CONTRACT NO: HK/2011/07

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

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 ,FEP-05/356/2009, FEP-06/356/2009 AND FEP-07/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- SEPTEMBER 2013 -

CLIENTS:

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and

Highways Department

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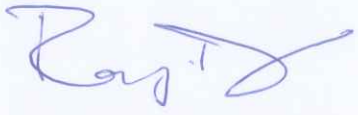

Raymond Dai
Environmental Team Leader

DATE:

11 October 2013

ENVIRON

Ref.: AACWBIECEM00_0_4456L.13

11 October 2013

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

By Post and Fax (2691 2649)

Attention: Mr. Conrad Ng

Dear Sir,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass
Monthly Environmental Monitoring and Audit Report (September 2013)
for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009,
FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for September 2013 received by email on 11 October 2013.

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

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

Yours sincerely,

David Yeung
Independent Environmental Checker

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

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report –September 2013 for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring findings and information recorded during the period August 2013 to September 2013. The cut-off date of reporting is at 27th of each reporting month.

Construction Activities for the Reported Period

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

Marine Works (at Wan Chai)

- Rockfilling at Area 3 (East of Expo Bridge). Rockfilling work in accordance with proposed alignment up to +2.5mPD. Rock materials from HATS.
- Bottom slab of Bay 8. Preparation work for blinding layer at Bay 9.
- Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue. 5 nos. pre-bored H-piles were installed.
- Pre-drilling for D-walls at Area 8 (interface wall, bulkhead). Installation of sleeve pipe for predrilling work in order to remove the G75 rock before site investigation.
- Ground treatment work and guide wall construction. Formation for soil platform. Plate load test.

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

- The stage 2 & 3 connection. The stage 4 capping works for XHWM.

XHWM, Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at West Foyer of HKCEC. Planter reinstatement, kerbworks, hard paving. All reinstatement works.
- Cooling main works in Zone C1-2. Cooling main works along Expo Drive East and Fleming Road..
- Salt watermain laying works along west of Convention Avenue, J/O Convention Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near Grand Hyatt Hotel in Zone A1-5C, A1-5A3.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220). 45 nos. pre-bored H-piles had been excavated. 32 nos. pre-bored H-piles were grouted i.e. 22 nos. drilled and 26 nos. grouted.
- Construction of the Common D-wall.

- Filling of the existing open water channel from CH100 to CH206.
- Demolition of the Promenade Deck.
- ELS work at bottom-up area. Fabrication of steel strutting members. Installation of ELS.

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

- Modification of existing covered walkway along Expo Drive East.
- The outstanding VSD parts for P7 Cooling Water Pumping Station reinstalled .
- The 60 days for T&C period of P7 cooling water system. The T&C period of P9.
- The temporary EVA construction for P7, P8 and P9 Cooling Water Pumping Stations.
- Rectification works for P8 discharge mains near Gate No.1
- 60-Day T&C for P9 Cooling Water Pumping Station.
- Installation of Aeration and Chlorination Pipes at Salt Water Intake Culvert Bay 2 to Bay 5.
- Temporary discharge pipe near CHS8A 160m.
- Trench excavation and ELS installation for the Y-section connecting with the existing DN600 watermains at Hung Hing Road. Pipe fabrication for the Y-Section.
- Additional horizontal gate valve chamber under VO No.114 located at CHS8A230m.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- The base slab, wall and top slab at Bay 5.
- Blinding layer for 1050mm FRP pipe near Bay 4 and Bay 5.
- The access shafts of inspection manholes IM-01 and IM-02 at Bay 5.
- Construction of stoplog chamber extension SLO-01, SLO-02 and SLO-03 at Bay 6. The stoplog installation.
- Formwork erection and rebar fixing for the 6nos. Temporary Covered Walkway in the vicinity of Ferry Pier.
- Interface coring and shear pin installation for the Eastern Bulkhead Wall.
- The road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
- Pavement works at Wan Shing Street next to ECO gas infill station.
- Trimming of lifted-in sheetpile in front of SPCA's Guard Room.
- Breaking up the existing carriageway next to SPCA's Main Vehicular Access.
- 90.7% of seawall blocks installation at WCR4/TWCR4 (844nos. out of 936nos.).
- 95% of geotextile at WCR4/TWCR4 area

iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:

- Construction of EVA

v. During this reporting period, the major work activities for Contract no. HK/2010/06 included:
- Sheet piling works

vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
- D-wall and Barrette Construction
- Construction works for Box Culvert T1
- Backfill works for Box Culvert U1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1

vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:
- Site preparation works
- Site survey
- ELS for box culvert La at Lung King Street
- Dredging
- Demolition of the existing Expo Drive West Bridge

viii. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted

Noise Monitoring

ix. 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.

x. Due to adverse weather condition, the noise monitoring at M2b and M6 were rescheduled from 3 September 2013 to 6 September 2013.

xi. No action and 4 limit level exceedances at M6 – HK Baptist Church Henrietta Secondary School were recorded on 6, 10, 17 and 26 September 2013 in this reporting month. The exceedances were concluded as non-project related.

Real-time Noise Monitoring

xii. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

xiii. 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.

xiv. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. No project related exceedance was recorded in the reporting month.

xv. 24-hour real time noise monitoring was conducted at RTN2a – Hong Kong Electric Centre. Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 9 Sep 2013 and restricted hours on 22 Sep 2013. After checking with contractor, no major noisy construction activity was conducted on 9 Sep 2013 during the recorded period and the exceedance was non-continuous. The exceedances were considered to be contributed by nearby IEC traffic. After checking, no construction activities was conducted on 22 Sep 2013 at the concerned location during the recorded period and the exceedance was considered contributed by adverse weather condition during hoisting of Gale warning signal. As such, the exceedances were considered as non-project related.

Air Quality Monitoring

xvi. Due to the hoisting of Gale warning signal no.8, the 24hr TSP monitoring events on was rescheduled from 23 September 2013 to 24 September 2013.

xvii. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 3 and 17 September 2013 at the concerned hours (afternoon for higher daily temperature).No Action and Limit Level was recorded during this reporting month.

xviii. 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.

xix. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.

xx. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5a – Children Garden opposite to Pedestrian Plaza; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis.

Water Quality Monitoring

xxi. Due to the Amber Rainstorm Warning was hoisted on 4 September 2013, water quality monitoring at ebb tide was cancelled.

xxii. Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

xxiii. Due to obstruction by construction material on 31 August 2013, water quality monitoring at water quality monitoring station P4 during flood tide was cancelled.

xxiv. Since marine dredging works was commenced under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08.

xxv. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

xxvi. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.

xxvii. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.

xxviii. 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.

xxix. 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.

xxx. 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;

xxxi. 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.

xxxii. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

xxxiii. 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.

xxxiv. 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.

xxxv. 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.

xxxvi. Water quality monitoring at 14 monitoring stations was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table I***.

Table I Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	0	1	1	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on 8 Feb 2012	WSD21	1	1	0	0	0	1	1	2	0	0	0	2
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	1	0	1	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	2	0	0	0	0	0	0	0	0	0	0	0
Total		3	1	1	1	2	1	1	2	0	0	0	2

Remarks: -
- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- 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.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.

xxxvii. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the ***Section 6.4***.

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

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

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

xxxix. There were 2 action level exceedances and 10 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***.

xl. 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.

xli. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.

Complaints, Notifications of Summons and Successful Prosecutions

xlii. There was no environmental complaint received in this reporting month.

Site Inspections and Audit

xliii. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/01, HK/2009/02, HY/2009/15 HK/2010/06, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.

Future Key Issues

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

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

Marine Works

- Filling works up to +4.0mPD between CH290 to CH370.
- Steel bridge structure at south side for construction of steel bridge over temporary open channel between CH290 and CH320.
- Reinstatement of existing seawall at Expo Drive East.
- Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Reinstatement works at HKCEC north & northwest.
- Salt watermain laying works along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B & A1-5A3.
- Road advance works at the junction between Expo Drive East & Expo Drive Central and nearby area.
- Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG discharge system.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- Filling of the existing open water channel and Dome.
- Construction of the south Common D-wall.
- Advance works for demolition of the HKCEC Bump home.
- ELS for Stage 1 CWB.

