoring 181

Action Level (µg/m3) -Limit Level (µg/m3) -260

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/m ³
29-Sep-12	8:00	Fine	004829	2.7496	3.0068	16609.49	16633.49	24.00	1.47	1.47	1.47	2117	122
5-Oct-12	8:00	Fine	004836	2.7308	2.9560	16636.49	16660.48	23.99	1.47	1.47	1.47	2117	106
11-Oct-12	8:00	Fine	003594	2.7712	3.1107	16663.50	16687.50	24.00	1.52	1.52	1.52	2189	155
17-Oct-12	8:00	Fine	003841	2.6978	2.9206	16690.50	16714.50	24.00	1.37	1.48	1.42	2045	109
22-Oct-12	8:00	Fine	003507	2.8030	3.0118	16717.50	16741.50	24.00	1.48	1.48	1.48	2131	98

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 /	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-Oct-12	13:00	Fine	004840	2.7660	2.7779	16633.49	16634.49	1.00	1.28	1.28	1.28	77	155
3-Oct-12	14:20	Fine	003568	2.7624	2.7777	16635.49	16636.49	1.00	1.36	1.36	1.36	82	188
3-Oct-12	15:40	Fine	004837	2.7343	2.7498	16634.49	16635.49	1.00	1.49	1.49	1.49	90	173
6-Oct-12	13:00	Fine	003458	2.8073	2.8187	16660.50	16661.50	1.00	1.36	1.36	1.36	82	140
6-Oct-12	14:11	Fine	003459	2.7975	2.8123	16662.50	16663.50	1.00	1.47	1.47	1.47	88	168
6-Oct-12	15:15	Fine	003461	2.8040	2.8160	16661.50	16662.50	1.00	1.47	1.47	1.47	88	136
12-Oct-12	13:00	Fine	003561	2.7877	2.8049	16687.50	16688.50	1.00	1.36	1.36	1.36	82	210
12-Oct-12	14:18	Fine	003511	2.8093	2.8228	16689.50	16690.50	1.00	1.36	1.36	1.36	82	165
12-Oct-12	16:20	Fine	003510	2.8141	2.8304	16688.50	16689.50	1.00	1.36	1.31	1.33	80	204
18-Oct-12	13:00	Fine	003513	2.7789	2.7931	16714.5	16715.5	1.00	1.37	1.37	1.37	82	173
18-Oct-12	14:03	Fine	003509	2.8038	2.8214	16716.5	16717.5	1.00	1.51	1.51	1.51	91	194
18-Oct-12	15:10	Fine	003554	2.8108	2.8273	16715.5	16716.5	1.00	1.40	1.37	1.39	83	198
24-Oct-12	10:45	Fine	003914	2.7208	2.7350	16741.5	16742.5	1.00	1.48	1.45	1.47	88	161
24-Oct-12	13:00	Fine	003456	2.8099	2.8231	16743.5	16744.5	1.00	1.48	1.48	1.48	89	149
24-Oct-12	14:20	Fine	003960	2.7304	2.7430	16742.5	16743.5	1.00	1.42	1.48	1.45	87	145

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

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

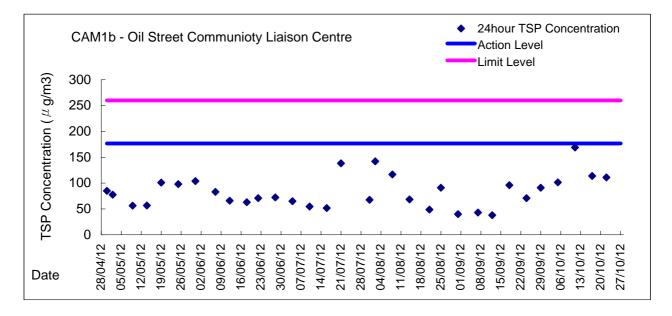
Date	Sampling	Weather	Filter paper	Filter Weigh	it, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
29-Sep-12	8:00	Fine	003471	2.7930	2.9579	14932.01	14956.01	24.00	1.18	1.18	1.18	1699	97
5-Oct-12	8:00	Fine	003526	2.7522	2.8966	14959.02	14983.02	24.00	1.23	1.23	1.23	1771	82
11-Oct-12	8:00	Fine	003593	2.7690	3.0700	14986.02	15010.02	24.00	1.23	1.23	1.23	1771	170
17-Oct-12	8:00	Fine	003578	2.7731	2.9350	15013.02	15037.02	24.00	1.14	1.27	1.21	1742	93
22-Oct-12	8:00	Fine	003552	2.8022	3.0591	15040.02	15064.02	24.00	1.16	1.18	1.17	1685	152

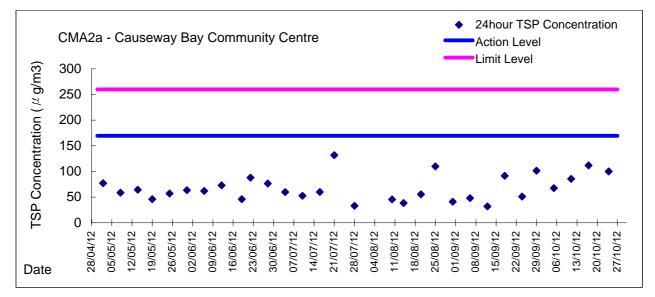
Report on 1-hour TSP monitoring Action Level - 300.1 μ g/m³ Limit Level - 500 μ g/m3

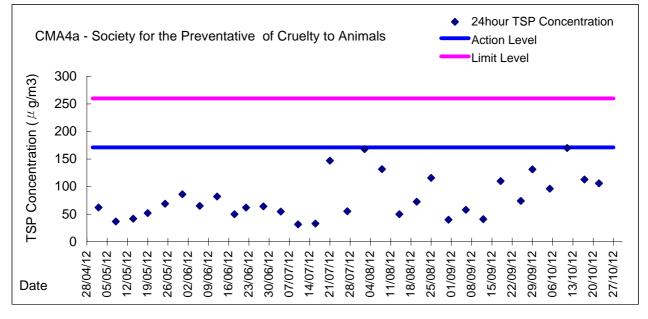
Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
3-Oct-12	13:00	Fine	004839	2.7312	2.7422	14956.07	14957.07	1.00	1.18	1.18	1.18	71	155
3-Oct-12	14:05	Fine	004838	2.7339	2.7430	14957.07	14958.07	1.00	1.18	1.18	1.18	71	129
3-Oct-12	15:10	Fine	003600	2.8813	2.8955	14958.07	14959.07	1.00	1.27	1.37	1.32	79	179
6-Oct-12	8:15	Fine	003457	2.8034	2.8137	14983.02	14984.02	1.00	1.23	1.23	1.23	74	140
6-Oct-12	9:30	Fine	003475	2.8004	2.8087	14984.02	14985.02	1.00	1.23	1.23	1.23	74	113
6-Oct-12	13:00	Fine	003586	2.7666	2.7716	14985.02	14986.02	1.00	1.23	1.23	1.23	74	68
12-Oct-12	13:00	Fine	003560	2.7867	2.8050	15010.02	15011.02	1.00	1.23	1.23	1.23	74	248
12-Oct-12	14:05	Fine	003512	2.7954	2.8101	15011.02	15012.02	1.00	1.23	1.23	1.23	74	199
12-Oct-12	15:10	Fine	003842	2.6932	2.7050	15012.02	15013.02	1.00	1.23	1.23	1.23	74	160
18-Oct-12	13:00	Fine	003508	2.7978	2.8123	15037.02	15038.02	1.00	1.21	1.21	1.21	73	200
18-Oct-12	14:05	Fine	003551	2.7977	2.8124	15038.02	15039.02	1.00	1.19	1.19	1.19	71	206
18-Oct-12	15:10	Fine	003553	2.8130	2.8262	15039.02	15040.02	1.00	1.23	1.23	1.23	74	179
24-Oct-12	10:30	Fine	003913	2.7277	2.7407	15064.02	15065.02	1.00	1.23	1.23	1.23	74	176
24-Oct-12	13:00	Fine	003962	2.7265	2.7387	15065.02	15066.02	1.00	1.21	1.21	1.21	72	168
24-Oct-12	14:05	Fine	003961	2.7372	2.7519	15066.02	15067.02	1.00	1.21	1.21	1.21	72	203



Graphic Presentation of 24 hour TSP Result









12/05/12

9/05/12 26/05/12 16/06/12 23/06/12

02/06/12 09/06/12

28/04/12 05/05/12

Date

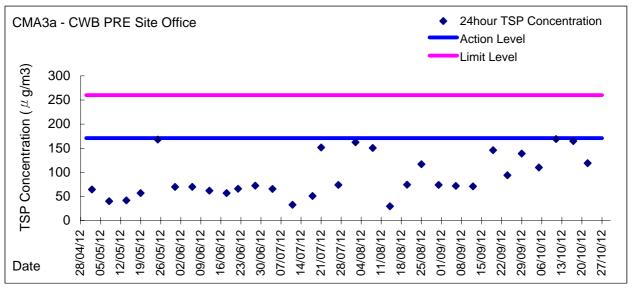
13/10/12

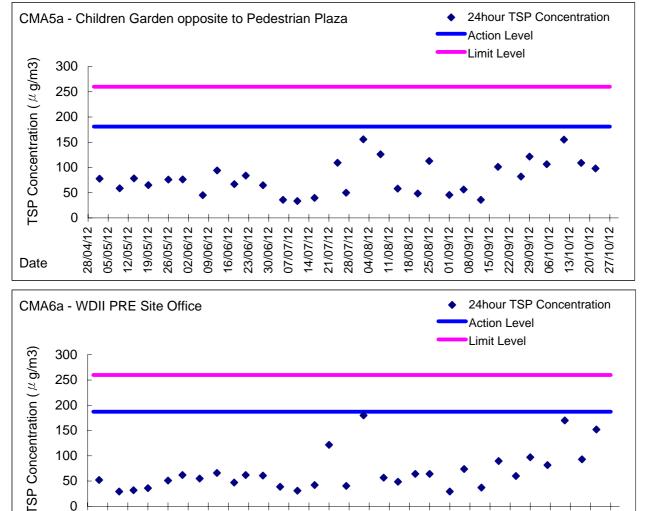
20/10/12

27/10/12

06/10/12

Graphic Presentation of 24 hour TSP Result





14/07/12

30/06/12 07/07/12 28/07/12

11/08/12

04/08/12

25/08/12

01/09/12 08/09/12

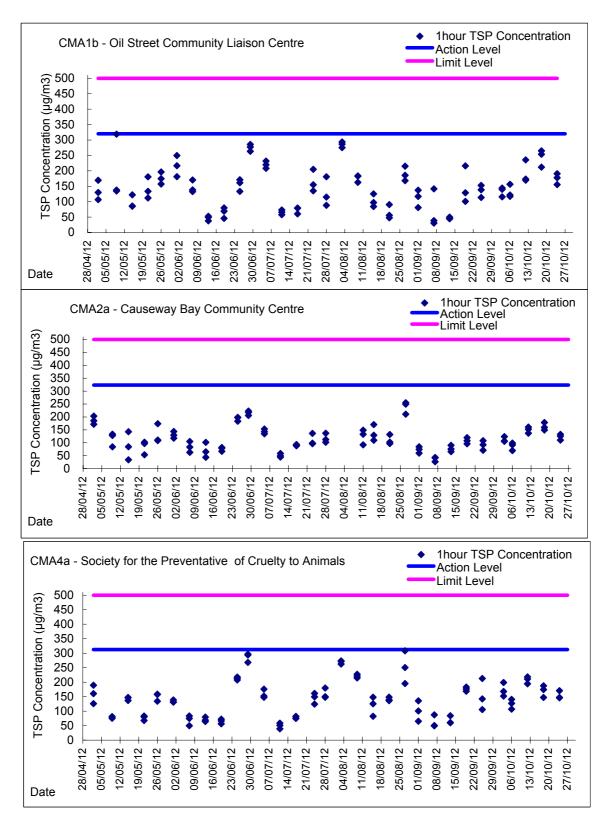
18/08/12

15/09/12 22/09/12 29/09/12

21/07/12

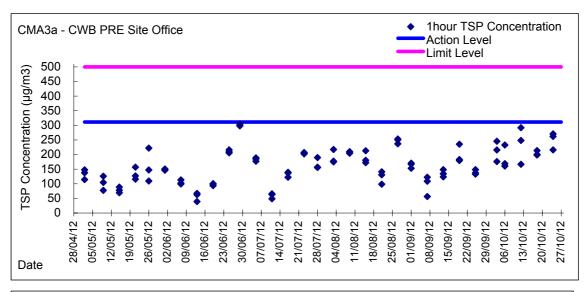


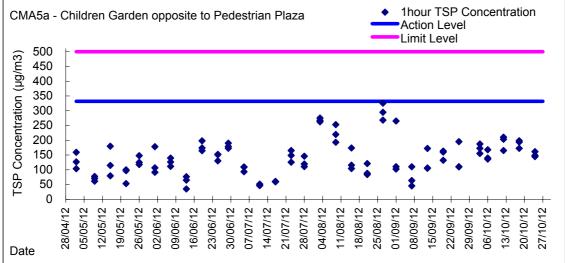
Graphic Presentation of 1 hour TSP Result

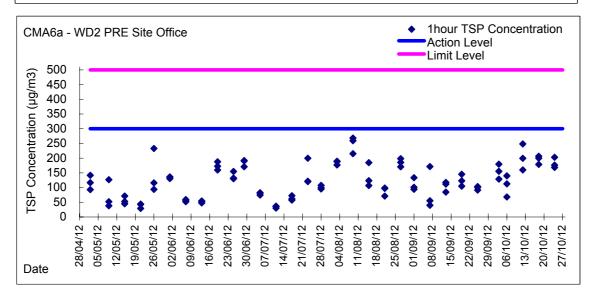




Graphic Presentation of 1 hour TSP Result

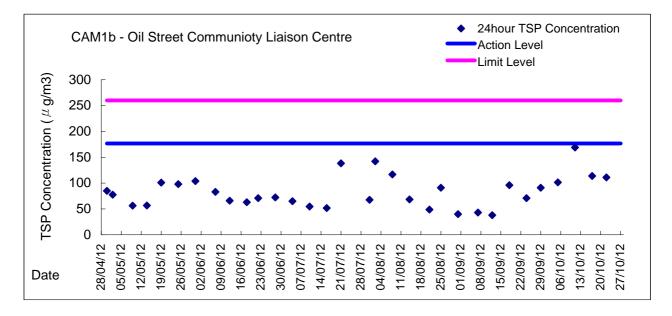


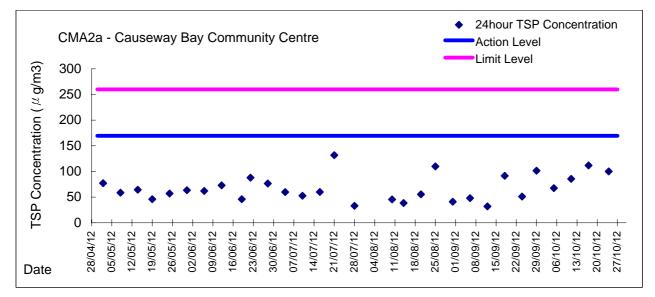


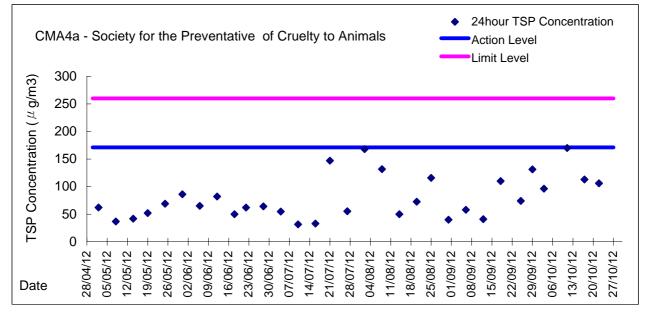




Graphic Presentation of 24 hour TSP Result

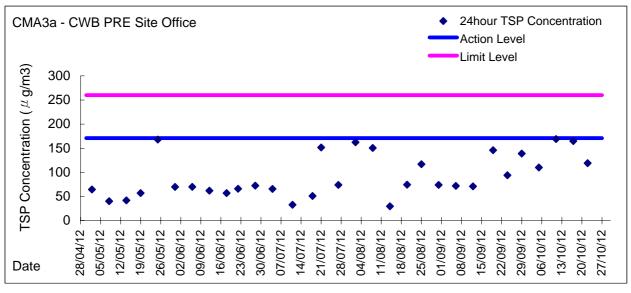


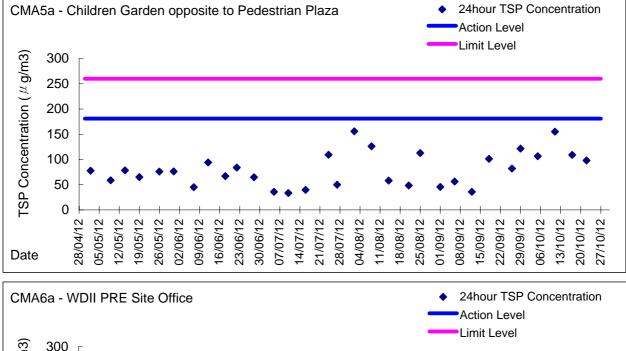


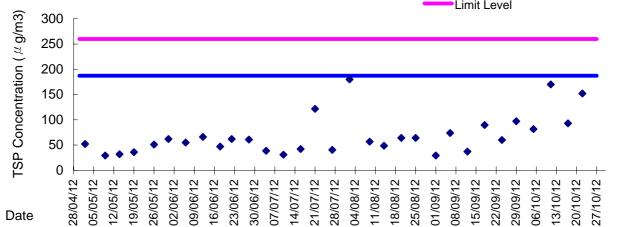




Graphic Presentation of 24 hour TSP Result









Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTL		Suspend	ed Solids
		Contaition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/9/2012	17:04	Fine	Middle	2.5	28.10	28.10	28.10	8.45	8.45	8.45	33.11	33.11	33.12	78.4	78.3	79.1	5.12	5.12	5.15	6.93	6.84	6.81	8	8.00
20/9/2012	17:06	Fille	Middle	2.5	28.10	28.10	20.10	8.45	8.45	0.45	33.12	33.12	55.1Z	79.9	79.7	79.1	5.19	5.18	5.15	6.74	6.73	0.01	8	8.00
2/10/2012	6:23	Fine	Middle	2.5	26.70	26.70	26.70	8.50	8.50	8.50	32.96	32.96	32.96	83.7	85.3	83.7	5.58	5.69	5.59	6.78	6.98	6.89	9	14.00
2/10/2012	6:24	1 IIIC	Middle	2.5	26.70	26.70	20.70	8.50	8.49	0.00	32.96	32.96	32.30	82.6	83.3	00.7	5.51	5.56	0.00	6.91	6.87	0.05	19	14.00
4/10/2012	7:15	Fine	Middle	2.5	27.10	27.10	27.10	8.39	8.39	8.39	32.81	32.81	32.83	73.7	73.4	73.4	4.89	4.86	4.86	5.94	5.47	5.65	8	8.00
	7:17		Middle	2.5	27.10	27.10		8.39	8.39		32.84	32.84		73.0	73.4		4.83	4.86		5.76	5.42		8	
6/10/2012	7:42	Fine	Middle	2.5	27.00	27.00	27.00	8.34	8.34	8.35	32.16	32.16	32.17	71.6	71.5	71.5	4.73	4.73	4.73	5.04	4.97	4.99	5	5.00
	7:44		Middle	2.5	27.00	27.00		8.36	8.36		32.18	32.18		71.1	71.7		4.70	4.74		5.05	4.91		5	
8/10/2012	18:35	Cloudy	Middle	2.5	27.70	27.70	27.70	8.54	8.54	8.53	33.15	33.15	33.15	80.7	81.4	81.5	5.38	5.43	5.44	4.32	4.50	4.51	5	6.50
	18:37	-	Middle	2.5	27.70	27.70		8.51	8.51		33.15	33.15		82.4	81.3		5.50	5.43		4.59	4.61		8	
10/10/2012	15:55	Fine	Middle	2.5	27.50	27.50	27.55	8.46	8.46	8.46	33.39	33.39	33.40	83.4	84.7	83.9	5.46	5.54	5.49	3.83	3.88	3.76	5	5.00
	15:57		Middle	2.5	27.60	27.60		8.46	8.46		33.40	33.40		84.4	83.1		5.52	5.43		3.68	3.64		5	<u> </u>
13/10/2012	17:57	Fine	Middle	3.0	26.80	26.80	26.80	8.54	8.54	8.54	33.11	33.11	33.11	86.0	86.1	85.9	5.71	5.72	5.70	6.38	6.44	6.41	8	9.00
	17:59		Middle	3.0	26.80	26.80		8.54	8.54		33.10	33.10		85.3	86.2		5.66	5.71		6.41	6.40		10	<u> </u>
15/10/2012	16:55	Fine	Middle	2.5	26.80	26.80	26.80	8.47	8.47	8.47	32.98	32.98	32.98	85.9	85.2	86.0	5.74	5.69	5.74	6.26	6.62	6.27	8	8.00
	16:56		Middle	2.5	26.80	26.80		8.47	8.47		32.98	32.98		86.4	86.3		5.77	5.77		6.22	5.97		8	<u> </u>
17/10/2012	17:32	Cloudy	Middle	2.5	26.50	26.50	26.50	8.50	8.50	8.50	33.32	33.32	33.32	84.3	84.6	85.1	5.63	5.68	5.72	6.26	6.72	6.38	7	7.00
	17:33		Middle	2.5	26.50	26.50		8.50	8.50		33.32	33.32		85.2	86.4		5.74	5.81		6.12	6.40		7	<u> </u>
20/10/2012	11:55	Fine	Middle	2.5	26.70	26.70	26.60	8.44	8.44	8.44	33.02	33.02	33.01	79.2	78.9	78.9	5.28	5.26	5.26	6.31	6.44	6.33	8	9.00
	11:57		Middle	2.5	26.50	26.50		8.44	8.44		33.00	33.00		79.2	78.2		5.29	5.22		6.22	6.36		10	<u> </u>
22/10/2012	9:30	Fine	Middle	2.5	27.30	27.30	27.35	8.37	8.37	8.37	33.34	33.34	33.34	80.8	80.1	80.4	5.30	5.26	5.27	4.36	4.10	4.34	5	5.00
	9:32		Middle	2.5	27.40	27.40		8.37	8.37		33.34	33.34		80.5	80.2		5.27	5.25		4.34	4.55		5	<u> </u>
25/10/2012	16:00	Fine	Middle	2.5	26.40	26.40	26.40	8.51	8.51	8.50	33.50	33.50	33.50	84.8	85.9	84.3	5.65	5.72	5.62	6.90	6.13	6.12	12	11.00
	16:02		Middle	2.5	26.40	26.40		8.49	8.49		33.49	33.49		85.2	81.4		5.68	5.42		5.92	5.51		10	<u> </u>
27/10/2012	16:22	Cloudy	Middle	2.5	26.00	26.00	26.00	8.50	8.50	8.48	33.56	33.56	33.57	89.7	90.1	90.2	6.02	6.05	6.05	5.63	5.79	5.72	7	6.50
	16:24		Middle	2.5	26.00	26.00		8.46	8.46		33.57	33.57		90.3	90.5		6.06	6.08		5.56	5.88		6	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			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		Average	Va	lue	Average	Value	Average
00/0/0010	18:10	Fig.	Middle	3.5	27.60	27.60	07.70	8.52	8.52	0.50	33.11	33.11	00.40	78.8	78.0	70.4	5.13	5.08	5.44	12.70	11.60	44.75	20	01.00
28/9/2012	18:12	Fine	Middle	3.5	27.80	27.80	27.70	8.52	8.52	8.52	33.12	33.12	33.12	77.4	79.3	78.4	5.04	5.17	5.11	11.40	11.30	<u>11.75</u>	22	- <u>21.00</u>
2/10/2012	9:46	Fine	Middle	3.0	26.70	26.70	26.70	8.60	8.60	8.60	33.07	33.07	33.07	90.3	90.7	90.6	6.01	6.04	6.03	6.62	6.75	6.49	5	5.50
2/10/2012	9:47	1 ine	Middle	3.0	26.70	26.70	20.70	8.60	8.60	0.00	33.07	33.07	33.07	90.6	90.6	30.0	6.04	6.04	0.03	6.41	6.19	0.49	6	5.50
4/10/2012	9:17	Fine	Middle	3.0	27.40	27.40	27.40	8.48	8.48	8.48	33.40	33.40	33.42	75.4	74.8	75.0	4.95	4.89	4.92	19.00	19.60	<u>19.08</u>	31	<u>31.50</u>
	9:19	1 110	Middle	3.0	27.40	27.40	21110	8.47	8.47	0.10	33.43	33.43	00112	74.4	75.5	10.0	4.88	4.96		18.80	18.90		32	<u>•</u>
6/10/2012	9:41	Fine	Middle	3.5	27.20	27.20	27.25	8.37	8.37	8.37	32.48	32.48	32.49	70.2	69.8	70.3	4.64	4.62	4.65	6.66	6.87	6.68	9	9.50
6,10,2012	9:43	1 1110	Middle	3.5	27.30	27.30	27.20	8.36	8.36	0.07	32.49	32.49	02.10	70.3	70.9	10.0	4.65	4.68		6.66	6.53	0.00	10	0.00
8/10/2012	17:44	Cloudy	Middle	2.5	27.30	27.30	27.30	8.55	8.55	8.55	33.46	33.46	33.47	80.2	80.7	80.5	5.28	5.27	5.29	9.98	10.00	<u>9.95</u>	10	10.00
	17:46		Middle	2.5	27.30	27.30		8.55	8.55		33.48	33.48		80.7	80.4		5.31	5.29		9.98	9.85		10	
10/10/2012	13:35	Fine	Middle	3.5	27.50	27.50	27.55	8.49	8.49	8.49	33.21	33.21	33.21	80.5	80.0	80.3	5.27	5.24	5.26	4.96	4.95	4.93	11	- 11.00
	13:37		Middle	3.5	27.60	27.60		8.49	8.49		33.21	33.21		80.6	80.2		5.27	5.25		4.85	4.96		11	
13/10/2012	16:16	Fine	Middle	3.5	26.70	26.70	26.80	8.56	8.56	8.55	33.63	33.63	33.63	87.1	86.8	86.4	5.74	5.72	5.69	10.60	10.60	10.00	13	- 13.00
	16:18		Middle	3.5	26.90	26.90		8.53	8.53		33.63	33.63		85.9	85.6		5.66	5.64		9.44	9.37		13	
15/10/2012	18:50	Fine	Middle	3.0	26.40	26.40	26.40	8.58	8.58	8.58	31.89	31.89	31.89	94.3	94.6	94.8	6.30	6.32	6.34	8.06	8.31	8.14	14	15.00
	18:51		Middle	3.0	26.40	26.40		8.58	8.58		31.89	31.89		95.0	95.3		6.35	6.38		8.11	8.08		16	
17/10/2012	20:05	Cloudy	Middle	2.5	26.60	26.60	26.60	8.52	8.52	8.52	33.76	33.76	33.76	86.3	86.0	87.5	5.73	5.71	5.81	7.17	7.14	7.18	10	10.50
	20:06		Middle	2.5	26.60	26.60		8.52	8.52		33.76	33.76		88.4	89.4		5.87	5.94		7.43	6.97		11	
20/10/2012	10:55	Fine	Middle	3.5	26.40	26.40	26.35	8.51	8.51	8.51	33.41	33.41	33.41	86.1	86.5	86.4	5.75	5.71	5.76	11.40	11.70	<u>11.35</u>	15	<u>16.00</u>
	10:57		Middle	3.5	26.30	26.30		8.51	8.51		33.40	33.40		86.8	86.1		5.81	5.76		12.00	10.30		17	
22/10/2012	13:15	Fine	Middle	3.0	26.70	26.70	26.80	8.39	8.39	8.39	33.06	33.06	33.06	73.2	72.8	72.7	4.85	4.82	4.81	11.60	10.90	<u>11.08</u>	15	<u>15.50</u>
	13:17		Middle	3.0	26.90	26.90		8.39	8.39		33.06	33.06		72.0	72.7		4.77	4.81		10.60	11.20		16	
25/10/2012	14:35	Fine	Middle	2.5	26.60	26.60	26.55	8.48	8.48	8.48	33.66	33.66	33.66	73.0	77.6	75.2	4.86	5.21	5.04	10.30	10.60	<u>10.19</u>	11	11.50
	14:38		Middle	2.5	26.50	26.50		8.47	8.47		33.65	33.65		73.9	76.1		4.95	5.12		10.10	9.76		12	<u> </u>
27/10/2012	14:49	Cloudy	Middle	4.0	26.20	26.20	26.25	8.45	8.45	8.45	33.74	33.74	33.75	80.1	81.2	80.9	5.35	5.42	5.40	4.21	4.07	4.08	6	6.50
	14:51		Middle	4.0	26.30	26.30		8.44	8.44		33.75	33.75		80.1	82.0		5.35	5.48		4.03	4.02		7	

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTL		Suspend	
		Condition	n	n	Va	ilue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
00/0/0010	19:33	Fire	Middle	2.0	27.80	27.80	07.00	8.40	8.40	0.40	32.98	32.98	00.00	71.8	72.0	70.4	4.70	4.71	4.74	6.82	6.67	0.00	12	44.50
28/9/2012	19:35	Fine	Middle	2.0	27.80	27.80	27.80	8.39	8.39	8.40	32.98	32.98	32.98	73.1	71.3	72.1	4.78	4.66	4.71	6.82	6.88	6.80	11	11.50
2/10/2012	9:20	Fine	Middle	2.0	27.10	27.10	27.10	8.44	8.44	8.44	32.83	32.83	32.83	81.9	80.8	81.4	5.43	5.35	5.39	9.93	9.92	10.04	12	12.00
2/10/2012	9:21	Fille	Middle	2.0	27.10	27.10	27.10	8.44	8.44	0.44	32.83	32.83	32.03	81.4	81.3	01.4	5.39	5.38	5.59	10.10	10.20	10.04	12	12.00
4/10/2012	11:54	Fine	Middle	2.0	27.40	27.40	27.40	8.49	8.49	8.48	32.69	32.69	32.70	80.3	79.4	80.6	5.29	5.23	5.31	8.30	8.10	8.25	12	11.50
4/10/2012	11:56	T IIIC	Middle	2.0	27.40	27.40	21.40	8.46	8.46	0.40	32.70	32.70	02.10	81.2	81.6	00.0	5.35	5.37	0.01	8.21	8.39	0.20	11	11.00
6/10/2012	12:45	Fine	Middle	2.0	27.50	27.50	27.50	8.57	8.57	8.58	31.59	31.59	31.60	95.2	95.7	95.7	6.27	6.39	6.34	7.34	7.40	7.43	9	8.50
0/10/2012	12:47	T IIIC	Middle	2.0	27.50	27.50	27.00	8.58	8.58	0.00	31.60	31.60	01.00	95.9	96.0	56.7	6.34	6.36	0.04	7.48	7.50	1.40	8	0.00
8/10/2012	17:08	Cloudy	Middle	2.0	27.40	27.40	27.40	8.37	8.37	8.37	32.70	32.70	32.70	66.5	65.6	66.6	4.38	4.32	4.39	5.18	5.28	5.35	6	5.50
	17:10		Middle	2.0	27.40	27.40		8.37	8.37		32.70	32.70		68.8	65.6		4.53	4.32		5.46	5.49		5	
10/10/2012	13:22	Fine	Middle	2.5	27.30	27.30	27.30	7.35	7.35	7.36	32.19	32.19	32.19	53.0	52.5	53.0	3.51	3.48	3.51	9.88	9.88	<u>9.75</u>	19	20.00
	13:23		Middle	2.5	27.30	27.30		7.36	7.36		32.18	32.18		53.5	52.9		3.55	3.51		9.59	9.63		21	
13/10/2012	15:59	Fine	Middle	2.0	26.70	26.70	26.80	8.46	8.46	8.46	32.81	32.81	32.81	64.1	63.4	63.2	4.25	4.21	4.19	14.00	13.10	13.20	16	<u>16.00</u>
	16:01		Middle	2.0	26.90	26.90		8.45	8.45		32.81	32.81		62.8	62.3		4.17	4.13		13.00	12.70		16	
15/10/2012	18:22	Fine	Middle	2.0	27.20	27.20	27.20	8.41	8.41	8.41	32.80	32.80	32.80	86.0	87.4	86.6	5.90	5.98	5.86	7.09	7.00	7.12	12	11.50
	18:23		Middle	2.0	27.20	27.20		8.41	8.41		32.80	32.80		86.6	86.4		5.81	5.73		7.40	6.98		11	
17/10/2012	19:20	Cloudy	Middle	2.0	26.60	26.60	26.60	8.38	8.38	8.38	32.66	32.66	32.66	86.4	87.3	86.6	5.77	5.83	5.79	9.03	8.98	8.95	11	11.50
	19:21		Middle	2.0	26.60	26.60		8.38	8.38		32.66	32.66		86.6	86.2		5.79	5.76		9.01	8.78		12	
20/10/2012	10:38	Fine	Middle	2.0	26.30	26.30	26.30	8.40	8.40	8.40	32.88	32.88	32.87	86.4	85.2	85.7	5.78	5.71	5.75	9.98	9.97	<u>9.82</u>	12	12.50
	10:40		Middle	2.0	26.30	26.30		8.40	8.40		32.85	32.85		87.3	84.0		5.86	5.64		9.63	9.68		13	
22/10/2012	12:59	Fine	Middle	2.0	26.80	26.80	26.85	8.32	8.32	8.32	32.67	32.67	32.67	68.5	67.7	68.2	4.55	4.50	4.53	9.68	9.35	<u>9.46</u>	7	6.50
	13:01		Middle	2.0	26.90	26.90		8.32	8.32		32.66	32.66		69.0	67.7		4.56	4.50		9.32	9.47		6	
25/10/2012	14:20	Fine	Middle	2.0	26.50	26.50	26.50	8.35	8.35	8.35	32.83	32.83	32.83	82.2	81.4	81.5	5.52	5.43	5.45	14.30	13.90	<u>13.95</u>	24	<u>24.00</u>
	14:22		Middle	2.0	26.50	26.50		8.35	8.35		32.83	32.83		79.2	83.3		5.29	5.57		14.20	13.40		24	
27/10/2012	14:50	Cloudy	Middle	2.0	26.30	26.30	26.30	7.55	7.55	7.55	32.46	32.46	32.46	60.4	61.4	61.4	4.06	4.13	4.13	7.33	8.40	8.00	12	12.00
	14:52		Middle	2.0	26.30	26.30		7.55	7.55		32.46	32.46		61.7	62.0		4.15	4.17		8.46	7.79		12	

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

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU			led Solids a/L
		Condition	r	n	Va		Average	Va	- lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Value	g/L Average
00/0/0010	19:23	Fig.	Middle	2.0	27.80	27.80	07.00	8.41	8.41	0.44	32.50	32.50	32.50	74.4	72.4	72.8	4.87	4.75	4.77	7.63	7.66	7.74	10	
28/9/2012	19:25	Fine	Middle	2.0	27.80	27.80	27.80	8.40	8.40	8.41	32.50	32.50	32.50	71.9	72.3	72.8	4.71	4.74	4.77	7.84	7.70	7.71	8	9.00
2/10/2012	9:05	Fine	Middle	2.0	27.30	27.30	27.30	8.40	8.40	8.40	32.72	32.72	32.72	74.6	75.1	74.5	4.95	4.96	4.93	6.97	6.83	7.00	11	10.50
2/10/2012	9:06	TITE	Middle	2.0	27.30	27.30	21.30	8.40	8.40	0.40	32.72	32.72	52.72	74.4	73.9	74.5	4.92	4.88	4.95	7.08	7.13	7.00	10	10.50
4/10/2012	11:40	Fine	Middle	1.5	27.80	27.80	27.80	8.35	8.35	8.35	33.16	33.16	33.17	66.7	66.7	67.2	4.35	4.35	4.39	9.60	9.62	9.52	8	8.50
1710/2012	11:42	1 110	Middle	1.5	27.80	27.80	21.00	8.35	8.35	0.00	33.18	33.18	00.11	67.5	67.9	01.12	4.41	4.43		9.39	9.48	0.01	9	0.00
6/10/2012	12:29	Fine	Middle	2.0	27.90	27.90	28.00	8.38	8.38	8.37	33.00	33.00	33.00	62.3	61.9	61.9	4.06	4.04	4.04	11.50	10.90	<u>11.23</u>	14	14.50
0,10,2012	12:31	1 110	Middle	2.0	28.10	28.10	20.00	8.36	8.36	0.07	33.00	33.00	00.00	61.7	61.6	0110	4.04	4.03		11.20	11.30	<u></u>	15	1 1100
8/10/2012	16:48	Cloudy	Middle	2.0	27.40	27.40	27.40	8.27	8.27	8.27	32.14	32.14	32.15	63.5	63.0	63.2	4.20	4.16	4.18	8.05	8.07	8.04	8	7.00
	16:50	,	Middle	2.0	27.40	27.40		8.27	8.27	-	32.15	32.15		63.9	62.3		4.23	4.11		8.12	7.93		6	
10/10/2012	13:29	Fine	Middle	2.0	27.80	27.80	27.70	7.44	7.44	7.44	32.07	32.07	32.08	52.5	52.1	52.2	3.46	3.43	3.44	6.35	6.87	6.65	15	15.00
	13:30		Middle	2.0	27.60	27.60		7.44	7.44		32.09	32.09		51.8	52.3	-	3.41	3.44	-	6.68	6.70		15	
13/10/2012	15:40	Fine	Middle	2.0	27.30	27.30	27.35	8.41	8.41	8.41	32.74	32.74	32.75	68.7	68.6	68.8	4.54	4.53	4.55	10.50	10.50	<u>10.50</u>	13	12.50
	15:42		Middle	2.0	27.40	27.40		8.40	8.40		32.75	32.75		68.4	69.5		4.52	4.59		10.50	10.50		12	
15/10/2012	18:10	Fine	Middle	2.0	27.00	27.00	27.00	8.37	8.37	8.37	33.19	33.19	33.19	81.9	81.9	82.0	5.43	5.42	5.43	7.84	6.95	7.29	11	- 11.50
	18:11		Middle	2.0	27.00	27.00		8.37	8.37		33.19	33.19		81.9	82.2		5.42	5.44		7.23	7.13		12	<u> </u>
17/10/2012	19:05	Cloudy	Middle	2.0	27.00	27.00	26.95	8.40	8.40	8.40	33.08	33.09	33.08	85.9	87.5	86.8	5.73	5.83	5.79	6.41	6.78	6.73	12	12.50
	19:06		Middle	2.0	26.90	26.90		8.40	8.40		33.08	33.08		87.2	86.4		5.83	5.77		6.69	7.05		13	<u> </u>
20/10/2012	10:25	Fine	Middle	2.0	26.70	26.70	26.70	8.38	8.38	8.38	32.81	32.81	32.83	69.3	69.4	69.4	4.62	4.63	4.63	9.50	9.56	<u>9.37</u>	12	12.50
	10:26		Middle	2.0	26.70	26.70		8.38	8.38		32.85	32.85		68.8	70.2		4.58	4.68		9.30	9.12		13	
22/10/2012	12:47	Fine	Middle	2.0	26.80	26.80	26.85	8.32	8.32	8.32	32.67	32.67	32.68	65.4	65.2	65.6	4.35	4.34	4.37	11.80	11.00	<u>10.93</u>	6	6.00
	12:48		Middle	2.0	26.90	26.90		8.32	8.32		32.68	32.68		66.5	65.4		4.42	4.35		10.40	10.50		6	
25/10/2012	14:01	Fine	Middle	1.5	27.00	27.00	27.00	8.35	8.35	8.35	32.68	32.68	32.69	71.2	71.6	71.4	4.71	4.74	4.58	13.50	13.40	<u>13.35</u>	22	22.00
	14:03		Middle	1.5	27.00	27.00		8.35	8.35		32.69	32.69		70.1	72.6		4.06	4.82		13.20	13.30		22	
27/10/2012	14:59	Cloudy	Middle	2.5	26.40	26.40	26.40	7.55	7.55	7.55	32.54	32.54	32.55	61.9	62.5	62.6	4.15	4.20	4.20	9.28	9.98	<u>9.31</u>	11	11.00
	15:01		Middle	2.5	26.40	26.40		7.55	7.55		32.55	32.55		63.0	62.8		4.23	4.22		8.98	8.98		11	

am Water Monitoring Result at C7 - Windsor House

10				
	Mid-Flo	bod	Tide	

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	- ilue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/∟ lue	Average	Va	ilue	Average	mg Value	v∟ Average
28/9/2012	18:58	Fine	Middle	1.5	27.70	27.70	27.70	8.25	8.25	8.25	31.51	31.51	31.52	61.9	64.0	63.8	4.08	4.22	4.21	2.21	2.27	2.28	6	6.00
20/3/2012	19:00	T IIIC	Middle	1.5	27.70	27.70	21.10	8.24	8.24	0.20	31.53	31.53	51.52	64.9	64.4	00.0	4.29	4.25	7.21	2.35	2.29	2.20	6	0.00
2/10/2012	8:30	Fine	Middle	1.5	26.80	26.80	26.80	8.29	8.29	8.28	29.22	29.22	29.28	72.9	73.0	72.3	4.89	4.90	4.84	2.04	2.21	2.09	4	3.50
2,10,2012	8:31	1	Middle	1.5	26.80	26.80	20.00	8.27	8.27	0.20	29.34	29.34	20120	71.8	71.6	12.0	4.79	4.79		2.08	2.04	2.00	3	0.00
4/10/2012	11:21	Fine	Middle	1.5	27.80	27.80	27.85	8.27	8.27	8.28	32.18	32.18	32.18	57.4	57.7	57.9	3.77	3.79	3.80	2.59	2.83	2.77	6	5.50
	11:23		Middle	1.5	27.90	27.90		8.28	8.28		32.18	32.18		58.0	58.5		3.80	3.85		2.73	2.91		5	
6/10/2012	11:58	Fine	Middle	1.5	28.20	28.20	28.25	8.23	8.23	8.24	31.60	31.60	31.61	52.9	52.8	52.1	3.47	3.45	3.53	3.65	3.60	3.53	4	3.50
	12:00	-	Middle	1.5	28.30	28.30		8.25	8.25		31.62	31.62		51.5	51.2	-	3.36	3.84		3.42	3.46		3	
8/10/2012	16:26	Cloudy	Middle	1.5	27.70	27.70	27.75	8.27	8.27	8.27	32.08	32.08	32.08	57.6	57.5	57.8	3.79	3.76	3.80	4.64	4.64	4.63	6	5.00
	16:28		Middle	1.5	27.80	27.80		8.27	8.27		32.08	32.08		58.7	57.3		3.86	3.77		4.70	4.52		4	
10/10/2012	13:49	Fine	Middle	1.5	27.90	27.90	27.90	7.36	7.36	7.36	31.37	31.37	31.38	35.6	34.8	34.6	2.34	2.29	2.27	2.60	2.84	2.79	12	11.00
	13:50		Middle	1.5	27.90	27.90		7.35	7.35		31.39	31.39		34.3	33.7		2.25	2.21		2.88	2.82		10	
13/10/2012	15:22	Fine	Middle	1.5	27.10	27.10	27.15	8.35	8.35	8.36	32.19	32.19	32.20	71.3	72.1	71.9	4.74	4.79	4.77	4.31	4.11	4.11	3	3.00
	15:24		Middle	1.5	27.20	27.20		8.36	8.36		32.20	32.20		71.6	72.6		4.75	4.81		4.00	4.03		3	
15/10/2012	17:50	Fine	Middle	1.5	27.00	27.00	27.00	8.32	8.32	8.32	32.34	32.34	32.34	81.6	82.2	81.7	5.48	5.47	5.45	2.76	2.32	2.49	3	3.50
	17:51		Middle	1.5	27.00	27.00		8.32	8.32		32.34	32.34		81.8	81.3		5.44	5.41		2.47	2.41		4	
17/10/2012	18:40	Cloudy	Middle	1.5	26.70	26.70	26.70	8.30	8.30	8.30	32.02	32.02	32.02	73.9	74.3	74.1	4.96	4.98	4.97	2.67	2.62	2.74	5	4.00
	18:41		Middle	1.5	26.70	26.70		8.30	8.30		32.02	32.02		74.3	74.0		4.98	4.95		2.82	2.86		3	
20/10/2012	9:58	Fine	Middle	1.5	27.00	27.00	27.05	8.38	8.38	8.35	32.34	32.34	32.36	58.0	57.8	58.0	3.85	3.84	3.85	3.97	3.80	3.88	5	4.50
	9:59		Middle	1.5	27.10	27.10		8.32	8.32		32.37	32.37		58.5	57.7		3.89	3.83		3.84	3.90		4	
22/10/2012	12:20	Fine	Middle	1.5	26.80	26.80	26.80	8.20	8.20	8.21	32.11	32.11	32.12	66.4	66.1	66.3	4.43	4.41	4.43	6.79	6.32	6.61	6	6.00
	12:22		Middle	1.5	26.80	26.80		8.21	8.21		32.13	32.13		66.2	66.6		4.42	4.44		6.76	6.58		6	
25/10/2012	13:30	Fine	Middle	1.5	27.30	27.30	27.30	8.42	8.42	8.43	32.29	32.29	32.29	58.1	58.3	58.2	3.83	3.85	3.84	4.55	4.22	4.34	10	11.00
	13:32		Middle	1.5	27.30	27.30		8.44	8.44		32.29	32.29		58.0	58.2		3.82	3.84		4.31	4.27		12	
27/10/2012	15:10	Cloudy	Middle	1.5	26.70	26.70	26.70	7.43	7.43	7.43	32.08	32.08	32.08	45.2	46.7	46.8	3.03	3.13	<u>3.13</u>	4.18	3.64	3.76	5	4.50
	15:12		Middle	1.5	26.70	26.70		7.43	7.43		32.08	32.08		47.6	47.5		3.19	3.18		3.40	3.80		4	