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

- T&C period of P9 cooling water system.
- T&C period of P7 cooling water system.
- Remedial works for P8 discharge mains at Ex-Pet Garden.
- Full commissioning of P8 cooling water system.
- Connection with the existing DN600 salt watermains at Hung Hing Road.
- SWIC handed over to WSD and removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Facade works for the boundary wall of WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and ready for DSD's inspection.
- ABWF works in Ferry Pier.
- Rectifying defects in movable ramp.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Footing for the cover walkway (Grid 1 – Grid 4) and commence EVA construction

extending from P7 Cooling Water Pumping Station to the Ferry Pier.

- FSD Direct Link alignment with PCCW.
- All outstanding works for Eastern Bulk Head Wall for substantial completion of Section IXA of the Works..
- Remaining reclamation works at WCR2 after abandonment of existing P8 Cooling Water Pumping Station.
- Filling works at WCR4/TWCR4.
- Backfilling and road reinstatement works at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1).

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

- Construction of EVA

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

- Sheet piling works

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

- D-wall and Barrette Construction
- Construction works for Box Culvert T1
- Backfill works for Box Culvert U1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1
- Installation of temporary lighting at IEC link
- Demolition of parapet at IEC link
- Construction of King Post at ELS

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

- Site survey
- Dredging
- Demolition of the existing Expo Drive West Bridge

- ELS for box culvert La at Lung King Street

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

- Nil

1 Introduction

1.1 Scope of the Report

1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-014/2001).

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

1.1.3. This report documents the finding of EM&A works for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-05/356/2009, FEP-06/356/2009 and FEP-07/356/2009 during the period of August 2013 toSeptember 2013. The cut-off date of reporting is at 27th of each reporting month.

1.2 Structure of the Report

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

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

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

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

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

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

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

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

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

Section 10 ***Conclusion***

2 Project Background

2.1 Background

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

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

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

2.2 Scope of the Project and Site Description

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

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

2.2.3. The scope of the Project comprises:

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

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

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

Table 2.1 Schedule 2 Designated Projects under this Project

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

2.3 Division of the Project Responsibility

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

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

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP3, DP6	23 July 2010
		DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai East	DP3, DP5	5 July 2010
		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010
		DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	5 March 2013

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877

Party	Role	Post	Name	Contact No.	Contact Fax
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Joint Venture Board Representative	Mr. PL Yue	2162 9909	2587 1878
		Deputy Site Agent	Mr Andy Yu	9648 4896	
		Construction Manager	Mr Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr Kenneth Chan	9160 3850	
		Environmental Officer (Compliance Manager)	Mr. Andy Mak	9103 2370	
		Environmental Supervisor	Fan Chun Wai	6487 4488	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. David Lau	3658-3022	2827 9996
		Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Director	K C Cheung	3557 6399	2566 2192
		Site Manager	J H Chen	3557 6368	
		Contractor's Representative	Andrew Wong	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. HK/2010/06	Project Manager	Mr. Paul Lui	9095 7922	2529 2880
		Site Agent	Mr. Eric Yip	2529 2068	
		Environmental Officer	Clement Pang	9735 9200	
		Environmental Supervisor	Jacky Cheung	9779 2292	
Chun Wo – CRGL – MBEC_	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	
		Site Agent	Paul Yu	9456 9819	

Party	Role	Post	Name	Contact No.	Contact Fax
Joint Venture		Environmental Engineer	Mr. Calvin Leung	9286 9208	
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Construction Manager (Marine)	William Luk	9610 1101	
		Construction Manager (Land)	Patrick Cheung	9643 3012	
		Construction Manager (Land)	Eric Fong	6191 9337	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-Leader JV	Contractor under Contract no. HK/2012/08	Project Director	Andrew Tse	9137 1811	2877 1522
		Project Manager	Victor Wu	9193 8871	
		Deputy Project Manager	George Cheung	9268 1918	
		Site Agent	Paul Lui	9095 7922	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Ching Man, Chan	6050 4919	
China State	Contractor under Contract no. HY/2010/08	Project Director	Cheung Kit Cheung	3557 6399	2566 8061
		Project Manager	Chan Ying Lun	9812 0592	
		Deputy Project Manager	Chris Leung	3467 4299	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	C.M. Wong	3557 6464	
		Environmental Supervisor	Louis Lam Tsz Kwan	3557 6470	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

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

Marine Works (at Wan Chai)

- Rockfilling at Area 3 (East of Expo Bridge). Rockfilling work in accordance with proposed alignment up to +2.5mPD. Rock materials from HATS.
- Bottom slab of Bay 8. Preparation work for blinding layer at Bay 9.
- Fabrication work for steel bridge on the top of temporary open channel along Convention Avenue. 5 nos. pre-bored H-piles were installed.
- Pre-drilling for D-walls at Area 8 (interface wall, bulkhead). Installation of sleeve pipe for predrilling work in order to remove the G75 rock before site investigation.
- Ground treatment work and guide wall construction. Formation for soil platform. Plate load test.

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

- The stage 2 & 3 connection. The stage 4 capping works for XHWM.

XHWM, Cooling Watermains, Salt Watermains and Sewer (On Land)

- Design of the additional anode between the new pipe and existing pipeline.
- Reinstatement works at West Foyer of HKCEC. Planter reinstatement, kerbworks, hard paving. All reinstatement works.
- Cooling main works in Zone C1-2. Cooling main works along Expo Drive East and Fleming Road..
- Salt watermain laying works along west of Convention Avenue, J/O Convention Avenue & Fenwick Per Street, Harbour Road in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 and A5-2. Salt watermain laying works along west of Convention Avenue near Grand Hyatt Hotel in Zone A1-5C, A1-5A3.
- Temporary ducting and cabling works at junction between Expo Drive East and Expo Drive Central.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link (from CH120 to CH220). 45 nos. pre-bored H-piles had been excavated. 32 nos. pre-bored H-piles were grouted i.e. 22 nos. drilled and 26 nos. grouted.
- Construction of the Common D-wall.
- Filling of the existing open water channel from CH100 to CH206.
- Demolition of the Promenade Deck.
- ELS work at bottom-up area. Fabrication of steel strutting members. Installation of ELS.

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

- Modification of existing covered walkway along Expo Drive East.
- The outstanding VSD parts for P7 Cooling Water Pumping Station reinstalled .

- The 60 days for T&C period of P7 cooling water system. The T&C period of P9.
- The temporary EVA construction for P7, P8 and P9 Cooling Water Pumping Stations.
- Rectification works for P8 discharge mains near Gate No.1
- 60-Day T&C for P9 Cooling Water Pumping Station.
- Installation of Aeration and Chlorination Pipes at Salt Water Intake Culvert Bay 2 to Bay 5.
- Temporary discharge pipe near CHS8A 160m.
- Trench excavation and ELS installation for the Y-section connecting with the existing DN600 watermains at Hung Hing Road. Pipe fabrication for the Y-Section.
- Additional horizontal gate valve chamber under VO No.114 located at CHS8A230m.
- The remaining ABWF works and boundary wall in WSD Salt Water Pumping Station, including maintenance platform and external finishes.
- The base slab, wall and top slab at Bay 5.
- Blinding layer for 1050mm FRP pipe near Bay 4 and Bay 5.
- The access shafts of inspection manholes IM-01 and IM-02 at Bay 5.
- Construction of stoplog chamber extension SLO-01, SLO-02 and SLO-03 at Bay 6. The stoplog installation.
- Formwork erection and rebar fixing for the 6nos. Temporary Covered Walkway in the vicinity of Ferry Pier.
- Interface coring and shear pin installation for the Eastern Bulkhead Wall.
- The road modification works along Wan Shing Street for HHR Flyover Diversion (Stage 1).
- Pavement works at Wan Shing Street next to ECO gas infill station.
- Trimming of lifted-in sheetpile in front of SPCA's Guard Room.
- Breaking up the existing carriageway next to SPCA's Main Vehicular Access.
- 90.7% of seawall blocks installation at WCR4/TWCR4 (844nos. out of 936nos.).
- 95% of geotextile at WCR4/TWCR4 area

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

- Construction of EVA

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

- Sheet piling works

2.4.7. For Contract no. HY/2009/19, the principal work activity in this reporting month included:

- D-wall and Barrette Construction
- Construction works for Box Culvert T1

- Backfill works for Box Culvert U1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1

2.4.8. For Contract no. HK/2012/08, the principal work activity in this reporting month included:

- Site preparation works
- Site survey
- ELS for box culvert La at Lung King Street
- Dredging
- Demolition of the existing Expo Drive West Bridge

2.4.9. During this reporting period, the no major work activities for Contract no. HY/2010/08 was conducted

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

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

Marine Works

- Filling works up to +4.0mPD between CH290 to CH370.
- Steel bridge structure at south side for construction of steel bridge over temporary open channel between CH290 and CH320.
- Reinstatement of existing seawall at Expo Drive East.
- Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab.