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

Date	Time	Weater Condition	Samplir	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTL			led Solids a/L
		Condition	r	n	Va		Average	Va	lue	Average	Va	ilue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average		Average
28/9/2012	17:05	Fine	Middle	1.5	28.00	28.00	27.90	7.53	7.53	7.53	31.87	31.87	31.88	62.1	61.2	61.8	4.09	4.03	4.07	4.51	4.73	4.61	9	8.00
20/3/2012	17:07	TINC	Middle	1.5	27.80	27.80	27.30	7.53	7.53	7.00	31.89	31.89	51.00	62.8	61.0	01.0	4.14	4.02	4.07	4.53	4.66	4.01	7	0.00
2/10/2012	6:49	Fine	Middle	2.5	26.50	26.50	26.40	7.51	7.51	7.51	32.22	32.22	32.20	55.6	55.3	55.2	3.74	3.72	3.72	1.77	1.73	1.72	5	3.50
	6:51	1 1110	Middle	2.5	26.30	26.30	20110	7.51	7.51		32.17	32.17	02.20	55.1	54.9	0012	3.71	3.69	0.12	1.70	1.69	2	2	0.00
4/10/2012	9:00	Fine	Middle	2.5	27.10	27.10	27.05	7.50	7.50	7.50	32.13	32.13	32.13	59.8	60.0	60.1	3.98	4.00	4.00	4.88	4.70	4.52	9	9.00
	9:02	-	Middle	2.5	27.00	27.00		7.49	7.49		32.13	32.13		60.3	60.1		4.02	4.01		4.26	4.24	-	9	
6/10/2012	10:25	Fine	Middle	2.0	27.30	27.30	27.30	7.46	7.46	7.46	32.20	32.20	32.20	63.5	63.6	63.1	4.21	4.22	4.19	5.62	5.02	5.47	7	7.50
	10:26	-	Middle	2.0	27.30	27.30		7.46	7.46		32.20	32.20		62.0	63.2		4.12	4.19	-	5.50	5.74	-	8	
8/10/2012	15:40	Cloudy	Middle	1.5	27.40	27.40	27.35	7.45	7.45	7.46	32.28	32.28	32.29	57.6	58.6	57.9	3.83	3.88	3.84	2.42	2.77	2.53	6	5.00
	15:42		Middle	1.5	27.30	27.30		7.46	7.46		32.29	32.29		58.1	57.3		3.84	3.79		2.37	2.57		4	
10/10/2012	14:35	Fine	Middle	2.0	27.80	27.80	27.80	7.40	7.40	7.40	32.20	32.20	32.19	51.6	51.9	51.1	3.39	3.41	<u>3.35</u>	3.61	3.86	3.73	10	9.00
	14:37		Middle	2.0	27.80	27.80		7.40	7.40		32.18	32.18		50.6	50.3		3.31	3.30		3.72	3.71		8	
13/10/2012	14:20	Fine	Middle	2.5	26.90	26.90	26.90	7.57	7.57	7.57	32.61	32.61	32.61	66.2	66.1	66.3	4.41	4.40	4.42	3.02	2.84	2.98	4	3.00
	14:22		Middle	2.5	26.90	26.90		7.57	7.57		32.60	32.60		66.5	66.3		4.43	4.42		2.96	3.11		2	
15/10/2012	19:52	Fine	Middle	2.5	26.60	26.60	26.50	7.54	7.54	7.55	32.55	32.55	32.53	65.2	64.9	64.8	4.42	4.40	4.40	2.73	2.71	2.71	9	10.00
	19:54		Middle	2.5	26.40	26.40		7.56	7.56		32.51	32.51		64.7	64.4		4.39	4.37		2.70	2.68		11	
17/10/2012	18:05	Cloudy	Middle	2.5	26.70	26.70	26.60	7.50	7.50	7.48	32.22	32.22	32.22	61.9	61.7	61.6	4.16	4.15	4.14	2.95	2.92	2.92	5	5.00
	18:07		Middle	2.5	26.50	26.50		7.41	7.51		32.22	32.22		61.4	61.2		4.13	4.11		2.91	2.89		5	<u> </u>
20/10/2012	10:30	Fine	Middle	2.0	26.50	26.50	26.90	7.56	7.56	7.56	32.43	32.43	32.44	66.8	67.5	67.5	4.48	4.53	4.54	6.65	7.32	6.76	8	9.00
	10:32		Middle	2.0	28.10	26.50		7.55	7.55		32.44	32.44		67.7	68.1		4.55	4.58		6.63	6.42		10	
22/10/2012	10:48	Fine	Middle	2.0	26.50	26.50	26.45	7.49	7.49	7.49	32.19	32.19	32.19	65.1	64.3	64.5	4.39	4.31	4.37	4.29	3.51	3.78	3	3.00
	10:50		Middle	2.0	26.40	26.40		7.49	7.49		32.19	32.19		64.7	64.0		4.37	4.39		3.57	3.74		3	
25/10/2012	15:23	Fine	Middle	2.0	26.70	26.70	26.65	7.53	7.53	7.54	32.50	32.50	32.51	65.6	64.7	65.3	4.40	4.34 4.37	4.38	3.04	3.00	3.03	10	10.50
	15:25		Middle	2.0	26.60 26.50	26.60		7.54	7.54 7.56		32.51 32.59	32.51 32.59		65.9 69.5	65.1 69.4		4.42	4.37		3.06	3.03 6.56		9	
27/10/2012	16:06 16:08	Cloudy	Middle	1.5		26.50	26.50	7.56		7.56			32.59			69.4	4.67		4.67	6.81		6.65	9	9.00
	16:08		Middle	1.5	26.50	26.50		7.56	7.56		32.59	32.59		69.2	69.6		4.65	4.68		6.46	6.78		9	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature		pН			Salini	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspende	
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/9/2012	16:47	Fine	Middle	1.5	27.90	27.90	27.80	7.55	7.55	7.55	32.03	32.03	32.04	65.8	65.0	65.5	4.33	4.28	4.31	3.20	3.45	3.34	5	5.00
	16:49		Middle	1.5	27.70	27.70		7.54	7.54		32.04	32.04		66.0	65.2		4.34	4.29		3.32	3.37		5	
2/10/2012	6:29	Fine	Middle	2.0	26.30	26.30	26.25	7.48	7.48	7.49	32.37	32.37	32.29	53.7	53.5	53.3	3.62	3.61	3.60	1.90	1.94	2.00	5	5.00
	6:30		Middle	2.0	26.20	26.20		7.50	7.50		32.21	32.21		53.1	52.8		3.59	3.57		2.07	2.10		5	
4/10/2012	8:15	Fine	Middle	2.0	26.90	26.90	26.85	7.44	7.44	7.44	32.03	32.03	32.04	60.5	61.3	61.4	4.06	4.11	4.12	3.06	2.72	2.79	5	5.50
	8:17		Middle	2.0	26.80	26.80		7.44	7.44		32.04	32.04		61.9	61.7		4.15	4.14		2.65	2.74		6	
6/10/2012	9:55	Fine	Middle	2.0	26.80	26.80	26.80	7.46	7.46	7.46	32.22	32.22	32.22	63.3	63.7	63.5	4.23	4.26	4.24	3.41	3.42	3.55	6	6.00
	9:56		Middle	2.0	26.80	26.80		7.46	7.46		32.22	32.22		62.9	63.9		4.21	4.27		3.66	3.70		6	
8/10/2012	15:25	Cloudy	Middle	1.5	26.80	26.80	26.80	6.90	6.90	6.90	32.10	32.10	32.11	56.8	60.8	60.6	3.78	4.04	4.03	2.31	2.02	2.16	5	4.50
	15:27	-	Middle	1.5	26.80	26.80		6.90	6.90		32.11	32.11		62.1	62.6		4.13	4.17		2.32	2.00		4	
10/10/2012	18:42	Fine	Middle	2.0	27.70	27.70	27.70	7.40	7.40	7.41	32.31	32.31	32.32	58.7	59.7	59.3	3.86	3.92	3.89	2.47	2.53	2.56	7	7.50
	18:44		Middle	2.0	27.70	27.70		7.41	7.41		32.32	32.32		59.3	59.3		3.89	3.90		2.58	2.67		8	
13/10/2012	14:02	Fine	Middle	2.0	27.20	27.20	27.20	7.56	7.56	7.56	32.61	32.61	32.61	64.5	64.2	64.5	4.28	4.26	4.28	3.79	3.93	3.86	8	7.50
	14:04		Middle	2.0	27.20	27.20		7.56	7.56		32.61	32.61		64.4	64.8		4.27	4.29		3.88	3.83		7	
15/10/2012	19:35	Fine	Middle	2.5	26.20	26.20	26.10	7.56	7.56	7.57	32.51	32.51	32.48	64.7	64.5	64.4	4.38	4.37	4.37	2.99	2.94	2.94	6	7.00
	19:37		Middle	2.5	26.00	26.00		7.57	7.57		32.44	32.44		64.3	64.1		4.36	4.35		2.91	2.90		8	
17/10/2012	17:45	Cloudy	Middle	2.5	26.20	26.20	26.10	7.53	7.53	7.54	32.13	32.13	32.12	62.2	62.0	61.9	4.21	4.20	4.20	3.57	3.55	3.53	6	5.50
	17:47		Middle	2.5	26.00	26.00		7.54	7.54		32.11	32.11		61.8	61.6		4.19	4.18		3.50	3.49		5	
20/10/2012	10:20	Fine	Middle	1.0	26.00	26.00	26.00	7.33	7.33	7.34	32.23	32.23	32.23	66.2	69.5	68.6	4.50	4.73	4.67	4.88	4.84	4.95	6	6.00
	10:22		Middle	1.0	26.00	26.00		7.34	7.34		32.23	32.23		69.4	69.2		4.72	4.71		5.43	4.64		6	
22/10/2012	10:22	Fine	Middle	1.5	26.40	26.40	26.40	7.47	7.47	7.47	32.17	32.17	32.17	67.5	67.2	67.7	4.57	4.55	4.58	6.83	6.79	7.32	5	4.50
	10:25	-	Middle	1.5	26.40	26.40		7.47	7.47		32.17	32.17		68.0	67.9		4.61	4.60		7.72	7.92		4	
25/10/2012	15:08	Fine	Middle	2.5	26.50	26.50	26.60	7.47	7.47	7.49	32.41	32.41	32.42	63.7	65.2	65.1	4.24	4.35	4.34	6.04	6.00	5.95	16	16.00
	15:10		Middle	2.5	26.70	26.70		7.50	7.50		32.43	32.43		66.6	64.9		4.45	4.33		5.82	5.94		16	
27/10/2012	17:00	Cloudy	Middle	2.0	26.70	26.70	26.65	7.52	7.52	7.52	32.66	32.66	32.66	74.8	74.5	74.5	5.00	4.98	4.98	6.69	7.75	7.19	7	7.00
	17:02	-	Middle	2.0	26.60	26.60		7.52	7.52		32.66	32.66		74.3	74.4		4.96	4.97		7.54	6.76		7	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbic NTU		Suspend	led Solids
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	Average
00/0/0010	18:04	Ein e	Middle	2.5	28.60	28.60	00.50	7.51	7.51	7.50	31.79	31.79	04.00	52.9	52.3	50.0	3.45	3.42	0.40	2.60	2.54	0.50	4	
28/9/2012	18:06	Fine	Middle	2.5	28.40	28.40	28.50	7.52	7.52	7.52	31.80	31.80	31.80	53.4	52.8	52.9	3.50	3.46	3.46	2.55	2.66	2.59	6	5.00
2/10/2012	8:11	Fine	Middle	3.0	26.50	26.50	26.45	7.51	7.51	7.52	32.43	32.43	32.44	52.3	52.0	52.0	3.48	3.47	3.46	2.58	2.53	2.53	9	9.00
2,10,2012	8:15	1 110	Middle	3.0	26.40	26.40	20.40	7.53	7.53	1.02	32.45	32.45	02.11	51.8	51.8	02.0	3.45	3.45	0.40	2.50	2.49	2.00	9	0.00
4/10/2012	9:55	Fine	Middle	2.5	27.50	27.50	27.50	7.46	7.46	7.46	31.95	31.95	31.95	56.9	57.2	58.0	3.78	3.80	3.85	2.48	2.64	2.56	5	5.00
	9:57		Middle	2.5	27.50	27.50		7.46	7.46		31.95	31.95		58.7	59.1		3.90	3.91		2.60	2.51		5	
6/10/2012	11:25	Fine	Middle	1.5	27.20	27.20	27.20	7.34	7.34	7.34	31.78	31.78	31.78	46.3	46.5	46.3	3.90	3.10	<u>3.29</u>	3.31	3.59	3.35	4	4.50
0,10,2012	11:27	1 1110	Middle	1.5	27.20	27.20	27.20	7.34	7.34		31.77	31.77	00	46.0	46.4	10.0	3.07	3.10	0.20	3.30	3.18	0.00	5	
8/10/2012	16:40	Cloudy	Middle	2.5	27.70	27.70	27.70	7.43	7.43	7.44	32.15	32.15	32.15	54.7	55.4	55.8	3.62	3.67	3.69	3.24	3.10	3.18	5	5.00
	16:42		Middle	2.5	27.70	27.70		7.44	7.44		32.15	32.15		56.3	56.6		3.73	3.75		3.18	3.21		5	
10/10/2012	15:23	Fine	Middle	3.0	28.00	28.00	28.05	7.40	7.40	7.40	31.92	31.92	31.93	43.3	43.2	43.5	2.85	2.84	<u>2.86</u>	3.14	3.20	3.11	16	16.00
	15:25		Middle	3.0	28.10	28.10		7.40	7.40		31.93	31.93		43.6	43.8		2.87	2.88		3.10	3.00		16	
13/10/2012	15:29	Fine	Middle	2.5	27.20	27.20	27.20	7.52	7.52	7.52	32.33	32.33	32.33	48.7	48.4	48.4	3.24	3.22	<u>3.22</u>	3.31	3.37	3.25	7	6.00
	15:31		Middle	2.5	27.20	27.20		7.52	7.52		32.33	32.33		48.3	48.1		3.21	3.20		3.21	3.09		5	
15/10/2012	16:05	Fine	Middle	3.0	27.90	27.90	27.75	7.49	7.49	7.50	32.22	32.22	32.23	59.8	59.7	59.6	3.95	3.94	3.94	4.94	4.91	4.91	8	8.00
	16:07		Middle	3.0	27.60	27.60		7.51	7.51		32.24	32.24		59.5	59.3		3.93	3.92		4.89	4.88		8	
17/10/2012	20:10	Cloudy	Middle	3.0	27.40	27.40	27.25	7.42	7.42	7.43	31.77	31.77	31.78	54.8	54.5	54.4	3.66	3.64	3.64	5.97	5.93	5.93	8	9.00
	20:12		Middle	3.0	27.10	27.10		7.44	7.44		31.79	31.79		54.3	54.1		3.63	3.62		5.91	5.89		10	<u> </u>
20/10/2012	11:30	Fine	Middle	2.0	26.50	26.50	26.50	7.48	7.48	7.48	32.12	32.12	32.12	55.3	56.8	57.2	3.76	3.83	3.87	3.20	3.23	3.24	6	6.00
	11:32		Middle	2.0	26.50	26.50		7.48	7.48		32.12	32.12		57.9	58.7		3.92	3.98		3.20	3.33		6	ļ
22/10/2012	11:51	Fine	Middle	2.5	26.80	26.80	26.80	7.42	7.42	7.42	32.04	32.04	32.04	49.6	49.2	49.6	3.33	3.30	<u>3.33</u>	5.39	5.88	5.56	3	2.50
	11:53		Middle	2.5	26.80	26.80		7.42	7.42		32.04	32.04		49.4	50.0		3.31	3.38		5.46	5.52		2	<u> </u>
25/10/2012	16:27	Fine	Middle	2.5	27.10	27.10	27.05	7.54	7.54	7.54	32.37	32.37	32.39	58.6	58.4	58.9	3.91	3.90	3.94	4.36	4.30	4.25	9	9.50
	16:29		Middle	2.5	27.00	27.00		7.54	7.54		32.40	32.40		59.1	59.4		3.96	3.98		4.12	4.21		10	<u> </u>
27/10/2012	16:46	Cloudy	Middle	2.5	26.20	26.20	26.20	7.54	7.54	7.54	32.54	32.54	32.54	59.7	59.5	59.3	4.02	4.01	4.00	5.26	5.02	5.41	7	6.50
	16:48		Middle	2.5	26.20	26.20		7.54	7.54		32.54	32.54		59.0	59.0		3.97	3.99		5.65	5.69		6	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTL		Suspende	ed Solids
		Condition	r	n	Va		Average	Va	lue -	Average	Va	lue ppt	Average	Va	,,	Average	Va	lue	Average	Va		Average		Average
28/9/2012	17:45	Fine	Middle	1.5	28.30	28.30	28.30	7.53	7.53	7.53	31.81	31.81	31.81	53.7	53.4	53.7	3.50	3.48	3.51	3.23	3.33	3.37	5	5.00
20/3/2012	17:47	TING	Middle	1.5	28.30	28.30	20.00	7.53	7.53	7.00	31.81	31.81	51.01	54.5	53.3	55.1	3.56	3.48	5.51	3.44	3.49	0.01	5	0.00
2/10/2012	7:47	Fine	Middle	2.5	26.70	26.70	26.60	7.40	7.40	7.41	31.36	31.36	31.36	55.1	54.9	54.8	3.74	3.72	3.71	1.73	1.70	1.69	4	4.50
2, 10,2012	7:49	1 110	Middle	2.5	26.50	26.50	20.00	7.42	7.42		31.36	31.36	01100	54.6	54.4	0 110	3.70	3.68	0 1	1.68	1.65		5	
4/10/2012	9:40	Fine	Middle	2.0	27.70	27.70	27.70	7.44	7.44	7.44	32.04	32.04	32.04	53.5	53.7	53.8	3.54	3.50	3.55	3.28	2.80	3.09	5	4.50
	9:42		Middle	2.0	27.70	27.70		7.44	7.44		32.04	32.04		53.4	54.4		3.54	3.60		3.00	3.27		4	
6/10/2012	11:20	Fine	Middle	1.0	27.70	27.70	27.70	7.39	7.39	7.39	31.80	31.80	31.80	52.2	51.8	52.2	3.44	3.42	3.45	5.36	5.35	5.45	4	5.00
	11:22		Middle	1.0	27.70	27.70		7.39	7.39		31.80	31.80		52.1	52.7	-	3.44	3.48		5.37	5.70		6	
8/10/2012	16:15	Cloudy	Middle	2.5	27.80	27.80	27.75	7.45	7.45	7.46	32.15	32.15	32.15	55.5	56.4	56.4	3.66	3.72	3.72	4.08	3.97	4.11	7	6.00
	16:17	-	Middle	2.5	27.70	27.70		7.46	7.46		32.15	32.15		56.7	57.0		3.74	3.76		4.26	4.11		5	
10/10/2012	15:12	Fine	Middle	1.0	28.10	28.10	28.10	7.42	7.42	7.43	31.91	31.91	31.92	49.6	50.1	50.1	3.25	3.29	<u>3.29</u>	6.38	6.40	6.38	14	13.50
	15:14		Middle	1.0	28.10	28.10		7.43	7.43		31.93	31.93		50.4	50.3		3.31	3.30		6.26	6.47		13	
13/10/2012	15:05	Fine	Middle	1.5	27.40	27.40	27.40	7.47	7.47	7.47	31.64	31.64	31.64	54.7	54.3	55.2	3.71	3.71	3.77	3.79	3.88	3.89	7	6.00
	15:07		Middle	1.5	27.40	27.40		7.47	7.47		31.64	31.64		56.1	55.8		3.89	3.78		3.92	3.95		5	<u> </u>
15/10/2012	15:48	Fine	Middle	2.5	27.90	27.90	27.80	7.51	7.51	7.52	32.26	32.26	32.27	61.3	60.9	60.9	4.04	4.02	4.01	5.61	5.59	5.58	8	8.50
	15:50		Middle	2.5	27.70	27.70		7.52	7.52		32.27	32.27		60.7	60.5		4.01	3.98		5.57	5.53		9	
17/10/2012	19:01	Cloudy	Middle	2.5	26.90	26.90	26.70	7.47	7.47	7.48	32.19	32.19	32.21	57.3	57.1	57.0	3.86	3.85	3.84	4.57	4.53	4.53	4	5.00
	19:03		Middle	2.5	26.50	26.50		7.49	7.49		32.23	32.23		56.8	56.7		3.83	3.83		4.51	4.49		6	
20/10/2012	11:10	Fine	Middle	1.0	26.30	26.30	26.30	7.48	7.48	7.48	31.99	31.99	31.99	56.2	56.8	56.8	3.81	3.85	3.85	3.01	3.22	3.06	6	5.50
	11:12		Middle	1.0	26.30	26.30		7.48	7.48		31.98	31.98		56.8	57.3		3.86	3.89		2.97	3.02		5	<u> </u>
22/10/2012	11:31	Fine	Middle	2.0	26.80	26.80	26.80	7.44	7.44	7.44	32.10	32.10	32.10	56.2	56.6	56.4	3.76	3.79	3.78	3.68	3.50	3.67	<2	<2
	11:33		Middle	2.0	26.80	26.80		7.44	7.44		32.10	32.10		56.4	56.3		3.78	3.77		4.12	3.38		<2	<u> </u>
25/10/2012	16:10	Fine	Middle	1.5	27.10	27.10	27.00	7.42	7.42	7.42	32.41	32.41	32.42	60.8	59.8	60.1	4.04	3.96	4.00	4.74	5.01	4.80	10	11.50
	16:11		Middle	1.5	26.90	26.90		7.41	7.41		32.43	32.43		60.1	59.7		4.01	3.98		4.67	4.78		13	<u> </u>
27/10/2012	16:37	Cloudy	Middle	2.0	26.40	26.40	26.40	7.59	7.59	7.59	32.52	32.52	32.52	54.3	54.5	54.6	3.65	3.67	3.69	6.26	6.62	6.37	7	7.00
	16:39		Middle	2.0	26.40	26.40		7.59	7.59		32.52	32.52		55.5	54.0		3.73	3.69		6.27	6.32		7	

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salini	ty	D	O Satura	ation		DO ma/L			Turbid NTU	ity	Suspend	ed Solids
		Condition	n	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Value	g/∟ Average
28/9/2012	17:55	Fine	Middle	2.0	28.60	28.60	28.55	7.51	7.51	7.51	31.79	31.79	31.80	57.0	56.0	56.5	3.72	3.65	3.69	3.06	2.88	2.93	3	- 3.00
20/0/2012	17:57	1 110	Middle	2.0	28.50	28.50	20.00	7.51	7.51	7.01	31.80	31.80	01.00	57.0	55.8	00.0	3.73	3.64	0.00	2.92	2.86	2.00	3	0.00
2/10/2012	7:57	Fine	Middle	2.5	26.60	26.60	26.55	7.41	7.41	7.42	31.79	31.79	31.80	54.3	54.0	54.0	3.67	3.65	3.65	2.01	1.96	1.96	3	2.50
	8:00		Middle	2.5	26.50	26.50		7.42	7.42		31.81	31.81		53.9	53.7		3.64	3.62		1.93	1.92		2	
4/10/2012	9:50	Fine	Middle	1.0	27.70	27.70	27.65	7.42	7.42	7.42	31.97	31.97	31.98	53.3	54.0	54.6	3.53	3.58	3.62	3.22	3.77	3.34	5	5.50
	9:52		Middle	1.0	27.60	27.60		7.42	7.42		31.98	31.98		55.2	55.7		3.65	3.70		3.16	3.22		6	
6/10/2012	11:45	Fine	Middle	2.0	27.20	27.20	27.20	7.41	7.41	7.41	31.81	31.81	31.81	43.1	42.9	43.4	2.87	2.88	<u>2.91</u>	3.54	3.91	3.72	5	5.00
	11:47		Middle	2.0	27.20	27.20		7.41	7.41		31.81	31.81		43.9	43.8		2.94	2.94		3.82	3.59		5	
8/10/2012	16:25	Cloudy	Middle	2.5	27.80	27.80	27.75	7.42	7.42	7.43	32.12	32.12	32.13	55.6	56.5	56.7	3.67	3.73	3.75	2.86	2.87	2.87	5	5.00
	16:27		Middle	2.5	27.70	27.70		7.43	7.43		32.13	32.13		57.2	57.6		3.78	3.81		2.72	3.01		5	<u> </u>
10/10/2012	15:18	Fine	Middle	1.0	28.10	28.10	28.10	7.40	7.40	7.40	31.96	31.96	31.97	48.8	49.3	49.1	3.20	3.23	<u>3.22</u>	3.88	3.67	3.78	11	11.00
	15:20		Middle	1.0	28.10	28.10		7.40	7.40		31.98	31.98		49.2	49.1		3.23	3.22		3.64	3.91		11	<u> </u>
13/10/2012	15:17	Fine	Middle	1.5	27.30	27.30	27.30	7.37	7.37	7.37	31.67	31.67	31.67	39.6	39.8	39.8	2.64	2.66	<u>2.66</u>	3.19	3.14	3.08	3	3.50
	15:19 15:53		Middle	1.5	27.30	27.30		7.37	7.37		31.67	31.67 32.10		39.6	40.2 62.2		2.64	2.69		2.89	3.11		4	<u> </u>
15/10/2012	15:55	Fine	Middle Middle	2.5 2.5	27.60 27.40	27.60 27.40	27.50	7.51 7.51	7.51 7.51	7.51	32.10 32.22	32.10	32.16	62.6 62.1	61.9	62.2	4.13	4.11 4.09	4.11	5.07 5.01	5.03 4.97	5.02	12	12.00
	19:17		Middle	2.5	27.40	27.40		7.41	7.41		32.22	32.22		60.1	59.7		4.11	3.99		2.89	2.84		5	
17/10/2012	19:20	Cloudy	Middle	2.5	27.00	27.00	27.20	7.45	7.45	7.43	32.18	32.18	32.17	59.6	59.4	59.7	3.99	3.98	3.99	2.82	2.81	2.84	4	4.50
	11:17		Middle	2.0	26.30	26.30		7.42	7.42		32.04	32.04		53.2	54.2		3.61	3.68		2.92	3.17		3	
20/10/2012	11:19	Fine	Middle	2.0	26.30	26.30	26.30	7.42	7.42	7.42	32.05	32.05	32.05	55.3	55.8	54.6	3.75	3.79	3.71	3.18	3.23	3.13	4	3.50
	11:40		Middle	1.5	26.90	26.90	<u> </u>	7.42	7.42		32.04	32.04		55.7	55.5		3.73	3.72		3.38	3.92		3	+
22/10/2012	11:42	Fine	Middle	1.5	26.90	26.90	26.90	7.42	7.42	7.42	32.04	32.04	32.04	55.3	54.6	55.3	3.71	3.66	3.71	3.89	3.68	3.72	3	3.00
05/40/0040	16:18		Middle	1.5	27.00	27.00	07.00	7.52	7.52	7.50	32.42	32.42		60.4	59.9		4.04	4.00	1.00	3.68	3.43	0.50	10	
25/10/2012	16:20	Fine	Middle	1.5	27.00	27.00	27.00	7.53	7.53	7.53	32.42	32.42	32.42	60.7	59.7	60.2	4.06	3.98	4.02	3.56	3.58	3.56	10	10.00
27/10/2012	16:41	Claude	Middle	2.0	26.40	26.40	26.40	7.47	7.47	7.47	32.47	32.47	22.47	58.2	58.4	50.4	3.91	3.93	2.02	3.06	3.17	2.00	4	4.00
27/10/2012	16:43	Cloudy	Middle	2.0	26.40	26.40	26.40	7.47	7.47	7.47	32.47	32.47	32.47	58.3	58.5	58.4	3.92	3.94	3.93	2.93	2.81	2.99	4	4.00

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU	ity	Suspende	
		Contaition	n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	Average
28/9/2012	15:08	Fine	Middle	1.5	28.90	28.90	28.90	7.33	7.33	7.32	32.55	32.55	32.56	68.2	67.5	68.6	4.39	4.34	4.41	3.31	3.51	3.35	4	5.00
20/0/2012	15:09	1 110	Middle	1.5	28.90	28.90	20.00	7.31	7.31	1.02	32.56	32.56	02.00	69.5	69.1	00.0	4.47	4.44	1	3.27	3.29	0.00	6	0.00
2/10/2012	7:40	Fine	Middle	1.5	27.00	27.00	27.00	8.41	8.40	8.40	32.73	32.73	32.73	79.3	79.4	78.7	5.27	5.27	5.22	4.64	4.51	4.55	7	6.50
	7:41		Middle	1.5	27.00	27.00		8.40	8.40		32.73	32.73		78.2	77.7		5.19	5.16		4.47	4.57		6	
4/10/2012	10:26	Fine	Middle	1.5	27.80	27.80	27.85	8.34	8.34	8.34	32.89	32.89	32.89	61.4	60.6	60.4	4.01	3.96	3.95	4.42	4.28	4.32	4	4.00
	10:28		Middle	1.5	27.90	27.90		8.33	8.33		32.89	32.89		59.8	59.9		3.91	3.92		4.33	4.23		4	
6/10/2012	11:02	Fine	Middle	1.0	27.90	27.90	27.90	8.29	8.29	8.29	32.92	32.92	32.91	64.0	63.4	64.2	4.18	4.14	4.19	3.23	3.40	3.44	3	3.50
	11:04		Middle	1.0	27.90	27.90		8.29	8.29		32.89	32.89		64.6	64.7		4.22	4.22		3.48	3.64		4	<u> </u>
8/10/2012	15:38	Cloudy	Middle	1.5	27.90	27.90	27.90	8.32	8.32	8.32	33.13	33.13	33.12	64.8	64.4	64.6	4.23	4.20	4.21	5.29	5.49	5.31	7	8.00
	15:39		Middle	1.5	27.90	27.90		8.32	8.32		33.10	33.10		64.8	64.2		4.22	4.19		5.35	5.11		9	<u> </u>
10/10/2012	13:00	Fine	Middle	1.5	28.70	28.70	28.75	8.33	8.33	8.33	33.02	33.02	33.03	58.8	59.1	59.3	3.78	3.80	3.81	3.30	3.27	3.25	10	10.00
	13:02		Middle	1.5	28.80	28.80		8.32	8.32		33.03	33.03		59.8	59.3		3.84	3.81		3.25	3.19		10	<u> </u>
13/10/2012	14;27	Fine	Middle	1.5	27.80	27.80	27.80	8.46	8.46	8.47	32.76	32.76	32.76	63.2	63.4	63.2	4.15	4.16	4.15	5.30	5.40	5.14	6	6.00
	14:28		Middle	1.5	27.80	27.80		8.48	8.48		32.75	32.75		62.8	63.5		4.13	4.16		4.88	4.96		6	
15/10/2012	20:20	Fine	Middle	1.5	26.80	26.80	26.80	8.39	8.39	8.39	32.85	32.85	32.85	80.5	82.2	81.5	5.54	5.59	5.51	4.94	4.54	4.63	4	5.00
	20:21		Middle	1.5	26.80	26.80		8.39	8.39		32.85	32.85		81.9	81.3		5.48	5.44		4.63	4.39		6	<u> </u>
17/10/2012	16:21	Cloudy	Middle	1.5	28.10	28.10	28.10	8.46	8.46	8.46	32.86	32.86	32.86	71.0	73.0	73.2	4.64	4.75	4.77	12.60	12.10	<u>12.33</u>	15	15.00
	16:22		Middle	1.5	28.10	28.10		8.46	8.46		32.85	32.85		74.6	74.0		4.86	4.82		12.80	11.80		15	<u> </u>
20/10/2012	9:10	Fine	Middle	1.5	28.90	26.90	27.40	8.33	8.33	8.33	32.19	32.19	32.20	56.7	57.0	56.8	3.77	3.79	3.78	8.57	8.59	8.58	10	10.50
	9:12		Middle	1.5	26.90	26.90		8.33	8.33		32.20	32.20		56.6	56.9		3.77	3.78		8.36	8.81		11	
22/10/2012	11:37 11:39	Fine	Middle Middle	1.5	28.30	28.30 28.30	28.30	8.26 8.26	8.26	8.26	32.86 32.50	32.86 32.50	32.68	62.3 62.7	62.1 62.5	62.4	4.24	4.02 4.04	4.09	6.92 6.53	6.94	6.80	4	3.50
	11:39		Middle	1.5 1.5	28.30 28.10	28.30		8.26	8.26 8.47		32.50	32.50		62.7 56.9	62.5 56.2		3.71	4.04 3.67		6.53 13.10	6.81 12.30		3	
25/10/2012	12:40	Fine	Middle	1.5	28.10		28.15	8.47		8.47			31.58	56.9	57.1	56.8	3.71	3.67	3.71	13.10	12.30	<u>12.00</u>	33	<u>31.50</u>
	12:42		Middle	1.5	28.20	28.20 27.00		8.47	8.47 8.47		31.58 32.69	31.58 32.69		57.1 71.1	71.2		4.72	3.72 4.73		8.28	8.18		30 12	<u> </u>
27/10/2012	14:15	Cloudy	Middle	1.5	27.00	27.00	27.05	8.48	8.48	8.48	32.69	32.69	32.70	71.1	71.2	71.6	4.72	4.73	4.76	8.04	8.19	8.17	12	11.50
	14:17		wildale	1.5	27.10	27.10		0.40	0.40		32.70	32.70		/1.0	12.0		4./5	4.02		0.04	0.19		11	1

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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU	ity	Suspend	ed Solids
		Contaition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2012	15:12	Fine	Middle	1.5	28.80	28.80	28.80	7.47	7.47	7.49	32.39	32.39	32.39	70.4	70.7	70.6	4.54	4.56	4.55	5.03	4.97	4.96	6	6.00
20/9/2012	15:14	Fille	Middle	1.5	28.80	28.80	20.00	7.51	7.51	7.49	32.39	32.39	32.39	70.9	70.4	70.0	4.57	4.54	4.55	4.99	4.83	4.90	6	0.00
2/10/2012	7:50	Fine	Middle	1.5	27.20	27.20	27.20	8.41	8.41	8.41	31.60	31.59	31.59	76.1	76.1	76.1	5.06	5.07	5.07	3.62	3.88	3.69	4	3.50
2/10/2012	7:51	Fille	Middle	1.5	27.20	27.20	27.20	8.41	8.41	0.41	31.59	31.59	31.39	76.1	76.0	70.1	5.07	5.06	5.07	3.66	3.61	3.09	3	3.50
4/10/2012	10:30	Fine	Middle	1.5	27.80	27.80	27.80	8.32	8.32	8.32	31.99	31.99	31.99	62.1	62.2	61.9	4.08	4.08	4.06	4.95	4.62	4.68	5	5.50
4/10/2012	10:32	TINC	Middle	1.5	27.80	27.80	27.00	8.32	8.32	0.02	31.98	31.98	31.33	61.5	61.6	01.5	4.03	4.04	4.00	4.85	4.31	4.00	6	0.00
6/10/2012	11:08	Fine	Middle	1.0	28.00	28.00	28.00	8.28	8.28	8.29	32.79	32.79	32.79	62.7	63.4	63.6	4.09	4.13	4.15	4.42	4.70	4.61	6	6.00
0/10/2012	11:10	1 110	Middle	1.0	28.00	28.00	20.00	8.29	8.29	0.20	32.79	32.79	02.10	64.2	64.1	00.0	4.19	4.18	4.10	4.62	4.69	1.01	6	0.00
8/10/2012	15:34	Cloudy	Middle	1.5	28.10	28.10	28.05	8.32	8.32	8.32	32.94	32.94	32.97	68.6	67.1	68.1	4.46	4.37	4.43	3.95	4.05	4.00	4	5.00
	15:35	,	Middle	1.5	28.00	28.00		8.32	8.30		32.99	32.99		69.1	67.6		4.50	4.40		4.06	3.94		6	
10/10/2012	13:05	Fine	Middle	1.5	28.50	28.50	28.50	8.30	8.30	8.30	32.80	32.80	32.80	60.6	60.4	60.6	3.92	3.91	3.92	4.05	3.88	4.02	10	11.00
	13:07		Middle	1.5	28.50	28.50		8.30	8.30		32.80	32.80		60.9	60.6		3.94	3.92		4.10	4.04		12	
13/10/2012	14:32	Fine	Middle	1.5	27.50	27.50	27.50	8.49	8.49	8.50	28.16	28.16	28.18	79.2	78.7	79.0	5.34	5.31	5.33	4.89	4.82	4.77	5	5.00
	14:34		Middle	1.5	27.50	27.50		8.50	8.50		28.19	28.19		79.1	78.8		5.33	5.32		4.66	4.69		5	
15/10/2012	20:30	Fine	Middle	1.5	27.00	27.00	27.00	8.37	8.37	8.37	32.22	32.22	32.22	75.0	75.5	75.0	5.12	5.17	5.13	3.17	3.18	3.20	6	5.50
	20:31		Middle	1.5	27.00	27.00		8.37	8.37		32.22	32.22		75.4	74.2		5.15	5.07		3.21	3.22		5	
17/10/2012	16:27	Cloudy	Middle	1.5	27.80	27.80	27.80	8.41	8.41	8.42	32.71	32.71	32.72	73.7	74.6	74.7	4.83	4.89	4.90	10.30	9.91	10.03	11	11.50
	16:28		Middle	1.5	27.80	27.80		8.42	8.42		32.72	32.72		75.1	75.5		4.92	4.95		9.98	9.92		12	
20/10/2012	9:15	Fine	Middle	1.5	27.10	27.10	27.05	8.33	8.33	8.33	32.63	32.63	32.64	66.6	66.5	66.7	4.42	4.40	4.42	18.60	18.10	<u>18.50</u>	30	<u>29.50</u>
	9:17		Middle	1.5	27.00	27.00		8.33	8.33		32.64	32.64		67.0	66.5		4.44	4.41		18.10	19.20		29	<u> </u>
22/10/2012	11:43	Fine	Middle	1.5	28.10	28.10	28.10	8.27	8.27	8.27	32.30	32.30	32.32	62.3	61.5	62.0	4.07	4.02	4.05	6.66	6.53	6.50	4	4.50
	11:45		Middle	1.5	28.10	28.10		8.27	8.27		32.33	32.33		62.6	61.6		4.09	4.03		6.37	6.42		5	<u> </u>
25/10/2012	12:45	Fine	Middle	1.5	27.90	27.90	27.90	8.51	8.51	8.51	31.18	31.18	31.18	65.8	66.1	65.5	4.33	4.36	4.32	6.15	6.42	6.51	14	13.00
	12:47		Middle	1.5	27.90	27.90		8.51	8.51		31.18	31.18		65.3	64.8		4.31	4.27		7.07	6.40		12	
27/10/2012	14:10	Cloudy	Middle	1.5	27.20	27.20	27.20	8.52	8.52	8.54	32.10	32.10	32.11	57.9	57.8	58.0	3.83	3.82	3.84	5.27	5.24	5.15	6	6.00
	14:12		Middle	1.5	27.20	27.20		8.58	8.53		32.12	32.12		58.0	58.2		3.84	3.85		5.17	4.92		6	

Water Monitoring Result at WSD21 - Wan Chai 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 NTL		Suspend	ed Solids
		Condition	n	n	Va		Average	Va	lue -	Average	Va		Average	Va		Average	Va	lue	Average	Va	alue	Average		Average
00/0/0010	17:25	Fire	Middle	2.5	28.40	28.40	28.35	7.53	7.53	7.54	31.87	31.87	04.00	59.0	58.4	58.9	3.85	3.81	0.04	2.72	2.85	0.70	8	7.50
28/9/2012	17:27	Fine	Middle	2.5	28.30	28.30	28.30	7.54	7.54	7.54	31.88	31.88	31.88	59.5	58.7	56.9	3.88	3.83	3.84	2.64	2.67	2.72	7	7.50
2/10/2012	7:15	Fine	Middle	2.0	27.20	27.20	27.10	7.51	7.51	7.52	32.17	32.17	32.18	52.4	52.2	52.1	3.49	3.48	3.48	2.47	2.43	2.42	5	5.50
2/10/2012	7:18	1 line	Middle	2.0	27.00	27.00	27.10	7.52	7.52	7.52	32.19	32.19	32.10	52.1	51.8	52.1	3.48	3.46	<u>3.40</u>	2.40	2.39	2.42	6	5.50
4/10/2012	9:15	Fine	Middle	2.0	27.50	27.50	27.50	7.47	7.47	7.47	32.09	32.09	32.09	53.7	54.2	54.4	3.55	3.59	3.61	2.85	3.11	3.00	6	7.00
4/10/2012	9:17	1 110	Middle	2.0	27.50	27.50	27.00	7.47	7.47	1.47	32.09	32.09	02.00	54.0	55.5	04.4	3.60	3.68	0.01	3.08	2.95	0.00	8	1.00
6/10/2012	10:55	Fine	Middle	1.0	27.60	27.60	27.60	7.44	7.44	7.44	32.12	32.12	32.12	50.5	49.6	49.7	3.33	3.27	3.28	4.47	4.88	4.74	11	10.00
0/10/2012	10:57	T IIIC	Middle	1.0	27.60	27.60	27.00	7.44	7.44	7.44	32.12	32.12	02.12	49.7	49.0	40.1	3.28	3.23	0.20	4.63	4.98	-1.1-1	9	10.00
8/10/2012	13:55	Cloudy	Middle	2.0	27.50	27.50	27.50	7.47	7.47	7.47	32.11	32.11	32.12	60.0	59.8	60.4	3.97	3.95	4.00	3.44	4.07	3.64	4	4.00
	13:57		Middle	2.0	27.50	27.50		7.46	7.46		32.12	32.12		60.6	61.3		4.01	4.06		3.71	3.32		4	
10/10/2012	14:52	Fine	Middle	1.5	28.00	28.00	27.90	7.41	7.41	7.42	32.19	32.19	32.19	48.3	49.9	49.1	3.17	3.27	3.23	3.13	3.39	3.17	7	8.00
10,10,2012	14:54	1	Middle	1.5	27.80	27.80	21.00	7.42	7.42		32.19	32.19	02.110	49.5	48.8		3.25	3.21		3.16	2.99	0.111	9	0.00
13/10/2012	14:41	Fine	Middle	1.0	27.40	27.40	27.40	7.56	7.56	7.56	32.41	32.41	32.41	53.7	53.9	54.0	3.55	3.57	<u>3.57</u>	2.21	2.12	2.19	4	3.50
	14:43		Middle	1.0	27.40	27.40		7.56	7.56		32.41	32.41		54.0	54.2		3.58	3.59		2.18	2.23		3	
15/10/2012	15:22	Fine	Middle	1.5	27.70	27.70	27.65	7.58	7.58	7.59	32.51	32.51	32.48	61.9	61.7	61.5	4.09	4.08	4.07	4.04	4.03	4.02	14	14.00
	15:24		Middle	1.5	27.60	27.60		7.60	7.60		32.45	32.45		61.3	61.1		4.05	4.04		4.01	3.99		14	
17/10/2012	18:27	Cloudy	Middle	2.0	26.90	26.90	26.80	7.49	7.49	7.50	32.26	32.26	32.27	60.6	60.4	60.3	4.06	4.05	4.04	3.77	3.74	3.73	7	8.00
	18:29	-	Middle	2.0	26.70	26.70		7.51	7.51		32.27	32.27		60.1	59.9		4.03	4.01		3.70	3.69		9	
20/10/2012	10:50	Fine	Middle	1.5	26.50	26.50	26.50	7.52	7.52	7.52	32.32	32.32	32.32	59.9	60.3	60.7	4.05	4.06	4.10	4.32	3.24	3.80	6	5.50
	10:52		Middle	1.5	26.50	26.50		7.52	7.52		32.32	32.32		61.1	61.6		4.13	4.16		3.79	3.84		5	
22/10/2012	11:08	Fine	Middle	2.0	28.00	28.30	28.15	7.43	7.43	7.43	32.18	32.18	32.18	48.8	49.8	49.3	3.21	3.28	<u>3.25</u>	3.13	2.81	2.91	21	<u>20.00</u>
	11:10		Middle	2.0	28.00	28.30		7.43	7.43		32.18	32.18		49.4	49.2		3.25	3.24		2.94	2.76		19	
25/10/2012	15:42	Fine	Middle	1.5	27.00	27.00	26.95	7.56	7.56	7.56	32.50	32.50	32.51	58.7	58.3	58.5	3.91	3.89	3.90	5.30	5.19	5.27	14	<u>13.50</u>
	15:44		Middle	1.5	26.90	26.90		7.56	7.56		32.51	32.51		58.8	58.0		3.93	3.88		5.31	5.27		13	
27/10/2012	16:21	Cloudy	Middle	1.5	26.30	26.30	26.30	7.59	7.59	7.59	32.61	32.61	32.61	60.7	61.0	61.3	4.08	4.09	4.11	6.30	6.75	6.64	13	<u>13.50</u>
	16:24	-	Middle	1.5	26.30	26.30		7.59	7.59		32.61	32.61		62.0	61.4		4.15	4.12		6.95	6.55		14	