Cooling Watermains, Salt Watermains and Sewer (On Land)

- Reinstatement works at HKCEC north & northwest.
- Salt watermain laying works along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B & A1-5A3.
- Road advance works at the junction between Expo Drive East & Expo Drive Central and nearby area.
- Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG

discharge system.

Tunnel Works

- Installation of pre-bored H-pile in CWB Stage 2 Atrium Link.
- Filling of the existing open water channel and Dome.
- Construction of the south Common D-wall.
- Advance works for demolition of the HKCEC Bump home.
- ELS for Stage 1 CWB.

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

- T&C period of P9 cooling water system.
- T&C period of P7 cooling water system.
- Remedial works for P8 discharge mains at Ex-Pet Garden.
- Full commissioning of P8 cooling water system.
- Connection with the existing DN600 salt watermains at Hung Hing Road.
- SWIC handed over to WSD and removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station.
- Facade works for the boundary wall of WSD Salt Water Pumping Station.
- Box Culvert N1 & Drain FRP-N and ready for DSD's inspection.
- ABWF works in Ferry Pier.
- Rectifying defects in movable ramp.
- Most of the individual T&C of E&M equipment at Ferry Pier
- Footing for the cover walkway (Grid 1 – Grid 4) and commence EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier.
- FSD Direct Link alignment with PCCW.
- All outstanding works for Eastern Bulk Head Wall for substantial completion of Section IXA of the Works..
- Remaining reclamation works at WCR2 after abandonment of existing P8 Cooling Water Pumping Station.
- Filling works at WCR4/TWCR4.
- Backfilling and road reinstatement works at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1) .

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

- Construction of EVA

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

- Sheet piling works

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

- D-wall and Barrette Construction
- Construction works for Box Culvert T1
- Backfill works for Box Culvert U1
- Removal of marine platform
- Construction of pile cap, pier & cross head (Marine)
- Installation of dewatering well
- Laying of 1500ϕ pipe
- Launching of segments
- Extraction of temporary pile from marine section
- Construction of bridge truss TA1
- Installation of temporary lighting at IEC link
- Demolition of parapet at IEC link
- Construction of King Post at ELS

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

- Site survey
- Dredging
- Demolition of the existing Expo Drive West Bridge
- ELS for box culvert La at Lung King Street

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

- Nil

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	20 Sep 2012	Valid
Environmental Permit	EP-364/2009	17 Aug 2009	Superseded
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Valid
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
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/B	20 Sep 2012	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Valid
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid

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

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

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

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

Permits and/or Licences	**Reference No.**	**Issued Date**	**Valid Period/ Expiry Date**	**Status**
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	06 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0274-13	19 Mar 2013	25 Mar 2013 to 24 Sept 2013	Expired
	GW-RS0310-13	25 Mar 2013	27 Mar 2013 to 25 Sept 2013	Expired
	GW-RE0274-13	26 Mar 2013	30 Mar 2013 to 29 Sept 2013	Expired
	GW-RE0371-13	9 Apr 2013	13 Arp 2013 to 12 Oct 2013	Valid
	GW-RS0368-13	11 Apr 2013	13 Apr 2013 to 7 Oct 2013	Valid
	GW-RS0372-13	12 Apr 2013	15 Apr 2013 to 7 Oct 2013	Valid
	GW-RS0470-13	29 Apr 2013	9 May 2013 to 24 Oct 2013	Replaced by GW-RS0626-13
	GW-RS0501-13	9 May 2013	11 May 2013 to 8 Nov 2013	Valid
	GW-RS0510-13	14 May 2013	15 May 2013 to 13 Nov 2013	Valid
	GW-RS0579-13	29 May 2013	29 May 2013 to 26 Nov 2013	Replace by GW-RS0797-13

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0797-13	16 Jul 2013	18 Jul 2013 to 15 Jan 2014	Replace by GW-RS0937-13
	GW-RS0626-13	13 Jun 2013	15 Jun 2013 to 12 Dec 2013	Valid
	GW-RS0631-13	14 Jun 2013	14 Jun 2013 to 13 Dec 2013	Valid
	GW-RS0651-13	21 Jun 2013	22 Jun 2013 to 20 Dec 2013	Valid
	GW-RS0773-13	16 Jul 2013	20 July 2013 to 19 Jan 2014	Replaced by GW-RS0807-13
	GW-RS0807-13	24 Jul 2013	25 Jul 2013 to 21 Jan 2014	Valid
	GW-RE0757-13	23 Jul 2013	25 Jul 2013 to 31 Aug 2013	Expired
	GW-RS0856-13	7 Aug 2013	10 Aug 2013 to 1 Feb 2014	Valid
	GW-RS0883-13	12 Aug 2013	14 Aug 2013 to 13 Feb 2014	Valid
	GW-RS0937-13	23 Aug 2013	25 Aug 2013 to 22 Feb 2014	Valid
	GW-RE0930-13	20 Aug 2013	3 Sep 2013 to 12 Oct 2013	Valid
	GW-RS1063-13	24 Sep 2013	26 Sep 2013 to 23 Mar 2014	Valid
	GW-RE1034-13	27 Sep 2013	30 Sep 2013 to 29 Mar 2014	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid

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
	Silt Curtain Deployment Plan (Rev. 4)	12 July 2012
	Silt Curtain Deployment Plan (Rev. 3)	27 June 2012
	Silt Curtain Deployment Plan	19 Apr 2010
Condition 2.9	Silt Screen Deployment Plan (Rev.5)	24 Jul 2013
	Silt Screen Deployment Plan (Rev.4)	15 Nov 2012
	Silt Screen Deployment Plan	19 Apr 2010
Conditions 2.8 and 2.9	Supplementary Document on Silt Curtain and Silt Screen Deployment Plan	19 Jul 2010
	Report on Field Testing for Silt Curtain	26 Aug 2010
	Report on Field Testing for Silt Curtain (Rev. A)	15 Nov 2010
Condition 2.12(d)	Alternative Proposal on Concurrent Dredging for Sewage Pipeline and Cross Harbour Water Mains	15 Apr 2011
Condition 2.17	Noise Management Plan	23 Apr 2010

EP Condition	Submission	Date of Submission
Condition 2.18	Landscape Plan (Erection of Decorative Screen Hoarding along Construction Site around Hong Kong Exhibition and Convention Centre)	15 May 2010
	Landscape Plan (Night-time Lighting)	22 Oct 2010
	Landscape Plan (Rev. B)	15 Nov 2010
Condition 1.12	Notification of Commencement Date	20 Jun 2011
Condition 2.6 to 2.8	Management Organization, Works Schedule and Location Plan	18 May 2011
Condition 2.9	Noise Management Plan	10 Jun 2011