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

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU			led Solids a/L
		Condition	r	n	Va		Average	Va	- Iue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average		average
00/0/00 10	15:45	E.	Middle	2.0	28.30	28.30		8.51	8.51	0.50	32.66	32.66	00.05	74.2	73.6	70.0	4.84	4.80	4.00	6.85	7.06		13	
28/9/2012	15:47	Fine	Middle	2.0	28.30	28.30	28.30	8.52	8.52	8.52	32.64	32.64	32.65	73.9	73.5	73.8	4.82	4.80	4.82	6.89	6.76	6.89	14	13.50
2/10/2012	7:15	Fine	Middle	2.0	26.80	26.80	26.80	8.41	8.41	8.41	32.62	32.62	32.62	80.6	81.0	80.9	5.38	5.41	5.40	7.13	7.00	6.93	8	8.00
2/10/2012	7:16	1 110	Middle	2.0	26.80	26.80	20.00	8.41	8.41	0.41	32.62	32.62	02.02	81.0	81.0	00.0	5.41	5.41	0.40	6.78	6.82	0.00	8	0.00
4/10/2012	9:53	Fine	Middle	3.0	27.40	27.40	27.35	8.35	8.35	8.35	32.48	32.48	32.49	69.5	69.7	69.1	4.60	4.61	4.58	6.30	6.30	6.45	6	6.00
	9:55		Middle	3.0	27.30	27.30		8.35	8.35		32.49	32.49		68.7	68.5		4.58	4.54		6.77	6.41		6	
6/10/2012	10:29	Fine	Middle	2.5	27.50	27.50	27.55	8.32	8.32	8.32	32.57	32.57	32.58	72.1	70.5	71.7	4.75	4.66	4.72	6.87	6.79	6.76	8	8.00
0,10,2012	10:31	1 110	Middle	2.5	27.60	27.60	27.00	8.32	8.32	0.02	32.58	32.58	02.00	71.2	72.8		4.69	4.79	7.72	6.91	6.47	0.70	8	0.00
8/10/2012	15:10	Cloudy	Middle	2.0	27.40	27.40	27.40	8.43	8.43	8.42	33.15	33.15	33.15	81.3	81.9	81.6	5.34	5.38	5.36	5.02	5.07	5.06	6	5.50
	15:12		Middle	2.0	27.40	27.40		8.41	8.41		33.15	33.15		82.1	81.1		5.35	5.37		5.08	5.07		5	
10/10/2012	14:13	Fine	Middle	2.0	27.90	27.90	27.95	8.36	8.36	8.36	33.10	33.10	33.10	83.1	82.1	82.8	5.42	5.35	5.40	4.79	4.76	4.75	11	10.00
	14:15		Middle	2.0	28.00	28.00		8.36	8.36		33.10	33.10		83.5	82.6		5.44	5.38		4.61	4.82		9	
13/10/2012	13:59	Fine	Middle	3.0	27.60	27.60	27.60	8.41	8.41	8.41	33.36	33.36	33.36	73.5	72.6	73.6	4.81	4.75	4.81	10.60	9.98	9.98	20	20.00
	14:01		Middle	3.0	27.60	27.60		8.41	8.41		33.35	33.35		73.8	74.3		4.83	4.86		9.96	9.38		N/A	
15/10/2012	19:45	Fine	Middle	2.0	26.40	26.40	26.40	8.41	8.41	8.41	32.74	32.74	32.74	85.1	85.3	85.3	5.74	5.80	5.75	4.50	4.39	4.43	11	12.00
	19:46	-	Middle	2.0	26.40	26.40		8.40	8.40	-	32.74	32.74		85.8	85.0		5.76	5.70		4.33	4.50		13	
17/10/2012	21:15	Cloudy	Middle	2.0	26.30	26.30	26.30	8.29	8.29	8.29	31.55	31.55	31.55	79.2	79.4	79.2	5.32	5.34	5.32	12.00	12.10	12.50	14	13.00
	21:16		Middle	2.0	26.30	26.30		8.29	8.29		31.55	31.55		79.3	78.7		5.32	5.30		13.30	12.60		12	
20/10/2012	8:41	Fine	Middle	2.0	26.20	26.20	26.15	8.37	8.37	8.37	32.55	32.55	32.58	76.7	76.3	76.6	5.18	5.17	5.18	11.10	10.10	<u>10.88</u>	16	<u>16.00</u>
	8:43		Middle	2.0	26.10	26.10		8.37	8.37		32.60	32.60		77.3	76.2		5.21	5.14		10.90	11.40		16	
22/10/2012	11:10	Fine	Middle	2.0	27.20	27.20	27.25	8.38	8.38	8.38	32.49	32.49	32.50	71.7	70.5	71.6	4.74	4.67	4.73	11.00	10.80	10.70	22	22.50
	11:12		Middle	2.0	27.30	27.30		8.38	8.38		32.50	32.50		72.4	71.7		4.78	4.74		10.30	10.70		23	
25/10/2012	16:59	Fine	Middle	2.5	26.60	26.60	26.60	8.35	8.35	8.35	32.88	32.88	32.88	78.4	77.7	77.9	5.23	5.18	5.20	7.27	8.08	7.77	12	12.50
	17:01		Middle	2.5	26.60	26.60		8.35	8.35		32.88	32.88		77.6	77.9		5.17	5.20		7.73	7.99		13	
27/10/2012	17:36	Cloudy	Middle	3.5	26.10	26.10	26.10	8.36	8.36	8.35	32.39	32.39	32.39	74.0	75.4	75.0	4.98	5.07	5.04	7.19	7.70	7.41	10	11.00
	17:38		Middle	3.5	26.10	26.10		8.33	8.33		32.39	32.39		75.8	74.6		5.10	5.02		7.37	7.38		12	



Mid-Ebb Tide

Date	Time	Weater	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid NTU			ed Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	alue	Average	mç Value	g/L Average
00/0/004.0	9:01	E	Middle	2.5	28.10	28.10	00.40	8.13	8.13	0.40	33.13	33.13	00.40	82.4	81.4	00.5	5.35	5.29	5.00	5.35	5.29	5.01	7	7.00
28/9/2012	9:03	Fine	Middle	2.5	28.10	28.10	28.10	8.13	8.13	8.13	33.12	33.12	33.13	83.1	83.1	82.5	5.40	5.40	5.36	5.10	5.10	5.21	7	7.00
2/10/2012	15:38	Fine	Middle	2.0	27.20	27.20	27.20	8.51	8.51	8.51	33.38	33.38	33.38	85.9	85.9	85.4	5.66	5.66	5.63	5.39	5.58	5.48	5	4.50
2/10/2012	15:39	T me	Middle	2.0	27.20	27.20	21.20	8.51	8.51	0.51	33.38	33.38	33.30	85.9	84.0	00.4	5.66	5.54	5.05	5.50	5.45	3.40	4	4.50
4/10/2012	1:30	Fine	Middle	2.0	26.90	26.90	26.90	8.44	8.44	8.45	32.72	32.72	32.73	80.9	80.9	81.0	5.36	5.36	5.37	4.83	4.42	4.55	4	5.00
	1:31		Middle	2.0	26.90	26.90	20.00	8.45	8.45	0.10	32.73	32.73	02.10	81.0	81.0	0110	5.37	5.37	0.01	4.57	4.36		6	0.00
6/10/2012	1:10	Fine	Middle	2.0	26.60	26.60	26.60	8.44	8.44	8.44	32.68	32.68	32.68	85.9	85.7	85.9	5.74	5.73	5.75	4.84	4.49	4.71	5	4.50
0,10,2012	1:11		Middle	2.0	26.60	26.60	20.00	8.44	8.44	0	32.68	32.68	02.00	86.1	86.0	00.0	5.76	5.76	0.10	4.83	4.68		4	
8/10/2012	4:05	Cloudy	Middle	2.0	26.40	26.40	26.40	8.40	8.41	8.41	32.99	32.99	32.99	88.2	87.6	87.9	6.18	6.23	6.11	3.27	3.51	3.40	5	5.00
	4:06		Middle	2.0	26.40	26.40		8.41	8.41		32.99	32.99		87.4	88.2		6.09	5.93		3.38	3.42		5	
10/10/2012	4:40	Cloudy	Middle	2.0	26.50	26.50	26.50	8.49	8.49	8.49	33.02	33.02	33.02	88.1	89.0	88.8	5.91	5.95	5.94	3.15	3.18	3.23	6	5.50
	4:41		Middle	2.0	26.50	26.50		8.49	8.49		33.02	33.02		89.0	89.2		5.95	5.95		3.24	3.36		5	
13/10/2012	8:13	Fine	Middle	2.0	26.70	26.70	26.70	8.60	8.60	8.61	33.14	33.14	33.15	84.8	85.7	84.9	5.66	5.70	5.66	4.67	4.81	4.68	4	4.50
	8:15	-	Middle	2.0	26.70	26.70		8.61	8.61		33.16	33.16		84.6	84.6		5.63	5.63		4.60	4.63		5	
15/10/2012	10:00	Fine	Middle	3.0	27.10	27.10	27.10	8.52	8.52	8.54	33.64	33.64	33.65	81.5	82.8	81.9	5.45	5.56	5.49	4.45	4.56	4.37	10	11.00
	10:02		Middle	3.0	27.10	27.10		8.56	8.56		33.65	33.65		81.8	81.5		5.47	5.49		4.24	4.22		12	
17/10/2012	12:22	Fine	Middle	3.0	27.80	27.80	27.85	8.43	8.43	8.43	32.35	32.35	32.33	82.5	83.0	82.6	5.43	5.46	5.44	3.62	3.61	3.64	3	3.50
	12:24		Middle	3.0	27.90	27.90		8.43	8.43		32.30	32.30		82.7	82.3		5.44	5.42		3.76	3.57		4	
20/10/2012	0:45	Cloudy	Middle	2.0	25.80	25.80	25.80	8.52	8.52	8.52	33.44	33.44	33.44	88.2	88.3	88.2	5.95	6.02	5.96	6.20	6.05	6.24	6	6.50
	0:46	,	Middle	2.0	25.80	25.80		8.52	8.52		33.44	33.44		88.1	88.1		5.93	5.93		6.24	6.46		7	
22/10/2012	4:34	Fine	Middle	2.0	25.70	25.70	25.70	8.40	8.40	8.30	33.02	33.02	33.02	83.8	83.8	83.6	5.66	5.65	5.65	2.62	3.22	2.85	<2	<2
	4:35	-	Middle	2.0	25.70	25.70		8.40	8.00		33.02	33.02		83.1	83.8		5.61	5.66		2.88	2.66		<2	
25/10/2012	20:20	Smoky	Middle	2.0	25.70	25.70	25.70	8.50	8.50	8.50	33.32	33.32	33.32	90.2	91.3	90.7	6.31	6.24	6.21	4.66	4.63	4.62	7	6.50
	20:21		Middle	2.0	25.70	25.70		8.50	8.50		33.32	33.32		90.8	90.6		6.16	6.13		4.69	4.48		6	
27/10/2012	8:45	Cloudy	Middle	3.0	26.00	26.00	26.00	8.47	8.47	8.47	33.21	33.21	33.21	90.1	89.2	89.9	6.05	6.02	6.05	4.55	4.61	4.42	6	5.50
	8:47	-	Middle	3.0	26.00	26.00		8.47	8.47		33.21	33.21		90.6	89.6		6.10	6.03		4.19	4.34		5	



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

Date	Time	Weater Condition	Sampling Depth m		Water Terr		erature	pH -			Salinity ppt			DO Saturation				DO mg/L			Turbid NTL		Suspended Solids mg/L	
		Sonution			Value Average		Average	Value		Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va		Average		Average
28/9/2012	10:35	Fine	Middle	3	28.40	28.40	28.45	8.12	8.12	0.40	32.93	32.93	32.93	81.9	81.9	04.0	5.30	5.30	5.29	6.92	6.72	0.01	10	10.50
28/9/2012	10:37	Fine	Middle	3	28.50	28.50	28.45	8.12	8.12	8.12	32.93	32.93	32.93	81.9	81.6	81.8	5.29	5.27	5.29	6.90	6.69	6.81	11	
2/10/2012	11:30	Fine	Middle	3	27.30	27.30	27.30	8.52	8.52	8.52	33.40	33.40	33.40	86.6	86.6	86.5	5.69	5.70	5.69	10.40	10.90	10.43	19	<u>19.00</u>
2/10/2012	11:31	T IIIO	Middle	3	27.30	27.30	21.00	8.52	8.52	0.02	33.40	33.40	00.40	86.7	86.2	00.0	5.70	5.67	0.00	10.50	9.93	10.40	19	10.00
4/10/2012	3:45	Fine	Middle	3	26.40	26.40	26.40	8.39	8.39	8.39	32.53	32.53	32.53	78.1	78.2	78.2	5.23	5.24	5.23	4.41	4.82	4.52	6	6.00
	3:46		Middle	3	26.40	26.40		8.39	8.39		32.53	32.53		78.2	78.2		5.23	5.23		4.62	4.23		6	
6/10/2012	3:55	Fine	Middle	3	26.40	26.40	26.40	8.44	8.44	8.44	32.59	32.59	32.59	80.7	81.6	81.0	5.42	5.48	5.44	5.57	5.14	5.22	7	6.50
	3:56		Middle	3	26.40	26.40		8.44 8.44		32.59	32.59		81.6	80.1		5.48	5.38		5.07	5.08		6		
8/10/2012	7:10	Cloudy	Middle	3	26.60	26.60	50 26.60	8.43	8.43	8.43	32.78	32.78	32.78	80.5	80.8	81.4	5.38	5.40	5.44	4.89	5.01	4.91	6	6.50
	7:11		Middle	3	26.60	26.60		8.43	8.43		32.78	32.78		81.6	82.5		5.45	5.51		4.97	4.78		7	
10/10/2012	7:30	Cloudy	Middle	3	26.50	26.50	26.50	8.44	8.44	8.44	32.63	32.63	32.63	77.2	78.9	77.5	5.19	5.36	5.23	4.52	4.72	4.67	6	7.00
	7:31		Middle	3	26.50	26.50		8.44 8.44		32.63	32.63		77.0	76.7		5.16	5.20	<u> </u>	4.66	4.78		8		
13/10/2012	9:42	Fine	Middle	4	27.10	27.10	27.10	8.58	8.58	8.57	33.61	33.61	33.61	80.6	80.3	79.7	5.30	5.29	5.26	6.63	6.54	6.57	8	8.50
	9:44		Middle	4	27.10	27.10			8.56		33.60	33.60		79.1	78.9		5.23	5.20		6.49	6.63		9	<u> </u>
15/10/2012	11:16	Fine	Middle	2	27.30	27.30	27.30	8.54	8.54	8.53	33.34	33.34	33.35	77.1	76.4	76.5	5.07	5.02	5.03	7.53	7.22	7.25	10	11.00
	11:18		Middle	2	27.30 27.50	27.30 27.50		8.51	8.51		33.36	33.36		76.3	76.1 80.7	· 81.3	5.01	5.00	<u> </u>	7.05	7.18	<u> </u>	12	<u> </u>
17/10/2012	11:13 11:15	Fine	Middle Middle	3		27.50	27.50	8.40 8.40	8.40 8.40	8.40	33.30	33.30 33.27	33.29	81.4 81.4	80.7		5.36	5.28 5.39	5.35	8.07 7.89	7.94 7.92	7.96	11	11.50
	3:10		Middle	3	27.50 25.60	27.50		8.40	8.40		33.27 32.55	32.55		81.7	82.0	81.6	5.38 5.56	5.58		6.07	6.12		6	7.00
20/10/2012	3:11	Cloudy	Middle	3	25.60	25.60	25.60	8.42	8.42	8.42	32.55	32.55	32.55	81.5	81.2		5.54	5.53	5.55	6.34	5.79	6.08	8	
	7:50		Middle	3	26.20	26.20		8.36	8.36		32.72	32.72		76.0	74.0		5.11	4.98		6.65	6.36		5	<u> </u>
22/10/2012	7:51	Fine	Middle	3	26.20	26.20	26.20	8.36 8.36		8.36	32.72	32.72	32.72	75.0	74.3	74.8	5.04	4.99	5.03	6.11	6.16	6.32	3	4.00
	23:40		Middle	3	25.40	25.40		8.48	8.48		33.32	33.32	33.32	87.6	87.0	86.5	5.95	5.90	5.89	5.43	5.65		12	
25/10/2012	23:41	Smoky	Middle	3	25.40	25.40	25.40	8.48	8.48	8.48	33.32	33.32		86.0	85.3		5.84	5.86		5.34	5.28	5.43	12	12.00
	10:27		Middle	4	25.90	25.90		8.49	8.49		33.17	33.17		82.9	81.8		5.59	5.52		5.49	5.50		8	
27/10/2012	10:29	Cloudy	Middle	4	25.90	25.90	25.90	8.49	8.49	8.49	33.17	33.17	33.17	83.6	82.3	82.7	5.64	5.55	5.58	5.34	5.39	5.43	8	8.00



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

Date	Time	Weater Condition	Samplin	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTL		Suspended Solids ma/L		
		Condition	m		Value Averag		Average	Value		Average	Va	Value Average				Average	Va	lue	Average			Average		Average
28/9/2012	13:33	Fine	Middle	2	28.00	28.00	28.00	8.05	8.05	9.0E	32.35	32.35	32.36	75.6	75.8	75.4	4.94	4.96	4.92	9.07	9.11	8.79	13	13.50
20/9/2012	13:35	Fille	Middle	2	28.00	28.00	28.00	8.05	8.05	8.05	32.36	32.36	32.30	75.5	74.8	75.4	4.93	4.86	4.92	8.57	8.40	0.79	14	13.50
2/10/2012	12:20	Fine	Middle	2	27.30	27.30	27.30	8.48	8.48	8.48	33.39	33.39	33.39	84.4	84.3	83.8	5.55	5.55	5.52	7.48	7.40	7.38	8	9.00
2/10/2012	12:21	Tine	Middle 2	2	27.30	27.30	27.00	8.48 8.48	0.40	33.39	33.39	00.00	83.4	83.2	00.0	5.49	5.47	0.02	7.53	7.09	7.50	10	3.00	
4/10/2012	3:15	Fine	Middle	2	27.10	27.41	27.18	8.36	8.36	8.36	32.69	32.69	32.69	74.1	74.1	73.7	4.91	4.91	4.88	5.81	5.69	6.00	9	8.00
	3:16	-	Middle	2	27.10	27.10		8.36	8.36		32.69	32.69		73.0	73.4	10.1	4.83	4.86		6.12	6.36		7	
6/10/2012	3:20	Fine	Middle	2	27.10	27.10	27.10	8.33	8.33	8.33	32.66	32.66	32.66	81.2	80.1	80.5	5.38	5.31	5.34	4.49	4.67	4.72	5	5.00
	3:21		Middle	2	27.10	27.10		8.33	8.34		32.66	32.66		80.1	80.6	00.0	5.31	5.34	0.01	4.52	5.20	···-=	5	
8/10/2012	6:43	Cloudy		2	26.80	26.80	26.80	8.36	8.36	8.36	32.46	32.46	32.46	72.8	74.1	74.5	4.85	4.94	4.97	5.98	6.20	5.99	7	8.00
	6:44	-	Middle	2	26.80 26.80		8.35	8.35		32.46	32.46		75.6	75.4		5.05	5.03	<u> </u>	6.07	5.69		9		
10/10/2012	7:15	Cloudy	Middle	2	26.50	26.50	26.45	8.36	8.36	- 8.36	32.68	32.68	32.68	79.8	79.8	79.6	5.34	5.34	5.33	4.59	4.70	4.92	6	5.50
	7:16		Middle	2	26.40	26.40		8.36	8.36		32.68	32.68		79.3	79.3		5.31	5.31		5.32	5.07		5	
13/10/2012	12:12	Fine	Middle	2	27.00	27.00	27.05	8.62	8.62	8.61	33.05	33.05	33.06	80.1	80.3	80.4	5.31	5.33	5.33	10.50	9.73	<u>9.86</u>	13	14.00
	12:14		Middle	2	27.10	27.10		8.60	8.60		33.06	33.06		80.6	80.6		5.34	5.35		9.53	9.68		15	
15/10/2012	13:34	Fine	Middle	2	27.60	27.60	27.60	8.63	8.63	8.62	33.38	33.38	33.39	77.2	77.9	77.7	5.15	5.10	5.11	9.35	9.04	<u>9.32</u>	14	13.00
	13:36		Middle	2	27.60	27.60		8.61	8.61		33.40	33.40		77.9	77.6		5.10	5.08	<u> </u>	9.47	9.42	<u> </u>	12	
17/10/2012	11:12	Fine	Middle	3	27.10	27.10	27.10	7.56	7.56	7.56	32.52	32.52	32.52	65.1	64.5	64.6	4.33	4.28	4.29	6.09	6.25	6.21	10	9.50
	11:14		Middle	3	27.10	27.10		7.56	7.56		32.52	32.52		63.8	65.0		4.24	4.31		6.28	6.23		9	
20/10/2012	2:55	Cloudy	Middle	2	25.60	25.60	25.60	8.41	8.41	8.41	32.97	32.97	32.97	85.1	85.2	85.1	5.78	5.78	5.77	4.78	4.94	4.80	6	7.00
	2:56		Middle 2		25.60	25.60		8.41	8.41		32.97	32.97		85.1	85.0		5.77	5.76		4.86	4.60		8	<u> </u>
22/10/2012	7:30	Fine	Middle	2	26.00	26.00	26.00	8.35	8.35	8.35	32.78	32.78	32.78	77.7	78.0	76.8	5.24	5.26	5.18	8.48	8.51	8.32	5	5.50
	7:31		Middle	2	26.00	26.00		8.35	8.35		32.78	32.78		76.0	75.6		5.12	5.10		8.29	7.98		6	<u> </u>
25/10/2012	23:23	Smoky	Middle	2	25.80	25.80	25.80	8.36	8.36	8.36	32.88	32.88	32.88	78.8	79.3	79.1	5.34	5.39	5.37	5.99	6.29	6.03	11	12.00
	23:24		Middle	2	25.80	25.80		8.36	8.36		32.88	32.88		79.5	78.8		5.39	5.34		5.87	5.98		13	<u> </u>
27/10/2012	11:25	Cloudy	Middle	2	26.20	26.20	26.20	7.58	7.58	7.58	32.77	32.77	32.77	69.2	69.0	69.4	4.65	4.64	4.67	8.16	8.06	7.97	8	7.00
11	11:27	,	Middle	2	26.20	26.20		7.58	7.58		32.77	32.77		69.7	69.7		4.69	4.69		7.80	7.87		6	

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

Date	Time	Weater	Sampling Depth		Water Temp		erature		рН			Salini	ty	DO Satur		ation		DO			Turbic		Suspended Solids mg/L	
2410		Condition	r	m —		lue	Average	Va	- alue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	NTL alue	Average	mç Value	g/L Average
00/0/0010	13:20		Middle	2	28.40 28.40	28.40	00.45	8.04	8.04		32.74	32.74	00.75	79.3	78.2		5.13	5.06		6.63	6.73	0.00	12	10.50
28/9/2012	13:22	Fine	Middle	2	28.50	28.50	28.45	8.04	8.04	8.04	32.76	32.76	32.75	79.9	78.7	79.0	5.17	5.09	5.11	6.60	6.50	6.62	15	13.50
2/10/2012	12:05	Fine	Middle	2	27.40	27.40	27.40	8.42	8.42	8.42	33.16	33.16	33.16	73.1	73.5	73.3	4.82	4.85	4.83	8.23	7.92	8.31	10	10.00
2/10/2012	12:06	Tine	Middle	2	27.40	27.40	27.40	8.41	8.42	0.42	33.16	33.16	33.10	73.5	73.1		4.84	4.81	4.05	8.45	8.62	0.31	10	10.00
4/10/2012	3:03	Fine	Middle	2	27.10	27.10	27.10	8.22	8.22	8.22	31.70	31.70	31.72	63.9	64.6	64.4	4.26	4.30	4.29	6.30	4.34	5.88	7	6.50
	3:04		Middle	2	27.10	27.10		8.22	8.22		31.73	31.73		64.5	64.5		4.29	4.29		6.35	6.52		6	
6/10/2012	3:06	Fine	Middle	2	27.10	27.10	27.10	8.18	8.18	8.18	32.06	32.06	32.06	69.7	70.2	69.7	4.63	4.67	4.63	5.11	4.83	4.97	6	6.00
	3:07	-	Middle	2	27.10	27.10		8.18	8.18	0.10	32.06	32.06		69.7	69.2	00.1	4.63	4.60	00	5.08	4.87		6	0.00
8/10/2012	6:33	Cloudy	Middle	2	26.90	26.90	26.90	8.19	8.19	8.19	31.86	31.86	31.86	66.1	66.6	66.7	4.42	4.47	4.46	7.41	7.45	7.48	8	9.00
	6:34		Middle	le 2	26.90	26.90		8.19	8.19		31.86	31.86		67.1	66.8		4.48	4.47		7.46	7.58		10	
10/10/2012	7:05	Cloudy	Middle	2	26.20	26.20	26.20	8.24	8.24	8.24	31.60	31.60	31.60	68.2	68.6	68.4	4.61	4.64	4.62	6.07	5.73	5.95	7	7.00
	7:06	-	Middle	2	26.20	26.20		8.24	8.24		31.60	31.60		68.5	68.1		4.63	4.61		5.93	6.05		7	
13/10/2012	11:58	Fine	Middle	2	27.10	27.10	27.15	8.63	8.60	8.62	33.31	33.31	33.31	75.8	74.2	75.2	5.00	4.90	4.96	9.02	9.28	<u>9.21</u>	10	11.00
	12:00		Middle	2	27.20	27.20			8.62		33.31	33.32		74.9	75.8		4.94	5.00		9.40	9.12		12	
15/10/2012	13:18	Fine	Middle	2	27.90	27.90	27.95	8.41	8.41	8.41	33.20	33.20	33.22	72.6	72.0	72.2	4.72	4.69	4.69	8.36	8.18	8.36	12	11.50
	13:20		Middle	2	28.00	28.00		8.40	8.40		33.23	33.23		72.4	71.6		4.71	4.65	<u> </u>	8.41	8.48	<u> </u>	11	<u> </u>
17/10/2012	11:16	Fine	Middle	3	27.20	27.20	27.20	7.49	7.49	7.49	31.98	31.98	31.98	64.6	64.7	64.5	4.30	4.32	4.30	7.73	7.74	7.77	10	10.00
	11:18		Middle	3	27.20	27.20		7.49	7.49		31.98	31.98		64.0	64.5		4.27	4.30		7.85	7.74		10	<u> </u>
20/10/2012	2:40	Cloudy	Middle	2	25.40	25.40	25.40	8.29	8.29	8.29	32.45	32.45	32.45	68.0	69.1	69.0	4.64	4.72	4.72	6.64	7.00	6.91	4	4.00
	2:41		Middle	2	25.40	25.40		8.29	8.29		32.45	32.45		69.1	69.9		4.72	4.78		7.03	6.95		4	<u> </u>
22/10/2012	7:18	Fine	Middle	2	25.90	25.90	25.90	8.28	8.28	8.28	32.43	32.43	32.43	67.1	67.7	67.4	4.56	4.58	4.56	8.35	8.47	8.42	3	3.00
	7:19		Middle	2	25.90	25.90		8.28	8.28		32.43	32.43		67.8	67.0		4.57	4.54		8.31	8.56		3	<u> </u>
25/10/2012	23:10	Smoky	Middle	2	25.70	25.70	25.70	8.10	8.10	8.10	31.59	31.59	31.59	61.6	61.8	61.6	4.21	4.22	4.21	8.94	9.00	9.01	9	9.00
	23:11		Middle	2	25.70	25.70		8.10	8.10		31.59	31.59		61.7	61.4		4.22	4.20		9.03	9.06		9	<u> </u>
27/10/2012	11:30	Cloudy	Middle	2	26.30	26.30	26.30	7.53	7.53	7.53	32.39	32.39	32.39	60.9	62.6	62.6	4.11	4.23	4.22	10.70	11.60	- <u>11.18</u>	11	9.50
	11:32	Cicudy	Middle	2	26.30	26.30		7.53	7.53		32.39	32.39		63.3	63.4		4.27	4.28		11.40	11.00		8	



Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbic NTU			led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt ilue	Average	Va	alue %	Average	Va	mg/∟ lue	Average	Va	alue	Average	mı Value	g/∟ Average
28/9/2012	12:56	Fine	Middle	2	28.40	28.40	28.45	7.63	7.63	7.65	30.68	30.68	30.69	58.9	57.0	58.6	3.84	3.70	3.81	2.67	2.57	2.56	4	4.50
20/3/2012	12:57	Tille	Middle	2	28.50	28.50	20.45	7.66	7.66	1.00	30.70	30.70	30.03	58.8	59.6	30.0	3.82	3.87	3.01	2.49	2.49	2.50	5	4.00
2/10/2012	13:45	Fine	Middle	1	28.30	28.30	28.25	8.35	8.35	8.35	32.06	32.06	32.20	88.3	88.4	88.2	5.78	5.78	5.77	2.57	2.67	2.54	3	3.00
2/10/2012	13:46	T IIIO	Middle	1	28.20	28.20	20.20	8.35	8.35	0.00	32.60	32.06	02.20	88.2	88.0	00.2	5.77	5.76	0.11	2.46	2.44	2.04	3	0.00
4/10/2012	2:40	Fine	Middle	2	26.50	26.50	26.50	8.28	8.28	8.28	31.11	31.11	31.11	75.8	75.5	76.1	5.11	5.10	5.13	3.12	3.13	- 3.14	4	3.50
	2:41	-	Middle	2	26.50	26.50		8.28	8.28		31.11	31.11		76.5	76.7		5.15	5.17		3.17	3.14		3	
6/10/2012	2:45	Fine	Middle	1	26.70	26.70	26.70	8.23	8.23	8.23	30.46	30.46	30.46	73.7	74.3	74.1	4.98	5.02	5.01	3.73	3.54	- 3.58	2	2.50
	2:46		Middle	1	26.70	26.70		8.23	8.23		30.46	30.46		74.2	74.2		5.01	5.01		3.54	3.50		3	
8/10/2012	6:10	Cloudy	Middle	1	26.30	26.30	26.30	8.25	8.25	8.25	28.27	28.27	28.27	72.1	73.0	72.4	4.89	4.96	4.92	3.13	3.26	3.13	4	4.00
	6:11		Middle	1	26.30	26.30		8.25	8.25		28.27	28.27		72.7	71.9		4.93	4.88		3.15	2.97		4	
10/10/2012	6:20	Cloudy	Middle	2	25.70	25.70	25.70	8.25	8.25	8.25	28.52	28.52	28.52	70.6	71.2	70.8	4.90	4.94	4.91	3.61	3.64	3.68	4	5.00
	6:21		Middle	2	25.70	25.70		8.25	8.25		28.52	28.52		71.0	70.4		4.93	4.88		3.63	3.85		6	
13/10/2012	11:48	Fine	Middle	2	27.00	27.00	27.05	8.36	8.36	8.37	31.96	31.96	31.97	60.9	62.3	62.1	4.05	4.15	4.13	4.22	4.35	4.25	2	3.00
	11:50		Middle	2	27.10	27.10		8.38	8.38		31.98	31.98		63.4	61.9		4.22	4.10		4.17	4.24		4	
15/10/2012	12:55	Fine	Middle	2	28.00	28.00	28.05	8.30	8.30	8.30	32.25	32.25	32.27	64.3	63.3	64.2	4.20	4.14	4.20	3.80	3.64	3.66	4	4.00
	12:57		Middle	2	28.10	28.10		8.29	8.29		32.28	32.28		64.5	64.7		4.22	4.23		3.56	3.64		4	
17/10/2012	11:34	Fine	Middle	2	27.70	27.70	27.70	7.40	7.40	7.40	31.90	31.90	31.90	48.4	47.7	47.7	3.18	3.14	<u>3.14</u>	1.77	1.70	1.67	3	3.00
	11:36		Middle	2	27.70	27.70		7.40	7.40		31.90	31.90		47.4	47.3		3.11	3.11		1.61	1.58		3	<u> </u>
20/10/2012	2:03	Cloudy	Middle	2	25.70	25.70	25.70	8.33	8.33	8.33	31.51	31.51	31.51	71.7	72.8	72.3	5.18	5.12	5.19	5.31	5.25	5.19	3	3.00
	2:04		Middle	2	25.70	25.70		8.33	8.33		31.51	31.51		72.9	71.9		5.28	5.19		5.20	5.01		3	<u> </u>
22/10/2012	6:40	Fine	Middle	2	25.30	25.30	25.30	8.19	8.19	8.19	31.22	31.22	31.22	71.4	71.6	70.9	4.94	4.95	4.89	3.49	3.81	3.50	<2	<2
	6:41		Middle	2	25.30	25.30		8.19	8.19		31.22	31.22		70.2	70.3		4.84	4.84		3.40	3.31		<2	<u> </u>
25/10/2012	22:40	Smoky	Middle	1	25.90	25.90	25.90	8.23	8.23	8.23	31.91	31.91	31.91	79.1	78.9	79.0	5.36	5.36	5.36	3.27	3.28	3.31	7	7.50
	22:41		Middle	1	25.90	25.90		8.22	8.22		31.91	31.91		78.9	78.9		5.36	5.36		3.38	3.31		8	<u> </u>
27/10/2012	11:11	Cloudy	Middle	2	26.10	26.10	26.10	7.41	7.41	7.41	32.18	32.18	32.18	45.4	44.9	45.2	3.07	3.03	<u>3.05</u>	4.00	4.13	3.86	3	3.50
	11:12		Middle	2	26.10	26.10		7.40	7.40		32.18	32.18		45.2	45.1		3.05	3.05		3.70	3.59		4	

lam	
am	Water Monitoring Result at C1 - HKCEC

Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	0 1	Wat	er Temp °C	erature		pН			Salinit ppt	у	D	O Satu	ration		DO mg/L			Turbid NTU	ity	Suspend	ed Solids
		Condition	n	า	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2012	10:25	Fine	Middle	2.0	28.10	28.10	28.15	5.43	5.43	5.43	32.19	32.19	32.19	68.1	68.5	68.6	4.41	4.47	4.48	4.06	3.96	4.09	7	7.00
20/9/2012	10:27	Fille	Middle	2.0	28.20	28.20	20.15	5.43	5.43	5.45	32.19	32.19	32.19	68.7	69.2	00.0	4.50	4.52	4.40	4.28	4.04	4.09	7	7.00
2/10/2012	11:20	Fine	Middle	2.0	28.30	28.30	28.25	7.54	7.54	7.54	32.54	32.54	32.54	57.7	57.5	57.4	3.78	3.76	3.75	4.50	4.47	4.45	10	9.50
2/10/2012	11:22	Tine	Middle	2.0	28.20	28.20	20.23	7.54	7.54	7.54	32.54	32.54	52.54	57.3	56.9	57.4	3.74	3.71	5.75	4.43	4.41	4.40	9	5.50
4/10/2012	1:01	Fine	Middle	2.5	26.60	26.60	26.55	7.51	7.51	7.51	32.38	32.38	32.37	61.8	61.5	61.5	4.15	4.13	4.13	2.22	2.20	2.19	5	5.50
	1:05		Middle	2.5	26.50	26.50	20.00	7.50	7.50		32.36	32.36	02.01	61.3	61.2	0110	4.12	4.12		2.18	2.16	20	6	0.00
6/10/2012	2:10	Fine	Middle	2.5	26.80	26.80	26.65	7.45	7.45	7.46	32.34	32.34	32.34	64.1	63.8	63.7	4.31	4.29	4.28	2.54	2.51	2.50	3	3.00
	2:14		Middle	2.5	26.50	26.50		7.47	7.47		32.34	32.34		63.5	63.2		4.27	4.25		2.47	2.46		3	
8/10/2012	3:31	Cloudy	Middle	2.5	26.50	26.50	26.45	7.49	7.49	7.49	32.48	32.48	32.49	64.5	64.3	64.2	4.35	4.34	4.33	1.92	1.91	1.90	3	3.50
	3:35	,	Middle	2.5	26.40	26.40		7.48	7.48		32.50	32.50		64.1	63.9		4.32	4.30		1.90	1.88		4	
10/10/2012	6:26	Cloudy	Middle	2.0	26.50	26.50	26.50	7.42	7.42	7.43	32.50	32.50	32.45	62.7	62.5	62.4	4.24	4.23	4.22	2.07	2.04	2.03	6	6.50
	6:28	,	Middle	2.0	26.50	26.50		7.44	7.44		32.39	32.39		62.3	62.2		4.21	4.21		2.01	1.99		7	
13/10/2012	9:40	Fine	Middle	2.5	26.90	26.90	26.90	7.59	7.59	7.59	32.71	32.71	32.71	63.2	63.0	63.3	4.21	4.20	4.22	3.32	3.26	3.24	6	5.00
	9:42		Middle	2.5	26.90	26.90		7.59	7.59		32.71	32.71		63.3	63.6		4.22	4.24		3.20	3.18		4	
15/10/2012	11:35	Fine	Middle	2.0	27.70	27.70	27.60	7.57	7.57	7.57	32.59	32.59	32.60	65.5	64.6	65.4	4.31	4.26	4.31	4.68	4.49	4.58	9	8.50
	11:37		Middle	2.0	27.50	27.50		7.57	7.57		32.61	32.61		66.5	64.9		4.39	4.29		4.64	4.52		8	
17/10/2012	12:28	Fine	Middle	2.5	27.20	27.20	27.20	7.50	7.50	7.50	32.44	32.44	32.44	59.6	58.8	59.6	3.94	3.89	3.94	5.14	4.97	4.94	10	9.00
	12:30		Middle	2.5	27.20	27.20		7.50	7.50		32.44	32.44		60.1	59.9		3.98	3.96		4.79	4.86		8	
20/10/2012	2:10	Cloudy	Middle	2.0	25.70	25.70	25.55	7.56	7.56	7.57	32.67	32.67	32.67	64.1	63.8	63.6	4.37	4.35	4.34	3.06	3.04	3.03	4	4.50
	2:13		Middle	2.0	25.40	25.40		7.57	7.57		32.66	32.66		63.4	63.2		4.33	4.32		3.01	2.99		5	
22/10/2012	5:27	Fine	Middle	2.0	25.70	25.70	25.65	7.47	7.47	7.48	32.42	32.42	32.41	62.1	61.8	61.8	4.25	4.23	4.23	3.05	3.02	3.01	3	3.50
	5:30		Middle	2.0	25.60	25.60		7.48	7.48		32.40	32.40		61.6	61.5		4.22	4.22		2.98	2.97		4	
25/10/2012	22:10	Smoky	Middle	2.5	26.00	26.00	25.90	7.53	7.53	7.53	32.73	32.73	32.72	61.8	61.6	61.5	4.19	4.18	4.18	2.59	2.57	2.55	5	5.50
	22:12		Middle	2.5	25.80	25.80		7.52	7.52		32.71	32.71		61.4	61.3	1	4.17	4.17		2.53	2.52		6	
27/10/2012	9:57	Cloudy	Middle	2.0	26.30	26.30	26.30	7.58	7.58	7.58	32.81	32.81	32.81	72.2	72.5	72.2	4.85	4.88	4.85	5.85	6.20	5.98	6	5.50
	9:59		Middle	2.0	26.30	26.30		7.58	7.58		32.81	32.81		71.9	72.1		4.83	4.84		6.10	5.77		5	

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

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO mg/L			Turbid NTL	lity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	ppt alue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
28/9/2012	10:15	Fine	Middle	2.5	27.60	27.60	27.60	7.56	7.56	7.57	32.09	32.09	32.09	74.0	74.3	74.3	4.88	4.90	4.90	3.73	3.89	3.84	7	8.00
	10:17		Middle	2.5	27.60	27.60		7.57	7.57		32.09	32.09		74.4	74.6		4.91	4.92		3.82	3.90		9	
2/10/2012	11:05	Fine	Middle	2.0	27.30	27.30	27.30	7.55	7.55	7.55	32.43	32.43	32.37	54.1	53.8	53.7	3.57	3.56	3.55	3.00	2.97	2.95	6	5.50
	11:07		Middle	2.0	27.30	27.30		7.54	7.54		32.31	32.31		53.5	53.4		3.54	3.54		2.93	2.91		5	
4/10/2012	2:35	Fine	Middle	1.5	27.10	27.10	27.05	7.43	7.43	7.43	32.34	32.34	32.35	61.3	61.0	61.9	4.13	4.11	4.11	1.71	1.69	1.66	4	4.50
	2:41		Middle	1.5	27.00	27.00		7.43	7.43		32.36	32.36		62.7	62.6		4.09	4.09		1.63	1.62		5	
6/10/2012	1:48	Fine	Middle	2.0	26.30	26.30	26.25	7.38	7.38	7.39	32.16	32.16	32.17	63.9	63.5	63.5	4.32	4.29	4.29	1.37	1.34	1.33	4	4.00
	1:52		Middle	2.0	26.20	26.20		7.40	7.40		32.17	32.17		63.3	63.1		4.28	4.27		1.32	1.30		4	
8/10/2012	3:17	Cloudy	Middle	2.5	26.00	26.00	25.95	7.40	7.40	7.41	32.25	32.25	32.26	63.3	62.9	62.9	4.32	4.30	4.29	1.13	1.09	1.09	<2	<2
	3:20		Middle	2.5	25.90	25.90		7.42	7.42		32.26	32.26		62.8	62.5		4.28	4.26		1.07	1.06		<2	<u> </u>
10/10/2012	6:10	Cloudy	Middle	2.0	26.50	26.50	26.45	7.41	7.41	7.43	32.33	32.33	32.34	61.1	60.9	60.8	4.13	4.12	4.12	1.17	1.15	1.14	6	5.50
	6:13		Middle	2.0	26.40	26.40		7.44	7.44		32.34	32.34		60.7	60.5		4.11	4.10		1.13	1.10		5	
13/10/2012	9:20	Fine	Middle	2.0	26.60	26.60	26.55	7.47	7.47	7.47	32.50	32.50	32.50	58.5	58.7	58.7	3.94	3.95	3.95	2.26	2.12	2.20	6	6.50
	9:22 11:20		Middle Middle	2.0 1.5	26.50 27.10	26.50 27.10		7.47 7.56	7.47 7.56		32.50 32.50	32.50 32.50		58.9 62.8	58.8 63.1		3.96 4.16	3.96 4.18		2.18 5.53	2.23 5.43		10	
15/10/2012	11:20	Fine	Middle	1.5	27.10	27.10	27.15	7.56	7.56	7.56	32.49	32.49	32.50	62.9	62.5	62.8	4.10	4.10	4.16	5.40	5.44	5.45	9	9.50
	13:37		Middle	1.5	27.80	27.80		7.54	7.54		32.34	32.34		58.2	58.6		3.82	3.85		4.43	4.46		7	
17/10/2012	13:39	Fine	Middle	1.5	27.80	27.80	27.80	7.54	7.54	7.54	32.34	32.34	32.34	58.8	59.0	58.7	3.86	3.90	3.86	4.07	4.19	4.29	7	7.00
	1:28		Middle	2.0	25.90	25.90		7.49	7.49		32.55	32.55		61.2	61.0		4.16	4.15		1.58	1.56		2	
20/10/2012	1:30	Cloudy	Middle	2.0	25.70	25.70	25.80	7.52	7.52	7.51	32.54	32.54	32.55	60.9	60.7	61.0	4.15	4.14	4.15	1.53	1.51	1.55	2	2.00
	5:15		Middle	2.0	25.70	25.70		7.38	7.38		32.46	32.46		61.3	61.1		4.19	4.18		1.47	1.44		<2	
22/10/2012	5:20	Fine	Middle	2.0	25.60	25.60	25.65	7.40	7.40	7.39	32.45	32.45	32.46	60.9	60.8	61.0	4.16	4.16	4.17	1.42	1.41	1.44	<2	<2
05/10/0016	21:29		Middle	2.0	26.00	26.00	05.05	7.51	7.51		32.65	32.65		60.8	60.6		4.12	4.11		1.85	1.84	1.00	5	
25/10/2012	21:31	Smoky	Middle	2.0	25.70	25.70	25.85	7.51	7.51	7.51	32.64	32.64	32.65	60.4	60.1	60.5	4.10	4.08	4.10	1.82	1.80	1.83	5	5.00
07/40/0040	9:02	Olausta	Middle	2.0	25.90	25.90	05.05	7.52	7.52	7.50	32.72	32.72	00.70	60.3	60.4		4.09	4.11	4.40	6.17	5.69	5.05	7	7.50
27/10/2012	9:04	Cloudy	Middle	2.0	25.80	25.80	25.85	7.52	7.52	7.52	32.72	32.72	32.72	60.9	61.5	60.8	4.13	4.15	4.12	5.43	5.31	5.65	8	7.50

Remarks:



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salini ppt	ty	C	O Satu	ration		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average		Average
00/0/0040	10:20	F ire e	Middle	2.5	27.60	27.60	07.00	7.83	7.83	7.00	32.06	32.06	00.00	60.8	62.0	01.0	4.01	4.09	4.00	4.78	4.67	4.04	7	
28/9/2012	10:22	Fine	Middle	2.5	27.60	27.60	27.60	7.83	7.83	7.83	32.06	32.06	32.06	61.9	62.5	61.8	4.08	4.13	4.08	4.78	5.14	4.84	9	8.00
2/10/2012	12:38	Fine	Middle	2.5	26.80	26.80	26.75	7.52	7.52	7.52	32.38	32.38	32.39	52.7	52.2	52.3	3.49	3.45	3.45	3.46	3.41	3.41	8	8.50
2/10/2012	12:42	Fille	Middle	2.5	26.70	26.70	20.75	7.52	7.52	7.52	32.40	32.40	32.39	52.1	52.0	52.5	3.44	3.43	3.45	3.39	3.38	3.41	9	8.50
4/10/2012	2:11	Fine	Middle	2.5	27.20	27.20	27.15	7.43	7.43	7.43	32.24	32.24	32.25	59.7	59.5	59.4	3.98	3.97	3.96	1.32	1.27	1.27	4	4.00
4/10/2012	2:15	The	Middle	2.5	27.10	27.10	27.15	7.42	7.42	7.45	32.26	32.26	52.25	59.4	59.1	39.4	3.96	3.94	3.90	1.25	1.24	1.27	4	4.00
6/10/2012	3:34	Fine	Middle	2.5	27.00	27.00	26.95	7.37	7.37	7.38	32.06	32.06	32.10	60.0	59.7	59.6	4.02	4.00	3.98	1.80	1.77	1.75	2	2.00
0/10/2012	3:35	T IIIC	Middle	2.5	26.90	26.90	20.33	7.39	7.39	7.00	32.13	32.13	52.10	59.4	59.2	55.0	3.95	3.94	5.50	1.73	1.71	1.75	2	2.00
8/10/2012	5:13	Cloudy	Middle	2.5	26.20	26.20	26.15	7.35	7.35	7.35	32.11	32.11	32.13	59.4	59.1	59.0	4.03	4.01	4.00	3.47	3.45	3.45	5	5.00
0,10,2012	5:18	oloudy	Middle	2.5	26.10	26.10	20.10	7.34	7.34	1.00	32.15	32.15	02.10	58.8	58.7	00.0	3.99	3.98	4.00	3.44	3.42	0.40	5	0.00
10/10/2012	8:31	Cloudy	Middle	2.5	26.70	26.70	26.65	7.47	7.47	7.48	32.10	32.10	32.11	60.1	59.6	59.6	4.07	4.04	4.04	3.20	3.17	3.16	5	5.00
10/10/2012	8:34	oloudy	Middle	2.5	26.60	26.60	20.00	7.49	7.49	1.40	32.12	32.12	02.11	59.4	59.3	00.0	4.03	4.03	4.04	3.15	3.13	0.10	5	0.00
13/10/2012	10:37	Fine	Middle	2.5	26.50	26.50	26.50	7.52	7.52	7.52	32.53	32.53	32.53	54.3	54.1	54.3	3.64	3.63	3.64	4.32	4.38	4.33	6	7.00
	10:39		Middle	2.5	26.50	26.50		7.52	7.52		32.53	32.53		54.2	54.4		3.64	3.65		4.36	4.26		8	
15/10/2012	12:38	Fine	Middle	2.5	27.30	27.30	27.20	7.53	7.53	7.53	32.36	32.36	32.39	53.7	52.6	53.0	3.56	3.49	3.54	3.56	3.41	3.47	10	9.00
	12:40	-	Middle	2.5	27.10	27.10		7.53	7.53		32.41	32.41		.54.3	52.8		3.61	3.50		3.44	3.48		8	
17/10/2012	13:20	Fine	Middle	2.5	27.80	27.80	27.80	7.47	7.47	7.47	32.19	32.19	32.19	54.1	55.3	55.0	3.57	5.65	4.13	4.78	4.98	4.74	8	8.00
	13:22		Middle	2.5	27.80	27.80		7.47	7.47		32.19	32.19		56.2	54.2		3.71	3.58		4.63	4.58		8	
20/10/2012	3:46	Cloudy	Middle	3.0	25.90	25.90	25.75	7.48	7.48	7.49	32.33	32.33	32.32	56.4	56.3	56.2	3.84	3.84	3.83	2.43	2.40	2.39	5	4.50
	3:48		Middle	3.0	25.60	25.60		7.49	7.49		32.30	32.30		56.1	56.0		3.83	3.82		2.37	2.36		4	
22/10/2012	6:51	Fine	Middle	2.5	25.80	25.80	25.65	7.46	7.46	7.47	32.45	32.45	32.44	58.3	58.1	58.0	3.98	3.97	3.97	2.62	2.57	2.57	2	3.00
	6:56		Middle	2.5	25.50	25.50		7.47	7.47		32.42	32.42		57.8	57.7		3.96	3.96		2.55	2.53		4	
25/10/2012	23:30	Smoky	Middle	2.5	26.10	26.10	26.00	7.43	7.43	7.43	32.25	32.25	32.25	58.7	58.4	58.4	3.97	3.95	3.95	2.63	2.60	2.59	12	11.00
	23:32	-	Middle	2.5	25.90	25.90		7.42	7.42		32.24	32.24		58.2	58.1		3.94	3.94		2.57	2.55		10	
27/10/2012	9:24	Cloudy	Middle	2.5	26.10	26.10	26.10	7.58	7.58	7.58	32.67	32.67	32.67	56.3	56.0	56.3	3.80	3.79	3.81	5.86	6.02	5.89	6	6.50
	9:26		Middle	2.5	26.10	26.10		7.58	7.58		32.67	32.67		56.6	56.3		3.83	3.81		5.76	5.92		7	



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

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va		Average	Va	alue	Average	Va	lue lue	Average	Va	ilue	Average	Value	g/∟ Average
00/0/0010	11:05		Middle	1.5	28.40	28.40		7.65	7.65	7.05	31.97	31.97	04.07	60.3	60.6		3.92	3.94		3.61	3.32		6	
28/9/2012	11:07	Fine	Middle	1.5	28.40	28.40	28.40	7.65	7.65	7.65	31.96	31.96	31.97	61.0	61.7	60.9	3.96	4.01	3.96	3.15	3.54	3.41	8	7.00
2/10/2012	12:07	Fine	Middle	1.5	26.70	26.70	26.65	7.40	7.40	7.41	31.37	31.37	31.36	53.3	53.1	52.9	3.59	3.58	3.57	1.50	1.47	1.48	8	7.50
2/10/2012	12:11	T IIIC	Middle	1.5	26.60	26.60	20.00	7.41	7.41	7.41	31.35	31.35	01.00	52.7	52.5	02.0	3.56	3.55	0.01	1.46	1.49	1.40	7	1.00
4/10/2012	1:40	Fine	Middle	2.5	26.90	26.90	26.85	7.43	7.43	7.43	31.89	31.89	31.89	61.1	60.9	60.7	4.11	4.09	4.08	1.90	1.86	1.86	5	4.50
	1:43		Middle	2.5	26.80	26.80		7.42	7.42		31.88	31.88		60.5	60.3		4.07	4.05		1.84	1.82		4	
6/10/2012	3:09	Fine	Middle	2.0	26.70	26.70	26.60	7.32	7.32	7.34	31.74	31.74	31.75	61.2	60.8	60.7	4.17	4.15	4.14	3.36	3.34	3.32	6	5.50
	3:11		Middle	2.0	26.50	26.50		7.36	7.36		31.75	31.75		60.5	60.1		4.13	4.12		3.30	3.28		5	
8/10/2012	4:37	Cloudy	Middle	2.0	26.10	26.10	26.05	7.25	7.25	7.24	30.85	30.85	30.86	60.2	60.0	59.9	4.13	4.12	4.11	3.26	3.23	3.23	3	3.00
	4:40	-	Middle	2.0	26.00	26.00		7.23	7.23		30.87	30.87		59.7	59.6		4.10	4.09		3.21	3.20		3	
10/10/2012	7:29	Cloudy	Middle	2.0	26.30	26.30	26.25	7.43	7.43	7.43	31.24	31.24	31.26	62.6	62.4	62.3	4.33	4.32	4.32	2.56	2.53	2.52	7	6.50
	7:31	-	Middle	2.0	26.20	26.20		7.42	7.42		31.27	31.27		62.2	62.1		4.31	4.31		2.51	2.49		6	
13/10/2012	10:17	Fine	Middle	1.5	27.10	27.10	27.10	7.51	7.51	7.51	31.84	31.84	31.84	50.0	49.7	49.8	3.34	3.31	<u>3.32</u>	4.69	4.73	4.70	8	7.50
	10:19		Middle	1.5	27.10	27.10		7.51	7.51		31.84	31.84		49.9	49.5		3.32	3.30		4.71	4.65		7	
15/10/2012	12:18	Fine	Middle	1.5	27.70	27.70	27.55	7.53	7.53	7.53	32.26	32.26	32.28	54.9	53.8	54.3	3.62	3.56	3.59	3.45	3.33	3.37	7	6.50
	12:20		Middle	1.5	27.40	27.40		7.52	7.52		32.30	32.30		55.1	53.4		3.64	3.53		3.31	3.40		6	
17/10/2012	13:02	Fine	Middle	1.5	27.90	27.90	27.90	7.48	7.48	7.48	32.13	32.13	32.13	54.5	54.2	54.6	3.57	3.55	3.58	6.87	5.86	6.41	10	10.50
	13:04		Middle	1.5	27.90	27.90		7.48	7.48		32.13	32.13		54.8	54.9		3.59	3.59		6.37	6.52		11	
20/10/2012	3:24	Cloudy	Middle	2.0	25.80	25.80	25.75	7.47	7.47	7.48	32.41	32.41	32.42	57.0	56.8	56.7	3.89	3.88	3.88	1.57	1.55	1.55	5	4.00
	3:26		Middle	2.0	25.70	25.70		7.49	7.49		32.43	32.43		56.6	56.5		3.87	3.87		1.54	1.52		3	
22/10/2012	6:18	Fine	Middle	2.0	25.70	25.70	25.55	7.36	7.36	7.38	31.24	31.24	31.24	58.0	57.8	57.7	4.00	4.00	4.00	2.29	2.23	2.24	2	2.00
	6:21		Middle	2.0	25.40	25.40		7.40	7.40		31.24	31.24		57.6	57.5		3.99	3.99		2.22	2.21		2	
25/10/2012	23:10	Smoky	Middle	2.0	25.70	25.70	25.60	7.53	7.53	7.53	32.49	32.49	32.49	60.4	60.2	60.2	4.12	4.11	4.11	1.95	1.94	1.93	8	7.00
	23:12		Middle	2.0	25.50	25.50		7.52	7.52		32.49	32.49		60.1	60.0		4.11	4.10		1.92	1.91		6	
27/10/2012	9:13	Cloudy	Middle	1.5	26.20	26.20	26.20	7.57	7.57	7.57	32.52	32.52	32.52	60.5	60.7	60.7	4.08	4.09	4.10	3.78	4.39	4.06	6	6.50
	9:15	-	Middle	1.5	26.20	26.20		7.57	7.57		32.52	32.52		60.9	60.8		4.11	4.10		4.21	3.84		7	



Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pН			Salinit ppt	у	C	O Satur %	ration		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	า	Va		Average	Va	lue -	Average	Va	ilue	Average	Va	alue	Average	Va	lue	Average	Va	-	Average		g/∟ Average
28/9/2012	11:15	Fine	Middle	2.0	28.20	28.20	28.20	7.77	7.77	7.78	31.92	31.92	31.93	55.0	55.7	56.1	3.61	3.65	3.67	3.03	3.24	3.09	5	5.50
20/3/2012	11:17	Time	Middle	2.0	28.20	28.20	20.20	7.78	7.78	1.10	31.93	31.93	51.95	57.0	56.5	30.1	3.70	3.70	3.07	3.14	2.95	3.09	6	5.50
2/10/2012	12:17	Fine	Middle	1.5	27.20	27.20	26.85	7.50	7.50	5.76	32.13	32.13	32.16	54.7	54.3	54.2	3.64	3.62	3.61	2.77	2.75	2.73	7	6.00
2,10,2012	12:23		Middle	1.5	26.50	26.50	20.00	7.51	0.51	0.170	32.19	32.19	02.10	54.1	53.8	0112	3.60	3.58	0.01	2.71	2.69	20	5	0.00
4/10/2012	1:51	Fine	Middle	2.5	27.10	27.10	27.05	7.42	7.42	7.42	32.20	32.20	32.22	62.6	62.4	62.3	4.18	4.17	4.16	1.28	1.26	1.25	4	3.50
	1:55		Middle	2.5	27.00	27.00		7.42	7.42		32.23	32.23	-	62.2	62.1		4.15	4.15		1.23	1.22		3	
6/10/2012	3:21	Fine	Middle	2.0	27.00	27.00	26.95	7.31	7.31	7.34	32.11	32.11	32.11	61.6	61.4	61.4	4.15	4.14	4.15	1.32	1.29	1.28	4	3.50
	3:23		Middle	2.0	26.90	26.90		7.36	7.36		32.11	32.11		61.3	61.2		4.19	4.13		1.27	1.25		3	
8/10/2012	4:57	Cloudy	Middle	2.0	26.60	26.60	26.55	7.31	7.31	7.32	32.02	32.02	32.02	61.4	61.1	61.0	4.14	4.12	4.12	1.79	1.75	1.75	4	4.00
	5:00		Middle	2.0	26.50	26.50		7.33	7.33		32.02	32.02		60.8	60.7		4.10	4.10		1.73	1.72		4	
10/10/2012	7:54	Cloudy	Middle	2.0	26.70	26.70	26.65	7.41	7.41	7.41	29.51	29.51	29.52	63.6	63.2	63.1	4.37	4.35	4.34	1.51	1.49	1.48	10	9.00
	7:57		Middle	2.0	26.60	26.60		7.41	7.41		29.53	29.53		62.9	62.7		4.33	4.32		1.47	1.46	1	8	
13/10/2012	10:27	Fine	Middle	1.5	26.90	26.90	26.90	7.44	7.44	7.44	32.21	32.21	32.22	40.4	40.6	40.8	2.71	2.72	<u>2.75</u>	1.45	1.51	1.50	3	2.50
	10:29		Middle	1.5	26.90	26.90		7.44	7.44		32.22	32.22		41.0	41.3		2.79	2.76		1.55	1.48		2	<u> </u>
15/10/2012	12:28	Fine	Middle	1.0	27.40	27.40	27.35	7.48	7.48	7.48	32.09	32.09	32.09	50.6	49.4	50.5	3.35	3.27	<u>3.35</u>	2.40	2.54	2.49	7	7.00
	12:30		Middle	1.0	27.30	27.30		7.48	7.48		32.09	32.09		51.3	50.8		3.39	3.37		2.50	2.51		7	<u> </u>
17/10/2012	13:10	Fine	Middle	1.5	27.90	27.90	27.90	7.42	7.42	7.42	32.09	32.09	32.09	42.9	43.0	43.2	2.82	2.83	<u>2.84</u>	2.79	2.88	2.90	5	4.50
	13:12		Middle	1.5	27.90	27.90		7.42	7.42		32.09	32.09		43.4	43.6		2.85	2.87		2.84	3.09		4	
20/10/2012	3:34 3:36	Cloudy	Middle Middle	2.0	25.60 25.30	25.60 25.30	25.45	7.44 7.46	7.44	7.45	32.56 32.58	32.56 32.58	32.57	59.1 58.6	58.8 58.5	58.8	4.07 4.05	4.06 4.05	4.06	1.34 1.28	1.29	1.29	13	12.50
	6:32		Middle	2.0	25.80	25.80		7.32	7.40		32.38	32.38		58.6	58.3		4.03	4.03		1.20	1.20		5	
22/10/2012	6:35	Fine	Middle	2.0	25.60	25.60	25.70	7.33	7.33	7.33	32.24	32.24	32.24	58.1	57.9	58.2	4.04	4.00	4.02	1.17	1.16	1.19	6	5.50
	23:17		Middle	2.0	26.10	26.10		7.42	7.42		32.51	32.51		60.7	60.5		4.13	4.12		1.32	1.30		9	\vdash
25/10/2012	23:19	Smoky	Middle	2.0	26.00	26.00	26.05	7.46	7.46	7.44	32.52	32.52	32.52	60.4	60.2	60.5	4.11	4.10	4.12	1.27	1.26	1.29	9	9.00
	9:19		Middle	2.0	26.20	26.20		7.54	7.54		32.63	32.63		51.4	51.2		3.47	3.46		2.52	2.42		8	+
27/10/2012	9:21	Cloudy	Middle	2.0	26.20	26.20	26.20	7.54	7.54	7.54	32.63	32.63	32.63	51.9	51.8	51.6	3.51	3.50	3.49	2.41	2.52	2.47	8	8.00



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

Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini ppt	ty	D	O Satu	ration		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
	11:55		Middle	1.0	29.10	29.10		8.00	8.00		31.31	31.31		73.6	73.0		4.75	4.71		5.08	5.12		13	
28/9/2012	11:56	Fine	Middle	1.0	29.20	29.20	29.15	8.00	8.00	8.00	31.32	31.32	31.32	73.8	73.1	73.4	4.76	4.71	4.73	5.14	4.98	5.08	14	13.50
2/10/2012	12:39	Fine	Middle	1.0	28.40	28.40	28.40	8.37	8.37	8.37	32.56	32.56	32.56	76.2	75.0	74.8	4.95	4.89	4.87	4.55	3.86	4.13	4	4.50
2/10/2012	12:40	T ine	Middle	1.0	28.40	28.40	20.40	8.37	8.37	0.57	32.56	32.56	32.30	74.9	73.1	74.0	4.89	4.75	4.07	4.07	4.04	4.13	5	4.50
4/10/2012	1:55	Fine	Middle	1.0	27.10	27.10	27.10	8.26	8.26	8.26	32.59	32.59	32.59	67.9	68.3	67.5	4.50	4.52	4.47	2.24	2.08	2.13	3	3.50
	1:56		Middle	1.0	27.10	27.10	21110	8.26	8.26	0.20	32.59	32.59	02.00	66.6	67.1	0110	4.41	4.44		2.13	2.05	20	4	0.00
6/10/2012	1:46	Fine	Middle	1.0	27.00	27.00	27.00	8.32	8.32	8.32	32.44	32.44	32.44	78.7	79.1	78.2	5.36	5.47	5.30	3.90	3.85	4.05	4	4.00
	1:47		Middle	1.0	27.00	27.00		8.32	8.32		32.44	32.44		77.2	77.8		5.15	5.22		4.12	4.33		4	
8/10/2012	5:18	Cloudy	Middle	1.0	26.90	26.90	26.90	8.35	8.35	8.36	31.91	31.91	31.91	80.7	81.7	81.4	5.42	5.46	5.44	5.27	5.09	5.06	7	6.50
	5:19		Middle	1.0	26.90	26.90		8.36	8.36		31.91	31.91		81.4	81.6		5.43	5.45		4.96	4.90		6	
10/10/2012	5:48	Cloudy	Middle	1.0	26.20	26.20	26.15	8.31	8.31	8.32	32.26	32.26	32.26	76.4	77.0	76.4	5.15	5.20	5.16	3.54	3.57	3.66	6	5.00
	5:49		Middle	1.0	26.10	26.10		8.32	8.32		32.26	32.26		76.5	75.8		5.16	5.12		3.90	3.62		4	
13/10/2012	10:40	Fine	Middle	1.5	27.40	27.40	27.45	8.71	8.71	8.71	29.49	29.49	29.50	80.5	78.9	79.8	5.40	5.29	5.35	19.20	18.20	18.43	22	22.00
	10:42		Middle	1.5	27.50	27.50		8.70	8.70		29.50	29.50		79.8	79.9		5.35	5.36		18.10	18.20		22	
15/10/2012	12:08	Fine	Middle	1.5	27.90	27.90	27.90	8.73	8.73	8.73	32.88	32.88	32.89	59.2	59.2	59.3	3.86	3.85	3.85	19.00	17.70	<u>17.90</u>	37	<u>36.50</u>
	12:10		Middle	1.5	27.90	27.90		8.73	8.73		32.90	32.90		59.3	59.3		3.86	3.84		17.70	17.20		36	
17/10/2012	13:31	Fine	Middle	1.5	28.40	28.40	28.50	8.40	8.40	8.40	32.74	32.74	32.72	62.5	62.3	62.4	4.04	4.03	4.04	7.60	7.83	7.71	13	12.50
	13:32		Middle	1.5	28.60	28.60		8.40	8.40		32.70	32.70		62.3	62.6		4.04	4.06		7.70	7.72		12	<u> </u>
20/10/2012	2:47	Cloudy	Middle	1.5	26.20	26.20	26.05	7.55	7.55	7.55	32.43	32.43	32.44	57.5	57.3	57.3	3.91	3.90	3.90	5.55	5.52	5.51	6	5.50
	2:50		Middle	1.5	25.90	25.90		7.55	7.55		32.44	32.44		57.2	57.0		3.90	3.89		5.50	5.48		5	<u> </u>
22/10/2012	6:05	Fine	Middle	1.0	25.50	25.50	25.50	8.34	8.34	8.34	32.30	32.30	32.30	69.5	69.4	69.8	4.74	4.74	4.76	7.18	6.77	6.79	5	6.00
	6:06		Middle	1.0	25.50	25.50		8.34	8.34		32.30	32.30		70.2	70.0		4.79	4.77		6.65	6.57		7	<u> </u>
25/10/2012	22:00	Smoky	Middle	1.0	26.30	26.30	26.30	8.66	8.66	8.66	31.92	31.92	31.92	71.6	71.5	71.3	4.83	4.82	4.81	7.63	7.76	7.35	8	7.50
	22:01		Middle	1.0	26.30	26.30		8.66	8.66		31.92	31.92		71.3	70.9		4.81	4.78		7.09	6.92		7	<u> </u>
27/10/2012	11:42	Cloudy	Middle	1.5	26.70	26.70	26.70	8.56	8.56	8.56	32.52	32.52	32.52	60.5	60.0	60.4	4.04	4.01	4.05	6.62	6.43	6.36	8	8.00
	11:44		Middle	1.5	26.70	26.70		8.56	8.56		32.52	32.52		60.7	60.5		4.10	4.04		6.17	6.20		8	



Water Monitoring Result at C5w - Sun Hung Kai Centre Mid-Ebb 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 NTL			led Solids a/L
		Condition	r	n	Va	ilue	Average	Va	lue -	Average	Va		Average	Va	alue	Average	Va	lue	Average	Va		Average		g/∟ Average
28/9/2012	11:59	Fine	Middle	1.0	29.10	29.10	29.10	8.06	8.06	8.06	29.51	29.51	29.52	79.8	79.3	79.6	5.20	5.17	5.19	5.61	5.87	5.69	9	9.00
28/9/2012	12:00	FINE	Middle	1.0	29.10	29.10	29.10	8.05	8.05	8.00	29.52	29.52	29.52	79.3	79.9	79.6	5.17	5.21	5.19	5.59	5.70	5.69	9	9.00
2/10/2012	12:50	Fine	Middle	1.0	28.40	28.40	28.40	8.38	8.38	8.38	32.84	32.84	32.84	77.4	78.1	77.7	5.02	5.08	5.05	3.22	3.25	3.20	8	7.00
2/10/2012	12:51	Tine	Middle	1.0	28.40	28.40	20.40	8.38	8.38	0.50	32.84	32.84	32.04	78.1	77.2	11.1	5.07	5.01	3.05	3.03	3.28	0.20	6	7.00
4/10/2012	2:05	Fine	Middle	1.0	27.30	27.30	27.25	8.35	8.35	8.35	32.05	32.05	32.05	78.2	78.8	78.6	5.19	5.23	5.21	4.42	4.34	4.32	7	6.50
	2:06	-	Middle	1.0	27.20	27.20		8.35	8.35		32.05	32.05		78.8	78.4		5.23	5.20	-	4.18	4.34	-	6	
6/10/2012	1:57	Fine	Middle	1.0	27.10	27.10	27.05	8.30	8.30	8.30	32.05	32.05	32.05	77.5	78.3	77.9	5.16	5.21	5.18	2.82	2.88	2.75	<2	- <2
	1:58	-	Middle	1.0	27.00	27.00		8.30	8.30		32.05	32.05		78.1	77.5		5.20	5.16		2.62	2.68		<2	
8/10/2012	5:25	Cloudy	Middle	1.0	27.00	27.00	27.00	8.41	8.41	8.41	32.38	32.38	32.38	79.6	79.6	80.7	5.32	5.32	5.38	22.20	23.00	<u>22.60</u>	53	<u>54.00</u>
	5:26		Middle	1.0	27.00	27.00		8.41	8.41		32.38	32.38		81.8	81.7		5.44	5.45		21.00	24.20		55	
10/10/2012	5:56	Cloudy	Middle	1.0	26.20	26.20	26.20	8.33	8.33	8.33	32.18	32.18	32.18	73.3	73.8	73.7	5.15	5.01	5.03	3.33	3.25	3.34	4	4.50
	5:57		Middle	1.0	26.20	26.20		8.33	8.33		32.18	32.18		73.9	73.6		4.99	4.97		3.45	3.34		5	<u> </u>
13/10/2012	10:47	Fine	Middle	1.5	27.10	27.10	27.10	8.68	8.68	8.68	30.83	30.83	30.84	78.3	79.2	78.8	5.25	5.31	5.28	16.00	16.20	<u>16.30</u>	25	<u>25.00</u>
	10:49		Middle	1.5	27.10	27.10		8.68	8.68		30.84	30.84		79.0	78.8		5.29	5.28		16.20	16.80		25	<u> </u>
15/10/2012	12:14	Fine	Middle	1.5	27.90	27.90	27.90	8.21	8.21	8.21	32.24	32.24	32.24	64.9	62.6	63.4	4.25	4.10	4.15	12.60	12.40	<u>12.38</u>	16	15.00
	12:16		Middle	1.5	27.90	27.90		8.21	8.21		32.24	32.24		62.8	63.2		4.11	4.15		12.30	12.20		14	
17/10/2012	13:36	Fine	Middle	1.5	28.10	28.10	28.20	8.39	8.39	8.39	32.46	32.46	32.43	67.2	67.8	67.9	4.37	4.40	4.42	8.18	8.51	8.37	3	3.50
	13:37		Middle	1.5	28.30	28.30		8.39	8.39		32.40	32.40		68.4	68.2		4.46	4.45		8.53	8.24		4	<u> </u>
20/10/2012	2:59	Cloudy	Middle	1.5	26.20	26.20	26.15	7.54	7.54	7.55	32.48	32.48	32.46	57.9	57.7	57.7	3.92	3.91	3.91	5.36	5.35	5.33	8	8.50
	3:01		Middle	1.5	26.10	26.10		7.55	7.55		32.44	32.44		57.6	57.4		3.91	3.90		5.31	5.29		9	<u> </u>
22/10/2012	6:13	Fine	Middle	1.0	25.50	25.50	25.50	8.30	8.30	8.30	32.50	32.50	32.50	64.3	65.2	65.0	4.43	4.45	4.44	5.75	5.35	5.43	4	4.00
	6:14		Middle	1.0	25.50	25.50		8.30	8.30		32.50	32.50		65.3	65.0		4.44	4.42		5.32	5.30		4	<u> </u>
25/10/2012	22:10	Smoky	Middle	1.0	26.50	26.50	26.50	8.60	8.59	8.59	32.65	32.65	32.65	69.0	69.9	69.0	4.62	4.68	4.62	4.67	4.58	4.49	10	10.50
	22:11		Middle	1.0	26.50	26.50		8.59	8.59		32.65	32.65		69.0	68.2		4.62	4.57		4.38	4.31		11	<u> </u>
27/10/2012	11:48	Cloudy	Middle	1.5	26.60	26.60	26.60	8.56	8.56	8.56	32.48	32.48	32.49	64.5	64.3	64.5	4.37	4.36	4.37	5.50	5.67	5.39	7	7.00
	11:50		Middle	1.5	26.60	26.60		8.56	8.56		32.50	32.50		64.9	64.4		4.39	4.36		5.27	5.10		7	

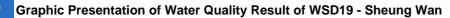


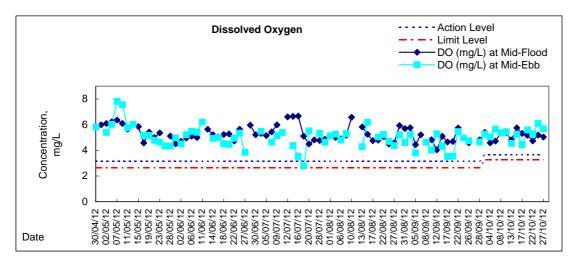
Date	Time	Weater Condition	Samplin	ig Depth	Wate	er Temp	erature		pН			Salini	ty	D	O Satur	ation		DO			Turbid			led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	alue	Average	mı Value	g/L Average
28/9/2012	10:45	Fine	Middle	2.0	28.10	28.10	28.10	7.78	7.78	7.79	31.46	31.46	31.47	62.0	62.3	62.4	4.07	4.09	4.10	3.11	2.93	2.97	6	6.50
28/9/2012	10:47	Fine	Middle	2.0	28.10	28.10	28.10	7.79	7.79	7.79	31.47	31.47	31.47	62.5	62.7	62.4	4.10	4.12	4.10	2.85	3.00	2.97	7	0.50
2/10/2012	11:37	Fine	Middle	2.0	27.50	27.50	27.45	7.54	7.54	7.54	32.11	32.11	32.13	54.2	54.0	54.0	3.57	3.56	<u>3.55</u>	3.02	2.96	2.96	8	8.50
2/10/2012	11:40	1 IIIe	Middle	2.0	27.40	27.40	27.45	7.53	7.53	7.54	32.15	32.15	32.13	53.9	53.7	34.0	3.54	3.53	3.33	2.93	2.91	2.90	9	0.50
4/10/2012	1:30	Fine	Middle	1.0	27.00	27.00	26.95	7.45	7.45	7.46	32.26	32.26	32.28	62.1	61.8	61.7	4.20	4.18	4.18	2.21	2.16	2.16	5	5.50
4/10/2012	1:37	Tille	Middle	1.0	26.90	26.90	20.33	7.47	7.47	7.40	32.30	32.30	32.20	61.6	61.4	01.7	4.17	4.15	4.10	2.14	2.11	2.10	6	5.50
6/10/2012	2:21	Fine	Middle	1.0	26.90	26.90	26.85	7.45	7.45	7.46	32.28	32.28	32.29	61.4	61.1	60.9	4.10	4.08	4.07	1.97	1.95	1.94	3	3.50
0/10/2012	2:24	T IIIO	Middle	1.0	26.80	26.80	20.00	7.47	7.47	1.40	32.29	32.29	02.20	60.7	60.5	00.0	4.06	4.05	4.07	1.93	1.92	1.04	4	0.00
8/10/2012	3:56	Cloudy	Middle	1.0	26.80	26.80	26.75	7.42	7.42	7.43	32.44	32.44	32.46	61.1	60.9	60.9	4.09	4.07	4.07	4.43	4.39	4.39	12	13.00
0,10,2012	3:59	cicuaj	Middle	1.0	26.70	26.70	20.10	7.43	7.43		32.47	32.47	02.10	60.8	60.7	0010	4.07	4.06		4.37	4.36		14	10100
10/10/2012	6:48	Cloudy	Middle	1.0	26.70	26.70	26.65	7.35	7.35	7.34	32.21	32.21	32.22	60.4	60.2	60.1	4.10	4.09	4.09	2.47	2.45	2.45	8	8.00
10/10/2012	6:50	Cloudy	Middle	1.0	26.60	26.60	20.00	7.33	7.33	1.04	32.22	32.22	02.22	60.0	59.9	00.1	4.08	4.07	4.00	2.44	2.43	2.40	8	0.00
13/10/2012	9:59	Fine	Middle	2.0	26.80	26.80	26.80	7.56	7.56	7.56	32.63	32.63	32.63	53.5	53.8	53.6	3.57	3.58	<u>3.58</u>	3.13	3.16	3.12	4	4.50
10,10,2012	10:01		Middle	2.0	26.80	26.80	20.00	7.56	7.56	1.00	32.63	32.63	02.00	53.4	53.7	00.0	3.57	3.59	<u></u>	3.10	3.08	0.112	5	
15/10/2012	11:53	Fine	Middle	2.0	27.80	27.80	27.75	7.43	7.43	7.44	32.24	32.24	32.25	40.7	41.1	41.2	2.67	2.70	<u>2.71</u>	1.58	1.72	1.66	12	12.00
10,10,2012	11:55		Middle	2.0	27.70	27.70	21.110	7.44	7.44		32.25	32.25	02.20	41.8	41.0		2.75	2.70	<u> </u>	1.71	1.63		12	12100
17/10/2012	12:45	Fine	Middle	2.0	27.80	27.80	27.80	7.47	7.47	7.47	32.26	32.26	32.26	53.3	52.9	52.8	3.50	3.47	<u>3.46</u>	3.65	3.79	3.49	4	4.00
	12:47		Middle	2.0	27.80	27.80		7.47	7.47		32.26	32.26		52.6	52.2		3.45	3.43		3.43	3.07		4	
20/10/2012	2:30	Cloudy	Middle	1.5	26.10	26.10	26.00	7.46	7.46	7.46	32.65	32.65	32.67	60.7	60.4	60.4	4.11	4.16	4.11	3.11	3.09	3.09	6	7.00
20/10/2012	2:04	Cloudy	Middle	1.5	25.90	25.90	20.00	7.46	7.46	1.40	32.68	32.68	02.07	60.2	60.1	00.4	4.09	4.09	4.11	3.08	3.06	0.00	8	1.00
22/10/2012	5:47	Fine	Middle	1.5	26.00	26.00	25.95	7.37	7.37	7.40	32.01	32.01	32.02	59.9	59.7	59.6	4.09	4.08	4.08	2.38	2.37	2.35	4	3.50
	5:51		Middle	1.5	25.90	25.90	20.00	7.42	7.42	7.40	32.03	32.03	02.02	59.5	59.3	00.0	4.07	4.06	4.00	2.35	2.31	2.00	3	0.00
25/10/2012	22:34	Smoky	Middle	1.0	26.00	26.00	25.90	7.50	7.50	7.51	32.26	32.26	32.24	60.5	60.4	60.3	4.11	4.11	4.10	2.14	2.11	2.10	5	4.50
20,10,2012	22:36	<u> </u>	Middle	1.0	25.80	25.80	20.00	7.51	7.51		32.22	32.22		60.2	60.1	00.0	4.10	4.09		2.08	2.06	20	4	
27/10/2012	9:36	Cloudy	Middle	2.0	26.10	26.10	26.10	7.58	7.58	7.58	32.80	32.80	32.80	65.4	64.7	64.8	4.41	4.47	4.40	9.48	9.46	9.34	6	5.50
21/10/2012	9:38	Cloudy	Middle	2.0	26.10	26.10	20.10	7.58	7.58	1.00	32.80	32.80	02.00	64.7	64.5	04.0	4.36	4.37	07.70	9.45	8.96	0.01	5	0.00

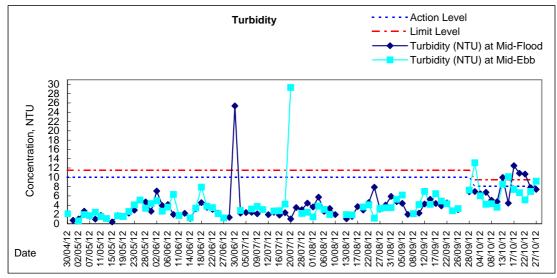


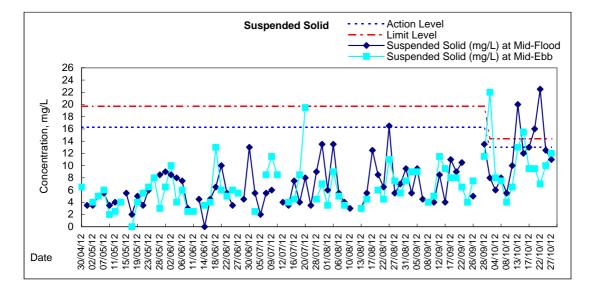
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

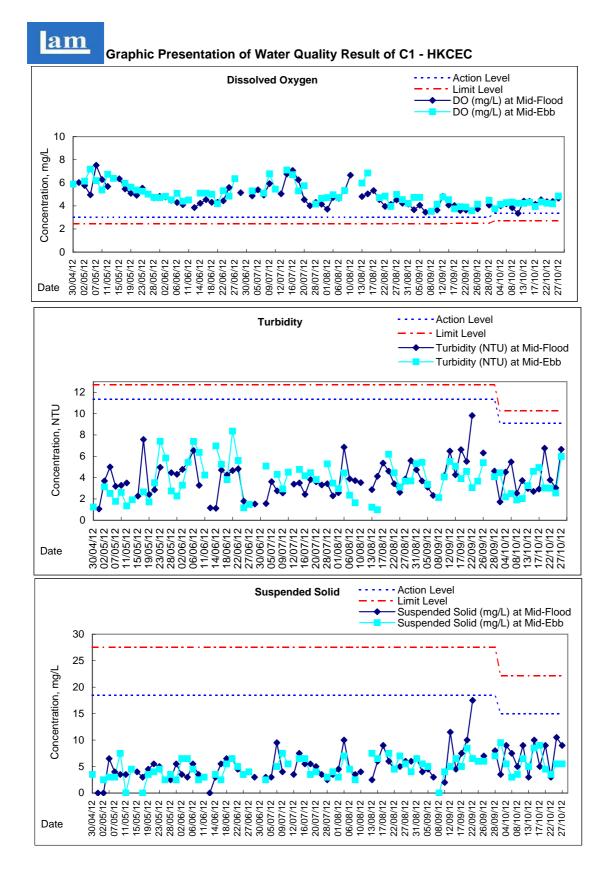
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	oerature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	alue	Average	Va	lue -	Average	Va	lue ppt	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
00/0/0040	11:23	F ire	Middle	3.0	28.80	28.80	00.00	7.98	7.98	7.00	32.64	32.64	32.65	72.3	73.9	72.2	4.66	4.76	4.05	7.56	7.17	7.04	12	44.50
28/9/2012	11:25	Fine	Middle	3.0	28.80	28.80	28.80	7.97	7.97	7.98	32.65	32.65	32.00	71.1	71.6	12.2	4.58	4.61	4.65	6.97	7.24	7.24	11	11.50
2/10/2012	14:25	Fine	Middle	1.5	27.90	27.90	27.90	8.42	8.42	8.42	33.10	33.10	33.10	80.2	80.4	80.4	5.26	5.26	5.26	12.50	13.40	13.13	22	22.00
2/10/2012	14:26	T ine	Middle	1.5	27.90	27.90	21.90	8.42	8.42	0.42	33.10	33.10	33.10	80.5	80.3	00.4	5.27	5.25	5.20	13.50	13.10	13.13	22	22.00
4/10/2012	4:30	Fine	Middle	1.5	26.80	26.80	26.80	8.34	8.34	8.34	32.45	32.45	32.45	76.1	75.7	75.7	5.07	5.05	5.05	6.12	6.35	6.02	8	8.00
	4:31		Middle	1.5	26.80	26.80	20.00	8.34	8.34	0.01	32.45	32.45	02.10	75.3	75.7		5.02	5.04	0.00	5.87	5.72	0.02	8	0.00
6/10/2012	4:40	Fine	Middle	1.5	26.30	26.30	26.30	8.30	8.30	8.30	32.53	32.53	32.53	82.9	83.9	84.1	5.58	5.65	5.66	4.29	4.25	4.19	8	7.50
	4:41		Middle	1.5	26.30	26.30		8.29	8.29		32.53	32.53		84.0	85.4		5.66	5.75		4.24	3.97		7	
8/10/2012	4:55	Cloudy	Middle	1.5	26.60	26.60	26.60	8.37	8.37	8.37	32.69	32.69	32.69	80.7	80.4	80.4	5.39	5.37	5.37	4.32	4.35	4.30	4	4.00
	4:56	-	Middle	1.5	26.60	26.60		8.37	8.37		32.69	32.69		80.2	80.2		5.36	5.36		4.47	4.06		4	
10/10/2012	5:30	Cloudy	Middle	2.0	26.00	26.00	26.00	8.23	8.23	8.23	32.59	32.59	32.59	81.4	81.4	80.9	5.49	5.49	5.46	3.63	3.60	3.55	6	6.50
	5:31		Middle	2.0	26.00	26.00		8.23	8.23		32.59	32.59		80.0	80.7		5.41	5.45		3.56	3.41		7	
13/10/2012	10:18	Fine	Middle	3.0	27.40	27.40	27.35	8.42	8.42	8.41	33.40	33.40	33.42	69.5	68.5	69.1	4.57	4.50	4.54	8.62	8.26	<u>8.48</u>	12	13.00
	10:20		Middle	3.0	27.30	27.30		8.40	8.40		33.43	33.43		68.1	70.2		4.47	4.61		8.62	8.43		14	
15/10/2012	11:42	Fine	Middle	2.5	27.40	27.40	27.40	8.51	8.51	8.51	32.72	32.72	32.73	80.0	79.5	79.6	5.27	5.24	5.25	10.10	10.50	<u>10.12</u>	15	<u>15.50</u>
	11:44		Middle	2.5	27.40	27.40		8.50	8.50		32.74	32.74		79.3	79.7		5.23	5.25		9.91	9.98		16	<u> </u>
17/10/2012	13:07	Fine	Middle	2.0	27.70	27.70	27.70	8.39	8.39	8.39	31.73	31.73	31.73	67.8	66.8	67.5	4.47	4.37	4.45	7.49	7.39	7.38	10	9.50
	13:09		Middle	2.0	27.70	27.70		8.39	8.39		31.72	31.72		68.1	67.2		4.50	4.46		7.35	7.30		9	<u> </u>
20/10/2012	4:15	Cloudy	Middle	1.5	25.70	25.70	25.70	8.39	8.39	8.39	32.79	32.79	32.79	82.0	81.9	82.3	5.57	5.56	5.59	6.86	6.89	6.68	9	9.50
	4:16		Middle	1.5	25.70	25.70		8.39	8.39		32.79	32.79		81.9	83.3		5.56	5.65		6.44	6.53		10	
22/10/2012	5:45 5:46	Fine	Middle	1.5 1.5	25.90 25.90	25.90 25.90	25.90	8.41 8.41	8.41 8.41	8.41	32.82 32.82	32.82 32.82	32.82	79.2 78.1	78.5 78.1	78.5	5.35 5.27	5.30 5.27	5.30	5.13 5.33	5.07 4.98	5.13	6 8	7.00
	0:25		Middle	1.5	25.90	25.90		8.41	8.41		32.82	32.82		78.1 89.7	78.1 89.7		6.12	6.12		7.00	4.98 6.99		8	<u> </u>
25/10/2012	0:25	Smoky	Middle	1.5	25.70	25.70	25.70	8.42	8.42	8.42	31.66	31.66	31.66	89.7	89.0	89.5	6.09	6.05	6.10	6.56	7.28	6.96	10	10.00
	11:00		Middle	2.0	25.70	25.70		8.42 8.36	8.36		33.05	33.05		89.7 84.2	89.0		5.66	5.69		9.99	8.99		10	<u> </u>
27/10/2012	11:02	Cloudy	Middle	2.0	26.20	26.20	26.20	8.36	8.36	8.36	33.05	33.05	33.05	84.9	84.5	84.6	5.70	5.71	5.69	9.99	8.53	<u>9.17</u>	12	12.00
	11.02		INIGUIE	2.0	20.20	20.20		0.30	0.30		55.05	55.05		04.9	04.0		5.70	5.71		9.10	0.00		12	