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0241-13	11 Mar 2013	13 Mar 2013 to 1o Sept 2013	Expired
	GW-RS0251-13	11 Mar 2013	26 Mar 2013 to 24 Sept 2013	Expired
	GW-RS0269-13	23 Mar 2013	23 Mar 2013 to 19 Sept 2013	Expired
	GW-RS0340-13	28 Mar 2013	10 Apr 2013 to 8 Oct 2013	Valid
	GW-RS0373-13	9 Apr 2013	19 Apr 2013 to 17 Oct 2013	Valid
	GW-RS0437-13	26 Apr 2013	1 May 2013 to 29 Oct 2013	Valid
	GW-RS0467-13	06 May 2013	17 May 2013 to 16 Nov 2013	Valid
	GW-RS0517-13	20 May 2013	27 May 2013 to 26 Nov 2013	Valid
	GW-RS0521-13	20 May 2013	22 May 2013 to 21 Nov 2013	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0530-13	20 May 2013	28 May 2013 to 27 Nov 2013	Valid
	GW-RE0508-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0525-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0538-13	21 May /2013	30 May 2013 to 29 Nov 2013	Valid
	GW-RS0539-13	23 May 2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0554-13	23 May 2013	6 June 2013 to 5 Dec 2013	Valid
	GW-RS0586-13	27 May 2013	28 May 2013 to 22 Nov 2013	Valid
	GW-RS0633-13	14 June 2013	16 June 2013 to 13 Dec 2013	Valid
	GW-RS0739-13	09 July 2013	17 July 2013 to 16 Jan 2014	Valid
	GW-RS0708-13	03 July 2013	03 July 2013 to 01 Jan 2014	Valid
	GW-RS0846-13	30 July 2013	01 Aug 2013 to 25 Jan 2014	Valid
	GW-RS0857-13	2 Aug 2013	15 Aug 2013 to 14 Feb 2014	Valid
	GW-RS0945-13	29 Aug 2013	11 Sep 2013 to 10 Mar 2014	Valid
	GW-RS0993-13	6 Sep 2013	20 Sep 2013 to 19 Mar 2014	Valid
	GW-RS1027-13	10 Sep 2013	15 Sep 2013 to 9 Mar 2014	Valid
	GW-RS1002-13	12 Sep /2013	25 Sep 2013 to 24 Mar 2014	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/14-014	20 May 2013	29 May 2013 to 28 Nov 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined	EP/MD/14-044	05 Aug 2013	6 August 2013 to 5 September 2013	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Marine disposal)	EP/MD/14-055	29 Aug 2013	6 September 2013 to 5 October 2013	Valid

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

EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan (Revision A)	20 April 2010
	Silt Curtain Deployment Plan (Revision B)	25 May 2010
	Silt Curtain Deployment Plan (Revision C)	14 Jun 2010
	Silt Curtain Deployment Plan (Revision H)	15 Feb 2011
	Silt Curtain Deployment Plan (Revision I)	17 Nov 2011
	Silt Curtain Deployment Plan (Revision J)	15 Feb 2012
	Silt Curtain Deployment Plan (Revision K)	3 May 2012
	Silt Curtain Deployment Plan (Revision L)	25 Oct 2012
	Silt Curtain Deployment Plan (Revision M)	30 Nov 2012
	Silt Screen Deployment Plan	21 April 2010
	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	Silt Screen Deployment Plan (Revision B)	15 Feb 2012
	Silt Screen Deployment Plan (Revision C)	3 May 2012
	Silt Screen Deployment Plan (Revision D)	10 Dec 2012
Condition 2.17	Noise Management Plan	6 May 2010
Condition 2.18	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011

EP Condition	Submission	Date of Submission
-----	Acknowledge of Submission	22 Aug 2011

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Construction Noise Permit (CNP) for breakwater removal works at Eastern Breakwater of CBTS	GW-RS0325-13	27 Mar 2013	29 Mar 2013 to 27 Sep 2013	Cancelled
	GW-RS0798-13	18 Jul 2013	19 Jul 2013 to 18 Jan 2014	Cancelled
	GW-RS0921-13	20 Aug 2013	20 Aug 2013 to 18 Feb 2014	Valid
Construction Noise Permit (CNP) for ELS and rock breaking works at TS4/ME4	GW-RS0276-13	19 Mar 2013	19 Mar 2013 to 7 Sep 2013	Cancelled
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS0434-13	23 Apr 2013	23 Apr 2013 to 16 Oct 2013	Cancelled
	GW-RS0705-13	28 Jun 2013	02 Jul 2013 to 31 Dec 2013	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	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	21 Jun 2013	17 Jul 2013 to 16 Oct 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-034	16 Jul 2013	24 Jul 2013 to 23 Jan 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal and Type 2 – Confined Marine Disposal)	EP/MD/14-049	23 Aug 2013	24 Aug 2013 to 23 Sep 2013	Expired

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	EP/MD/14-061	19 Sep 2013	24 Sep 2013 to 23 Oct 2013	Valid

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

FEP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
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
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Noise Management Plan	20 Oct 2010
	Amendment for Noise Management Plan	27 Jan 2011

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

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

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

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status

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-RS0017-13	19 June 2013	6 Jul 2013 to 5 Jan 2014	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0444-13	30 Apr 2013	12 May 2013 to 3 Nov 2013	Cancelled
	GW-RS0531-13	24 May 2013	26 May 2013 to 19 Nov 2013	Cancelled
	GW-RS0926-13	21 Aug 2013	27 Aug 2013 to 26 Feb 2013	Valid
	PP-RS0017-13	19 June 2013	6 Jul 2013 to 5 Jan 2014	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	WPN5213-134-G2533-01	11 Feb 2011	N/A	Valid
Water Discharge Licence	WT00010905-2011	4 Nov 2011	31 July 2016	Valid`

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

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	29 April 2013
Condition 2.7	Works Schedule and Location Plans	11 March 2011
Condition 2.8	Revised Silt Curtain Deployment Plan	31 August 2011
	Revised Silt Curtain Deployment Plan	22 October 2012
	Revised Silt Curtain Deployment Plan	26 November 2012
	Full Silt Curtain Deployment Plan	28 January 2013
Condition 2.9	Silt Screen Deployment Plan	11 April 2011
Condition 2.23	Noise Management Plan	11 March 2011

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

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

Table 3.12 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/B	20 Sep 2012	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-RS0286-13	15-Mar-12	14-Sep-13	Cancelled
	GW-RS0503-13	21-May-12	20-Nov-13	Valid
Construction Noise Permit (CNP) (For Bored pile construction at Portion III)	GW-RS0767-13	11-Jul-13	10-Jan-14	Valid
Construction Noise Permit (CNP) (For Segment Launching at Portion III)	GW-RS1009-13	09-Sep-13	08-Mar-14	Valid
Construction Noise Permit (CNP) (For Watson Road)	GW-RS0528-12	26-May-13	25-Nov-13	Valid
Construction Noise Permit (CNP) (For IEC)	GW-RS0706-13	11-Jul-13	10-Jan-14	Valid
Construction Noise Permit (CNP) (For IEC Parapet Removal – Loading/Unloading)	GW-RS0365-13	21-Apr-13	20-Oct-13	Valid
Construction Noise Permit (CNP) (For Portion Vi Marine)	GW-RS0337-13	05-May-13	01-Oct-13	Cancelled
	GW-RS0724-13	08-Jul-13	07-Jan-14	Valid
Discharge Licence (Land)	WT00010093-2011 (Renewed)	17 Aug 2012	30-Sept-16	Valid
Discharge Licence (Sea)	WT00010865-2011	03 Nov 2011	30-Nov-16	Valid
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	-

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-019	10 Jun 2013	09 Dec 2013	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-036	16 Jul 2013	15 Aug 2013	Expired
	EP/MD/14-048	20 Aug 2013	19 Sep 2013	Valid

Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

3.1.9. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under EP-356/2009 are shown in ***Table 3.13*** and ***Table 3.14***.

Table 3.13 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Construction Noise Permit	GW-RS0703-13	3 Jul 2013	4 Jul 2013 to 2 Jan 2014	Valid
	GW-RS0824-13	29 Jul 2013	30 Jul 2013 to 28 Jan 2014	Valid
	GW-RS0896-13	19 Aug 2013	20 Aug 2013 to 18 Feb 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-008	23 May 2013	24 Nov 2013	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/14-047	23 Aug 2013	24 Sep 2013	Expired
	EP/MD/14-062	18 Sep 2013	24 Oct 2013	Valid

Table 3.14 Summary of submission status under EP-356/2009 and FEP-06/356/2009 Condition

FEP Condition	Submission	Date of Submission

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 20 Aug 2013
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Deposited to EPD on 19 Aug 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013
Condition 2.24	Landscape Plan (Rev. 2)	Deposited to EPD on 20 Aug 2013

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

3.1.10. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under EP-356/2009 are shown in Table ***3.15*** and ***Table 3.16***.

Table 3.15 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2010/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	NIL	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C11 69-44	27 Mar 2013	NIL	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	NIL	Valid
Water Discharge Licence	WT0001651-2013	9 Jul 2013	31 Jul 2018	Valid

Table 3.16 Summary of submission status under EP-356/2009 and FEP-07/356/2009 Condition

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan	Not yet submitted under review
Condition 2.9	Silt Screen Deployment Plan	Not yet submitted under review
Condition 2.23	Noise Management Plan	Not yet submitted

FEP Condition	Submission	Date of Submission
Condition 2.24	Landscape Plan	Not yet submitted under review

Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Station

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

REAL-TIME NOISE MONITORING STATIONS

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

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

4.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

Table 4.2 Real Time Noise Monitoring Station

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{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.

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

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

4.1.7. If construction works are extended to include works during the hours of 1900 – 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

MONITORING EQUIPMENT

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

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

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

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

Table 4.3 Air Monitoring Station

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

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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

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

4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.

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

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

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

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

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

LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

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

IMPACT MONITORING FOR ODOUR PATROL

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

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

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

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

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

- 0 – Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
- 1 – Slight Identifiable odour, and slight chance to have odour nuisance;

- 2 – Moderate Identifiable odour, and moderate chance to have odour nuisance;
- 3 – Strong Identifiable, likely to have odour nuisance;
- 4 – Extreme Severe odour, and unacceptable odour level.

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

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

4.3 Water Quality Monitoring

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

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

Water Quality Monitoring Stations

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

Table 4.4 Marine Water Quality Stations for Water Quality Monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water 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 Intake			
C1	HKCEC Extension	835885.6	816223.0

Station Ref.	Location	Easting	Northing
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
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
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0

WATER QUALITY PARAMETERS

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

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

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

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

Table 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency[1]	Parameters[2]

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

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

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

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

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

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

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

TURBIDITY MEASUREMENT INSTRUMENT

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

SAMPLER

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

SAMPLE CONTAINER AND STORAGE

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

WATER DEPTH DETECTOR

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

SALINITY

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

MONITORING POSITION EQUIPMENT

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

CALIBRATION OF IN-SITU INSTRUMENTS

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

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

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

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

LABORATORY MEASUREMENT / ANALYSIS

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

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

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

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

Table 4.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

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

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

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

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

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

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

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

4.3.27. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013

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

Table 4.7 Marine Water Quality Stations for Additional DO Monitoring

Station	Easting	Northing
A	835468	815857
B	835572	815961

Station	Easting	Northing
C	835659	816271

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

5. Monitoring Results

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

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

- Contract no. 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
- Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

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

5.1 Noise Monitoring Results

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

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

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

Station	Description
M1a	Harbour Road Sports Centre

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

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

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

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

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

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

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

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

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

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

Station	Description
M3a	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

5.1.7. Four limit level exceedances were recorded on 6, 10, 17 and 26 September 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month.

5.1.8. Major traffic noise observed during monitoring on 6, 10, 17 and 26 September 2013 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related

5.1.9. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in ***Appendix 5.2.***

5.2 Real-time Noise Monitoring

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

5.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

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

5.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.

5.2.4 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 9 Sep 2013 and restricted hours on 22 Sep 2013. After checking with contractor, no major noisy construction activity was conducted on 9 Sep 2013 during the recorded period and the exceedance was non-continuous. The exceedances were considered to be contributed by nearby IEC traffic. After checking, no construction activities was conducted on 22 Sep 2013 at the concerned location during the recorded period and the exceedance was considered contributed by adverse weather condition during hoisting of Gale warning signal. As such, the exceedances were considered as non-project related.

5.2.5 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

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

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

- *Real time noise monitoring results and graphical presentation during night time period are for information only.*
- *RTN2 had been relocated to RTN2a since 5 Oct 2012*
- *RTN1 monitoring had been finished on 28 Nov 2012*

5.2.6 Details of real time noise monitoring results and graphical presentation can be referred to ***Appendix 5.5.***

5.3 Air Monitoring Results

5.3.1 Due to the hoisting of Gale warning signal no.8, the 24hr TSP monitoring events on was rescheduled from 23 August 2013 to 24 August 2013.

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

5.3.1. 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

Station	Description
CMA6a	WDII PRE Site Office

5.3.2 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in ***Appendix 5.3***.

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

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

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

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

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

5.3.3. 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.

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

Station	Description
CMA3a	CWB PRE Site Office

5.3.3 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in ***Appendix 5.3*.**

5.3.4 The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 3 and 17 September 2013 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during this reporting month. The details of the odour patrol results and meteorological conditions and on the date of odour patrol are shown in ***Appendix 5.3.***

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

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

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

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

5.3.5 No exceedance was recorded in the reporting month. Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in ***Appendix 5.3***.

5.4 Water Monitoring Results.

5.4.1. Due to the Amber Rainstorm Warning was hoisted on 4 September 2013, water quality monitoring at ebb tide was cancelled.

5.4.2. Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

5.4.3. Due to obstruction by construction material on 31 August 2013, water quality monitoring at water quality monitoring station P4 during flood tide was cancelled.

5.4.4. Since marine dredging works was commenced under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 have been started under contract HK/2012/08.

5.4.5. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

5.4.6. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations

5.4.7. 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.

5.4.8. 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.

5.4.9. 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;

5.4.10. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013

have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

5.4.11. 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.

5.4.12. 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.

5.4.13. 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.

5.4.14. 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.

5.4.15. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

5.4.16. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.

5.4.17. With respect to status of cooling intakes relocation, WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended to confirm the commissioning status of the relocated pump stations with the WDII RSS and the IEC for preparation of relocation of the WQM stations to the relocated cooling intake pump stations.

5.4.18. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.

Table 5.11 Water Monitoring Stations for contracts with respect to remaining DP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water Monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/01	WCR3	C1[1]	Apr 2013
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789[1]	Apr 2013

HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1[3], P3[3], P4[3], P5[3]	Aug 2013
HY/2009/15	TCBR2, TCBR3, TCBR1W, TPCWAE, TPCWAW	C6[4], C7, Ex-WPCWA SW, Ex-WPCWA SE (plus enhanced DO monitoring described in 4.6.3)	Nov 2010
HY/2010/08	TCBR3, TCBR4	C6[4], C7 (plus enhanced DO monitoring described in 4.6.3)	Mar 2014

Remarks:

-The water monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.

-4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring.

-Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)

-Enhanced DO Monitoring at C6 since the intake abandon in May 2011.

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

5.4.19. Water monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations are summarized in ***Table 5.12*** below.

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

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD7	Kowloon South	834150.0	818300.3
WSD19	Sheung Wan	833415.0	816771.0
WSD20	Kennedy Town	830750.6	816030.3
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C2	Telecom House	835647.9	815864.4
C3	HKCEC Phase I	835836.2	815910.0
C4e	Great Eagle Centre	835932.8	815888.2
C4w	Wan Chai Tower	835629.8	815889.2
P1	HKCEC Phase I	835774.7	816179.4
P3	The Academy of performing Arts	835824.6	816212.0
P4	Shui on Centre	835865.6	816220.0
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2

Remarks:

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

- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.

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

5.4.20. 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.

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

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD21	Wan Chai	836220.8	815940.1
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
Cooling Water Intake			
C5e	Sun Hung Kai Centre (Eastern)	836250.1	815932.2
C5w	Sun Hung Kai Centre (Western)	836248.1	815933.2
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.
- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.