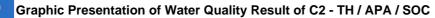


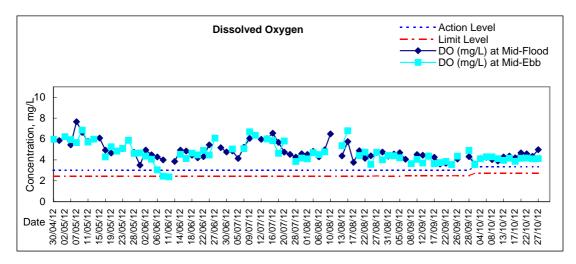


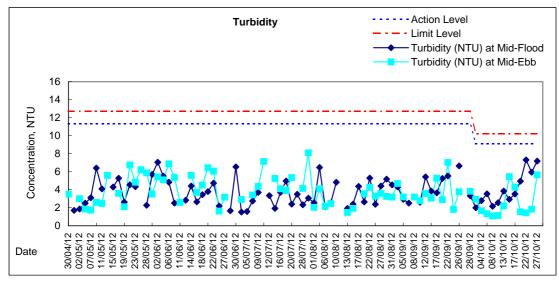


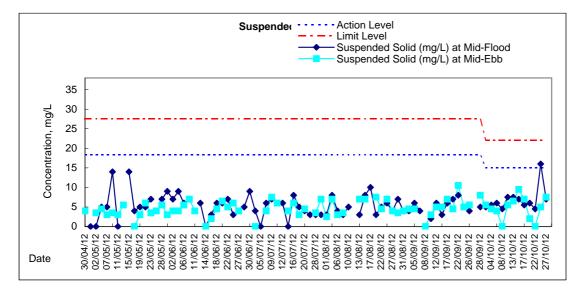


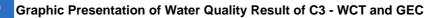


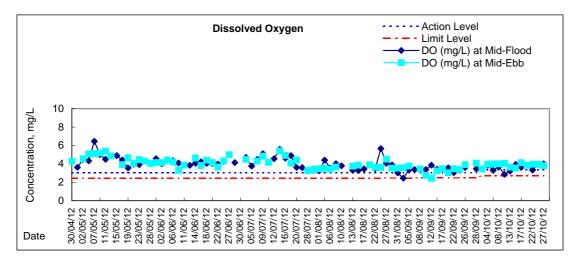


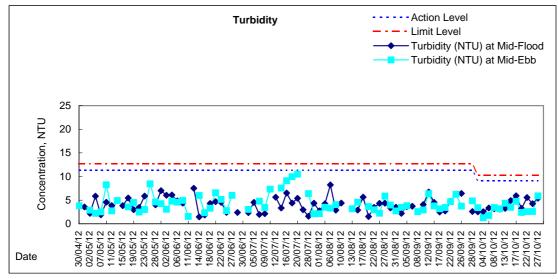


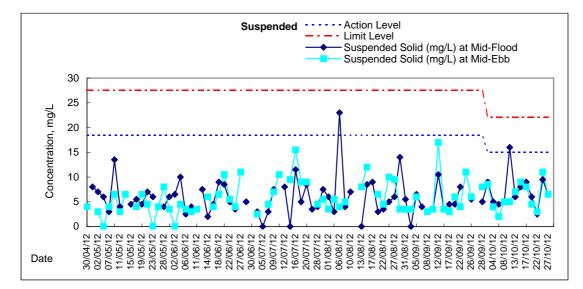


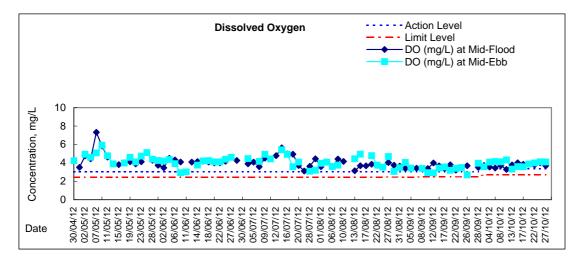


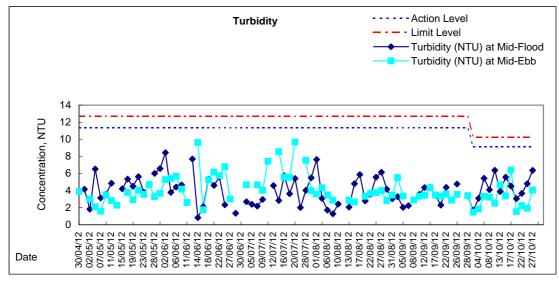


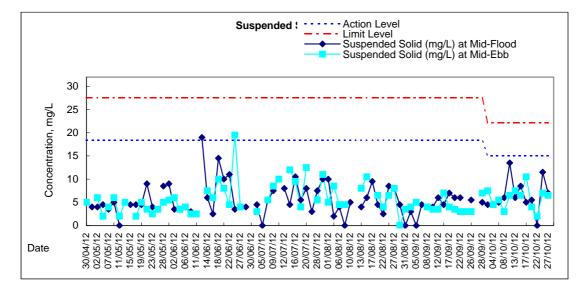


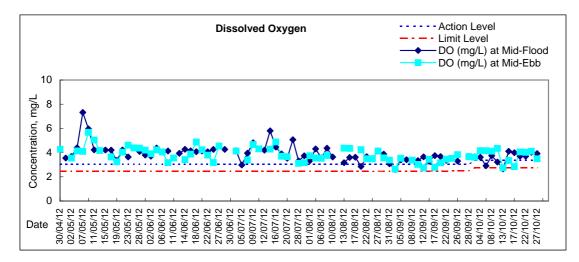


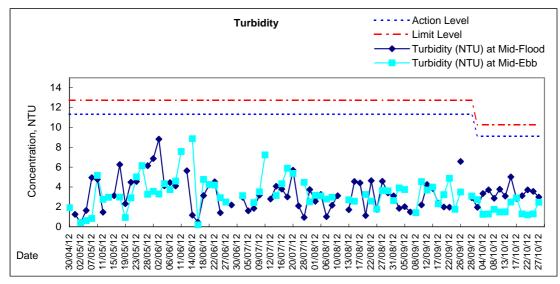


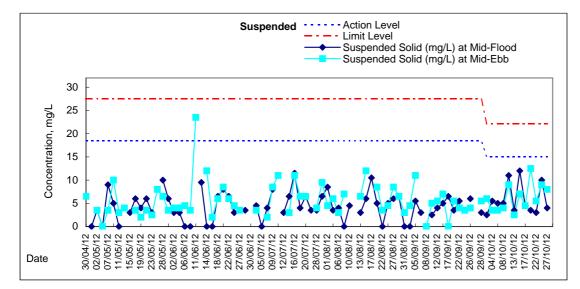




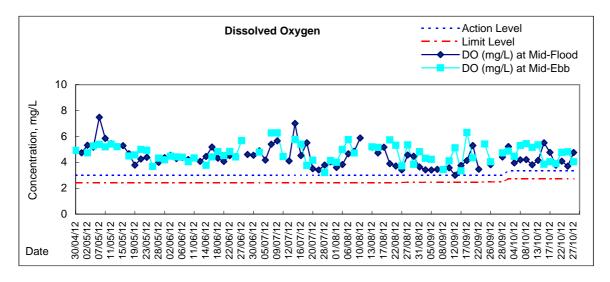


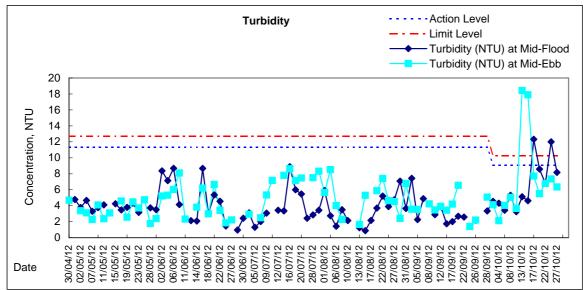


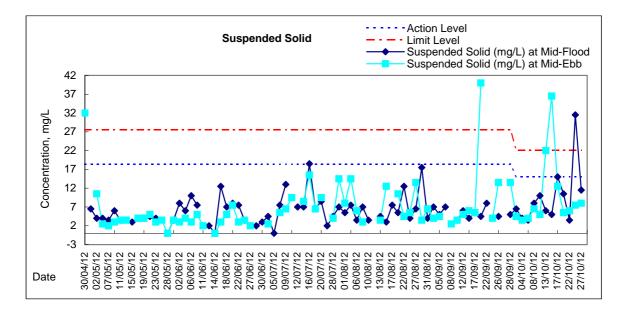




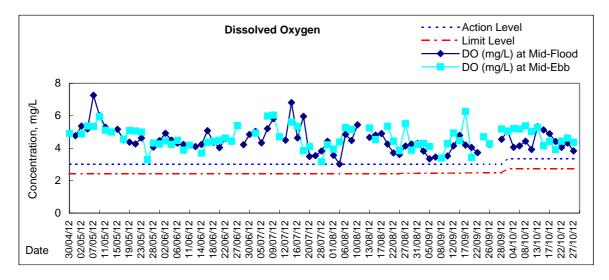
Graphic Presentation of Water Quality Result of C5e - SHKC (Eastern)

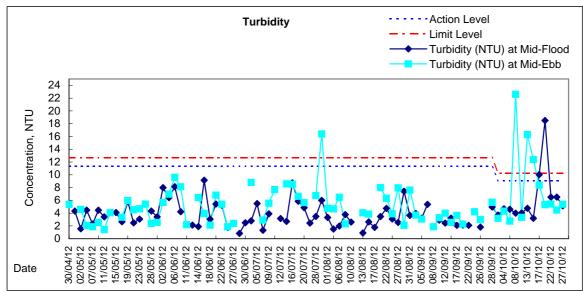


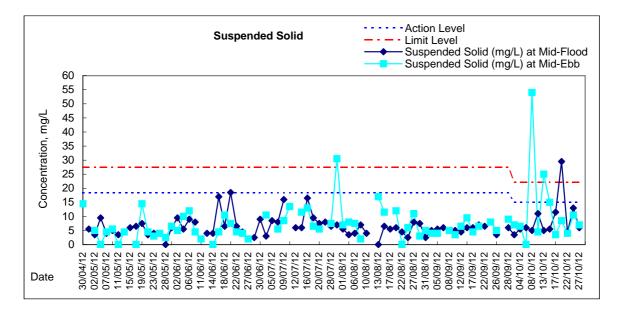




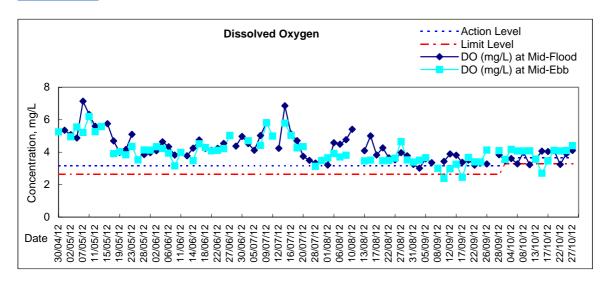
Graphic Presentation of Water Quality Result of C5w - SHKC (Western)

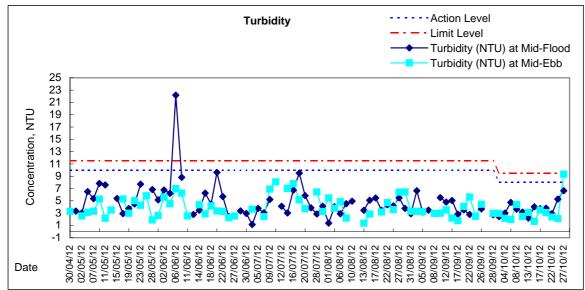


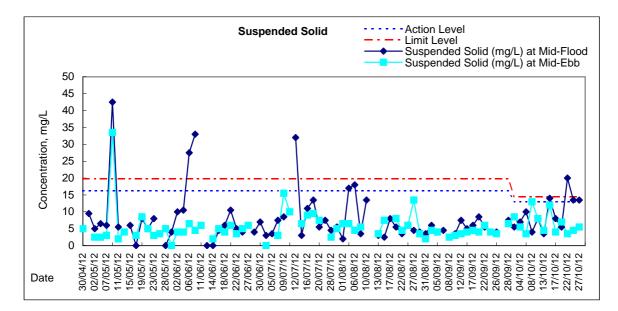




Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

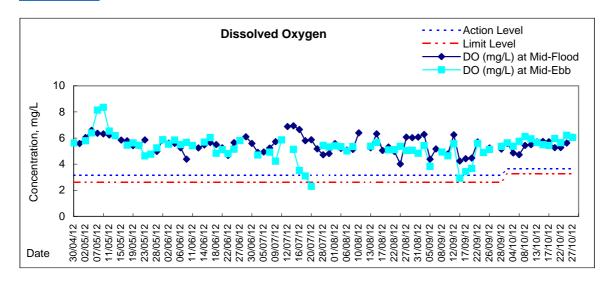


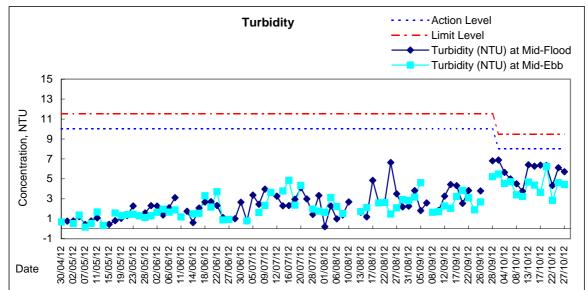


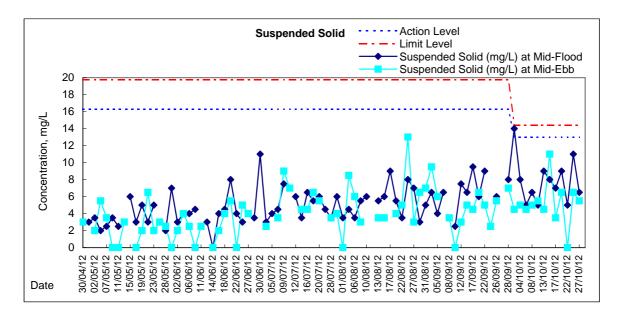


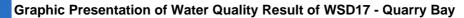
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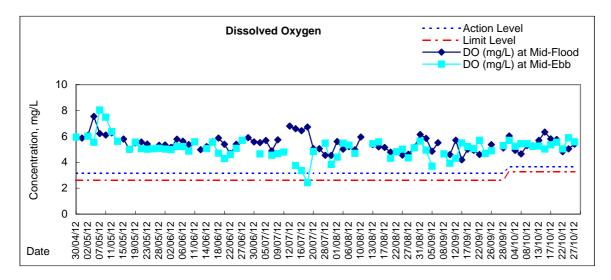
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

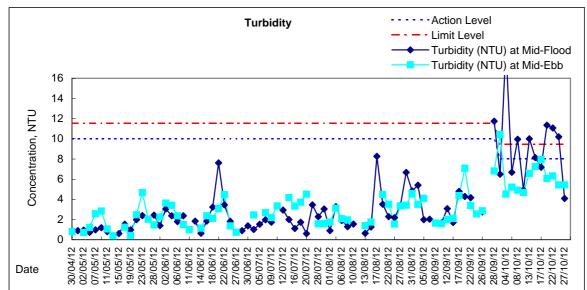


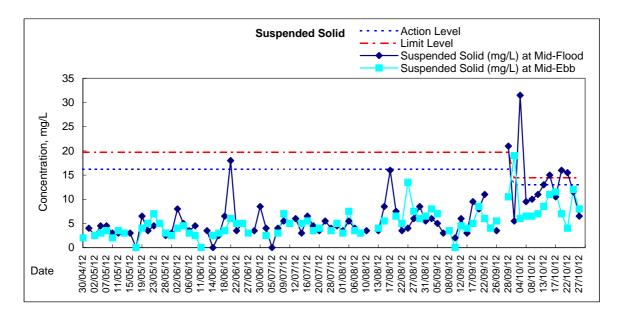


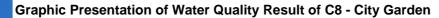


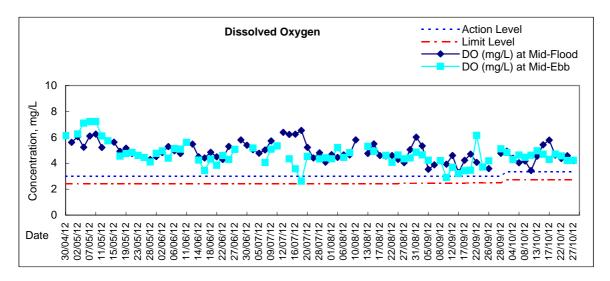


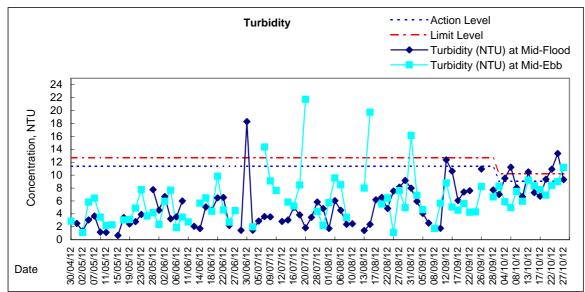


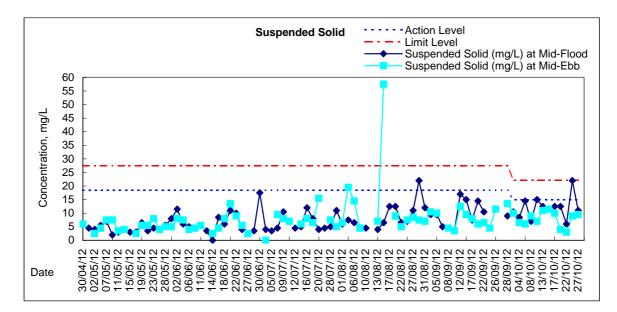




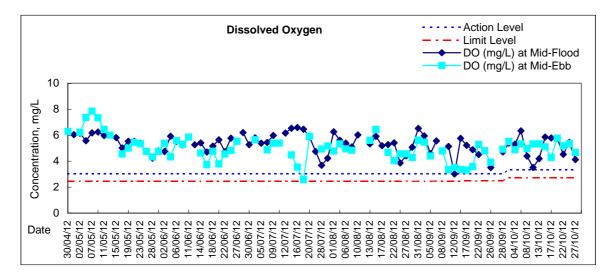


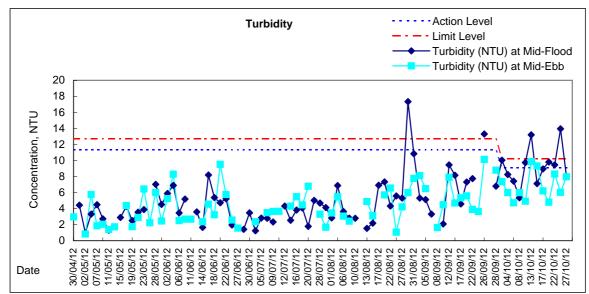


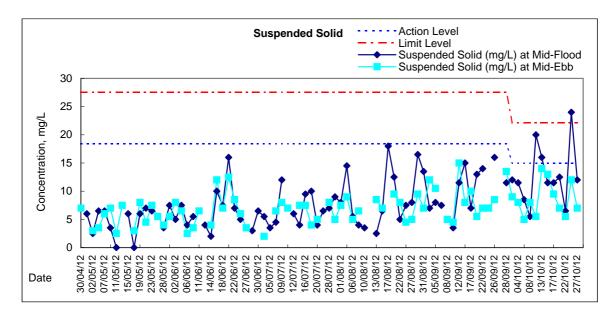


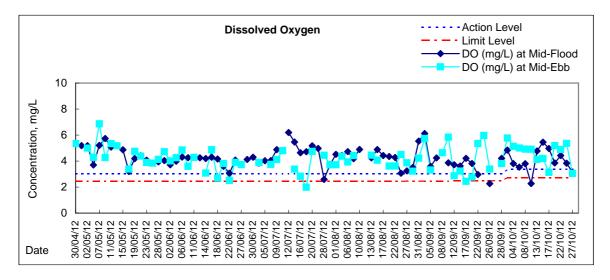


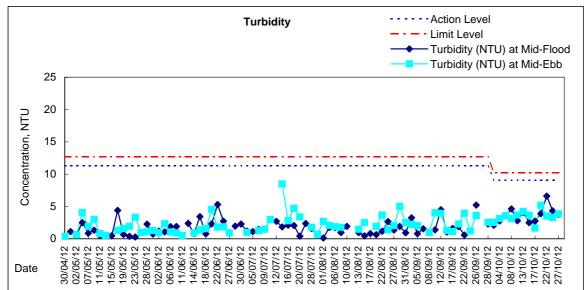
Graphic Presentation of Water Quality Result of C9 - Provident Centre

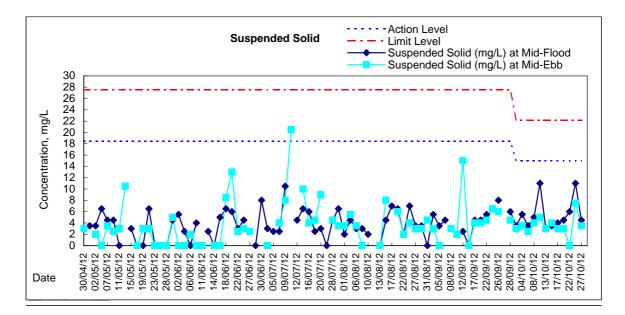












Water Monitoring Result at C6 - Excelsior Hotel Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature	-	pH -		-	Salinit ppt	iy.	D	O Satur %	ation		DO mg/L	
			r	ri	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
28/0/2012	-	Fino	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	- 18:52	Fine	Middle Bottom	1.5 -	28.10 -	28.10	28.1	8.46	8.46 -	8.5	31.65 -	31.65	31.7	70.0	69.8 -	69.9 -	4.59	4.58	4.59
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	8:40	Fine	Middle	1.5	26.80	26.80	26.8	8.35	8.35	8.4	31.40	31.40	31.4	85.5	85.8	85.7	5.73	5.76	5.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	11:10	Fine	Middle	1.5	27.50	27.50	27.5	8.33	8.33	8.3	32.21	32.21	32.2	51.9	53.2	52.6	3.42	3.51	3.47
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	11:48	Fine	Middle	1.5	27.90	27.90	27.9	8.29	8.29	8.3	32.10	32.10	32.1	77.6	76.3	77.0	5.08	4.99	5.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0/40/2040	-	Claude	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2012	16:12 -	Cloudy	Middle Bottom	1.5	27.80 -	27.80	27.8	8.35 -	8.35 -	8.4	32.40 -	32.40	32.4	54.6 -	54.7 -	54.7 -	3.58	3.59 -	3.59
	-		Surface	-	-	-	-			-	-	-	-	-	-	-	-	-	-
10/10/2012	14:08	Sunny	Middle	1.5	27.80	27.80	27.8	7.42	7.42	7.4	31.38	31.38	31.4	35.8	35.9	35.9	2.35	2.35	2.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	15:00	Fine	Middle	1.5	27.40	27.40	27.4	8.42	8.42	8.4	32.09	32.09	32.1	60.1	60.4	60.3	3.97	4.00	3.99
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	18:00	Fine	Middle	1.5	27.10	27.10	27.1	8.37	8.37	8.4	32.39	32.39	32.4	89.1	89.6	89.4	5.90	5.94	5.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2012	18:52	Cloudy	Middle	1.5	27.00	27.00	27.0	8.46	8.45	8.5	31.22	31.22	31.2	88.7	88.9	88.8	5.90	5.90	5.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	- 9:54	Fine	Surface Middle	- 1.5	- 26.60	- 26.60	- 26.6	- 8.40	- 8.40	8.4	- 32.48	- 32.48	- 32.5	- 57.5	- 58.0	- 57.8	- 3.84	- 3.87	3.86
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	12:05	Fine	Middle	1.5	26.90	26.90	26.9	8.29	8.29	8.3	32.30	32.30	32.3	50.2	50.8	50.5	3.35	3.39	3.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	13:07	Fine	Middle	1.5	26.70	26.70	26.7	8.22	8.22	8.2	32.57	32.57	32.6	53.6	53.8	53.7	3.59	3.60	3.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	15:20	Cloudy	Middle	1.5	26.60	26.60	26.6	7.48	7.48	7.5	31.32	31.32	31.3	62.1	60.9	61.5	4.19	4.11	4.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Date	Time	Weater Condition	Samplir r	ng Depth		°C	erature		pH -			Salinit ppt	ty		O Satur %	ation		DO mg/L	-
			- '		Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
28/9/2012	- 18:58	Fine	Surface Middle	- 1.5	- 27.70	- 27.70	- 27.7	- 8.25	- 8.25	- 8.3	- 31.51	- 31.51	- 31.5	- 61.9	- 64.0	- 63.0	- 4.08	- 4.22	- 4.15
20/0/2012	-	T IIIC	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	8:30	Fine	Middle	1.5	26.80	26.80	26.8	8.29	8.29	8.3	29.22	29.22	29.2	72.9	73.0	73.0	4.89	4.90	4.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	11:21	Fine	Middle	1.5	27.80	27.80	27.8	8.27	8.27	8.3	32.18	32.18	32.2	57.4	57.7	57.6	3.77	3.79	<u>3.78</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	11:58	Fine	Middle	1.5	28.20	28.20	28.2	8.23	8.23	8.2	31.60	31.60	31.6	52.9	52.8	52.9	3.47	3.65	<u>3.56</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2012	16:26	Cloudy	Middle	1.5	27.70	27.70	27.7	8.27	8.27	8.3	32.07	32.07	32.1	55.9	55.1	55.5	3.67	3.63	<u>3.65</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	13:49	Sunny	Middle	1.5	27.90	27.90	27.9	7.36	7.36	7.4	31.37	31.37	31.4	35.6	34.8	35.2	2.34	2.29	<u>2.32</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/00/0	-	_	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	15:22	Fine	Middle	1.5	27.10	27.10	27.1	8.35	8.35	8.4	32.19	32.19	32.2	71.3	72.1	71.7	4.74	4.79	4.77
	-		Bottom Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	- 17:50	Fine	Middle	1.5	27.00	27.00	27.0	8.32	8.32	8.3	32.34	32.34	32.3	81.6	82.2	81.9	5.48	5.47	5.48
10,10,2012	-	1 110	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	- 0.40	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2012	18:40	Cloudy	Middle	1.5	26.70	26.70	26.7	8.30	8.30	8.3	32.02	32.02	32.0	73.9	74.3	74.1	4.96	4.98	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	L	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	10:00	Fine	Middle	1.5	27.10	27.10	27.1	8.35	8.35	8.4	32.36	32.36	32.4	58.6	58.2	58.4	3.89	3.87	3.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	12:20	Fine	Middle	1.5	26.80	26.80	26.8	8.25	8.25	8.3	32.13	32.13	32.1	64.0	63.6	63.8	4.27	4.25	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	13:30	Fine	Middle	1.5	27.00	27.00	27.0	8.35	8.35	8.4	32.68	32.68	32.7	71.8	71.0	71.4	4.75	4.70	4.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	15:10	Cloudy	Middle	1.5	26.70	26.70	26.7	7.43	7.43	7.4	32.08	32.08	32.1	45.2	46.7	46.0	3.03	3.13	<u>3.08</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

		ood lide																	
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO	
		Condition	r	n	Va	°C lue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L Ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	18:38	Fine	Middle	1.5	27.60	27.60	27.6	8.32	8.32	8.3	28.90	28.90	28.9	54.9	53.8	54.4	3.68	3.62	3.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	8:00	Fine	Middle	1.5	26.50	26.50	26.5	8.26	8.26	8.3	23.22	23.22	23.2	50.5	50.7	50.6	3.57	3.58	<u>3.58</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	ŀ	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	10:52	Fine	Middle	1.5	27.40	27.40	27.4	8.28	8.28	8.3	29.78	29.78	29.8	52.0	52.5	52.3	3.48	3.32	<u>3.40</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	11:40	Fine	Middle	1.5	27.60	27.60	27.6	8.23	8.23	8.2	30.30	30.30	30.3	50.8	50.4	50.6	3.37	3.35	<u>3.36</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:55		Surface	1.0	27.60	27.60	27.6	8.30	8.30	8.3	30.73	30.73	30.7	53.4	53.3	53.4	3.55	3.54	<u>3.55</u>
8/10/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:57		Bottom	3.0	27.50	27.50	27.5	8.30	8.30	8.3	31.94	31.94	31.9	59.7	60.1	59.9	3.94	3.97	<u>3.96</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	14:03	Sunny	Middle	1.5	27.70	27.70	27.7	7.42	7.42	7.4	27.71	27.71	27.7	34.4	34.6	34.5	2.32	2.34	<u>2.33</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	14:52	Fine	Middle	1.5	27.30	27.30	27.3	8.41	8.41	8.4	31.35	31.35	31.4	60.3	60.9	60.6	4.01	4.06	4.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	20:47	Fine	Middle	1.5	26.60	26.60	26.6	8.35	8.35	8.4	31.57	31.57	31.6	73.4	74.0	73.7	4.94	5.00	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17/10/2012	16:42	Cloudy	Middle	1.5	26.90	26.90	26.9	8.29	8.29	8.3	30.34	30.34	30.3	60.9	61.6	61.3	4.10	4.14	4.12
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	9:40	Fine	Middle	1.5	26.50	26.50	26.5	8.34	8.34	8.3	32.44	32.44	32.4	56.6	55.2	55.9	3.80	3.72	<u>3.76</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	11:52	Fine	Middle	1.5	26.60	26.60	26.6	8.23	8.23	8.2	31.61	31.61	31.6	41.9	41.4	41.7	2.81	2.78	<u>2.80</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	13:06	Fine	Middle	1.5	26.70	26.70	26.7	8.26	8.26	8.3	27.48	27.48	27.5	52.6	53.0	52.8	3.55	3.57	<u>3.56</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	15:30	Cloudy	Middle	1.5	26.30	26.30	26.3	7.51	7.51	7.5	31.89	31.89	31.9	61.6	60.9	61.3	4.17	4.10	4.14
	-	1	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<u> </u>	•	•					•			•			•			•			

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

		ood lide																	
Date	Time	Weater	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit	у	D	O Satur	ation		DO	
Date		Condition	r	n	Va	°C lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	% lue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	18:30	Fine	Middle	1.5	27.40	27.40	27.4	8.31	8.31	8.3	29.16	29.16	29.2	74.2	73.7	74.0	4.99	4.96	4.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	8:06	Fine	Middle	1.5	26.70	26.70	26.7	8.20	8.20	8.2	26.83	26.83	26.8	51.8	53.7	52.8	3.57	3.71	<u>3.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	10:50	Fine	Middle	1.5	27.50	27.50	27.5	8.45	8.45	8.5	30.28	30.28	30.3	50.0	51.7	50.9	3.38	3.45	<u>3.42</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	11:36	Fine	Middle	1.5	27.80	27.80	27.8	8.28	8.28	8.3	29.70	29.70	29.7	53.7	53.0	53.4	3.55	3.50	<u>3.53</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:48		Surface	1.0	27.80	27.80	27.8	8.34	8.34	8.3	31.37	31.37	31.4	57.7	58.7	58.2	3.81	3.90	<u>3.86</u>
8/10/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:50	-	Bottom	3.0	27.70	27.70	27.7	8.32	8.32	8.3	31.81	31.81	31.8	59.3	59.9	59.6	3.91	3.95	<u>3.93</u>
	-		Surface	-	_	_	-	-	_	-	-	-	-	-	-	-	_	-	-
10/10/2012	13:58	Sunny	Middle	1.5	27.70	27.70	27.7	7.43	7.43	7.4	29.56	29.56	29.6	39.8	40.5	40.2	2.66	2.70	2.68
	_		Bottom	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-
			Surface	-	_	_		-	-	-	_	-	-	-	-		_	-	-
13/10/2012	14:50	Fine	Middle	1.5	27.40	27.40	27.4	8.67	8.67	8.7	32.32	32.32	32.3	64.6	64.8	64.7	4.28	4.29	4.29
10/10/2012	-	1 110	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Surface	-	_	_	-	-	_	-	-	-	-	-	-	-	_	-	-
15/10/2012	20:55	Fine	Middle	1.5	26.40	26.40	26.4	8.34	8.34	8.3	31.16	31.16	31.2	71.8	72.8	72.3	5.16	5.17	5.17
13/10/2012	-	T IIIG	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
17/10/2012		Cloudy		4.5	-	-	-						-	-		-			
17/10/2012	16:37	Cloudy	Middle	1.5	27.00	27.00	27.0	8.35	8.35	8.4	31.75	31.75	31.8	69.1	69.5	69.3	4.61	4.63	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/40/2010		Fine	Surface																
20/10/2012	9:34	Fine	Middle	1.5	26.60	26.60	26.6	8.54	8.54	8.5	32.98	32.98	33.0	57.7	55.1	56.4	3.85	3.68	<u>3.77</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
00/46/2010	-	_ ;	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	11:50	Fine	Middle	1.5	26.70	26.70	26.7	8.30	8.30	8.3	31.24	31.24	31.2	33.9	34.1	34.0	2.58	2.30	<u>2.44</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	13:00	Fine	Middle	1.5	26.90	26.90	26.9	8.34	8.34	8.3	25.68	25.68	25.7	29.3	29.7	29.5	2.02	2.05	<u>2.04</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	15:25	Cloudy	Middle	1.5	26.30	26.30	26.3	7.49	7.49	7.5	31.13	31.13	31.1	55.8	54.7	55.3	3.78	3.66	<u>3.72</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

		DD IIde			-														
Date	Time	Weater Condition	Samplin	g Depth	Wate	er Temp °C	erature		pН			Salini	ty	D	O Satur %	ration		DO mg/l	
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt alue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	12:43	Fine	Middle	2	28.70	28.70	28.7	7.96	7.96	8.0	31.28	31.28	31.3	62.3	62.1	62.2	4.05	4.03	4.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	13:55	Fine	Middle	1	28.30	28.30	28.3	8.42	8.42	8.4	31.96	31.96	32.0	88.1	88.4	88.3	5.76	5.78	5.77
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	•	-	•	•	-	-	-	-	-	-	-		-	-
4/10/2012	2:50	Fine	Middle	2	26.70	26.70	26.7	8.32	8.32	8.3	31.08	31.08	31.1	73.3	73.9	73.6	4.92	4.96	4.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	2:55	Fine	Middle	1	27.00	27.00	27.0	8.27	8.27	8.3	27.28	27.28	27.3	62.7	63.5	63.1	4.19	4.25	4.22
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2012	6:18	Cloudy	Middle	1	26.20	26.20	26.2	8.28	8.28	8.3	30.16	30.16	30.2	72.6	73.4	73.0	4.95	5.00	4.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	6:30	Cloudy	Middle	2	26.40	26.40	26.4	8.30	8.30	8.3	30.37	30.37	30.4	67.8	70.8	69.3	4.60	4.80	4.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	11:37	Fine	Middle	2	27.30	27.30	27.3	8.42	8.42	8.4	32.60	32.60	32.6	60.7	62.1	61.4	4.07	4.14	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	12:40	Fine	Middle	2	27.60	27.60	27.6	8.32	8.32	8.3	32.16	32.16	32.2	60.8	61.3	61.1	4.01	4.09	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-
	-		Surface	-	-	•	-	•	•	-	-	-	-	•	-	-	ŀ	-	-
17/10/2012	11:42	Cloudy	Middle	2	27.50	27.50	27.5	7.47	7.47	7.5	31.59	31.59	31.6	53.9	54.2	54.1	3.57	3.59	3.58
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	2:10	Cloudy	Middle	2	26.10	26.10	26.1	8.49	8.49	8.5	30.70	30.70	30.7	82.8	83.0	82.9	5.60	5.61	5.61
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	6:50	Fine	Middle	1	25.60	25.60	25.6	8.19	8.19	8.2	31.05	31.05	31.1	65.7	65.8	65.8	4.53	4.52	4.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	22:48	Smoky	Middle	1	26.20	26.20	26.2	8.34	8.34	8.3	32.06	32.06	32.1	78.2	77.5	77.9	5.28	5.24	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	11:05	Cloudy	Middle	2	26.10	26.10	26.1	7.47	7.47	7.5	32.09	32.09	32.1	64.3	61.6	63.0	4.31	4.13	4.22
	-		Bottom	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-

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

	Mid-Eb		I																
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		pH -			Salinit ppt	ty	D	O Satur %	ation		DO ma/l	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	12:56	Fine	Middle	2	28.50	28.50	28.5	8.05	8.05	8.1	32.76	32.76	32.8	78.5	79.3	78.9	5.07	5.06	5.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	13:45	Fine	Middle	1	28.30	28.30	28.3	8.35	8.35	8.4	32.06	32.06	32.1	88.3	88.4	88.4	5.78	5.78	5.78
	-		Bottom	-	-	•	-	•	•	-	•	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	2:40	Fine	Middle	2	26.50	26.50	26.5	8.28	8.28	8.3	31.11	31.11	31.1	75.8	75.5	75.7	5.11	5.10	5.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	2:45	Fine	Middle	1	26.70	26.70	26.7	8.23	8.23	8.2	30.46	30.46	30.5	73.7	74.3	74.0	4.98	5.02	5.00
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2012	6:10	Cloudy	Middle	1	26.30	26.30	26.3	8.25	8.25	8.3	28.27	28.27	28.3	72.1	73.0	72.6	4.89	4.96	4.93
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	6:20	Cloudy	Middle	2	25.70	25.70	25.7	8.25	8.25	8.3	28.52	28.52	28.5	70.6	71.2	70.9	4.90	4.94	4.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	11:48	Fine	Middle	2	27.00	27.00	27.0	8.36	8.36	8.4	31.96	31.96	32.0	60.9	62.3	61.6	4.05	4.15	4.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	12:50	Fine	Middle	2	27.40	27.40	27.4	8.51	8.51	8.5	32.72	32.72	32.7	80.0	79.5	79.8	5.27	5.24	5.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-
17/10/2012	11:34	Cloudy	Middle	2	27.70	27.70	27.7	7.40	7.40	7.4	31.90	31.90	31.9	48.4	47.3	47.9	3.18	3.11	<u>3.15</u>
	-		Bottom	-	-	-	-	-	-	-	-	_	_	-	_	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	2:03	Cloudy	Middle	2	25.70	25.70	25.7	8.33	8.33	8.3	31.51	31.51	31.5	71.7	72.8	72.3	5.18	5.12	5.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	6:40	Fine	Middle	1	25.30	25.30	25.3	8.19	8.19	8.2	31.22	31.22	31.2	71.4	71.6	71.5	4.94	4.95	4.95
22,10/2012	-	1.110	Bottom	-		-	-	-	-	-	-		-	-	-	-	7.34		55
	-		Surface	-			-			-	-	-	-		-	-	-	-	-
25/10/2012		Smoky		1			- 25.9									79.0			5.36
23/10/2012	22:40	опоку	Middle		25.90	25.90		8.23	8.23	8.2	31.91	31.91	31.9	79.1	78.9		5.36	5.36	
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07/10/00/00	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	11:10	Cloudy	Middle	2	26.10	26.10	26.1	7.41	7.41	7.4	32.18	32.18	32.2	45.2	45.0	45.1	3.05	3.04	<u>3.05</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

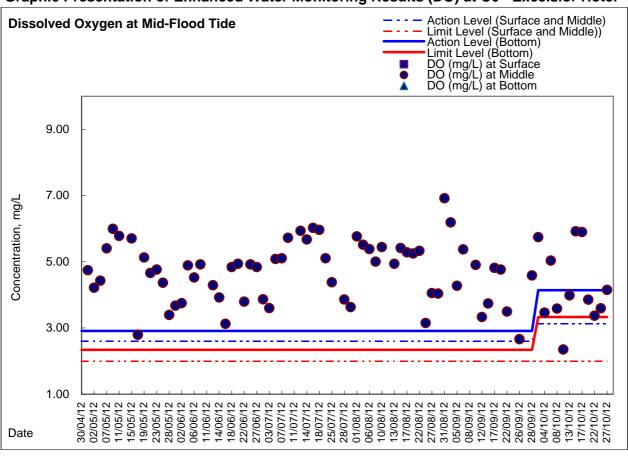
Water Monitoring Result at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area Mid-Ebb Tide

			1								1								
Date	Time	Weater	Samplin	ng Depth	Wat	er Temp °C	erature		pH			Salinit	ty	D	O Satur %	ation		DO mg/l	
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt alue	Average	Va	% lue	Average	Va	mg/L ilue	Average
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	12:13	Fine	Middle	1.5	28.00	28.00	28.0	7.94	7.94	7.9	30.34	30.34	30.3	50.2	50.6	50.4	3.33	3.36	<u>3.35</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	13:02	Fine	Middle	1.0	27.70	27.70	27.7	8.23	8.23	8.2	22.96	22.96	23.0	44.8	45.8	45.3	3.11	3.20	<u>3.16</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	2:12	Fine	Middle	1.0	26.90	26.90	26.9	8.38	8.38	8.4	23.66	23.66	23.7	45.9	47.0	46.5	3.22	3.28	<u>3.25</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	2:08	Fine	Middle	1.0	26.80	26.80	26.8	8.21	8.21	8.2	25.69	25.69	25.7	56.3	56.7	56.5	3.90	3.93	3.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8/10/2012	5:33	Cloudy	Middle	1.0	26.60	26.60	26.6	8.34	8.34	8.3	25.37	25.36	25.4	47.6	48.4	48.0	3.32	3.38	<u>3.35</u>
	-	-	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	6:08	Cloudy	Middle	1.5	26.30	26.30	26.3	8.21	8.21	8.2	27.34	27.34	27.3	60.7	61.1	60.9	4.20	4.45	4.33
10/10/2012	-	Cloudy	Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-			
	-		Surface	-	-	_	-	_	-	-	_	-	-	_	-	-		-	-
42/40/2042		Fine									-			-			-		
13/10/2012	11:00	Fine	Middle	1.5	27.10	27.10	27.1	8.39	8.39	8.4	31.92	31.92	31.9	60.3	61.1	60.7	4.02	4.08	4.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	12:27	Fine	Middle	1.5	27.40	27.40	27.4	8.32	8.32	8.3	30.82	30.82	30.8	56.3	57.2	56.8	3.76	3.82	<u>3.79</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:49		Surface	1.0	27.60	27.60	27.6	7.46	7.46	7.5	30.97	30.97	31.0	50.6	51.3	51.0	3.35	3.29	<u>3.32</u>
17/10/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:51		Bottom	3.0	2.76	2.76	2.8	7.46	7.46	7.5	31.85	31.85	31.9	57.9	57.9	57.9	3.82	3.81	<u>3.82</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	1:45	Cloudy	Middle	1.0	25.90	25.90	25.9	8.21	8.20	8.2	27.34	27.34	27.3	50.5	51.7	51.1	3.52	3.60	<u>3.56</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	6:25	Fine	Middle	1.0	25.80	25.80	25.8	8.30	8.30	8.3	28.68	28.68	28.7	59.0	59.9	59.5	4.09	4.12	4.11
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	22:22	Smoky	Middle	1.0	25.70	25.70	25.7	8.46	8.46	8.5	25.88	25.88	25.9	45.7	46.4	46.1	3.22	3.27	<u>3.25</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	10:52	Cloudy	Middle	1.5	26.20	26.20	26.2	7.35	7.35	7.4	24.40	24.40	24.4	41.4	40.5	41.0	2.91	2.86	<u>2.89</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1		1	1			1			1	I	I	1			1			

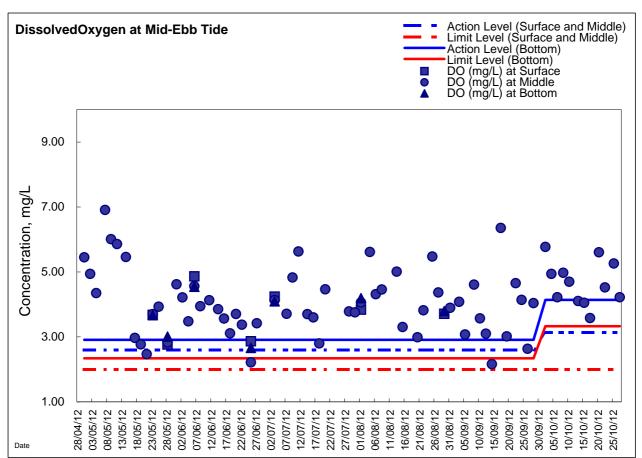
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp °C	perature		pH -			Salinit 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28/9/2012	12:07	Fine	Middle	1.5	28.40	28.40	28.4	7.93	7.93	7.9	31.69	31.69	31.7	45.6	45.6	45.6	2.97	2.97	<u>2.97</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/10/2012	13:10	Fine	Middle	1.0	28.00	28.00	28.0	8.23	8.23	8.2	25.32	25.32	25.3	60.9	60.8	60.9	4.15	4.15	<u>4.15</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/10/2012	2:17	Fine	Middle	1.0	26.90	26.90	26.9	8.26	8.26	8.3	23.31	23.31	23.3	47.8	48.1	48.0	3.35	3.38	<u>3.37</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/10/2012	2:14	Fine	Middle	1.0	26.80	26.80	26.8	8.18	8.18	8.2	25.60	25.60	25.6	61.7	61.6	61.7	4.29	4.31	4.30
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/10/2012	5:40	Cloudy	Middle	1.0	26.50	26.50	26.5	8.11	8.11	8.1	26.00	26.00	26.0	48.2	48.2	48.2	3.56	3.36	<u>3.46</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/10/2012	6:14	Cloudy	Middle	1.5	26.30	26.30	26.3	8.20	8.20	8.2	27.47	27.47	27.5	61.1	61.7	61.4	4.30	4.44	4.37
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13/10/2012	11:08	Fine	Middle	1.5	27.20	27.20	27.2	8.47	8.47	8.5	32.61	32.61	32.6	62.1	64.8	63.5	4.23	4.29	4.26
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15/10/2012	12:25	Fine	Middle	1.5	27.40	27.40	27.4	8.37	8.37	8.4	30.69	30.69	30.7	53.5	54.7	54.1	3.58	3.69	<u>3.64</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:55		Surface	1.0	27.50	27.50	27.5	7.45	7.45	7.5	30.26	30.26	30.3	49.1	48.7	48.9	3.28	3.24	<u>3.26</u>
17/10/2012	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:57		Bottom	3.0	27.50	27.50	27.5	7.45	7.45	7.5	28.95	28.95	29.0	48.7	49.4	49.1	3.28	3.32	<u>3.30</u>
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20/10/2012	1:54	Cloudy	Middle	1.0	25.80	25.80	25.8	8.14	8.14	8.1	27.23	27.23	27.2	45.2	46.1	45.7	3.16	3.22	<u>3.19</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22/10/2012	6:33	Fine	Middle	1.0	25.60	25.60	25.6	8.13	8.13	8.1	28.55	28.55	28.6	57.1	58.3	57.7	3.96	4.04	<u>4.00</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/10/2012	22:28	Smoky	Middle	1.0	25.60	25.60	25.6	8.15	8.15	8.2	25.68	25.68	25.7	44.8	45.4	45.1	3.16	3.20	<u>3.18</u>
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27/10/2012	10:50	Cloudy	Middle	1.5	26.20	26.20	26.2	7.50	7.50	7.5	31.47	31.47	31.5	64.0	62.9	63.5	4.33	4.20	4.27
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	i	i					•									•			•