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

5.4.21. 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
P1	HKCEC Phase I	835774.7	816179.4

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

5.4.22. 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.

5.4.23. 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.

5.4.24. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.

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

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

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

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

5.4.25. 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.

5.4.26. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

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

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

Remarks: C8 and C9 monitoring commenced on 28 Jan 2012 and suspended on 30 March 2013.

5.4.27. 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.

5.4.28. 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.

5.4.29. 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.

5.4.30. 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.

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

Table 5.17 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract no.	Water Monitoring Station	Mid-flood						Mid-ebb					
		DO		Turbidity		SS		DO		Turbidity		SS	
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01	WSD19	0	0	0	1	1	0	0	0	0	0	0	0
	C1	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02 Monitoring started on 8 Feb 2012	WSD21	1	1	0	0	0	1	1	2	0	0	0	2
	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	1	0	1	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15	C7	2	0	0	0	0	0	0	0	0	0	0	0
Total		3	1	1	1	2	1	1	2	0	0	0	2

Remarks: -
- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- 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.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012

5.4.32. Investigation found that the exceedances were not project-related. The details of the recorded exceedances can be referred to the ***Section 6.4***.

5.4.33. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in ***Table 5.18***.

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

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
HY/2009/15	C6	0	0	0	0
	C7	1	1	0	0
	Ex-WPCWA SW	0	3	0	1
	Ex-WPCWA SE	0	4	1	1

Contract no.	Water Monitoring Station	Mid-flood		Mid-ebb	
		DO		DO	
		AL	LL	AL	LL
Total		1	8	1	2

5.4.34. There were 2 action level exceedances and 10 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***.

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

5.4.36. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013

5.5 Waste Monitoring Results

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	234.42	30086.605	TKO137, TM38
Inert C&D materials recycled, m^3	0	5104.5	N/A
Non-inert C&D materials disposed, m^3	29.40	1441.26	SENT Landfill
Non-inert C&D materials recycled, kg	0	151143	N/A
Chemical waste disposed, kg	100	10050	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
*Marine Sediment (Type 1 – Open Sea Disposal), m^3	0 (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
* Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	0 (Bulk Volume)	6773 (Bulk Volume)	East of Cha Chau

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

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	3117.895	239299.660	TKO137 / TM 38
Inert C&D materials recycled, m^3	NIL	18161	N/A
Non-inert C&D materials disposed, m^3	50.98	1081.18	SENT Landfill
Non-inert C&D materials recycled, m^3	N/A	N/A	N/A
Chemical waste disposed, kg	1400	8836	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	184167 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	129320 (Bulk volume)	East of Sha Chau

5.5.4. There are no marine Sediment Type1- Open Sea Disposal and there are no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

5.5.5. No Inert C&D waste and no non- inert C&D waste were 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, m^3	NIL	141579.2	Tuen Mun Area 38
	NIL	65216	TKO137 FB
Inert C&D materials recycled, m^3	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	0 (Bulk Volume)	100208 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0 (Bulk Volume)	218665 (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
Marine Sediment (Type 2 – Confined Marine Disposal), m3	0 (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau

5.5.6. There was no marine sediment Type 2 – Confined Marine Disposal was disposed of in this reporting month.

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

5.5.7. No inert C&D waste was disposed and no non-Inert C&D waste was recycled in this reporting month. Details of the waste flow table are summarized in ***Table 5.22.***

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	0	12567.88	TM38
Inert C&D materials recycled, m^3	NIL	267	HK/2009/01
Non-inert C&D materials disposed, m^3	0	369.48	SENT/TKO137SF
Non-inert C&D materials recycled, T	0	60.58	Recyclers
Chemical waste disposed, L	0	2600	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	3,891 (Bulk Volume)	South Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	0	12,586 (Bulk Volume)	East Sha Chau

Remarks: The cumulative quantity-to-date of non-inert C&D materials disposed in m^3 was updated in this reporting month.

5.5.8. There were no marine sediments Type1- Open Sea Disposal and no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal was deposed of in this reporting month.

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

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

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	9393.82	242394.91	TM38
Inert C&D materials recycled, m^3	3804.63	51347.97	N/A
Non-inert C&D materials disposed, m^3	25.83	438.28	N/A
Non-inert C&D materials recycled, kg	4.14	284.56	N/A
Chemical waste disposed, L	0.16	0.62	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	0	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m^3	0	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate	0	4976.00	

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Sites) & Type 2 – Confined Marine Disposal) , m3			

5.5.10. There was no marine sediment Type1- Open Sea Disposal and there was no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

Contract no. HK/2012/08 –Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

5.5.11. Inert C&D waste was disposed and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.24.***

Table 5.24 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	845	1175	TM38
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	0	20	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	34748	54224	East of Sha Chau

Remarks: The cumulative quantity-to-date of non-inert C&D materials disposed in m^3 was updated in this reporting month.

5.5.12. There was marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated were disposed in this reporting month.

Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

5.5.13. No Inert C&D waste and non-inert C&D waste were disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.25***

Table 5.25 Details of Waste Disposal for Contract no. HY/2010/08

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

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	Nil	Nil	N/A

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. HK/2009/01 - Wan Chai Development Phase II – Central –Wanchai Bypass at HKCEC

6.1.1 No exceedance was recorded in the reporting month.

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

6.1.2 No exceedance was recorded in the reporting month.

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

6.1.3 No exceedance was recorded in the reporting month.

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

6.1.4 No exceedance was recorded in the reporting month.

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

6.1.5 Four limit level exceedances were recorded on 6, 10, 17 and 26 September 2013 at M6 – HK Baptist Church Henrietta Secondary School in the reporting month. Investigations found that on 6, 10, 17 and 26 September 2013, major traffic noise was contributed in the noise monitoring and exceedances were not related to the Project.

6.2 Real-time noise Monitoring

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

6.2.1 Non project related limit level exceedance was recorded at RTN2a- Electric Centre on 9 Sep 2013 during daytime and on 22 Sep 2013 during restricted hours. Investigation found that exceedances were contributed by IEC traffic and adverse weather condition.

6.3 Air Monitoring

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

6.3.1 No exceedance was recorded in the reporting month.

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

6.3.2 No exceedance was recorded in the reporting month.

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

6.3.3 No exceedance was recorded in the reporting month.

6.4 Water Quality Monitoring

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

6.4.1 There was turbidity and SS exceedance recorded at WSD19 on 25 September 2013 during flood tide, confirmed with Contractor, there was no marine work conducted during the water quality 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. The exceedance was possible in relation to silt screen cleaning conducting at the monitoring location by WSD.

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

6.4.2 There was turbidity exceedance recorded at WSD21 on 31 August 2013, 2, 9, September 2013 during Flood and Ebb tide. Confirmed with Contractor, there was no marine work conducted during the water quality monitoring. In view that no marine work was conducted on that day, the exceedances was considered not project related..

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

6.4.3 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.

6.4.4 There was occasionally DO exceedances at C7 recorded in this reporting month. No odour nuisance was noted during DO monitoring. After checking with Contractor, there was no marine work undertaken at C7. The exceedances was possible in relation to the low flow near the intake 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

6.4.5 No exceedance was recorded in this reporting month.

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

6.4.6 No exceedance was recorded in this reporting month.

Contract no. HK/2012/08- Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West

6.4.7 There was turbidity and SS exceedance recorded at WSD19 on 25 September 2013 during flood tide, confirmed with Contractor, there was no marine work conducted during the water quality monitoring. In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedance was considered not project related. The exceedance was possible in relation to silt screen cleaning conducting at the monitoring location by WSD.

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

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

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

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 non-compliance was recorded from the site audits in the reporting period.

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.