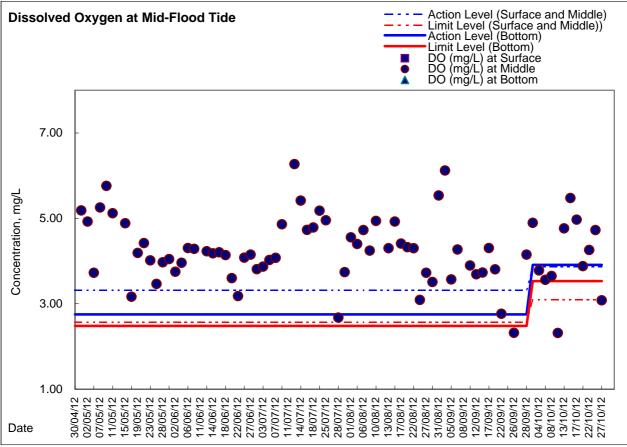


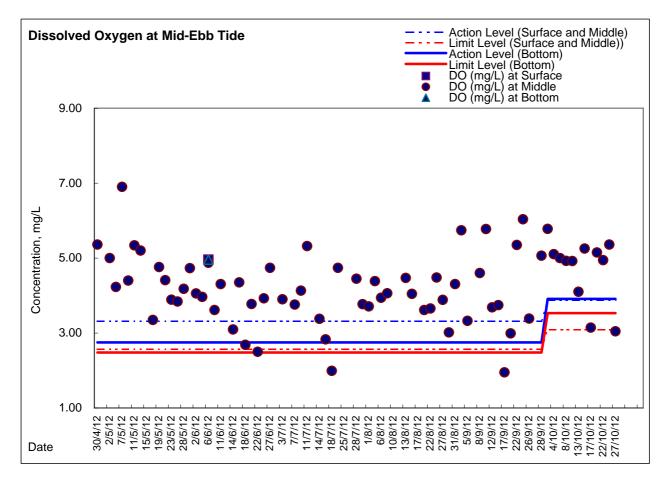






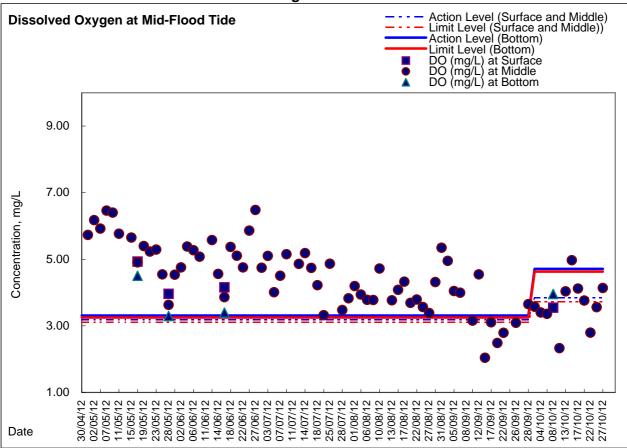
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House

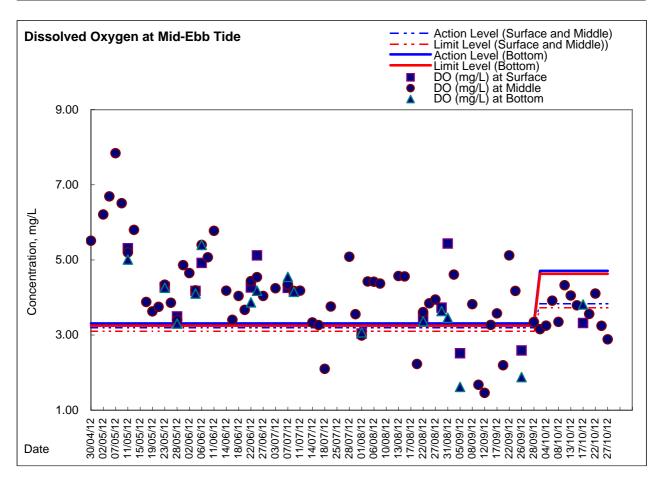






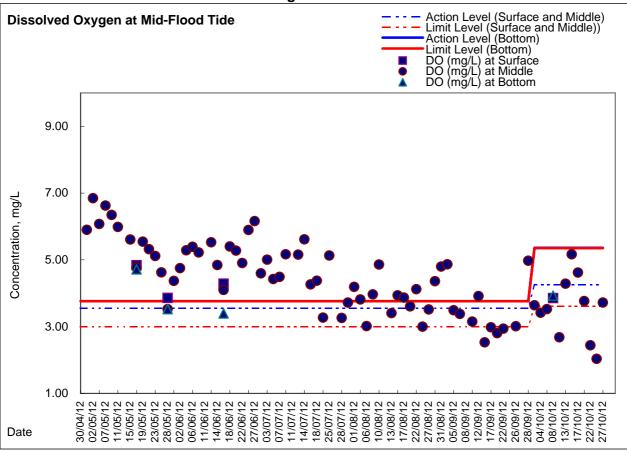
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

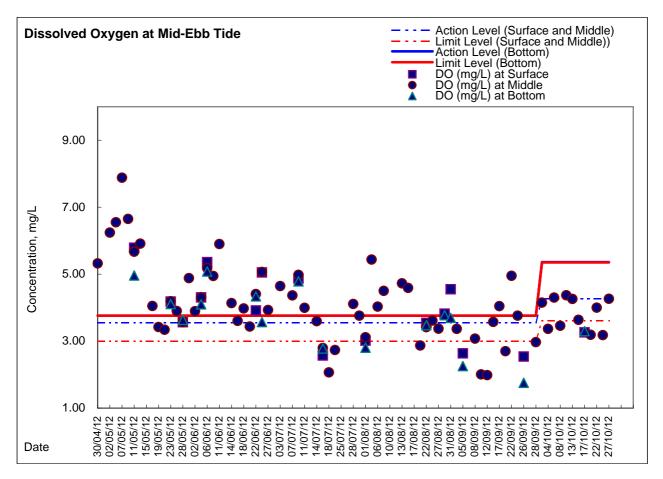






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







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	
Dale		Condition	n	า		°C	A		-	A		ppt	A		%	A		mg/L	
					Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	8:40		Surface	1.0	27.70	27.70	27.70	7.47	7.47	7.47	31.29	31.29	31.29	53.6	53.9	53.75	3.53	3.55	3.54
4-Oct-12	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8:41		Bottom	3.0	27.70	27.70	27.70	7.49	7.49	7.49	32.05	32.05	32.05	54.1	54.4	54.25	3.56	3.58	3.57
	14:24		Surface	1.0	27.70	27.70	27.70	7.51	7.51	7.51	31.56	31.56	31.56	59.2	58.5	58.85	3.90	3.85	3.88
10-Oct-12	-	Sunny	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:26		Bottom	4.0	27.80	27.80	27.80	7.48	7.48	7.48	31.75	31.75	31.75	60.2	59.5	59.85	3.95	3.92	3.94
	19:51		Surface	1.0	27.70	27.70	27.70	7.50	7.50	7.50	31.94	32.06	32.00	53.5	53.8	53.65	3.53	3.54	3.54
17-Oct-12	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:53		Bottom	5.0	27.70	27.70	27.70	7.49	7.49	7.49	32.16	32.16	32.16	57.2	57.4	57.30	3.76	3.78	3.77
	15:45		Surface	1.0	26.30	26.30	26.30	7.43	7.43	7.43	27.50	27.50	27.50	48.8	48.4	48.60	3.37	3.34	3.36
27-Oct-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:47		Bottom	4.0	26.60	26.60	26.60	7.51	7.51	7.51	32.00	32.00	32.00	63.7	64.4	64.05	4.29	4.30	4.30

Location: Station B Coordinate: 835572E, 815961N

Date	Time	Weater	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salinit	y	D	O Satur	ation		DO	
Date		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt ilue	Average	Va	% lue	Average	Va	mg/L lue	Average
	8:35		Surface	1.0	27.70	27.70	27.70	7.50	7.50	7.50	31.97	31.97	31.97	54.7	55.2	54.95	3.60	3.63	3.62
4-Oct-12	8:36	Fine	Middle	5.0	27.70	27.70	27.70	7.49	7.49	7.49	32.08	32.08	32.08	54.4	54.0	54.20	3.60	3.55	3.58
	8:37		Bottom	9.0	27.70	27.70	27.70	7.50	7.50	7.50	32.10	32.10	32.10	55.7	55.4	55.55	3.66	3.63	3.65
	14:17		Surface	1.0	28.00	28.00	28.00	7.46	7.46	7.46	32.19	32.19	32.19	63.4	63.2	63.30	4.14	4.12	4.13
10-Oct-12	14:18	Sunny	Middle	5.0	28.00	28.00	28.00	7.46	7.46	7.46	32.19	32.19	32.19	62.4	63.0	62.70	4.08	4.10	4.09
	14:19		Bottom	9.0	27.70	27.70	27.70	7.45	7.45	7.45	32.17	32.17	32.17	60.0	59.5	59.75	3.95	3.91	3.93
	19:44		Surface	1.0	27.70	27.70	27.70	7.53	7.53	7.53	32.12	32.12	32.12	62.3	62.1	62.20	4.10	4.09	4.10
17-Oct-12	19:46	Fine	Middle	5.5	27.60	27.60	27.60	7.53	7.53	7.53	32.13	32.13	32.13	61.4	61.1	61.25	4.04	4.02	4.03
	19:48		Bottom	10.0	27.50	27.50	27.50	7.53	7.53	7.53	32.13	32.13	32.13	60.4	60.2	60.30	3.98	3.97	3.98
	15:42		Surface	1.0	26.40	26.40	26.40	7.56	7.56	7.56	32.56	32.56	32.56	73.1	69.1	71.10	4.90	4.64	4.77
27-Oct-12	15:43	Cloudy	Middle	5.5	26.40	26.40	26.40	7.55	7.55	7.55	32.64	32.64	32.64	61.3	60.4	60.85	4.12	4.04	4.08
	15:44		Bottom	10.0	26.50	26.50	26.50	7.55	7.55	7.55	32.65	32.65	32.65	64.8	64.7	64.75	4.34	4.32	4.33

Location: Station C Coordinate: 835659E, 816271N

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	perature		pН			Salinit	y	D	O Satur %	ation		DO	
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt Ilue	Average	Va	% lue	Average	Va	mg/L lue	Average
	8:30		Surface	1.0	27.70	27.70	27.70	7.52	7.52	7.52	32.08	32.08	32.08	57.2	56.9	57.05	3.78	3.74	3.76
4-Oct-12	8:32	Fine	Middle	7.0	27.70	27.70	27.70	7.50	7.50	7.50	32.10	32.10	32.10	55.8	55.1	55.45	3.69	3.63	3.66
	8:34		Bottom	13.0	27.70	27.70	27.70	7.50	7.50	7.50	32.08	32.08	32.08	55.5	56.3	55.90	3.65	3.71	3.68
	14:11		Surface	1.0	28.60	28.60	28.60	7.47	7.47	7.47	32.29	32.29	32.29	63.5	63.7	63.60	4.11	4.13	4.12
10-Oct-12	14:12	Sunny	Middle	7.0	27.90	27.90	27.90	7.47	7.47	7.47	32.24	32.24	32.24	60.5	60.9	60.70	3.96	3.99	3.98
	14:13		Bottom	13.0	27.70	27.70	27.70	7.46	7.46	7.46	32.25	32.25	32.25	61.0	60.9	60.95	4.01	4.00	4.01
	19:34		Surface	1.0	28.50	28.50	28.50	7.55	7.55	7.55	32.20	32.21	32.21	59.6	59.4	59.50	3.93	3.92	3.93
17-Oct-12	19:35	Fine	Middle	7.5	27.50	27.50	27.50	7.53	7.53	7.53	32.22	32.22	32.22	59.2	59.1	59.15	3.90	3.89	3.90
	19:37		Bottom	14.0	27.50	27.50	27.50	7.54	7.54	7.54	32.23	32.23	32.23	59.1	58.6	58.85	3.90	3.88	3.89
	15:35		Surface	1.0	26.30	26.30	26.30	7.56	7.56	7.56	32.47	32.47	32.47	70.4	70.1	70.25	4.77	4.75	4.76
27-Oct-12	15:37	Cloudy	Middle	6.5	26.40	26.40	26.40	7.55	7.55	7.55	32.50	32.50	32.50	65.0	63.5	64.25	4.73	4.26	4.50
	15:40		Bottom	12.0	26.30	26.30	26.30	7.55	7.55	7.55	32.53	32.53	32.53	61.8	60.1	60.95	4.15	4.03	4.09

Location: Station A Coordinate: 835468E, 815857N

Date	Time	Weater	Samplin	g Depth	Wat	er Temp ℃	perature		pН			Salini	ty	D	O Satur %	ration		DO	
		Condition	n	า	Va	lue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	lue	Average	Va	mg/L alue	Average
	0:42		Surface	1.0	27.90	27.90	27.90	7.49	7.49	7.49	32.23	32.23	32.23	53.6	53.4	53.50	3.51	3.49	3.50
4-Oct-12	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0:45		Bottom	5.0	27.80	27.80	27.80	7.52	7.52	7.52	32.34	32.34	32.34	56.4	56.1	56.25	3.70	3.68	3.69
	5:36		Surface	1.0	27.80	27.80	27.80	7.45	7.45	7.45	32.18	32.18	32.18	59.7	59.5	59.60	3.46	3.45	3.46
10-Oct-12	-	Fine	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5:37		Bottom	5.0	27.80	27.80	27.80	7.46	7.46	7.46	32.33	32.33	32.33	59.3	59.1	59.20	3.45	3.44	3.45
	12:18		Surface	1.0	27.60	27.60	27.60	7.46	7.46	7.46	29.87	29.87	29.87	52.1	51.5	51.80	3.48	3.44	3.46
17-Oct-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:20		Bottom	3.0	27.50	27.50	27.50	7.50	7.50	7.50	31.32	31.32	31.32	57.6	57.1	57.35	3.82	3.77	3.80
	10:50		Surface	1.0	26.50	26.50	26.50	7.43	7.43	7.43	30.52	30.52	30.52	53.8	52.4	53.10	3.65	3.55	3.60
27-Oct-12	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:52		Bottom	3.0	26.50	26.50	26.50	7.47	7.47	7.47	31.35	31.35	31.35	54.2	54.8	54.50	3.66	3.70	3.68

Location: Station B Coordinate: 835572E, 815961N

Date	Time	Weater	Samplin	g Depth	Wat		perature		pН			Salini	ty	D	O Satur	ation		DO	
Dale		Condition	n	n		°C			-			ppt			%			mg/L	
					Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average
	0:31		Surface	1.0	27.90	27.90	27.90	7.51	7.51	7.51	32.25	32.24	32.25	58.1	57.9	58.00	3.81	3.79	3.80
4-Oct-12	0:33	Fine	Middle	5.0	27.90	27.90	27.90	7.53	7.53	7.53	32.27	32.27	32.27	58.3	58.2	58.25	3.82	3.81	3.82
	0:37		Bottom	9.0	27.80	27.80	27.80	7.52	7.52	7.52	32.29	32.29	32.29	59.4	59.2	59.30	3.89	3.88	3.89
	5:30		Surface	1.0	27.80	27.80	27.80	7.45	7.45	7.45	32.24	32.24	32.24	61.4	60.9	61.15	4.16	4.12	4.14
10-Oct-12 5:32	5:32	Fine	Middle	5.0	27.60	27.60	27.60	7.48	7.48	7.48	32.32	32.32	32.32	62.8	62.5	62.65	4.26	4.24	4.25
	5:34		Bottom	9.0	27.60	27.60	27.60	7.49	7.49	7.49	32.33	32.33	32.33	62.4	62.1	62.25	4.23	4.21	4.22
	12:11		Surface	1.0	27.60	27.60	27.60	7.53	7.53	7.53	32.22	32.22	32.22	61.7	63.3	62.50	4.08	4.17	4.13
17-Oct-12	12:13	Cloudy	Middle	5.0	27.40	27.40	27.40	7.53	7.53	7.53	32.27	32.27	32.27	61.0	61.5	61.25	4.03	4.05	4.04
	12:15		Bottom	9.0	27.40	27.40	27.40	7.52	7.52	7.52	32.29	32.29	32.29	61.1	60.9	61.00	4.03	4.02	4.03
	10:40		Surface	1.0	26.20	26.20	26.20	7.57	7.57	7.57	32.94	32.94	32.94	65.0	66.1	65.55	4.37	4.45	4.41
27-Oct-12	10:42	Cloudy	Middle	5.0	26.40	26.40	26.40	7.57	7.57	7.57	32.67	32.67	32.67	65.1	65.7	65.40	4.37	4.41	4.39
	10:44		Bottom	9.0	26.50	26.50	26.50	7.57	7.57	7.57	32.72	32.72	32.72	68.6	68.5	68.55	4.59	4.56	4.58

Location: Station C Coordinate: 835659E, 816271N

Coordinate.		., 0.02																	
Date	Time	Weater Condition		g Depth	Wat	er Temp ℃	perature		pH -			Salini ppt	ty	D	O Satur %	ation		DO mg/L	
			n	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average
	0:17		Surface	1.0	27.70	27.70	27.70	7.53	7.53	7.53	32.27	32.27	32.27	60.8	60.7	60.75	3.99	3.98	3.99
4-Oct-12	0:18	Fine	Middle	7.0	27.80	27.80	27.80	7.53	7.53	7.53	32.31	32.31	32.31	60.2	58.9	59.55	3.95	3.93	3.94
	0:23		Bottom	13.0	27.80	27.80	27.80	7.54	7.54	7.54	32.33	32.33	32.33	60.3	60.2	60.25	3.95	3.94	3.95
	5:20		Surface	1.0	27.60	27.60	27.60	7.42	7.42	7.42	32.26	32.27	32.27	62.0	61.8	61.90	4.20	4.19	4.20
10-Oct-12	5:23	Fine	Middle	7.0	27.60	27.60	27.60	7.46	7.46	7.46	32.30	32.30	32.30	61.3	61.0	61.15	4.15	4.13	4.14
	5:25		Bottom	13.0	27.60	27.60	27.60	7.48	7.48	7.48	32.34	32.34	32.34	60.9	60.7	60.80	4.12	4.11	4.12
	12:05		Surface	1.0	27.80	27.80	27.80	7.52	7.52	7.52	32.21	32.21	32.21	63.6	65.2	64.40	4.20	4.32	4.26
17-Oct-12	12:07	Cloudy	Middle	7.0	27.50	27.50	27.50	7.54	7.54	7.54	32.20	32.20	32.20	55.0	60.8	57.90	3.63	4.02	3.83
	12:09		Bottom	13.0	27.60	27.60	27.60	7.54	7.54	7.54	31.98	31.98	31.98	67.2	65.5	66.35	4.43	4.52	4.48
	10:30		Surface	1.0	26.10	26.10	26.10	7.58	7.58	7.58	32.75	32.75	32.75	71.3	71.4	71.35	4.80	4.81	4.81
27-Oct-12	10:32	Cloudy	Middle	7.0	26.00	26.00	26.00	7.57	7.57	7.57	32.70	32.70	32.70	74.5	72.8	73.65	5.02	4.91	4.97
	10:34		Bottom	13.0	26.30	26.30	26.30	7.57	7.57	7.57	32.69	32.69	32.69	65.9	66.8	66.35	4.43	4.49	4.46



Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Normal Day 07:00-19:00	5/10/2012 13:01 66.5	<u>Section Whitefield Depot</u> 11/10/2012 8:01 67.0	16/10/2012 15:01 63.5	22/10/2012 10:01 64.5	27/10/2012 17:01 62.2
28/9/2012 7:01 64.8	5/10/2012 13:31 67.8	11/10/2012 8:31 68.0	16/10/2012 15:31 64.8	22/10/2012 10:31 62.9	27/10/2012 17:31 63.4
	5/10/2012 14:01 67.4	11/10/2012 9:01 68.1	16/10/2012 16:01 64.5	22/10/2012 11:01 61.7	27/10/2012 18:01 66.3
28/9/2012 7:31 66.4	5/10/2012 14:31 67.1	11/10/2012 9:31 67.3	16/10/2012 16:31 65.2 16/10/2012 17:01 64.8	22/10/2012 11:31 61.2	27/10/2012 18:31 67.9
28/9/2012 8:01 66.5 28/9/2012 8:31 68.0	5/10/2012 15:01 67.2 5/10/2012 15:31 67.0	11/10/2012 10:01 67.3 11/10/2012 10:31 68.3	16/10/2012 17:01 64.8	22/10/2012 12:01 60.8 22/10/2012 12:31 60.2	Normal Day 19:00-23:00,
28/9/2012 9:01 69.1	5/10/2012 16:01 66.9	11/10/2012 11:01 68.4	16/10/2012 18:01 64.9	22/10/2012 13:01 60.1	Sunday & Holiday 07:00-23:00
28/9/2012 9:31 69.9	5/10/2012 16:31 67.6	11/10/2012 11:31 66.4	16/10/2012 18:31 63.5	22/10/2012 13:31 59.7	
28/9/2012 10:01 69.8	5/10/2012 17:01 67.2	11/10/2012 12:01 64.5	17/10/2012 7:01 65.2	22/10/2012 14:01 59.3	28/9/2012 19:01 64.8
28/9/2012 10:31 69.3	5/10/2012 17:31 66.4	11/10/2012 12:31 64.4	17/10/2012 7:31 65.7	22/10/2012 14:31 58.9	28/9/2012 19:06 63.6
28/9/2012 11:01 69.2	5/10/2012 18:01 64.5	11/10/2012 13:01 66.7	17/10/2012 8:01 66.0	22/10/2012 15:01 59.0	28/9/2012 19:11 64.1
28/9/2012 11:31 67.1	5/10/2012 18:31 63.3	11/10/2012 13:31 67.4	17/10/2012 8:31 69.5	22/10/2012 15:31 59.1	28/9/2012 19:16 63.6
28/9/2012 12:01 66.0	6/10/2012 7:01 62.5	11/10/2012 14:01 66.9	17/10/2012 9:01 68.3	22/10/2012 16:01 59.6	28/9/2012 19:21 63.7
28/9/2012 12:31 65.9	6/10/2012 7:31 64.9	11/10/2012 14:31 66.5	17/10/2012 9:31 69.5	22/10/2012 16:31 60.4	28/9/2012 19:26 64.5
28/9/2012 13:01 69.0	6/10/2012 8:01 66.9	11/10/2012 15:01 67.4	17/10/2012 10:01 69.5	22/10/2012 17:01 61.7	28/9/2012 19:31 65.1
28/9/2012 13:31 69.5	6/10/2012 8:31 66.9	11/10/2012 15:31 67.4	17/10/2012 10:31 68.4	22/10/2012 17:31 62.4	28/9/2012 19:36 65.0
28/9/2012 14:01 71.8	6/10/2012 9:01 67.0	11/10/2012 16:01 68.8	17/10/2012 11:01 68.9	22/10/2012 18:01 65.2	28/9/2012 19:41 64.4
28/9/2012 14:31 70.2	6/10/2012 9:31 66.6	11/10/2012 16:31 67.2	17/10/2012 11:31 68.4	22/10/2012 18:31 67.0	28/9/2012 19:46 64.0
28/9/2012 15:01 68.8	6/10/2012 10:01 67.1	11/10/2012 17:01 66.2	17/10/2012 12:01 65.4	24/10/2012 7:01 64.5	28/9/2012 19:51 63.9
28/9/2012 15:31 68.8	6/10/2012 10:31 67.7	11/10/2012 17:31 65.7	17/10/2012 12:31 64.9	24/10/2012 7:31 64.3	28/9/2012 19:56 63.8
28/9/2012 16:01 70.8	6/10/2012 11:01 69.3	11/10/2012 18:01 64.3	17/10/2012 13:01 68.2	24/10/2012 8:01 64.1	28/9/2012 20:01 63.5
28/9/2012 16:31 68.8	6/10/2012 11:31 68.9	11/10/2012 18:31 64.0	17/10/2012 13:31 68.0	24/10/2012 8:31 63.8	28/9/2012 20:06 63.4
28/9/2012 17:01 68.7	6/10/2012 12:01 66.5	12/10/2012 7:01 62.9	17/10/2012 14:01 67.3	24/10/2012 9:01 63.9	28/9/2012 20:11 63.8
28/9/2012 17:31 68.3	6/10/2012 12:31 66.8	12/10/2012 7:31 65.2	17/10/2012 14:31 66.3	24/10/2012 9:31 63.4	28/9/2012 20:16 63.3
28/9/2012 18:01 67.9	6/10/2012 13:01 67.7	12/10/2012 8:01 66.2	17/10/2012 15:01 65.3	24/10/2012 10:01 63.7	28/9/2012 20:21 63.2
28/9/2012 18:31 65.7	6/10/2012 13:31 68.9	12/10/2012 8:31 67.0	17/10/2012 15:31 65.8	24/10/2012 10:31 63.1	28/9/2012 20:26 63.7
29/9/2012 7:01 63.8	6/10/2012 14:01 68.8	12/10/2012 9:01 66.7	17/10/2012 16:01 66.4	24/10/2012 11:01 62.4	28/9/2012 20:31 62.9
29/9/2012 7:31 66.3	6/10/2012 14:31 69.2	12/10/2012 9:31 67.1	17/10/2012 16:31 67.9	24/10/2012 11:31 62.2	28/9/2012 20:36 62.7
29/9/2012 8:01 67.2	6/10/2012 15:01 69.0	12/10/2012 10:01 68.9	17/10/2012 17:01 67.9	24/10/2012 12:01 61.5	28/9/2012 20:41 63.3
29/9/2012 8:31 67.8	6/10/2012 15:31 66.7	12/10/2012 10:31 69.1	17/10/2012 17:31 66.4	24/10/2012 12:31 61.5	28/9/2012 20:46 62.9
29/9/2012 9:01 67.5	6/10/2012 16:01 65.3	12/10/2012 11:01 68.8	17/10/2012 18:01 63.6	24/10/2012 13:01 60.1	28/9/2012 20:51 62.5
29/9/2012 9:31 67.5	6/10/2012 16:31 66.3	12/10/2012 11:31 67.8	17/10/2012 18:31 63.5	24/10/2012 13:31 59.1	28/9/2012 20:56 62.2
29/9/2012 10:01 66.9	6/10/2012 17:01 66.5	12/10/2012 12:01 65.3	18/10/2012 7:01 65.0	24/10/2012 14:01 58.9	28/9/2012 21:01 63.1
29/9/2012 10:31 66.6	6/10/2012 17:31 66.2	12/10/2012 12:31 64.8	18/10/2012 7:31 65.9	24/10/2012 14:31 58.3	28/9/2012 21:06 64.0
29/9/2012 11:01 67.4	6/10/2012 18:01 65.7	12/10/2012 13:01 67.4	18/10/2012 8:01 64.6	24/10/2012 15:01 58.5	28/9/2012 21:11 65.1
29/9/2012 11:31 66.5	6/10/2012 18:31 63.6	12/10/2012 13:31 68.0	18/10/2012 8:31 65.3	24/10/2012 15:31 59.1	28/9/2012 21:16 63.9
29/9/2012 12:01 64.5	8/10/2012 7:01 59.6	12/10/2012 14:01 67.7	18/10/2012 9:01 65.4	24/10/2012 16:01 59.8	28/9/2012 21:21 63.0
29/9/2012 12:31 65.4	8/10/2012 7:31 61.6	12/10/2012 14:31 66.0	18/10/2012 9:31 66.0	24/10/2012 16:31 61.4	28/9/2012 21:26 63.4
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Real-time Noise Data RT	N1 (FEHD Hong Kong Transpo	rt Section Whitefield Depot			
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	Real-time Noise Data	RTN1 (FEHD Hong Kong Transpo	ort Section Whitefield Depot)			
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	14/10/2012 17:26 66.6	15/10/2012 22:36 64.7	18/10/2012 19:46 64.1	20/10/2012 20:56 59.7	21/10/2012 14:06 65.0	22/10/2012 19:16 67.0
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Real-time Noise Data	RTN1 (FEHD Hong Kong Transpo	nt Section Whitefield Depot)			
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Real-time Noise Data RT	N1 (FEHD Hong Kong Transpor	t Section Whitefield Depot)			
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Real-time Noise Data RT	N2 and RTN2a				
Normal Day 07:00-19:00	5/10/2012 13:31 65.8	11/10/2012 8:31 49.1	16/10/2012 15:31 66.9	22/10/2012 10:31 65.2	27/10/2012 17:31 66.5
28/9/2012 7:01 63.7	5/10/2012 14:01 61.4	11/10/2012 9:01 53.0	16/10/2012 16:01 58.7	22/10/2012 11:01 66.9	27/10/2012 18:01 54.8
28/9/2012 7:31 63.2	5/10/2012 14:31 64.2	11/10/2012 9:31 64.7	16/10/2012 16:31 61.8	22/10/2012 11:31 55.2	27/10/2012 18:31 66.5
28/9/2012 8:01 65.2	5/10/2012 15:01 68.5	11/10/2012 10:01 63.2	16/10/2012 17:01 61.8	22/10/2012 12:01 65.7	Normal Day 19:00-23:00,
28/9/2012 8:31 67.2	5/10/2012 15:31 68.8	11/10/2012 10:31 62.6	16/10/2012 17:31 57.3	22/10/2012 12:31 54.6	
28/9/2012 9:01 67.8	5/10/2012 16:01 71.2	11/10/2012 11:01 56.6	16/10/2012 18:01 66.6	22/10/2012 13:01 58.5	Sunday & Holiday 07:00-23:00
28/9/2012 9:31 69.0	5/10/2012 16:31 71.5	11/10/2012 11:31 51.1	16/10/2012 18:31 65.6	22/10/2012 13:31 66.1	28/9/2012 19:01 61.4
28/9/2012 10:01 67.6	5/10/2012 17:01 71.7	11/10/2012 12:01 66.3	17/10/2012 7:01 65.0	22/10/2012 14:01 64.0	
28/9/2012 10:31 68.0	5/10/2012 17:31 68.4	11/10/2012 12:31 65.8	17/10/2012 7:31 65.5	22/10/2012 14:31 63.3	28/9/2012 19:06 61.8
28/9/2012 11:01 67.2	5/10/2012 18:01 65.9	11/10/2012 13:01 56.6	17/10/2012 8:01 66.7	22/10/2012 15:01 65.7	28/9/2012 19:11 61.6
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28/9/2012 18:01 64.5	6/10/2012 13:01 60.6	12/10/2012 8:01 66.3	17/10/2012 15:01 61.6	24/10/2012 10:01 63.5	28/9/2012 20:21 62.1
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29/9/2012 7:01 63.1	6/10/2012 14:01 71.6	12/10/2012 9:01 39.6	17/10/2012 16:01 61.3	24/10/2012 11:01 64.7	28/9/2012 20:31 62.1
29/9/2012 7:31 64.1	6/10/2012 14:31 72.4	12/10/2012 9:31 66.9	17/10/2012 16:31 57.1	24/10/2012 11:31 64.2	28/9/2012 20:36 62.1
29/9/2012 8:01 67.1	6/10/2012 15:01 73.1	12/10/2012 10:01 67.0	17/10/2012 17:01 53.4	24/10/2012 12:01 63.6	28/9/2012 20:41 62.3
29/9/2012 8:31 68.1	6/10/2012 15:31 71.4	12/10/2012 10:31 67.1	17/10/2012 17:31 66.2	24/10/2012 12:31 63.8	28/9/2012 20:46 63.6
29/9/2012 9:01 67.9	6/10/2012 16:01 71.4	12/10/2012 11:01 55.0	17/10/2012 18:01 65.9	24/10/2012 13:01 65.6	28/9/2012 20:51 62.0
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29/9/2012 11:01 70.3	6/10/2012 18:01 66.3	12/10/2012 13:01 58.4	18/10/2012 8:01 41.1	24/10/2012 15:01 53.2	28/9/2012 21:11 61.6
29/9/2012 11:31 65.5	6/10/2012 18:31 62.0	12/10/2012 13:31 57.9	18/10/2012 8:31 66.0	24/10/2012 15:31 62.8	28/9/2012 21:16 62.4
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29/9/2012 17:01 66.1	8/10/2012 12:01 64.8	13/10/2012 7:01 64.7	18/10/2012 14:01 64.6	25/10/2012 9:01 60.4	28/9/2012 22:11 61.4
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Real-time Noise Data RTN	N2 and RTN2				
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	Real-time Noise Data	RTN2 and RTN2a				
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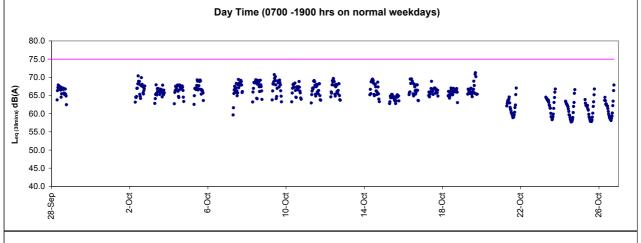
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22/10/2012 2:11 58.7	23/10/2012 3:21 57.2	24/10/2012 4:31 45.4	25/10/2012 5:41 57.9	26/10/2012 6:51 61.5	*Exceedance recorded during
22/10/2012 2:16 58.2	23/10/2012 3:26 56.7	24/10/2012 4:36 50.5	25/10/2012 5:46 47.9	26/10/2012 6:56 61.4	
22/10/2012 2:21 58.5	23/10/2012 3:31 57.0	24/10/2012 4:41 50.9	25/10/2012 5:51 58.9	26/10/2012 23:01 60.5	monitoring compliance check
22/10/2012 2:26 58.3	23/10/2012 3:36 59.4	24/10/2012 4:46 58.5	25/10/2012 5:56 57.7	26/10/2012 23:06 60.9	with NCO.
22/10/2012 2:31 58.2	23/10/2012 3:41 55.6	24/10/2012 4:51 47.1	25/10/2012 6:01 55.6	26/10/2012 23:11 60.5	
22/10/2012 2:36 58.8	23/10/2012 3:46 55.4	24/10/2012 4:56 32.5	25/10/2012 6:06 54.4	26/10/2012 23:16 60.8	*Due to the setting up of RTN2a
22/10/2012 2:41 58.9	23/10/2012 3:51 56.4	24/10/2012 5:01 45.8	25/10/2012 6:11 54.2	26/10/2012 23:21 61.1	-Hong Kong Electric Centre,
22/10/2012 2:46 58.0	23/10/2012 3:56 56.3	24/10/2012 5:06 58.5	25/10/2012 6:16 54.2	26/10/2012 23:26 61.8	noise monitoring for RTN2a
22/10/2012 2:51 58.2	23/10/2012 4:01 55.8	24/10/2012 5:11 58.6	25/10/2012 6:21 55.9	26/10/2012 23:31 61.8	was temporary suspended
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22/10/2012 3:46 57.2	23/10/2012 4:56 56.7	24/10/2012 6:06 56.0	25/10/2012 23:16 62.7	27/10/2012 0:26 59.0	
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22/10/2012 4:01 58.6	23/10/2012 5:11 57.6	24/10/2012 6:21 57.2	25/10/2012 23:31 63.1	27/10/2012 0:41 58.8	
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22/10/2012 4:16 58.1	23/10/2012 5:26 58.1	24/10/2012 6:36 57.1	25/10/2012 23:46 62.8	27/10/2012 0:56 58.9	
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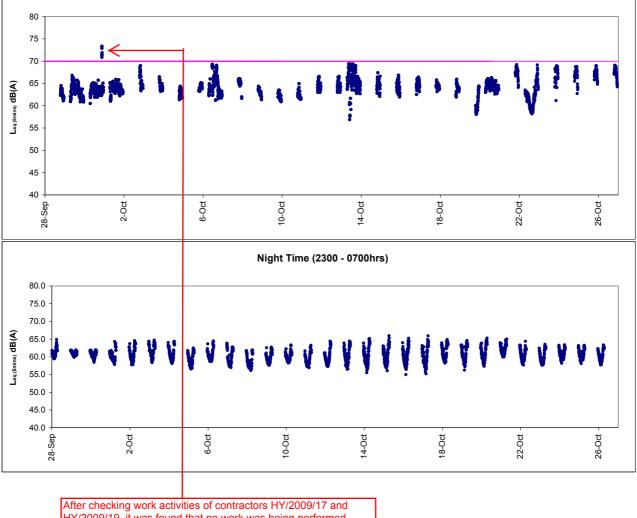


Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



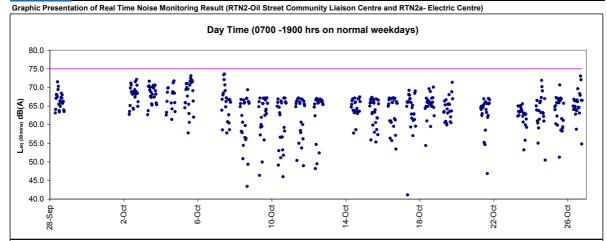


Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays)

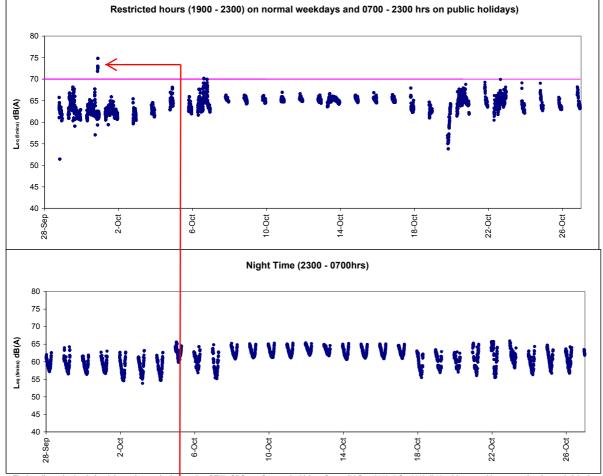


HY/2009/19, it was found that no work was being performed during monitoring. Exceedances was possibly contributed by display of pyrotechnics on 1 Oct 2012

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



am



* The baseline noise level of real time noise monitoring reusit at RTN2- Oil Street Community Liaison Centre (28 Sept 2012 -5 Oct 2012 til 10am) for normal hours, evening time and night time are 67.2 dB(A), 68.2 dB(A) and 61.9 dB(A) respectively.

**The baseline noise level of real time noise monitoring result for RTN2a-Electric Centre (5 Oct 2012 from 1:30pm - 27 Oct 2012) for normal hours, evening time and night time are 67.2 dB(A), 61.9 dB(A) and 58.9 dB(A) respectively.

After checking work activities of contractors HY/2009/17 and HY/2009/19, it was found that no work was being performed during monitoring. Exceedances was possibly contributed by display of pyrotechnics on 1 Oct 2012



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	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action	
X_10N101	16-Oct-12	15:35	M6 - HK baptist Church henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	-	Possible reason:	Socketed H-piling and drilling activities and traffic nearby were observed during monitoring. Traffic noise contributed as a major noise source during monitoring.
						leceived.			Reviewed the trend of noise measurement results and analysis of contractor's working procedure. Review the basline noise level at this monitoring station.
									Although socketed H-piling and drilling activities for Contract no. HY/2009/19 were conducted during the measurement, it was observed that traffic noise was a major noise source during monitoring; it is concluded that the exceedance was not due to the Project but to traffic noise nearby.



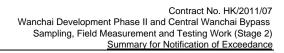
2-Oct-12	Mid-Flood	C9	DO(mg/L) Turbidity	5.39 10.04	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
			Turbidity	10.04	0.40			
					9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
			SS	12.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
4-Oct-12	Mid-Flood	C8	DO(mg/L) Turbidity	4.39 9.52	3.36 9.10			Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
			SS	8.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
5-Oct-12	Mid-Flood	C8	DO(mg/L) Turbidity	4.04 11.23	3.36 9.10			Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
			ss	14.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
6-Oct-12	Mid-Flood	C3	DO(mg/L)	3.29	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
			Turbidity	3.35	9.10	10.25	Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, type 3 dredging at east bridge and trimming at HKCEC water channel were conducted on that day.
								Reviewing the results at the monitoring stations nearer than C3, no exceedance was recorded. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
			SS	4.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
5	-Oct-12	-Oct-12 Mid-Flood	-Oct-12 Mid-Flood C8	-Oct-12 Mid-Flood C8 DO(mg/L) -Oct-12 Mid-Flood C3 DO(mg/L) -Oct-12 Mid-Flood C3 DO(mg/L) Turbidity	Turbidity 9.52 SS 8.50 -Oct-12 Mid-Flood C8 DO(mg/L) Turbidity 4.04 11.23 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 Turbidity 3.35 14.50 3.35	Turbidity 9.52 9.10 SS 8.50 15.00 -Oct-12 Mid-Flood C8 DO(mg/L) Turbidity 4.04 3.36 -Oct-12 Mid-Flood C8 DO(mg/L) SS 14.50 15.00 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 Turbidity 3.35 9.10 3.35 9.10 3.35 9.10	-Oct-12 Mid-Flood C8 DO(mg/L) Turbidity 4.04 11.23 3.36 9.10 2.73 10.25 -Oct-12 Mid-Flood C8 DO(mg/L) SS 14.50 15.00 22.13 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 2.73 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 2.73 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 2.73 -Oct-12 Mid-Flood C3 DO(mg/L) 3.29 3.36 2.73	Turbidity9.529.1010.25 Action taken / to be taken:SS8.5015.0022.13 Remarks / Other Obs:-Oct-12Mid-FloodC8DO(mg/L) Turbidity4.043.36 11.232.73 Possible reason: 10.25 Action taken / to be taken:-Oct-12Mid-FloodC8DO(mg/L) SS14.5015.0022.13 Remarks / Other Obs:-Oct-12Mid-FloodC3DO(mg/L) Turbidity3.293.362.73 Possible reason: taken:-Oct-12Mid-FloodC3DO(mg/L)3.293.362.73 Possible reason: taken:



	Date	Tidal	Location	Parameters (Unit)	Measure Ac	tion Leve Lim	nit Level	Follow-up action	
X_10C441	6-Oct-12	Mid-Flood	C4w	DO(mg/L)	2.91	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	3.72	9.10		Action taken / to be taken:	monitoring station Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, type 3 dredging at east bridge and trimming at HKCEC water channel were conducted on that day.
									Reviewing the results at the monitoring stations nearer than C4w, no exceedance was recorded. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	5.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
× 100 (10			~~	20(//)			0.70		•
X_10C442	8-Oct-12	Mid-Ebb	C5w	DO(mg/L) Turbidity	5.38 22.60	3.36 9.10	10.25	Possible reason: Action taken / to be taken:	Trapping of unknown particles inside the silt screen Repeated the measurement to confirm the result. Checking with Contractor's records, no marine works was conducted on that day. Reviewing the results at the monitoing stations nearer than C5w, no exceedance was recorded. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.
				SS	54.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. 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 possible in relation to the trapping of unknown particles inside the silt screen. Contractor was reminded the water quality near to the intake should be provided with sufficient protection. The exceedance was considered not project-related.
X_10C443	10-Oct-12	Mid-Flood	C9	DO(mg/L)	3.51	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.75	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	20.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	MeasuredAc	tion Leve Limi	t Level	Follow-up action	
X_10C444		Mid-Flood		DO(mg/L)	2.27	3.36		Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	2.79	9.10	10.25	Action taken / to be taken:	Checking the work conducted near the monitoring station,TS2 seawall construction was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	11.0	15.00	22.13	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
X 10C445	10-Oct-12	Mid-Flood	C3	DO(mg/L)	2.86	3.36	2.73	Possible reason:	Natural variation of the water quality monitoring station
				Turbidity	3.11	9.10	-	Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	16.00	15.00	22.13	Remarks / Other Obs:	In view that the silt screen and silt curtain was in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
X_10C446	10-Oct-12	Mid-Flood	C4e	DO(mg/L)	3.29	3.36	2.73	Possible reason:	Natural variation of the water quality monitoring station
				Turbidity	6.38	9.10	10.25	Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt
				SS	13.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.





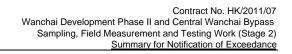
Oct-12 Mid	d-Flood	C4w	DO(mg/L)	3.22	3.36	2 72	Describle	Notes that the second
			Turbidity	3.78	9.10	-	Possible reason: Action taken / to be taken:	Natural variation of the water quality monitoring station Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
			SS	11.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
Oct-12 Mid	d-Flood (C1	DO(mg/L) Turbidity SS	3.35 3.73 9.00	3.36 9.10 15.00	10.25	Action taken / to be taken:	Natural variation of the water quality monitoring station Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records. the silt screen and sill No further exceedance was observed in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition during monitoring, and the overall water quality at other monitoring stations in the Victoria Harbour is closed to or exceed the Action Level as it is at the interchange period of Wet and Dry Season, the exceedance was considered not project related.
0	ct-12 Mid	ct-12 Mid-Flood	ct-12 Mid-Flood C1	ct-12 Mid-Flood C1 DO(mg/L) Turbidity	ct-12 Mid-Flood C1 DO(mg/L) 3.35 Turbidity 3.73	ct-12 Mid-Flood C1 DO(mg/L) 3.35 3.36 Turbidity 3.73 9.10	ct-12 Mid-Flood C1 DO(mg/L) 3.35 3.36 2.73 Turbidity 3.73 9.10 10.25	SS11.0015.0022.13Remarks / Other Obs:ct-12Mid-FloodC1DO(mg/L)3.353.362.73Possible reason: Action taken / to be taken:



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure Ac	tion Leve Lir	nit Level	Follow-up action	
X_10C449	13-Oct-12	Mid-Ebb	C5e	DO(mg/L)	5.35	3.36		Possible reason:	Inadequate protection around the intake and defective silt curtain
				Turbidity	18.43	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. Muddy water quality appearance inside and outside silt screen were observed during
				SS	22.00	15.00	22.13		Checking with Contractor works, there were rock filling activities near temporary seawall at WCR2.
									Contractor's daily records and independent diver's report were also checked. The frame type silt screen at intake and silt curtain along the western seawall were deployed. Both silt screen and silt curtains were in proper condition in their daily inspection and independent diver's report.
									ET recommended that the contractor should review the working method and adequacy of mitigation measures.
									ET will keep in view of the trend of water monitoring data and mitigation measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures.
								Remarks / Other Obs:	Although the Contractor's records have shown a well maintained silt curtain and silt screen, muddy water was still observed around the intake during monitoring. The turbidity and SS concentration has returned to below the Action Level after stopping of filling works during the flood tide. This shows possible defects at the silt curtain and that protection around the intake is inadequate to protect the sensitive receiver during the filling activities.
V 400450	40.0-+ 40	Mid-Ebb	C5w		5.00	0.00	0.70	Dessible assesses	
X_10C450	13-Oct-12	MIG-EDD	CSW	DO(mg/L) Turbidity	5.28 16.30	3.36 9.10		Possible reason: Action taken / to be taken:	Inadequate protection around the intake and defective silt curtair Immediate repeated measurement was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. Muddy water quality appearance inside and outside silt screen were observed during
				SS	25.00	15.00	22.13		Checking with Contractor works, there were rock filling activities near temporary seawall at WCR2. Contractor's daily records and independent diver's report were also checked. The frame type silt screen at intake and silt curtain along the western seawall were deployed. Both silt screen and silt curtains were in proper condition in their daily inspection and independent diver's report.
								Remarks / Other Obs:	ET recommended that the contractor should review the working method and adequacy of mitigation measures. ET will keep in view of the trend of water monitoring data and mitigation measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures. Although the Contractor's records have shown a well maintained silt curtain and silt screen, muddy water was still observed around the intake during monitoring. The turbidity and SS concentration has returned to below the Action Level after stopping of filling works during the flood tide. This shows possible defects at the silt curtain and that protection around the intake is inadequate to protect the sensitive receiver during the filling activities.