7.0.2. According to the Monthly EM&A report (August 2013) of Central Reclamation Phase III (CRIII), surface drainage and footpath construction adjacent to GPO, modification to the junction of Road D8 and Road P2 and landscaping work behind GPO boundary wall were performed in the September 2013 reporting month. The water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II were marine works at HKCEC areas, cross-harbour Watermains, Fresh Watermains and Cooling Watermains Installations, tunnel works at Wan Chai East, ELS work and pipe roofing works at TS4 and cut and cover tunnel construction at TPCWAE. Excavation and tunnel works at Central Interchange, ELS and box culvert construction at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activities were excavation at TS2, ELS work and pipe roofing works at TS4, cut and cover tunnel construction at TPCWAE, tunnel works at Central and ELS work at North Point and tunnel works at Wan Chai East in the reporting month.

7.0.4. The major environmental impacts generated from tunnel works at Central and tunnel works at Wan Chai East, IECL and Causeway Bay Typhoon Shelter were undertaken in the reporting month.. As no project related exceedance was recorded in the Project, it was considered no adverse environmental impact caused by the Project works. Thus, it is evaluated the cumulative construction impact was insignificant.

8. Environmental Site Audit

8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/01, HK/2009/02, HY/2009/15, HK/2010/06, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.

8.0.2. Five site inspections for Contract no. HK/2009/01 was carried out on 28 August 2013 , 4, 11, 19 and 25 September 2013 in reporting month. Results of these inspections and outcomes are summarized in Table 8.1.

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

Item	Date	Observations	Action taken by Contractor	Outcome
130816_01	16-Aug-13	Silt, mud and sand should b prevented from leakage from the site (A-22)	Silty and muddy runoff were cleared	Completion as observed on 28 Aug 2013
130822_01	22-Aug-13	Oil stain should be prevented from dropping on the ground and should be cleaned as chemical waste (Water Channel)	Oil stain was removed.	Completion as observed on 28 Aug 2013
130828_01	28-Aug-13	Stagnant water in drip tray should be as chemical waste more frequently.(A-51)	Stagnant water was cleared	Completion as observed on 4 Sep 2013
130904_01	4-Sep-13	Leakage of oil should be cleaned as chemical waste (water channel)	Oil was removed.	Completion as observed on 11 Sep 2013
130911_01	11-Sep-13	Mud trail was observed on public road.(A15C) The contractor was reminded to cleaned regularly.	Mud trail observed as cleared	Completion as observed on 19 Sep 2013
130919_01	19-Sep-13	Mud trail was observed on public road and should be cleaned. (Convention Avenue)	Mud trail observed as cleared	Completion as observed on 25 Sep 2013
130919_02	19-Sep-13	Mud and silt should be prevented from leaking into public drainage (Expo drive Centre)	The public drainage was cleared more frequently	Completion as observed on 25 Sep 2013
130919_03	19-Sep-13	Silty water should be properly treated prior to discharge. (Bay 8,9)	Contractor had improved the treatment of the silty water prior to discharge	Completion as observed on 2 Oct 2013
130925_03	25-Sep-13	Water treatment measures should be setting up more efficiently (Bay 8,9)	Contractor had improved the treatment of the silty water prior to discharge	Completion as observed on 2 Oct 2013

8.0.3. Five site inspections for Contract no. HK/2009/02 was carried out on 29 August 2013, 5, 12, 18 and 26 September 2013 in reporting month. Results of these inspections and outcomes are summarized in Table 8.2.

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

Item	Date	Observations	Action taken by Contractor	Outcome
130905_01	5-Sep-13	Drip tray should be provided to prevent dropping of chemical on the ground (Tunnel)	Drip tray was provided	Completion as observed on 12 Sep 2013
130918_01	18-Sep-13	Drip tray should be enclosed to prevent leakage of oil (outside Ferry Pier)	Drip tray was enclosed.	Completion as observed on 26 Sep 2013
130918_03	18-Sep-13	Stagnant water inside drip tray should be cleaned as chemical waste more frequently which preventing from overflow	Stagnant water was removed.	Completion as observed on 26 Sep 2013
130926_01	26-Sep-13	Water spraying should be carried out more frequently.(WCR1)	water was spraying more frequently.	Completion as observed on 03 Oct 2013

8.0.4. Four site inspections for Contract no. HY/2009/15 was carried out on 3, 10, 17 and 24 September 2013 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.3***.

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

Item	Date	Observations	Action taken by Contractor	Outcome
130903_01	3-Sep-13	Clear the leaked oil as chemical waste (Eastern breakwater EVA)	Leaked oil was cleared as chemical waste.	Completion as observed on 10 Sep 2013
130903_02	3-Sep-13	Provide drip tray to oil containers (Ex-pwca)	Drip trays were provided	Completion as observed on 10 Sep 2013
130910_01	10-Sep-13	Watering should be provided to breaking works and excavated material handling (TS2)	Watering was provided for breaking works	Completion as observed on 17 Sep 2013
130910_02	10-Sep-13	Drip tray should be provided to oil container and leaked oil should be cleared as chemical waste (TS2)	Drip trays were provided	Completion as observed on 17 Sep 2013
130910_03	10-Sep-13	Watering should be provided to dusty haul road (TS2)	Watering was provided for breaking works	Completion as observed on 17 Sep 2013
130917_01	17-Sep-13	Clear the leaked oil as the chemical waste and provide drip tray or proper storage for oil container	Leaked oil was cleared as chemical waste.	Completion as observed on 24 Sep 2013
130924_01	24-Sep-13	Provide drip tray to oil containers and clear the leaked oil as chemical waste (TS2, Ex-PCWA)	Oil containers were removed and the leaked oil was cleared as chemical waste.	Completion as observed on 2 Oct 2013
130924_02	24-Sep-13	Improve the tarpaulin sheet provided for transfer at hopper barge and clear the mud residue resting at the edge of hopper barge (TS2)	Tarpaulin sheet was provided.	Completion as observed on 2 Oct 2013

8.0.5. Four site inspections for Contract no. HK/2010/06 was carried out on 2, 9, 19 and 24 September 2013 in reporting month. No observation is found in the reporting month.

8.0.6. Five site inspections for Contract no. HY/2009/19 was carried out on 28 August 2013, 4, 11, 18 and 25 September 2013 in reporting month. The results of these inspections and outcomes are summarized in ***Table 8.4***.

Table 8.4 Summary of Environmental Inspections for Contract no. HY/2009/19

Item	Date	Observations	Action taken by Contractor	Outcome
130904_01	4-Sep-13	Construction runoff to nearby waterbody at the edge of seawall block, enhance the embarkment/ protection ar the edge of seawall (Portion III)	Embarkment was provided to avoid surface runoff.	Completion as observed on 11 Sep 2013.
130911_01	11-Sep-13	Muddy discharge from wastewater treatment plant to public drainage. Review the treatment process (Watson Road)	No further muddy discharge was observed	Completion as observed on 18 Sep 2013.

8.0.7. Four site inspections for Contract no. HK/2012/08 was carried out on 3, 10, 17 and 24 August 2013 in this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.5***.

Table 8.5 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
130910_01	10-Sep-13	Temporary stockpile should be removed as soon as possible. Constant water spraying to needed to suppress dust.	Temporary stockpile was removed.	Completion as observed on 17 September 2013

8.0.8. Five site inspections for Contract no. HY/2010/08 was carried out on 29 August 2013, 5, 12, 18 and 26 September 2013 in this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.6***.

Table 8.6 Summary of Environmental Inspections for Contract no. HY/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
130918_01	18-Sep-13	Improve the fencing and protection of trees retained on-site. (Victoria Park near Gate 1)	Improved fencing was provided	Completion as observed on 26 Sep 2013
130926_01	26-Sep-13	Enhance tree protection for retained trees near works area. (Portion 7, Gate 5)	Protection was improved.	Completion as observed on 3 Oct 2013

9. Complaints, Notification of Summons and Prosecution

9.0.1. No environmental complaint was received in the reporting period.

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	28
September 2013	0

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. Conclusion

10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.

10.0.2. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others were remains unchanged.

10.0.3. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

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

10.0.5. Water quality monitoring at WSD10 and WSD15 will be temporary suspended while water quality monitoring at WSD9 and WSD17 were implemented with respect to HK/2009/02 for the water quality monitoring scheduled on 8 Feb 12 onwards;

10.0.6. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.