Ref no.	Date	Tidal	Location	Parameters (Unit)	MeasurerAr	tion Level imi	it Level	Follow-up action	
X_10C451		Mid-Flood		DO(mg/L)	4.19	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	13.20	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	16.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C452	13-Oct-12	Mid-Flood	C8	DO(mg/L) Turbidity	4.55 10.50	3.36 9.10	10.25	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	12.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C453	13-Oct-12	Mid-Flood	СЗ	DO(mg/L)	3.22	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	3.25	9.10		Action taken / to be taken:	Checking the work conducted near the monitoring station, trimming work at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the floating debris inside silt screen was found and removed immediately after inspection. The silt screen and silt curtain were observed in proper condition during water monitoring.
				SS	6.0	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the silt curtain and silt screen were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C454	13-Oct-12	Mid-Flood	C4w	DO(mg/L)	2.66	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	3.08	9.10		Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	3.50	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the silt curtain and silt screen were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.

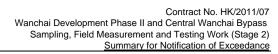


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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured Acti	ion Leve Lim	nit Level	Follow-up action	
X_10C455	13-Oct-12	Mid-Ebb	C9	DO(mg/L) Turbidity	5.33 9.86	3.36 9.10	2.73	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	14.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
V 400 17-	40.0 / 10	N 41 1	00		4.00	0.00	c =-		
X_10C456	13-Oct-12	Mid-Ebb	C8	DO(mg/L) Turbidity	4.96 9.21	3.36 9.10		Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	11.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C457	13-Oct-12	Mid-Ebb	C4e	DO(mg/L)	3.32	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	4.70	9.10		Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	7.50	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the silt curtain and silt screen were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X 10C458	13-Oct-12	Mid-Ebb	C4w	DO(mg/L)	2.75	3.36	2 73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
A_100 100				Turbidity	1.50	9.10	10.25	Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that
				SS	2.50	15.00	22.13	Remarks / Other Obs:	day. Checking with the Contractor and RSS daily records, the silt screen and silt In view that the silt curtain and silt screen were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	MeasuredAct	ion Leve Lin	nit Level	Follow-up action	
X_10C459	15-Oct-12	Mid-Ebb	C5e	DO(mg/L)	3.85	3.36		Possible reason:	Inadequate protection around the intake
				Turbidity	17.90	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. Muddy water quality appearance inside and outside silt screen were observed during monitoring.
				SS	36.50	15.00	22.13		Checking with Contractor works, there were rock filling activities near temporary seawall at WCR2. Contractor's daily records and independent diver's report were also checked. The frame type silt screen at intake and silt curtain along the western seawall were deployed. Both silt screen and silt curtains were in proper condition in their daily inspection and independent diver's report.
									ET recommended that seizing of work until remedial works are properly implemented.
									ET will keep in view of the trend of water monitoring data and mitigation measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures.
								Remarks / Other Obs:	Although the Contractor's records have shown a well maintained silt curtain and silt screen, muddy water was still observed inside the sheet piles and silt screen during monitoring. The turbidity and SS concentration has returned to below the Action Level after seizing of filling works during the flood tide. This shows that protection around the intake is inadequate to protect the sensitive receiver during the filling activities.
X_10C460	15-Oct-12	Mid-Ebb	C5w	DO(mg/L)	4.15	3.36	2.73	Possible reason:	Inadequate protection around the intake
				Turbidity	12.38	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. Muddy water quality appearance inside and outside silt screen were observed during
				SS	15.00	15.00	22.13		Checking with Contractor works, there were rock filling activities near temporary seawall at WCR2. Contractor's daily records and independent diver's report were also checked. The frame type silt screen at intake and silt curtain along the western seawall were deployed. Both silt screen and silt curtains were in proper condition in their daily inspection and independent diver's report.
								Remarks / Other Obs:	ET recommended that seizing of work until remedial works are properly implemented. ET will keep in view of the trend of water monitoring data and mitigation measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures. Although the Contractor's records have shown a well maintained silt curtain and silt screen, muddy water was still observed inside the sheet piles and silt screen during monitoring. The turbidity and SS concentration has returned to below the Action Level after seizing of filling works during the flood tide. This shows that protection around the intake is inadequate to protect the sensitive recevier during the filling activities.



Ref no.	Data	Tistal	1	Deremetere (Linit)	NA			Follow up option	
X_10C461	Date 15-Oct-12	Tidal Mid-Ebb	Location C9	Parameters (Unit) DO(mg/L)	5.11	3.36		Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.32	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	13.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C462	15-Oct-12	Mid-Ebb	C4w	DO(mg/L)	3.35	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	2.49	9.10	10.25	Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day.
				SS	7.00	15.00	22.13	Remarks / Other Obs:	Checking with the Contractor and RSS daily records, the silt screen and silt No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt curtain and silt screen were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C463	17-Oct-12	Mid-Flood	C5e	DO(mg/L)	4.77	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	12.33	9.10	10.25	Action taken / to be taken:	monitoring station Repeated the measurement to confirm the result. Checking with Contractor's records, filling in WCR2 was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.
				SS	15.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain for filling were in proper condition, the exceedance was considered not project related.
X_10C464	17-Oct-12	Mid-Flood	C5w	DO(mg/L)	4.90	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	10.03	9.10	10.25	Action taken / to be taken:	monitoring station Repeated the measurement to confirm the result. Checking with Contractor's records, filling in WCR2 was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were in proper condition.
				SS	11.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain for filling were in proper condition, the exceedance was considered not project related.

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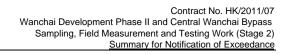
	Date	Tidal	Location	Parameters (Unit)	Measure	ction Leve Lin	nit Level	Follow-up action	
X_10C465	17-Oct-12	Mid-Ebb	C4w	DO(mg/L)	2.84	3.36		Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	2.90	9.10	10.25	Action taken / to be	Repeated the measurement to confirm the result. No odour nuisance was
								taken:	detected during DO monitoring. Checking the work conducted near the
									monitoring station, trimming at HKCEC water channel was conducted on that
									day.
				SS	4.50	15.00	22 13	Remarks / Other Obs:	Checking with the Contractor and RSS daily records, the silt screen and sill No further DO exceedance was recorded in the next consecutive monitoring. In
									view that the water quality at monitoring stations located nearest the marine
									work site were well below the Action level, the silt curtain and silt screen were in
									proper condition and no odour was detected during monitoring, it was
									considered not related to Project works.
X_10C466	17-Oct-12	Mid-Ebb	C7	DO(mg/L)	3.14	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	1.67	9.10	10.25	Action taken / to be	Checking the work conducted near the monitoring station, TS2 seawall
								taken:	construction was conducted on that day.
									Checking with the Contractor and RSS daily records, the silt screen and silt
									curtain were observed in proper condition.
				SS	3.00	15.00	22 13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In
				<u> </u>	0.00	10.00	22.10	Concilio / Outor Oba.	view that the silt curtain and silt screen were in proper condition and no
									dredging work was conducted on that day, the exceedance was considered not
									related to Project works.
X_10C467	20-Oct-12	Mid-Flood	C5w	DO(mg/L)	4.42	3.36	2.73	Possible reason:	Silty water was observed discharging from water pipe into Well B during
				Turbidity	18.50	9.10	10.25	Action taken / to be	monitoring Immediate repeated measurement was conducted to confirm the exceedances.
				Turbiality	10.00	9.10		taken:	Notification of exceedances were immediately provided to Contractor of
									HK/2009/02, RE and IEC when the exceedances were recorded. Silty water was
									observed discharging from water pipe into Well B during monitoring. 21.65 NTU
									turbidity was recorded outside the silt screen. Contractor immediately removed
									the pipe from Well B. ET reminded Contractor should ensure the water pumping
									into Well for cooling purpose should not deteriorate the water quality of intake.
									ET will keep in view of the trend of water monitoring data and mitigation
									measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures.
				SS	29.50	15.00	22.13		
								Remarks / Other Obs:	No further exceedance was recorded in the next consecutive water monitoring
									on 22 Oct. The turbidity and SS concentration has returned to below the Action
									Level after removal of water pipe.
X_10C468	20-Oct-12	Mid-Flood	C9	DO(mg/L)	5.75	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.82	9.10	10.25	Action taken / to be	Immediate repeated measurement was conducted to confirm the exceedances.
					4 a			taken:	Confirmed with Contractor that no marine works were performed that day
				SS	12.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view
									that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Ian 2012 and contractor of HY/2009/10 confirmed that no related
									RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was
									considered to be caused from the accumulation of particles discharged from the
									outfalls near monitoring station and not related to the Project works.
		1	1						



Ref no.	Date	Tidal	Location	Parameters (Unit)	MeasurecAc	tion Leve Lim	nit Level	Follow-up action	
X_10C469	20-Oct-12	Mid-Flood	C8	DO(mg/L) Turbidity SS	4.63 9.37 12.50	3.36 9.10 15.00	10.25	Possible reason: Action taken / to be Remarks / Other Obs:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C470	22-Oct-12	Mid-Flood	C8	DO(mg/L) Turbidity	4.37 10.93	3.36 9.10	10.25	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	6.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C471	22-Oct-12	Mid-Flood	C9	DO(mg/L) Turbidity	4.53 9.46	3.36 9.10	10.25	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	6.50	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C472	22-Oct-12	Mid-Flood	С3	DO(mg/L)	3.33	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	5.56	9.10		Action taken / to be taken:	monitoring station Repeated the measurement to confirm the result. No odour nuisance was detected during DO monitoring. Checking the work conducted near the monitoring station, trimming at HKCEC water channel was conducted on that day. Checking with the Contractor and RSS daily records, the silt screen and silt curtain were observed in proper condition.
				SS	2.50	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve Lin	nit Level	Follow-up action	
X_10C473	25-Oct-12	Mid-Flood	C5e	DO(mg/L)	3.71	3.36	2.73	Possible reason:	Trapping of silty water in the intake
				Turbidity	12.00	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Notification of exceedances were immediately provided to Contractor of HK/2009/02, RE and IEC when the exceedances were recorded. Muddy dispersion into the Well as a result of the rockfilling in WCR2 was observed during inspection walk on 25 Oct. ET recommended that gaps at temporary sheet pile at Well B should be sealed up and the turbid water inside well should be treated to improve the water quality in the well.
									Daily water quality monitoring at C5e was conducted on 26 Oct 12 under Event and Action Plan. The turbidity of C5e was 7.38 NTU on 26 Oct 12 which is below Action level.
									ET will keep in view of the trend of water monitoring data and mitigation measures for further deterioration of water quality in WCR2 area and the effectiveness of the remedial measures.
				SS	31.50	15.00	22.13	Remarks / Other Obs:	The turbidity and SS concentration has returned to below the Action Level after the improvement of condition of temporary sheet pile at Well. This shows that protection around the intake is inadequate to protect the sensitive recevier during the filling activities.
X 10C474	25-Oct-12	Mid-Flood	C9	DO(mg/L)	5.45	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	13.95	9.10		Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	24.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X 10C475	25-Oct-12	Mid-Flood	C8	DO(mg/L)	4.58	3.36	2 73	Possible reason:	Accumulation of unknown particles from nearby outfall
X_100475	20 ⁻ 00 - 12		00	Turbidity	4.56 13.35	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				ss	22.00	15.00	22.13	Remarks / Other Obs:	In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.





Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure Act	ion Leve Lim	nit Level	Follow-up action	
X_10C476	25-Oct-12	Mid-Flood	C2	DO(mg/L)	4.34	3.36	2.73	Possible reason:	Accumulation of floating debris near monitoring station
				Turbidity	5.95	9.10	10.25	Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. Repeated the measurement to confirm the result. According to the information reported by Contractor HK/2010/06 and HK/2009/01 on 25 Oct 2012, pile head breaking under HK/2010/06 and filling at HKCEC water channel under HK/2009/01 were conducted on that day. Checking with the Contractor and RSS daily records, the floating debris inside silt screen was found and removed immediately after inspection. The silt screen and silt curtain were observed in proper condition during water monitoring
				SS	16.00	15.00	22.13	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.
X_10C477	27-Oct-12	Mid-Ebb	C7	DO(mg/L)	3.05	3.36	2.73	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	3.86	9.10	10.25	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 27 Oct, TS2 seawall construction was conducted on that day.
				SS	3.50	15.00	22.13	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. No further DO exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, the exceedance was considered not related to Project works.
X_10C478	27-Oct-12	Mid-Flood	C7	DO(mg/L)	3.13	3.36	2.73	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality
				Turbidity	3.76	9.10	10.25	Action taken / to be taken:	monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 27 Oct, TS2 seawall construction was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				SS	4.50	15.00	22.13	Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt curtains for filling works were in proper condition and no odour was detected during monitoring, it was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure Ac	tion Level in	nit Level	Follow-up action	
X_10C479		Mid-Ebb	C8	DO(mg/L) Turbidity	4.22 11.18	3.36 9.10	2.73	Possible reason: Action taken / to be taken:	Accumulation of unknown particles from nearby outfall Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	9.50	15.00	22.13	Remarks / Other Obs:	In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.
X_10C480	27-Oct-12	Mid-Flood	C8	DO(mg/L)	4.20	3.36	2.73	Possible reason:	Accumulation of unknown particles from nearby outfall
				Turbidity	9.31	9.10	10.25	Action taken / to be taken:	Immediate repeated measurement was conducted to confirm the exceedances. Confirmed with Contractor that no marine works were performed that day.
				SS	11.00	15.00	22.13	Remarks / Other Obs:	In view that reclamation work by contractor HY/2009/11 was confirmed completed by RSS on 4 Jan 2012 and contractor of HY/2009/19 confirmed that no related marine work was performed during time of monitoring, the exceedance was considered to be caused from the accumulation of particles discharged from the outfalls near monitoring station and not related to the Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W342	28-Sep-12	Mid-Flood	WSD17	DO (mg/L)	5.11	3.17	2.63	Possible reason:	Possible in relation to cleaning of screen panels at Quarry Bay WSD intake
				Turbidity	11.75	10.01	11.54	Action taken / to be taken:	was recorded on 28 Sep 2012. Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 28 Sep, no marine work was conducted. Reviewing the results at the monitoring stations nearer than WSD 17, no exceedance was recorded. Checking with the contractor's record, cleaning screen panel at Quarry Bay WSD intake was conducted on that day.
				Suspended Solid	21.00	16.26	19.74	Remarks / Other Obs:	The exceedances was possibly due to cleaning of screen panels at the WSD intake. Materials from the cleaning of screen panels was unavoidably collected during monitoring. The exceedance was considered as not project related.
X_W343	2-Oct-12	Mid-Flood	WSD9	DO (mg/L)	5.59	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	6.89	8.04	9.49	Action taken / to be taken:	quality monitoring station The tidal was moving westward. Checking with the contractor's record, no marine work was conducted on that day.
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	Considering no marine work was conducted on that day, the exceedance was possibly caused by natural variation or changes of water quality in the vicinity of the water quality monitoring station. The exceedance was considered as not project related.
X_W344	2-Oct-12	Mid-Ebb	WSD17	DO (mg/L)	5.69	3.66	3.28	Possible reason:	Possible in relation to cleaning of screen panels at Quarry Bay WSD intake
				Turbidity	10.43	8.04	9.49	Action taken / to be taken:	was recorded on 2 Oct 2012. Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 2 Oct, no marine work was conducted. Checking with the contractor's record, cleaning screen panel at Quarry Bay WSD intake was conducted on that day.
				Suspended Solid	19.00	13.00	14.43	Remarks / Other Obs:	The exceedances was possibly due to cleaning of screen panels at the WSD intake. Materials from the cleaning of screen panels was unavoidably collected during monitoring. The exceedance was considered as not project related.
X_W345	2-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.48	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	2.42	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 2 Oct, no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	5.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, the exceedance was considered not related to Project works.
X_W346	2-Oct-12	Mid-Ebb	WSD21	DO (mg/L) Turbidity	3.55 2.96	3.66 8.04	9.49	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 2 Oct, no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	8.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, the exceedance was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W347	2-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	5.26	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	13.13	8.04	9.49	Action taken / to be	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the
								taken:	exceedances. The tidal was moving eastward. Checking with contractor's
									works on 2 Oct, type 3 dredging under Expo Drive East Bridge and trimming
									work at HKCEC water channel were conducted on that day.
									Reviewing the results at the monitoring stations nearer than WSD 19, no exceedance was recorded.
				Suspended Solid	22.00	13.00	14.43	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In
									view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered
									not project related.
X W348	4-Oct-12	Mid-Flood	WSD17	DO (mg/L)	4.92	3.66	3.28	Possible reason:	Natural variation or changes of water guality in the vicinity of the water
7_0040	4-000-12	1010-1 1000	WODIN	DO (IIIg/L)	4.32	5.00	5.20		quality monitoring station
				Turbidity	19.08	8.04	9.49	Action taken / to be	Immediate repeated in-situ measurements had conducted to confirm the
								taken:	exceedances. The tidal was moving westward. Checking with contractor's
									works on 4 Oct, no marine work was conducted on that day.
									Reviewing the results at the monitoring stations nearer than WSD 17, no
									exceedance was recorded. Checking with contractor's inspection record, the
									silt screen was in proper condition on that day.
				Suspended Solid	31.50	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen was
									in proper condition, the exceedance was considered not related to Project
									works.
X_W349	4-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.61	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				To ask follows	0.00	0.04	0.40	A stinue taleau (taleau	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the
				Turbidity	3.00	8.04	9.49	Action taken / to be taken:	exceedances. No odour nuisance was noted during monitoring. Checking
								laken:	with contractor's works on 4 Oct, no marine work was conducted on that day.
									Checking with contractor's inspection record, the silt screen and silt curtain
									were in proper condition on that day.
				Suspended Solid	7.00	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen and
									silt curtain were in proper condition, the exceedance was considered not
									related to Project works.
X_W350	6-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.28	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				To sub-liable a	4 7 4	0.04	0.40	Asting taken (to b	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the
				Turbidity	4.74	8.04	9.49	Action taken / to be	exceedances. No odour nuisance was noted during monitoring. Checking
								taken:	with contractor's works on 6 Oct, no marine work was conducted on that day.
									Checking with contractor's inspection record, the silt screen and silt curtain
									were in proper condition on that day.
				Suspended Solid	10.00	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen and
									silt curtain were in proper condition, the exceedance was considered not
									related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Level	Limit Level	Follow-up action	
X_W351	8-Oct-12	Mid-Flood	WSD17	DO (mg/L)	5.29	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	9.95	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 8 Oct, no marine work was conducted. Reviewing the results at the monitoring stations nearer than WSD 17, no exceedance was recorded. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	10.00	13.00	14.43	Remarks / Other Obs:	No marine work was conducted on that day. In view that the silt screen was in proper condition, the exceedance was considered not related to Project works.
X_W352	10-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.23	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	3.17	8.04	9.49	Action taken / to be taken:	immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 10 Oct, no marine work was conducted on that day.
				Suspended Solid	8.00	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen and silt curtain No marine work was conducted on that day. In view that the silt screen and silt curtain were in proper condition, the exceedance was considered not related to Project works.
X_W353	13-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.57	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	2.19	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to contirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 13 Oct, rockfilling at WCR2 was conducted on
				Suspended Solid	3.50	13.00	14.43	Remarks / Other Obs:	that day. Checking with contractor's inspection record, the silt screen and silt curtain In view that the silt screen and silt curtain were in proper condition and nc odour nuisance was noted during monitoring, the exceedance was considered not related to Project works.
X_W354	13-Oct-12	Mid-Flood	WSD19	DO (mg/L)	4.81	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	9.98	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to contirm the exceedances. Checking with contractor's works on 13 Oct, type 2 dredging at Expo Drive East Bridge and trimming work at HKCEC water channel were conducted on that day.
				Suspended Solid	20.00	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen was in proper condition on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedances was considered not project related.
X_W355	13-Oct-12	Mid-Ebb	WSD21	DO (mg/L)	3.58	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	3.12	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to contirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 13 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	4.50	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen and silt curtain In view that the silt screen and silt curtain were in proper condition and nc odour nuisance was noted during monitoring, the exceedance was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Level	_imit Level	Follow-up action	
X_W356	13-Oct-12	Mid-Flood	WSD17	DO (mg/L)	5.69	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	10.00	8.04		Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 13 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	13.00	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W357	13-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	4.54	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	8.48	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 13 Oct, type 2 dredging at Expo Drive East Bridge and trimming work at HKCEC water channel were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	13.00	13.00	14.43	Remarks / Other Obs:	Since WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X_W358	15-Oct-12	Mid-Flood	WSD17	DO (mg/L)	6.34	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	8.14	8.04		Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works as 15. Oct replifiling at WOPD was associated as that day
				Suspended Solid	15.00	13.00	14.43	Remarks / Other Obs:	works on 15 Oct, rockfilling at WCR2 was conducted on that day. Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W359	15-Oct-12	Mid-Flood	WSD21	DO (mg/L)	4.07	3.66	3.28	Possible reason:	Possible in relation to cleaning of screen panels at WSD intake was recorded on 15 Oct 2012.
				Turbidity	4.02	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 15 Oct, rockfilling at WCR2 was conducted. Checking with the contractor's record, cleaning screen panel at WSD intake
				Suspended Solid	14.00	13.00	14.43	Remarks / Other Obs:	was conducted on that day. The exceedances was possibly due to cleaning of screen panels at the WSD intake. Materials from the cleaning of screen panels was unavoidably collected during monitoring. The exceedance was considered as not project related.
X_W360	15-Oct-12	Mid-Ebb	WSD21	DO (mg/L)	2.71	3.66	3.28	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	1.66	8.04	9.49	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checked with Contractor's work on 15 Oct, rockfilling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	12.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen and silt curtain were in proper condition, the exceedance was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W361	15-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	5.25	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	10.12	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to contirm the exceedances. The tidal was moving eastward. Checking with contractor's
									works on 15 Oct, dredging at Expo Drive East Bridge and trimming work at HKCEC water channel were conducted on that day. Checking with contractor's inspection record, the silt screen was in proper
				Suspended Solid	15.50	13.00	14.43	Remarks / Other Obs:	condition on that day. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.
X W362	17-Oct-12	Mid-Flood	WSD19	DO (mg/L)	5.32	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the wate
				Turbidity	12.50	8.04	9.49	Action taken / to be	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's
								taken:	works on 17 Oct, rockfilling of trimming work at HKCEC water channel was conducted on that day.
									Checking with contractor's inspection record, the silt screen was in proper
									condition on that day.
				Suspended Solid	13.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the
									marine work site were well below the Action level and the silt screen was in
									proper condition, the exceedances was considered not project related.
X_W363	17-Oct-12	Mid-Ebb	WSD21	DO (mg/L)	3.46	3.66	3.28	Possible reason:	Possible in relation to the low flow and low water depth during ebb tide
				Turbidity	3.49	8.04	9.49	Action taken / to be	Immediate repeated in-situ measurements had conducted to confirm the
								taken:	exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 17 Oct, rockfilling in WCR2 was conducted on
									that day.
									Checking with contractor's inspection record, the silt screen and silt curtain
				Suspended Solid	4.00	13.00	14 43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In
				Cuoponaca Cona	1.00	10.00	11.10		view that the silt screen and silt curtain were in proper condition and no
									odour was detected during monitoring, the exceedance was considered not
									related to Project works.
X_W364	20-Oct-12	Mid-Flood	WSD19	DO (mg/L)	5.18	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	10.88	8.04	0.40	Action taken / to be	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the
				rubluity	10.00	0.04	9.49	taken:	exceedances. Checking with contractor's works on 20 Oct, rockfilling at east
									bridge and HKCEC water channel were conducted on that day.
									Checking with contractor's inspection record, the silt screen was in proper
									condition on that day.
				Suspended Solid	16.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the
									marine work site were well below the Action level and the silt screen was in
									proper condition, the exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W365	20-Oct-12	Mid-Flood	WSD17	DO (mg/L)	5.76	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	11.35	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 20 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	16.00	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W366	22-Oct-12	Mid-Flood	WSD19	DO (mg/L)	4.73	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	10.70	8.04	9.49	Action taken / to be taken:	quality monitoring station Checking with contractor's works on 22 Oct, trimming at HKCEC water channel was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on 22 Oct 12. Reviewing the results at the monitoring stations nearer than WSD19, no exceedance was recorded.
				Suspended Solid	22.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was observed in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedances was considered not project related.
X_W367	22-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.25	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	2.91	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 22 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	20.00	13.00	14.43	Remarks / Other Obs:	Checking with contractor's inspection record, the silt screen and silt curtain In view that the silt screen and silt curtain were in proper condition and nc odour nuisance was noted during monitoring, the exceedance was considered not related to Project works.
X_W368	22-Oct-12	Mid-Flood	WSD17	DO (mg/L)	4.81	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	11.08	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 22 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	15.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W369	25-Oct-12	Mid-Flood	WSD17	DO (mg/L)	5.04	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water
				Turbidity	10.19	8.04	9.49	Action taken / to be taken:	quality monitoring station Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving westward. Confirmed with contractor's works on 25 Oct, rockfilling at WCR2 was conducted on that day.
				Suspended Solid	11.50	13.00	14.43	Remarks / Other Obs:	Since WSD17 was located at the upstream of the Project, the exceedance was considered not related to Proejct works.
X_W370	25-Oct-12	Mid-Flood	WSD21	DO (mg/L)	3.90	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.27	8.04	9.49	Action taken / to be taken:	Confirmed with contractor's works on 25 Oct, rockfilling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				Suspended Solid	13.50	13.00	14.43	Remarks / Other Obs:	In view that the silt screen and silt curtain were in proper condition, the exceedance was considered not related to Project works.



Ref no.	Date	Tidal	Location	Parameters (Unit)	Measure	Action Leve	Limit Level	Follow-up action	
X_W371	27-Oct-12	Mid-Ebb	WSD21	DO (mg/L)	4.40	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.34	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Confirmed with contractor's works on 27 Oct, filling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. Reviewing the results at the monitoring stations nearer than WSD21, no exceedance was recorded
				Suspended Solid	5.50	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedances was considered not project related.
X_W372	27-Oct-12	Mid-Flood	WSD21	DO (mg/L)	4.11	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.64	8.04		Action taken / to be taken:	Confirmed with contractor's works on 27 Oct, filling at WCR2 was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day. Reviewing the results at the monitoring stations nearer than WSD21, no exceedance was recorded.
				Suspended Solid	13.50	13.00	14.43	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt screen was in proper condition, the exceedances was considered not project related.
X_W373	27-Oct-12	Mid-Ebb	WSD19	DO (mg/L)	5.69	3.66	3.28	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.17	8.04		Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. The tidal was moving eastward. Checking with contractor's works on 27 Oct,rock filling at east bridge was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				Suspended Solid	12.00	13.00	14.43	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and WSD19 was located at the upstream of the Project, the exceedances was considered not project related.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D119	28-Sep-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	2.97	3.55	3	B Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 28 Sep 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D120	28-Sep-12	Mid Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.35	3.84	3.73	B Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 28 Sep 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D121	2-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	3.58	3.84	3.73	B Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 2 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
									Remarks / Other Obs.	related to Project works.
X_10D122	2-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.64	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 2 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D123	2-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.16	3.84	3.73	B Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 2 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D124	2-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	4.15	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 2 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D125	4-Oct-12	Mid-Flood	C7	Middle	DO (mg/L)	3.78	3.87	3.09	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. Checked with Contractor's works,
										TS2 seawall construction was conducted on that day. Checked with Contractor
										inspection's record, the silt screen and silt curtain were in proper condition.
									Remarks / Other Obs:	In view that the silt curtain and silt screen were in proper condition and no dredging
										work was conducted on that day. The exceedance was possibly to be caused from the
		1								accumulation of particles discharged from outfalls near monitoring station and not
				1		1	1	1		related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)		Action Level		Follow-up action	
X_10D126	4-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	3.40	3.84	3.73	Possible reason:	near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 4 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
X 10D127	4-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.42	4.26	2.64	Possible reason:	related to Project works. Possible in relation to the accumulation of organic particles discharged from culvert
A_10D127	4-001-12	IVIIG-FIOOD	EX-WPOWA SE	Middle	DO (mg/L)	3.42	4.20	3.01	POSSIBle reason.	near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 4 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D128	4-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.25	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
									Action taken / to be taken:	near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 4 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D129	4-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.37	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 4 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D130	6-Oct-12	Mid-Flood	C7	Middle	DO (mg/L)	3.56	3.87	3.09	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
									Action taken / to be taken:	
										Repeated the measurement to confirm the result. Checked with Contractor's works,
										TS2 seawall construction was conducted on that day. Checked with Contractor
									Remarks / Other Obs:	inspection's record, the silt screen and silt curtain were in proper condition. In view that the silt curtain and silt screen were in proper condition and no dredging
									Remarks / Other Obs.	work was conducted on that day. The exceedance was possibly to be caused from the
										accumulation of particles discharged from outfalls near monitoring station and not
										related to Project works.
X_10D131	6-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	3.36	3.84	3.73	Possible reason:	near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
	1									during the DO monitoring. Checked with Contract works, there was no marine works
	1									undertaken at ex-WPCWA on 6 Oct 2012.
	1								Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
1		1								related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level		Follow-up action	
X_10D132	6-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.53	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 6 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
X 10D133	8-Oct-12	Mid-Flood	Ex-WPCWA SW	Surface	DO (mg/L)	3.55	3.84	0.70	Possible reason:	related to Project works. Possible in relation to the accumulation of organic particles discharged from culvert
X_10D133	8-0ct-12	Mid-Flood	EX-WPCWA SW	Surface	DO (mg/L)	3.00	3.84	3.73	Possible reason:	near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
									Action taken / to be taken.	during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 8 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
									itematika / ether eba.	related to Project works.
X 10D134	8-Oct-12	Mid-Flood	Ex-WPCWA SE	Surface	DO (mg/L)	3.86	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
							-			near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 8 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D135	8-Oct-12	Mid-Flood	C7	Middle	DO (mg/L)	3.65	3.87	3.09	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
									Action taken / to be taken:	
										Repeated the measurement to confirm the result. Checked with Contractor's works,
										TS2 seawall construction was conducted on that day. Checked with Contractor
									Remarks / Other Obs:	inspection's record, the silt screen and silt curtain were in proper condition. In view that the silt curtain and silt screen were in proper condition and no dredging
									Remarks / Other Obs:	work was conducted on that day. The exceedance was possibly to be caused from the
										accumulation of particles discharged from outfalls near monitoring station and not
										related to Project works.
X 10D136	8-Oct-12	Mid-Flood	Ex-WPCWA SW	Bottom	DO (mg/L)	3.96	4.71	4.63	Possible reason:	· · · · · · · · · · · · · · · · · · ·
100100	0 000 12	inia i loca		Dottom	200 (0.000				near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
										undertaken at ex-WPCWA on 8 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
									Remarks / Other Obs.	related to Project works.
X 10D137	8-Oct-12	Mid-Flood	Ex-WPCWA SE	Bottom	DO (mg/L)	3.93	5.36	5 35	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
100101	0 000 12	inia i loca		Dottom	200 (0.00	5.50	0.00		near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted
										during the DO monitoring. Checked with Contract works, there was no marine works
1										undertaken at ex-WPCWA on 8 Oct 2012.
1	1		1						Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
1				1						related to Project works.



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_10D138	8-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.35	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 8 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D139	8-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.46	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 8 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D140	10-Oct-12	Mid-Flood	C6	Middle	DO (mg/L)	2.35	3.13	2	Possible reason: Action taken / to be taken:	Accumulation of particles discharged from outfalls near monitoring station Repeated the measurement to confirm the result. Checked with Contractor's works, TS2 seawall construction was conducted on that day. Checked with Contractor inspection's record, the silt curtain was in proper condition.
									Remarks / Other Obs:	In view that the silt screen was in proper condition and no dredging work was conducted on that day. The exceedance was possibly to be caused from the accumulation of particles discharged from outfalls near monitoring station and not related to Project works.
X_10D141	10-Oct-12	Mid-Flood	C7	Middle	DO (mg/L)	2.32	3.87	3.09	Possible reason:	Accumulation of particles discharged from outfalls near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. Checked with Contractor's works, TS2 seawall construction was conducted on that day. Checked with Contractor inspection's record, the silt screen and silt curtain were in proper condition.
									Remarks / Other Obs:	In view that the silt curtain and silt screen were in proper condition and no dredging work was conducted on that day. The exceedance was possibly to be caused from th accumulation of particles discharged from outfalls near monitoring station and not related to Project works.
X_10D142	10-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	2.33	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 10 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D143	10-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.68	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
									Action taken / to be taken:	near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 10 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D144	15-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.79	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 15 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



		Follow-up action	Limit Level	Action Level	Measured	Parameters (Unit)	Depth	Location	Tidal	Date	
particles discharged from culvert	Possible in relation to the accumulation of organic particles dischargenear monitoring station	Possible reason:	3.61	4.26	3.64	DO (mg/L)	Middle	Ex-WPCWA SE	Mid-Ebb	15-Oct-12	X_10D145
No odour nuisance was noted	Repeated the measurement to confirm the result. No odour nuisance	Action taken / to be taken:									
	during the DO monitoring. Checked with Contract works, there was										
	undertaken at ex-WPCWA on 15 Oct 2012.										
PCWA, it was considered not	In view that there was no marine activities at ex-WPCWA, it was con	Remarks / Other Obs:									
	related to Project works.										
particles discharged from culvert	Possible in relation to the accumulation of organic particles discharge	Possible reason:	3.73	3.84	3.32	DO (mg/L)	Surface	Ex-WPCWA SW	Mid-Ebb	17-Oct-12	X_10D146
	near monitoring station										
	Repeated the measurement to confirm the result. No odour nuisance	Action taken / to be taken:									
works, there was no marine works	during the DO monitoring. Checked with Contract works, there was										
	undertaken at ex-WPCWA on 17 Oct 2012.										
PCWA, it was considered not	In view that there was no marine activities at ex-WPCWA, it was con	Remarks / Other Obs:									
	related to Project works.										
particles discharged from culvert	Possible in relation to the accumulation of organic particles discharge	Possible reason:	3.61	4.26	3.26	DO (mg/L)	Surface	Ex-WPCWA SE	Mid-Ebb	17-Oct-12	X_10D147
	near monitoring station										
	Repeated the measurement to confirm the result. No odour nuisance	Action taken / to be taken:									
works, there was no marine works	during the DO monitoring. Checked with Contract works, there was										
	undertaken at ex-WPCWA on 17 Oct 2012.										
PCWA, it was considered not	In view that there was no marine activities at ex-WPCWA, it was con	Remarks / Other Obs:									
	related to Project works.	Describle as a set	0.00	0.07	0.15	DO (M. L.B.	07		47.0.1.40	X 40D440
	Accumulation of particles discharged from outfalls near monitoring s	Possible reason:	3.09	3.87	3.15	DO (mg/L)	Middle	C7	Mid-Ebb	17-Oct-12	X_10D148
	Repeated the measurement to confirm the result. Checked with Cor TS2 seawall construction was conducted on that day. Checked with	Action taken / to be taken:									
	inspection's record, the silt screen and silt curtain were in proper co										
were in proper condition.	inspection's record, the sitt screen and sitt curtain were in proper co										
proper condition and no dredging	In view that the silt curtain and silt screen were in proper condition a	Remarks / Other Obs:									
	work was conducted on that day. The exceedance was possibly to b										
	accumulation of particles discharged from outfalls near monitoring s										
3	related to Project works.										
particles discharged from culvert	Possible in relation to the accumulation of organic particles discharge	Possible reason:	4.63	4.71	3.82	DO (mg/L)	Bottom	Ex-WPCWA SW	Mid-Ebb	17-Oct-12	X_10D149
	near monitoring station										
	-	Action taken / to be taken:									
No odour nuisance was noted	Repeated the measurement to confirm the result. No odour nuisance										
	during the DO monitoring. Checked with Contract works, there was										
,											
PCWA, it was considered not	In view that there was no marine activities at ex-WPCWA, it was con	Remarks / Other Obs:									
,	related to Project works.										
	Beerline to the first of the second states of some the second states. It is the	Possible reason:	5.35	5.36	3.30	DO (mg/L)	Bottom	Ex-WPCWA SE	Mid-Ebb	17-Oct-12	X_10D150
particles discharged from culvert											
No odour puisonoo waa patad		Anting taling (to be tol									
		Action taken / to be taken:									
works, mere was no marine WORKS											
	In view that there was no marine activities at ex-WPCWA, it was con	Remarks / Other Obs:									
PCMA it was considered not											
/PCWA, particles No odou works, th	undertaken at ex-WPCWA on 17 Oct 2012. In view that there was no marine activities at ex-WPCWA, related to Project works. Possible in relation to the accumulation of organic particles near monitoring station Repeated the measurement to confirm the result. No odou during the DO monitoring. Checked with Contract works, th undertaken at ex-WPCWA on 17 Oct 2012.	Action taken / to be taken:	5.35	5.36	3.30	DO (mg/L)	Bottom	Ex-WPCWA SE	Mid-Ebb	17-Oct-12	X_10D150



Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)		Action Level		Follow-up action	
X_10D151	20-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	3.76	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
									Remarks / Other Obs:	undertaken at ex-WPCWA on 2 0 Oct 2012. In view that there was no marine activities at ex-WPCWA, it was considered not
X 10D152	20-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.77	4.26	3.61	Possible reason:	related to Project works. Possible in relation to the accumulation of organic particles discharged from culvert
	20 000 12	inia i loca		maalo	20 (mg/2)	•		0.01		near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 20 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not
										related to Project works.
X_10D153	20-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.56	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 2.0 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D154	20-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.19	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 20 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D155	22-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	2.80	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
									Remarks / Other Obs:	undertaken at ex-WPCWA on 22 Oct 2012. In view that there was no marine activities at ex-WPCWA, it was considered not
X 10D156	22-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.44	4.26	3.61	Possible reason:	related to Project works. Possible in relation to the accumulation of organic particles discharged from culvert
	22 000 12	inia i loca		inidalo	2 0 (g/2)			0.01		near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 22 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D157	22-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	4.00	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert
									Action taken / to be taken:	near monitoring station Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
									Remarks / Other Obs:	undertaken at ex-WPCWA on 22 Oct 2012. In view that there was no marine activities at ex-WPCWA, it was considered not
X_10D158	25-Oct-12	Mid-Flood	Ex-WPCWA SW	Middle	DO (mg/L)	3.56	3.84	3.73	Possible reason:	related to Project works. Possible in relation to the accumulation of organic particles discharged from culvert
										near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 25 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



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Ref no.	Date	Tidal	Location	Depth	Parameters (Unit)	Measured	Action Level		Follow-up action	
X_10D159	25-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	2.04	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 25 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D160	25-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	3.25	3.84	3.73	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works
									Remarks / Other Obs:	undertaken at ex-WPCWA on 25 Oct 2012. In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D161	25-Oct-12	Mid-Ebb	Ex-WPCWA SE	Middle	DO (mg/L)	3.18	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 25 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D162	27-Oct-12	Mid-Flood	C7	Middle	DO (mg/L)	3.08	3.87	3.09	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
									Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 27 Oct, TS2 seawall construction was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in
									Remarks / Other Obs:	proper condition on that day. No further DO exceedance was recorded in the next consecutive monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level and the silt curtains for filling works were in proper conditio and no odour was detected during monitoring, it was considered not related to Project works.
X_10D163	27-Oct-12	Mid-Flood	Ex-WPCWA SE	Middle	DO (mg/L)	3.72	4.26	3.61	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 27 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D164	27-Oct-12	Mid-Ebb	C7	Middle	DO (mg/L)	3.05	3.87	3.09	Possible reason: Action taken / to be taken:	Possible in relation to the low flow and low water depth during ebb tide Immediate repeated in-situ measurements had conducted to confirm the exceedances. No odour nuisance was noted during monitoring. Checking with contractor's works on 27 Oct, TS2 seawall construction was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
									Remarks / Other Obs:	No further DO exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition and no odour was detected during monitoring, the exceedance was considered not related to Project works.
X_10D165	27-Oct-12	Mid-Ebb	Ex-WPCWA SW	Middle	DO (mg/L)	2.89	3.84	3.73	Possible reason:	r ossible in relation to the accumulation of organic particles discharged non-curven
									Action taken / to be taken:	Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contract works, there was no marine works undertaken at ex-WPCWA on 27 Oct 2012.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.



Appendix 7.1

Complaint Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	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	come	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.	Í	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
		1-250702681)		Three construction plants were 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 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	Outcome	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.	 According to the RSS's record, there was no constru- works undertaken under the EP-356/2009 during concern time period. There was no abnormal real-time noise monitoring recorded in RTN1 - FEHD Hong Kong Transport Se Whitefield Depot which is next to the Victoria Centre. It is considered as invalid complaint under this Project 	the data
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. D the weekly site inspection on 7 and 17 June 2011, was no any odour impact detected in the site area. According to the site record, there was muddy discharged from the unknown source at upstrea Channel T during heavy rainstorm. No any site su runoff to the Channel T and out of site boundary observed in the inspection. In order to prevent muddy water washing out to the body under heavy rainstorm, a silt curtain was install the outfall of the channel by Contractor. ET confirmed the Resident Site Staff that a silt curtain was install the outfall of the channel to prevent muddy water wa out to the water body under heavy rainstorm. Bes regular cleaning of refuse in the channel has conducted by Contractor. A further site investigation on 28 June 2011 revealed no odour nuisance was detected at the upstream of the site and the site investigation on the site upstream of 	ater a of face was ater d at with d at hing des, een that
					 Channel T and no source of odour nuisance was identified at the upstream of channel T and no source of odour nuisance was identified at the source of onuisance was not related to the Project works. Although no source of odour nuisance was identified is the muddy water and dirt from the unknown sour upstream of Channel T may cause a potential smell or low tide and low water flow. Contractor was remind remove the silt curtain at the channel on non-rainy date to avoid the accumulation of the sediment and of the water channel. 	ified dour d at e at rring d to y so



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
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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 by the Contractor. 	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	 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. 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 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
400000	20/0/2012	Mr.Ho via hotline		A complaint regarding turbid	 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. 1) RSS notified ET on 21 August 2012 	Closed
120820	20/8/2012		The exit of Causeway Bay typhoon Shelter and lighthouse	appearance in water quality generated from dredging operation at the exit of CBTS and lighthouse from two barges respectively in construction sites of CBTS on 18 and 19 August 2012 between 3:00 and 10:00pm. The complainant requested a follow-up and reply from relevant department.	 ET confirmed with the Resident Site Staff that seawall blocks removal at north of TS1 and removal of amour rocks at tip of Eastern Breakwater for HY/2009/15 were conducted during the concerned period on 18 August 2012, and seawall blocks removal at north of TS1 during the concerned period on 19 August 2012. 	Ciuseu



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



Appendix 8.1

Construction Programme of Individual Contracts

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 21/9/10Dredging, 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 Seawall11 dTue 18/3/14Mobilization of plants1 d <t< td=""><td>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</td><td>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 & WCR496 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</td></t<>	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 & WCR496 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 (TS	S1)-temporary r	eclamation				
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12		TCBR1E (TS)- removal of te	mporary reclama	ation		
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(TS	64)temporary	reclamation				
165	1	TCBR1W(TS4)removal temporary reclamation	26	270CT13*	21NOV13			UT	CBR1W(TS4)re	moval tempora	arv reclamation	
CWAE											., ····	
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11	TPCWAE-dredg	ging+rockfill(pre	ep. for seawall)				
140	1	TPCWAEtemporary reclamation	77	27JAN11	13APR11	22. Dec 0127, OAU-14	temporary recla					
170	1	TPCWAEremoval temporary reclamation	28	28SEP13*	250CT13				CWAEremoval	temporary reci	amation	
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																						
		1 1																					
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 Marir	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																	
1075	Accpetance of Dredging MS	0	19MAR11		Accpetanc	e of Dredging	MS																
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		lographi	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 i i i i i i i 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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	20JAN11																					arly ba	
Data date 2	19DEC12 20JAN11					G	AMMON-LE	EADER .	v							Works	Schedu	le of Ma	rine Wor	rks for		Progress Critical b	
	05MAR11																		EP-356	/2009		Summar	y bar
© Primavera S		entral-Wan Chai By p	oass over MTR T	suen Wan Line																			estone point ilestone point
L	1																						

Activity Name 012 to DEC 2012 TRUCTION WORKS s Submission	Dur			.0 27 0	September 3 10 1	7 24	October 01 08 15 22
TRUCTION WORKS s Submission						· · · · · ·	
s Submission							
Concrete Ready Mix/Design Mix - Concrete Plant Trials & Approval	8	04-Aug-11 A	27-Sep-12			Cor	ncrete Ready Mix/Design Mix - Concrete P
Drainage Pipes & Materials - Procurement & Delivery	14	20-Jul-12 A	03-Oct-12				Drainage Pipes & Materials - Procur
Tunnel Structures Materials - Submission	21	19-Jul-12 A	10-Oct-12				Tunnel Structures Material
Tunnel Structures Materials - ER Review/Comment	28	11-Oct-12	07-Nov-12				
Tunnel Structures Materials - Resubmission	14	08-Nov-12	21-Nov-12				
Tunnel Structures Materials - ER Approval	21	22-Nov-12	12-Dec-12				
Bridge Bearing - ER Review/Comment	0	27-Jul-12 A	05-Sep-12 A		Bridge Bearing - ER	:	
Bridge Bearing - Resubmission	0	09-Aug-12 A	10-Sep-12 A		Bridge Beari	ng - Resubmissi	on
Bridge Bearing - ER Approval	19	11-Sep-12 A	08-Oct-12				Bridge Bearing - ER Approval
Bridge Bearing - Procurement & Delivery	195	09-Oct-12	21-Apr-13*				
ement / Shop Drawings							
MS Cut & Cover Tunnel ELS - Resubmission	14	13-Jul-12 A	03-Oct-12				MS Cut & Cover Tunnel ELS - Resu
MS Cut & Cover Tunnel ELS - ER Approval	14	07-Aug-12 A	17-Oct-12				MS Cut & Cover
MS Pre-cast Segment Launching - ER Review & Comment	28	20-Sep-12 A	17-Oct-12				MS Pre-cast Se
MS Pre-cast Segment Launching - Resubmission	28	18-Oct-12	14-Nov-12				
MS Pre-cast Segment Launching - ER Approval	28	15-Nov-12	12-Dec-12				
MS Stressing Tendons - ER Review & Comment	0	08-Jun-12 A	27-Aug-12 A	MS Stressing	Tendons - ER Rev	ew & Comment	
MS Stressing Tendons - Resubmission	14	08-Aug-12 A	03-Oct-12				MS Stressing Tendons - Resubmiss
MS Stressing Tendons - ER Approval	28	04-Oct-12	31-Oct-12				
MS Precasting of Bridge Segment & Beam - Resubmission	9	02-Apr-12 A	28-Sep-12			M	S Precasting of Bridge Segment & Beam
MS Precasting of Bridge Segment & Beam - ER Approval	20	12-Apr-12 A	09-Oct-12				MS Precasting of Bridge Se
s Design and Build Items							
Temp Bridge "TA" Design - Prep & Submit	60	16-Dec-11 A	18-Nov-12				
Temp Bridge "TA" Design - ER review and comment	28	19-Nov-12	16-Dec-12				
Int. Noise Enclosure Structural Design - Submission	60	20-Sep-12*	18-Nov-12				
Int. Noise Enclosure Structural Design - ER Review/Resubmission	36	19-Nov-12	24-Dec-12				
Noise Barrier Design Structural Design - Submission	60	08-Oct-12*	06-Dec-12				
Noise Barrier Design Structural Design - ER Review/Resubmission	36	07-Dec-12	11-Jan-13				
Perm. Noise Enclosure Structural Design - Submission	60	20-Sep-12	18-Nov-12				
Perm. Noise Enclosure Structural Design - ER Review/Resubmission	36	19-Nov-12	24-Dec-12				
Cut & Cover Tunnel ELS Design - ER Review & Resubmission	18	14-Jun-12 A	07-Oct-12				Cut & Cover Tunnel ELS Desig
Cut & Cover Tunnel ELS Design - ER Approval	21	08-Oct-12	28-Oct-12				
Cut & Cover Tunnel ELS Fabrication	60	29-Oct-12	27-Dec-12				
nent/Beam Off-site Precasting							
Segment/Beam - Mould Fabrication - Type T	30	14-May-12 A	19-Oct-12				Segment/Bea
Segment/Beam - Precasting of 1st Segment / Trial Segment	10	20-Aug-12 A	29-Sep-12				Segment/Beam - Precasting of 1st Segme
Segment/Beam - Geometry Control Design Approval	24	14-Dec-11 A	13-Oct-12				Segment/Beam - Geo
Ready for Mass Production of Bridge Segment/Beam	0		15-Oct-12*				♦ Ready for Mass Pro
Bridge D3 Precast Segment Casting Pier D09 (17 segments)	35	15-Oct-12	19-Nov-12				
Bridge D3 Precast Segment Casting Pier D08 (8 segments)	17	19-Nov-12	06-Dec-12				
Bridge D3 Precast Segment Casting Pier D10 (17 segments)	35	19-Nov-12	24-Dec-12				
						1	
Effort			Cont	act HY/200	9/19		3MRP
							3MRP
	MS Cut & Cover Tunnel ELS - ER Approval MS Pre-cast Segment Launching - ER Review & Comment MS Pre-cast Segment Launching - Resubmission MS Pre-cast Segment Launching - ER Approval MS Stressing Tendons - ER Review & Comment MS Stressing Tendons - ER Review & Comment MS Stressing Tendons - Resubmission MS Stressing Tendons - ER Approval MS Precasting of Bridge Segment & Beam - Resubmission MS Precasting of Bridge Segment & Beam - Resubmission MS Precasting of Bridge Segment & Beam - ER Approval S Design and Build Items Temp Bridge "TA" Design - Prep & Submit Temp Bridge "TA" Design - Prep & Submit Int. Noise Enclosure Structural Design - Submission Int. Noise Enclosure Structural Design - ER Review/Resubmission Noise Barrier Design Structural Design - ER Review/Resubmission Noise Barrier Design Structural Design - ER Review/Resubmission Perm. Noise Enclosure Structural Design - ER Review/Resubmission Cut & Cover Tunnel ELS Design - ER Review & Resubmission Cut & Cover Tunnel ELS Design - ER Review & Resubmission Cut & Cover Tunnel ELS Design - ER Approval Cut & Cover Tunnel ELS Fabrication nent/Beam Off-site Precasting Segment/Beam - Mould Fabrication - Type T Segment/Beam - Receintly Control Design Approval Ready for Mass Production of Bridge Segment/Beam Bridge D3 Precast Segment Casting Pier D09 (17 segments) Bridge D3 Precast Segment Casting Pier D10 (17 segments) Effort rt	MS Cut & Cover Tunnel ELS - ER Approval 14 MS Pre-cast Segment Launching - ER Review & Comment 28 MS Pre-cast Segment Launching - ER Approval 28 MS Stressing Tendons - ER Review & Comment 0 MS Stressing Tendons - ER Approval 28 MS Stressing Tendons - ER Approval 28 MS Stressing Tendons - Resubmission 14 MS Stressing Tendons - ER Approval 28 MS Precasting of Bridge Segment & Beam - Resubmission 9 MS Precasting of Bridge Segment & Beam - Resubmission 9 MS Precasting of Bridge Segment & Beam - ER Approval 20 S Design and Build Hems 20 Temp Bridge "TA" Design - Prep & Submit 60 Temp Bridge "TA" Design - Prep & Submitsion 60 Int. 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Noise Enclosure Structural Design - ER Review/Resubmission 12 04 Cover Tunnel ELS Design - ER Review/Resubmission 13 14-Jun-12 A 14 Gover Tunnel ELS Design - ER Review/Resubmission 14 14 Jun-12 A 15 04 Cover Tunnel ELS Design - ER Review/Resubmission 16 0 29-Oct-12 16 Read Off-Site Precasting 17 09-Nov-12 18 ridge D3 Precast Segment Casting Pier D09 (17 segments) 13 19-Nov-12 Effort 14 15 19-Nov-12 15 1	MS Cut & Cover Tunnel ELS - ER Approval 14 07-Aug-12A 17-Oct-12 MS Pre-cast Segment Launching - ER Review & Comment 28 20-Sep-12A 17-Oct-12 MS Pre-cast Segment Launching - Resubmission 28 18-Oct-12 14-Nov-12 MS Pre-cast Segment Launching - ER Approval 28 15-Nov-12 12-Dec-12 MS Stressing Tendons - ER Review & Comment 0 09-Jun-12A 27-Aug-12A MS Stressing Tendons - Resubmission 14 08-Aug-12A 03-Oct-12 MS Precasting of Bridge Segment & Beam - Resubmission 9 02-Apr-12A 09-Oct-12 MS Precasting of Bridge Segment & Beam - Resubmission 9 02-Apr-12A 09-Oct-12 Stressing Tam Bridge "TA" Design - Prep & Submit 60 16-Dec-11A 18-Nov-12 Temp Bridge "TA" Design - ER review and comment 28 19-Nov-12 14-Dec-12 Int. 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	Remaining Work

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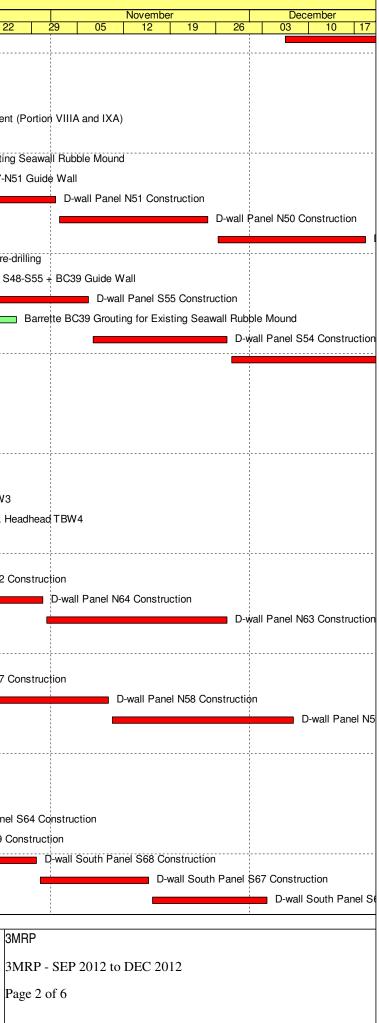
Critical Remaining Work Milestone

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22	29	05	12	19	26	03	10	17
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5001115510	1	Stressing	Tendons	- FR Annr	oval			
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Bridge Seg	i i		ER Approv	val				
	-			Temp B	ridge "T/	A" Design	- Prep & S	ubmit Ter
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3MRP	- SFP	2012 to	DEC 20	12				
		2012 10	20					
Page 1	ot 6							

vity ID	Activity Name	Rem	Start	Finish	Septembe	r	2012 October
		Dur			0 27 03 10	17 24	01 08 15 22
0250-1600.07	Bridge D3 Precast Segment Casting Pier D11 (17 segments)	35	06-Dec-12	10-Jan-13			
	2 & 2A OF THE WORKS						
	ver Tunnel Ch 4855-4932 (APS Footprint)						
05.1.1 - D-Wall C	onstruction						
0511-1020	Site Establishment (Portion VIIIA and IXA)	18	30-Jul-12 A	11-Oct-12			Site Establishment
0511-1030	D-wall N47-N51 Pre-drilling	2	30-Jul-12 A	21-Sep-12		—	7-N51 Pre-drilling
0511-1035	D-wall N47-N51 Grouting for Existing Seawall Rubble Mound	7	20-Aug-12 A	29-Sep-12		-	D-wall N47-N51 Grouting for Existing
0511-1040	D-wall N47-N51 Guide Wall	15	27-Sep-12	15-Oct-12		_	D-wall N47-N5
0511-1051	D-wall Panel N51 Construction	20	09-Oct-12	01-Nov-12			
0511-1052	D-wall Panel N50 Construction	20	02-Nov-12	24-Nov-12			
0511-1053	D-wall Panel N49 Construction	20	26-Nov-12	18-Dec-12			
0511-1060	D-wall S49-S55 + BC39 Pre-drilling	12	17-Aug-12 A	04-Oct-12			D-wall S49-S55 + BC39 Pre-d
0511-1065	D-wall S48-S55 + BC39 Guide Wall	12	05-Oct-12	18-Oct-12			D-wall S48
0511-1071	D-wall Panel S55 Construction	15	19-Oct-12	06-Nov-12			
0511-1075	Barrette BC39 Grouting for Existing Seawall Rubble Mound	6	19-Oct-12	26-Oct-12			
0511-1072	D-wall Panel S54 Construction	18	07-Nov-12	27-Nov-12			
0511-1073	D-wall Panel S53 Construction	24	28-Nov-12	26-Dec-12			
5.2 - Cut & Co	ver Tunnel Ch 4932-5149						
05.2.1 - D-Wall C	onstruction						
0521-1990.64	D-wall South Panel S80	0	22-Aug-12 A	28-Aug-12 A	D-wall South Panel S80		
0521-1945.20	Temp Bulk Headhead TBW1	0	16-Aug-12 A	01-Sep-12 A	Temp Bulk Headhead TE	3 <mark>W</mark> 1	
0521-1945.10	Temp Bulk Headhead TBW5	3	17-Sep-12 A	22-Sep-12		Temp Bu	Ik Headhead TBW5
0521-1945.25	Temp Bulk Headhead TBW2	0	03-Sep-12 A	13-Sep-12 A	Temp E	3 <mark>u</mark> lk Headhead T	FBW2
0521-1945.15	Temp Bulk Headhead TBW3	6	27-Sep-12	04-Oct-12	_	_	Temp Bulk Headhead TBW3
0521-1945.30	Temp Bulk Headhead TBW4	6	09-Oct-12	15-Oct-12	_		Temp Bulk He
0521-1830.30	D-wall Panel N66 Construction	0	11-Aug-12 A	07-Sep-12 A	D-wall Panel N6	6 Construction	1
0521-1830.35	D-wall Panel N65 Construction	0	10-Aug-12 A	19-Sep-12 A		D-wall Panel N	V65 Construction
0521-1835.55	D-wall Panel N62 Construction	18	28-Aug-12 A	11-Oct-12			D-wall Panel N62 Co
0521-1835.15	D-wall Panel N64 Construction	15	12-Oct-12	30-Oct-12	_		
0521-1835.16	D-wall Panel N63 Construction	24	31-Oct-12	27-Nov-12	_		
0521-1835.20	D-wall Panel N60 Construction	0	03-Aug-12 A	22-Aug-12 A	D-wall Panel N60 Construction		
0521-1835.65	D-wall Panel N56 Construction	0	16-Aug-12 A	01-Sep-12 A	D-wall Panel N56 Constr	uction	
0521-1835.25	D-wall Panel N57 Construction	18	20-Sep-12	11-Oct-12	_		D-wall Panel N57 Co
0521-1835.70	D-wall Panel N58 Construction	24	12-Oct-12	09-Nov-12	_		
0521-1835.30	D-wall Panel N59 Construction	24	12 Oot 12 10-Nov-12	07-Dec-12	_		
0521-1835.71	D-wall Panel N52 Construction	6	03-Sep-12 A	26-Sep-12	_	D-v	wall Panel N52 Construction
0521-1000.41	D-wall South Panel S70	0	01-Aug-12 A	20-Aug-12 A	vall South Panel S70		
			•	•	D-wall South Panel S63 Constructio	n	
0521-1990.35	D-wall South Panel S63 Construction	0	08-Aug-12 A	24-Aug-12 A	D-wall South Panel		'n
0521-1990.37	D-wall South Panel S62 Construction	0	10-Aug-12 A	04-Sep-12 A			D-wall South Panel
0521-1990.38	D-wall South Panel S64 Construction	18	01-Sep-12 A	11-Oct-12			D-wall South Panel S69 Co
	D-wall South Panel S69 Construction	14	23-Aug-12 A	06-Oct-12			D-wall South Panel S69 Co
0521-1990.69		18	08-Oct-12	29-Oct-12			
0521-1990.65	D-wall South Panel S68 Construction						
	D-wall South Panel S67 Construction D-wall South Panel S66 Construction D-wall South Panel S66 Construction	15	30-Oct-12 16-Nov-12	15-Nov-12 03-Dec-12			

- ctual Level of Effort
- Actual Work Remaining Work
- Critical Remaining Work
- Milestone

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)



vity ID	Activity Name	Rem	Start	Finish				Contorrel	hor						2012 er	
		Dur			0	27	03	Septemb	ber 17		24	01	08	October 15	22	
0521-1990.68	D-wall South Panel S65 Construction	21	04-Dec-12	28-Dec-12				-						•	• • •	
0521-1990.75	D-wall South Panel S56 Construction	9	20-Sep-12	29-Sep-12										el S56 Const		
0521-1990.71	D-wall South Panel S57 Construction	18	02-Oct-12	22-Oct-12											D-wall Se	
0521-1990.72	D-wall South Panel S58 Construction	24	24-Oct-12	20-Nov-12												
0521-1990.73	D-wall South Panel S59 Construction	30	21-Nov-12	26-Dec-12												
0521-1990.31	D-wall South Panel S108	15	20-Oct-12	07-Nov-12												
0521-1990.32	D-wall South Panel S107	15	12-Nov-12	28-Nov-12												
0521-1990.76	D-wall South Panel N100 Construction	15	22-Nov-12	08-Dec-12												
0521-1935	Deliver Sheet Piles	12	26-Sep-12*	10-Oct-12									De	eliver Sheet	Piles	
0521-1938	Sheet Pile Pre-boring at Seawall Rubble Mound	18	08-Oct-12	29-Oct-12	_											
0521-1940	Construct Temporary End Wall (Sheet Piles)	48	11-Oct-12	06-Dec-12	_											
05.2.2 - Barrette C	Construction															
0522-2210.58	Barrette Pile BC55	8	20-Aug-12 A	28-Sep-12							📕 Ba	rrette Pi	le BC55			
0522-2381	Barrette BC54 Guide Wall & Grouting	9	05-Oct-12	15-Oct-12	_									Barrette	e BC54 Gui	
0522-2210.54	Barrette Pile BC54	12	16-Oct-12	30-Oct-12	_											
0522-2210.71	Barrette Pile BC67	12	01-Nov-12	14-Nov-12	_											
0522-2210.52	Barrette Pile BC52	12	31-Oct-12	13-Nov-12												
0522-2210.50	Barrette Pile BC50	12	14-Nov-12	27-Nov-12												
0522-2210.51	Barrette Pile BC51	12	28-Nov-12	11-Dec-12	-											
0522-2310	Barrette BC45-BC49 Construction	34	12-Dec-12	22-Jan-13	-											
05.3 - Box Culve	rt T1															
0530-3033	Bay 4 - Base Sab	0	07-Aug-12 A	23-Aug-12 A	Ва	y 4 - Ba\$	e Sab									
0530-3321	Bay 3 - Base Slab	0	23-Aug-12 A	07-Sep-12 A		······	Ba	ay 3 - Base	Slab							
0530-3322	Bay 4 - Wall & Roof Slab	6	27-Aug-12 A	26-Sep-12	-						Bay 4	- Wall 8	& Roof SI	lab		
0530-3323	Bay 3 - Wall & Roof Slab	8	27-Sep-12	06-Oct-12	-								Bay 3 - \	Wall & Roof	Slab	
0530-3040	Bay 3 and 4 - Backfilling	14	08-Oct-12	24-Oct-12	_										Bay 3	
0530-3050	Bay 3 and 4 - Reinstatement	12	25-Oct-12	07-Nov-12	_											
0530-3061	Bay 2 - Implement TTA	7	08-Nov-12	15-Nov-12					•••••							
0530-3060	Bay 2 - Demolish Road Pavement	2	16-Nov-12	17-Nov-12	_											
0530-3065	Bay 2 - Install Sheet Piles	7	19-Nov-12	26-Nov-12	-											
0530-3071	Bay 2 - ELS + Blinding	10	27-Nov-12	07-Dec-12	_											
0530-3072	Bay 2 - Base Slab	6	08-Dec-12	14-Dec-12	-											
0530-3200	900 dia. Storm Drain - Sheetpiles + ELS (S100 to S107)	0	12-Jun-12 A	03-Sep-12 A		·····	900 dia	. Storm Drai	n - Sh	neetpile	es + ELS	S (S100	to S107)			
0530-3204	900 dia. Storm Drain - Laving of Pipe (S100 to S107)	0	04-Sep-12 A	17-Sep-12 A	-				900 d	dia. Sto	orm Drai	n - Layin	ig of Pipe	e (S100 to S	5107)	
0530-3205	900 dia. Storm Drain - Construct Manholes (S100 to 107)	14	19-Sep-12 A	06-Oct-12	-								900 dia.	Storm Drair	n - Construc	
0530-3208	900 dia. Storm Drain - Backfill + Extract Sheetpiles (S100 to S107)	11	08-Oct-12	19-Oct-12	-									90	00 dia. Stor	
0530-3230	1500 dia. Storm Drain - Sheetpiles (S95 to S99)	0	01-Aug-12 A	03-Sep-12 A			1500 di a	a. Storm Dra	ain - S	Sheetpi	iles (S95	5 to S99))			
0530-3232	1500 dia. Storm Drain - ELS + Blinding (S95 to S99)	6	04-Sep-12 A	26-Sep-12							1500	dia. Stor	m Drain	- ELS + Blir	nding (S95	
0530-3250	1500 dia. Storm Drain - Laying of Pipe (S95 to S99)	6	27-Sep-12	04-Oct-12	_							15	00 dia. S	Storm Drain -	- Laying of F	
0530-3255	1500 dia. Storm Drain - Construct Manhole (S95 to S99)	12	05-Oct-12	18-Oct-12	-										00 dia. Stori	
0530-3324	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S95 to S99)	10	19-Oct-12	31-Oct-12	-											
0530-3300	1500 dia. Storm Drain - Sheetpiles + ELS (S89 to S94)	15	01-Nov-12	17-Nov-12	-											
0530-3302	1500 dia. Storm Drain - Laving of Pipe (S89 to S94)	6	19-Nov-12	24-Nov-12												
5000 000E			26-Nov-12	08-Dec-12	-											
0530-3305	1500 dia. Storm Drain - Construct Manhole (S89 to S94)	12														

Actual Level of Effort

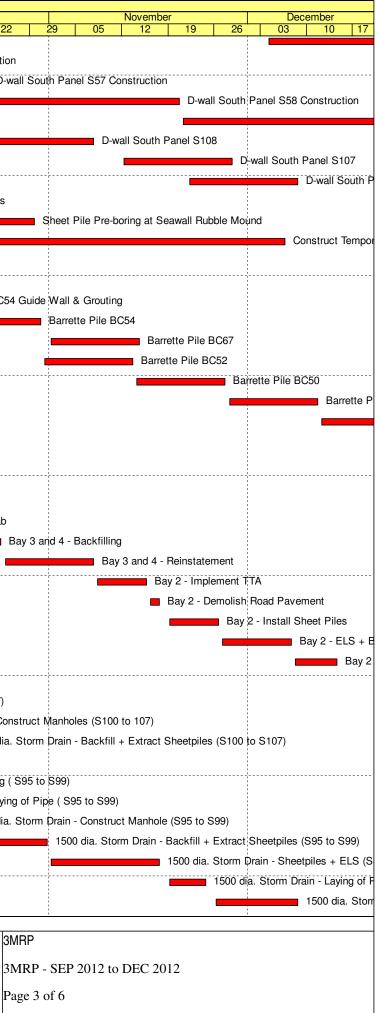
Actual Work

Remaining Work

Critical Remaining Work

Milestone

Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)



	Activity Name	Rem	Start	Finish			Septembe	r			2012 October				
		Dur		2	0 27	03			24	01	08	15	22		
0530-3308	1500 dia. Storm Drain - Backfill + Extract Sheetpiles (S89 to S94)	9	10-Dec-12	19-Dec-12		•						•			
0530-3310	1500 dia. Storm Drain - Sheetpiles + ELS (S83 to S89)	12	19-Nov-12	01-Dec-12											
0530-3325	1500 dia. Storm Drain - Laying of Pipe (S83 to S89)	6	03-Dec-12	08-Dec-12											
0530-3326	1500 dia. Storm Drain - Construct Manhole (S83 to S89)	12	10-Dec-12	22-Dec-12											
0530-3320	1500 dia. Temp Steel Pipe - Site Clearance + Sheet Piling	15	17-Sep-12 A	08-Oct-12							1500 c	lia. Temp	Steel Pipe - S		
0530-3338	1500 dia. Temp Steel Pipe - ELS	12	09-Oct-12	22-Oct-12									1 500 dia.		
0530-3348	1500 dia. Temp Steel Pipe - Pipe Laying	12	24-Oct-12	06-Nov-12											
0530-3358	1500 dia. Temp Steel Pipe - Connect to Existing Box Culvert	18	07-Nov-12	27-Nov-12											
06 - SECTION	3 OF THE WORKS														
06.2 - Box Culve	ert U1														
0620-2358	U1 Pre-bored H-pile Test Set-up	0	06-Aug-12 A	08-Sep-12 A		(J1 Pre-bored I	H-pile Test	Set-up						
0620-2359	U1 Pre-bored H-pile Load Test	0	10-Sep-12 A	13-Sep-12 A			U1 Pre	-bored H-pil	le Load ⁻	Test					
0620-2390	U1 Bay 5 to 8 Sheet Piles + ELS	21	30-Jul-12 A	15-Oct-12								🗖 U1 Ba	y 5 to 8 Shee		
0620-2400	U1 Construct Bay 6	24	16-Oct-12	13-Nov-12				-							
0620-2410	U1 Construct Bay 7	24	31-Oct-12	27-Nov-12											
0620-2420	U1 Construct Bay 8	24	14-Nov-12	11-Dec-12											
0620-2430	U1 Construct Bay 5	24	28-Nov-12	26-Dec-12											
0620-2480	U1 Bay 11 and 12 Sheetpiles + ELS	24	16-Oct-12	13-Nov-12											
0620-2490	U1 Construct Bay 12	24	14-Nov-12	11-Dec-12				-							
0620-2500	U1 Construct Bay 11	24	28-Nov-12	26-Dec-12											
10 - SECTION	X OF THE WORKS														
	es (Bridge D, E and F)														
10.1.1 - Marine Pi															
Pier F03 to F15								-							
1011-1750.10	Pier F3 Dolphin Socketed H-Pile 1	3	16-Aug-12 A	22-Sep-12				Pier	F3 Dolp	hin Sock	eted H-F	Pile 1			
1011 1/00.10		U U	io nug i z n												
1011-1750 20	Pier F3 Dolphin Socketed H-Pile 2	5	17-Aug-12 A						Pier F3	Dolphin S	Socketed	d H-Pile 2			
1011-1750.20	Pier F3 Dolphin Socketed H-Pile 2 Pier F3 Dolphin Socketed H-Pile 3	5	17-Aug-12 A	25-Sep-12					1	Dolphin S r F3 Dolph					
1011-1750.30	Pier F3 Dolphin Socketed H-Pile 3	8	18-Aug-12 A	25-Sep-12 28-Sep-12					1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3	8	18-Aug-12 A 04-Oct-12	25-Sep-12 28-Sep-12 10-Oct-12					1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam	8 6 18	18-Aug-12 A 04-Oct-12 04-Oct-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12					1	r F3 Dolph	hin Socł	eted H-P	ile 3		
1011-1750.30 1011-1990 1011-1995 1011-2150	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction	8 6 18 18	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12					1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction	8 6 18 18 12	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12					1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction F3 Crosshead Construction + Bearing	8 6 18 18 12 24	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12		ier E4 Dolr	hin Sockated		1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction F3 Crosshead Construction + Bearing Pier F4 Dolphin Socketed H-Pile 1	8 6 18 18 12 24 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A			ohin Socketed	H-Pile 1	1	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction F3 Crosshead Construction + Bearing Pier F4 Dolphin Socketed H-Pile 1 Pier F4 Dolphin Socketed H-Pile 2	8 6 18 18 12 24 0 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A		4 Dolphin	Socketed H-P	H-Pile 1 ile 2	Pier	r F3 Dolph	hin Socł	eted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction F3 Crosshead Construction + Bearing Pier F4 Dolphin Socketed H-Pile 1 Pier F4 Dolphin Socketed H-Pile 2 Pier F4 Dolphin Socketed H-Pile 3	8 6 18 18 12 24 0 0 0 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A		4 Dolphin		H-Pile 1 ile 2	Pier	r F3 Dolph	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2000	Pier F3 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F3 Fabrication of Marine Pile Cap Cofferdam F3 Pile Cap Construction F3 Pier/Column Construction F3 Crosshead Construction + Bearing Pier F4 Dolphin Socketed H-Pile 1 Pier F4 Dolphin Socketed H-Pile 2 Pier F4 Dolphin Socketed H-Pile 3 Dismantle Piling Platform at Pier F4	8 6 18 18 12 24 0 0 0 0 0 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12		4 Dolphin	Socketed H-P	H-Pile 1 ile 2	Pier	r F3 Dolph	hin Sock	teted H-P	ile 3 ling Platform a		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2000 1011-2180	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap Construction	8 6 18 18 12 24 0 0 0 0 0 0 0 6 18	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12		4 Dolphin	Socketed H-P	H-Pile 1 ile 2	Pier	r F3 Dolph	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2000 1011-2180 1011-2190	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column Construction	8 6 18 18 12 24 0 0 0 0 0 6 18 18 12	18-Aug-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12		4 Dolphin	Socketed H-P	H-Pile 1 ile 2	Pier	r F3 Dolph	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2000 1011-2180 1011-2190 1011-2200	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Column ConstructionF4 Pier/Column Construction	8 6 18 18 12 24 0 0 0 0 0 0 0 0 18 18 12 24	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12		4 Dolphin 3	Socketed H-P 4 Dolphin Soc	H-Pile 1 ile 2 keted H-Pil	Pier	r F3 Dolph	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2180 1011-2190 1011-2190 1011-2200 1011-1810.10	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Column Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pier Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Solumn ConstructionF4 Crosshead Construction + BearingPier F5 Dolphin Socketed H-Pile 1	8 6 18 18 12 24 0 0 0 0 0 0 0 0 0 18 12 24 0	18-Aug-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 18-Jul-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 04-Sep-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 10-Sep-12 A		4 Dolphin 3	Socketed H-P 4 Dolphin Soc	H-Pile 1 ile 2 keted H-Pil	le 3	ile 1	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2180 1011-2180 1011-2190 1011-2190 1011-2200 1011-1810.10 1011-1810.20	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Column ConstructionF4 Pier/Solumn ConstructionF4 Pier/Solumn ConstructionF4 Pier/Solumn ConstructionF4 Crosshead Construction + BearingPier F5 Dolphin Socketed H-Pile 3	8 6 18 18 12 24 0 0 0 0 0 0 0 0 18 18 12 24 0 0 0 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 18-Jul-12 A 19-Jul-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 10-Sep-12 A 17-Sep-12 A		4 Dolphin 3	Socketed H-P 4 Dolphin Soc 9 Pier F5 Dol	H-Pile 1 ile 2 keted H-Pil phin Socke	e 3 Ie 3 Ie H-Pi	ile 1 keted H-F	hin Sock	teted H-P	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2180 1011-2180 1011-2190 1011-2190 1011-2200 1011-1810.10 1011-1810.20 1011-1810.40	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Column Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Soluphin Socketed H-Pile 1Pier F5 Dolphin Socketed H-Pile 3Pier F5 Dolphin Socketed H-Pile 5	8 6 18 18 12 24 0 0 0 0 0 0 0 0 0 18 12 24 0	18-Aug-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12 18-Jul-12 A 19-Jul-12 A 17-Jul-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 10-Sep-12 A 17-Sep-12 A 13-Sep-12 A		4 Dolphin 3	Socketed H-P 4 Dolphin Soc 9 Pier F5 Dol	H-Pile 1 ile 2 keted H-Pil phin Socke ier F5 Dolp	Pier	ile 1 keted H-F H-Pile 5	hin Sock	nantle Pi	ile 3 ling Platform a Fabri		
1011-1750.30 1011-1990 1011-1995 1011-2150 1011-2160 1011-2170 1011-1850.10 1011-1850.20 1011-1850.30 1011-2180 1011-2180 1011-2190 1011-2190 1011-2200 1011-1810.10 1011-1810.20	Pier F3 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F3Fabrication of Marine Pile Cap CofferdamF3 Pile Cap ConstructionF3 Pier/Column ConstructionF3 Crosshead Construction + BearingPier F4 Dolphin Socketed H-Pile 1Pier F4 Dolphin Socketed H-Pile 2Pier F4 Dolphin Socketed H-Pile 3Dismantle Piling Platform at Pier F4F4 Pile Cap ConstructionF4 Pier/Column ConstructionF4 Pier/Column ConstructionF4 Pier/Solumn ConstructionF4 Pier/Column ConstructionF4 Pier/Solumn ConstructionF4 Pier/Solumn Construction + BearingPier F5 Dolphin Socketed H-Pile 1Pier F5 Dolphin Socketed H-Pile 3	8 6 18 18 12 24 0 0 0 0 0 0 0 0 18 18 12 24 0 0 0 0	18-Aug-12 A 04-Oct-12 04-Oct-12 26-Oct-12 16-Nov-12 25-May-12 A 04-Jun-12 A 25-Jun-12 A 04-Oct-12 26-Oct-12 16-Nov-12 30-Nov-12 18-Jul-12 A 19-Jul-12 A	25-Sep-12 28-Sep-12 10-Oct-12 25-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 31-Aug-12 A 28-Aug-12 A 04-Sep-12 A 10-Oct-12 15-Nov-12 29-Nov-12 28-Dec-12 10-Sep-12 A 17-Sep-12 A		4 Dolphin 3	Socketed H-P 4 Dolphin Soc 9 Pier F5 Dol	H-Pile 1 ile 2 keted H-Pil phin Socke ier F5 Dolp	eted H-Pi hin Socketed Dolphin	ile 1 keted H-F H-Pile 5	hin Sock	nantle Pi	ile 3 ling Platform a Fabri		

Remaining Level of Effort	Contract HY/2009/19	3MF
Actual Level of Effort		
Actual Work	Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)	3MI
Remaining Work		Daa
Critical Remaining Work		Page
♦ Milestone		

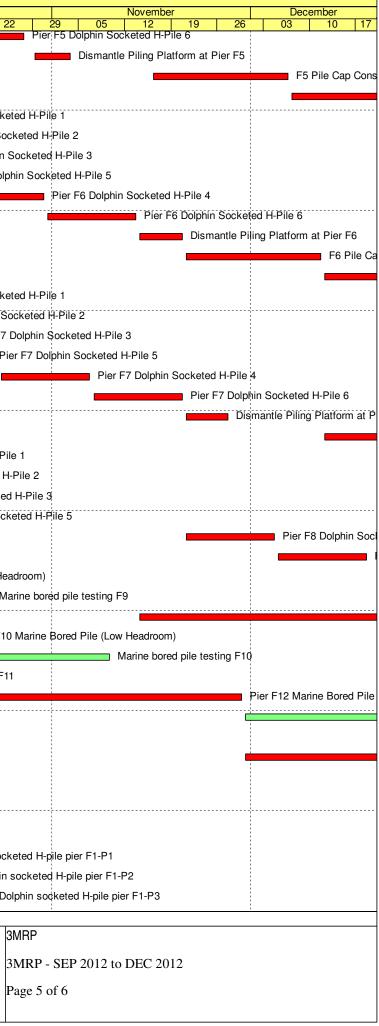


vity ID	Activity Name	Rem	Start	Finish			September			2 October	2012
		Dur			0 27	03	10 17	24	01	08 15	22
1011-1810.60	Pier F5 Dolphin Socketed H-Pile 6	12	13-Oct-12	27-Oct-12							Pi
1011-2010	Dismantle Piling Platform at Pier F5	6	29-Oct-12	03-Nov-12							
1011-2210	F5 Pile Cap Construction	18	16-Nov-12	06-Dec-12							
1011-2220	F5 Pier/Column Construction	12	07-Dec-12	20-Dec-12							
1011-1790.10	Pier F6 Dolphin Socketed H-Pile 1	15	24-Aug-12 A	08-Oct-12						Pier F6 Dolphir	
1011-1790.20	Pier F6 Dolphin Socketed H-Pile 2	17	24-Aug-12 A	10-Oct-12							ohin Socketed
1011-1790.30	Pier F6 Dolphin Socketed H-Pile 3	19	25-Aug-12 A	12-Oct-12							Dolphin Socket
1011-1790.40	Pier F6 Dolphin Socketed H-Pile 5	21	25-Aug-12 A	15-Oct-12						Pier	F6 Dolphin So
1011-1790.50	Pier F6 Dolphin Socketed H-Pile 4	12	16-Oct-12	30-Oct-12							
1011-1790.60	Pier F6 Dolphin Socketed H-Pile 6	12	31-Oct-12	13-Nov-12							
1011-2020	Dismantle Piling Platform at Pier F6	6	14-Nov-12	20-Nov-12							
1011-2240	F6 Pile Cap Construction	18	21-Nov-12	11-Dec-12							
1011-2250	F6 Pier/Column Construction	12	12-Dec-12	26-Dec-12							
1011-1910.10	Pier F7 Dolphin Socketed H-Pile 1	15	20-Sep-12	08-Oct-12			-			Pier F7 Dolphir	
1011-1910.20	Pier F7 Dolphin Socketed H-Pile 2	18	20-Sep-12	11-Oct-12						Pier F7 Do	olphin Sockete
1011-1910.30	Pier F7 Dolphin Socketed H-Pile 3	21	24-Sep-12	18-Oct-12						F	Pier F7 Dolphir
1011-1910.40	Pier F7 Dolphin Socketed H-Pile 5	24	24-Sep-12	22-Oct-12							Pier F7 D
1011-1910.50	Pier F7 Dolphin Socketed H-Pile 4	12	24-Oct-12	06-Nov-12							
1011-1910.60	Pier F7 Dolphin Socketed H-Pile 6	12	07-Nov-12	20-Nov-12							
1011-2030	Dismantle Piling Platform at Pier F7	6	21-Nov-12	27-Nov-12							
1011-2270	F7 Pile Cap Construction	18	12-Dec-12	03-Jan-13							
1011-1862.10	Pier F8 Dolphin Socketed H-Pile 1	10	14-Aug-12 A	02-Oct-12					Pier F	8 Dolphin Socket	ed H-Pile 1
1011-1862.11	Pier F8 Dolphin Socketed H-Pile 2	12	14-Aug-12 A	04-Oct-12					Pie	r F8 Dolphin Socł	keted H-Pile 2
1011-1862.12	Pier F8 Dolphin Socketed H-Pile 3	14	15-Aug-12 A	06-Oct-12						Pier F8 Dolphin S	ocketed H-Pile
1011-1862.13	Pier F8 Dolphin Socketed H-Pile 5	16	15-Aug-12 A	09-Oct-12						Pier F8 Dolph	nin Socketed H
1011-1862.14	Pier F8 Dolphin Socketed H-Pile 4	12	21-Nov-12	04-Dec-12							
1011-1862.15	Pier F8 Dolphin Socketed H-Pile 6	12	05-Dec-12	18-Dec-12							
1011-1806	Pier F9 Marine Bored Pile (Low Headroom)	9	20-Aug-12 A	29-Sep-12					Pier F9 Ma	arine Bored Pile (I	Low Headroom
1011-2120	Marine bored pile testing F9	18	02-Oct-12	22-Oct-12						`	Marine b
1011-1802	Pier F9 Dolphin Socketed H-Pile (6 nos.)	42	14-Nov-12	03-Jan-13			·				
1011-1981	Pier F10 Marine Bored Pile (Low Headroom)	24	07-Sep-12 A	18-Oct-12						F	Pier F10 Marin
1011-2125	Marine bored pile testing F10	18	19-Oct-12	09-Nov-12							
1011-2125	Marine bored pile testing F11	12	20-Sep-12	09-110V-12					Ma	rine bored pile tes	stina F11
1011-2130	Pier F12 Marine Bored Pile (Low Headroom)	35	19-Oct-12	29-Nov-12							oting i ii
1011-2135	Marine bored pile testing F12	18	30-Nov-12	20-Dec-12		Pier E13 M	larine Bored Pile				
1011-1900	Pier F13 Marine Bored Pile	0	08-Aug-12 A	31-Aug-12 A							
1011-1905	Pier F13 Marine Bored Pile (Low Headroom)	35	30-Nov-12	11-Jan-13		- Dior I	F14 Marine Bored F	Jilo			
1011-1785	Pier F14 Marine Bored Pile	0	14-Aug-12 A	04-Sep-12 A			F 14 Marine Boreu r	-lie			
Pier F01 to F02			04.4 . 40.4	00.4	Marine bo	red pile F1A-	-1				
1011-2752	Marine bored pile F1A-4	0	04-Aug-12 A	23-Aug-12 A		1	-4 arine bored pile F1/	4-3			
1011-2753	Marine bored pile F1A-3	0	25-Aug-12 A	06-Sep-12 A						Dolo	hin sockatod L
1011-2730	Dolphin socketed H-pile pier F1-P1	21	20-Sep-12	15-Oct-12							hin socketed H
1011-2732	Dolphin socketed H-pile pier F1-P2	24	20-Sep-12	18-Oct-12							Dolphin socket
1011-2735	Dolphin socketed H-pile pier F1-P3	27	20-Sep-12	22-Oct-12							Dolphin s

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	Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)	
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		Remaining Work
		Critical Remaining Wo
•	•	Milestone

Actual Work



tivity ID	Activity Name		n Start	Finish						2012		
		Dur			20	27	Septeml		4	October 01 08 15 22		
1011-2760	Marine bored pile testing F1A	18	20-Sep-12	11-Oct-12						Marine bored pile testing		
1011-2860	F1A Pile Cap Construction	18	24-Nov-12	14-Dec-12	_							
1011-2780	Marine bored pile F1B-2	24	16-May-12 A	18-Oct-12						Marine bored pi		
1011-2783	Marine bored pile F1B-4	14	19-Oct-12	05-Nov-12	_							
1011-2790	Marine bored pile testing F1B and F2B	13	12-May-12 A	20-Nov-12								
1011-2742	Marine bored pile F2A-1	0	21-Aug-12 A	06-Sep-12 A			Marine bored pi	e F2A-1				
1011-2743	Marine bored pile F2A-4	2	10-Sep-12 A	21-Sep-12				Marine	: bored p	bile F2A-4		
1011-2745	Marine bored pile testing F2A	18	22-Sep-12	13-Oct-12	_				_	Marine bored pile testi		
1011-2720	Dolphin socketed H-pile pier F2-P1	21	24-Oct-12	16-Nov-12	_							
1011-2940	Dolphin socketed H-pile pier F2-P2	24	24-Oct-12	20-Nov-12	_							
1011-2950	Dolphin socketed H-pile pier F2-P3	27	24-Oct-12	23-Nov-12	1							
1011-2800	F2A Pile Cap Construction	18	24-Nov-12	14-Dec-12	_							
10.1.2 - Land Pier	r Construction)										
Abutment D12												
1012-1220	Abutment D12 construction (E/B Bridge)	42	19-Oct-12	07-Dec-12								
1012-1240	Bearing installation (D12) at III (E/B)	6	08-Dec-12	14-Dec-12	1							
Pier D08 to D11												
1012-1030.30	Pier D08 Bored Pile D8-1	0	11-Aug-12 A	22-Aug-12 A	Pier	D08 Bore	d Pile D8-1					
1012-1030.40	Pier D08 Bored Pile D8-6	0	06-Aug-12 A	03-Sep-12 A			Pier D08 Bored Pile	D8-6				
1012-1100	Pier D08 Construct Pile Cap	21	17-Sep-12 A	15-Oct-12						Pier D08 Construct		
1012-1110	Pier D08 Construct Pier/Column	12	30-Oct-12	12-Nov-12						1		
1012-1120	Pier D08 Construct Crosshead + Bearing	24	28-Nov-12	26-Dec-12	_							
1012-1130	Pier D09 Construct Pile Cap	0	01-Jun-12 A	25-Aug-12 A		Pier D09 (Construct Pile Cap					
1012-1140	Pier D09 Construct Pier/Column	9	03-Sep-12 A	29-Sep-12					📕 Pie	er D09 Construct Pier/Column		
1012-1150	Pier D09 Construct Crosshead + Bearing	24	02-Oct-12	30-Oct-12					-			
1012-1160	Pier D10 Construct Pile Cap	14	25-Jun-12 A	06-Oct-12						Pier D10 Construct Pile Cap		
1012-1170	Pier D10 Construct Pier/Column	18	08-Oct-12	29-Oct-12								
1012-1180	Pier D10 Construct Crosshead + Bearing	24	31-Oct-12	27-Nov-12								
1012-1190	Pier D11 Construct Pile Cap	0	12-Jun-12 A	03-Sep-12 A			Pier D11 Construct	Pile Cap				
1012-1200	Pier D11 Construct Pier/Column	12	02-Oct-12	15-Oct-12	_				-	Pier D11 Construct		
Pier D05 to D07												
1012-1290.20	Pier D05 Bored Pile D05-1	12	01-Nov-12*	14-Nov-12								
1012-1300	Pier D05 Bored Piles Testing	18	15-Nov-12	05-Dec-12	_							
1012-1310	Pier D06 Construct Pile Cap	18	06-Dec-12	27-Dec-12	_							
1012-1274	Pier D07 Bored Pile D07-3	9	27-Aug-12 A	29-Sep-12	_				🔲 Pie	er D07 Bored Pile D07-3		
1012-1275	Pier D07 Bored Pile D07-4	15	03-Sep-12 A	08-Oct-12						Pier D07 Bored Pile D07-4		
10.1.3 - E/B Bridg	je Construction)										
Bridge D3												
1013-1000.20	Segment and Beam Launching - Submit Design Launching Girder	24	14-May-12 A	18-Oct-12				-	_	Segment and B		
1013-1000.30	Segment and Beam Launching - Approve Design Launching Girder	28	19-Oct-12	21-Nov-12								
1013-1010	Segment and Beam Launching - Fabricate Launching Girder	85	11-Jun-12 A	31-Dec-12								

Remaining Level of Effort	Contract HY/2009/19	3MRP
Actual Level of Effort Actual Work	Three Month Rolling Programme (20 SEP 2012 to 19 DEC 2012)	3MRP
Remaining Work		Page 6
 ♦ Milestone 		