10.0.7. Water quality monitoring at C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013, and conclude if any water deterioration had been identified during the 4-week water quality monitoring.

10.0.8. 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.

10.0.9. 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.

10.0.10. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.

10.0.11. 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.

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

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

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	Marine Works • Filling works up to +4.0mPD between CH290 to CH370. • Steel bridge structure at south side for construction of steel bridge over temporary open channel between CH290 and CH320. • Reinstatement of existing seawall at Expo Drive East. • Construction of RC structure proposed box culvert Bay 8 Wall and Bay 9 Base slab. Cooling Watermains, Salt Watermains and Sewer (On Land) • Reinstatement works at HKCEC north & northwest. • Salt watermain laying works along west of Convention Avenue to Fenwick Pier Street in Zone A3-5C, A3-1, A3-5B, A2-4A, A5-5 & A5-2 and at Convention Avenue near Grand Hyatt hotel in Zone A1-5C, A1-5B	• To conform the installation and setting as in the silt screen deployment plan • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To cover the dusty material or stockpile by impervious sheet • To space out noisy equipment and position as far as possible from sensitive receiver. • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance. • Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

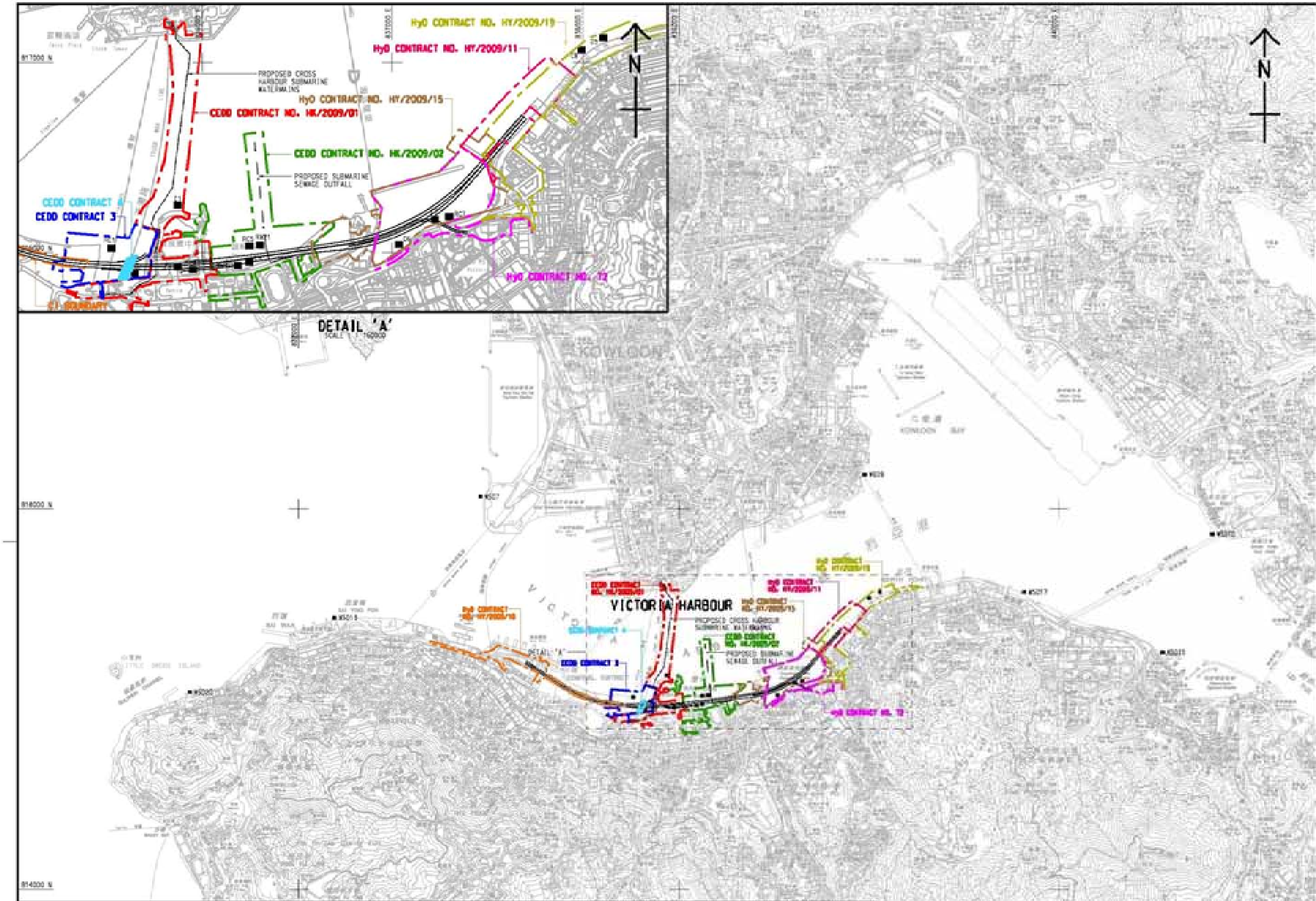
Contract No.	Key Construction Works	Recommended Mitigation Measures
	& A1-5A3. • Road advance works at the junction between Expo Drive East & Expo Drive Central and nearby area. • Cooling main laying works along Expo Drive East to Fleming Road for BF, BI & BG discharge system. Tunnel Works • Installation of pre-bored H-pile in CWB Stage 2 Atrium Link. • Filling of the existing open water channel and Dome. • Construction of the south Common D-wall. • Advance works for demolition of the HKCEC Bump home. • ELS for Stage 1 CWB.	
HK/2009/02	• T&C period of P9 cooling water system. • T&C period of P7 cooling water system. • Remedial works for P8 discharge mains at Ex-Pet Garden. • Full commissioning of P8 cooling water system. • Connection with the existing DN600 salt watermains at Hung Hing Road. • SWIC handed over to WSD and removal of temporary bulkhead for commencement of wet test of the WSD Salt Water Pumping Station. • Facade works for the boundary	• To cover the dusty material or stockpile by impervious sheet; • Frequency spray water on the dry dusty road and on the surface of concrete breaking • To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission • To conform the installation and setting as in the silt screen and silt curtain deployment plan • Movable noise barrier shall be deployed for demolition works • Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Review silt screen deployment and silt curtain deployment and resubmit associate plans to EPD • Implement silt screen and silt curtain in accordance with the associated plans submitted to

Contract No.	Key Construction Works	Recommended Mitigation Measures
	wall of WSD Salt Water Pumping Station. • Box Culvert N1 & Drain FRP-N and ready for DSD's inspection. • ABWF works in Ferry Pier. • Rectifying defects in movable ramp. • Most of the individual T&C of E&M equipment at Ferry Pier • Footing for the cover walkway (Grid 1 – Grid 4) and commence EVA construction extending from P7 Cooling Water Pumping Station to the Ferry Pier. • FSD Direct Link alignment with PCCW. • All outstanding works for Eastern Bulk Head Wall for substantial completion of Section IXA of the Works.. • Remaining reclamation works at WCR2 after abandonment of existing P8 Cooling Water Pumping Station. • Filling works at WCR4/TWCR4. • Backfilling and road reinstatement works at Hung Hing Road & Wan Shing Street for successful implementation of HHR Flyover Diversion (Stage 1).	EPD.
HY/2009/15	• Construction of EVA	• Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Implement silt screen and silt curtain in accordance with the associated plans submitted to EPD.
HK/2010/06	• Sheet piling works	• To conform the installation and

Contract No.	Key Construction Works	Recommended Mitigation Measures
		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	• D-wall and Barrette Construction • Construction works for Box Culvert T1 • Backfill works for Box Culvert U1 • Removal of marine platform • Construction of pile cap, pier & cross head (Marine) • Installation of dewatering well • Laying of 1500ϕ pipe • Launching of segments • Extraction of temporary pile from marine section • Construction of bridge truss TA1 • Installation of temporary lighting at IEC link • Demolition of parapet at IEC link • Construction of King Post at ELS	• To conform the installation and setting as in the silt screen and silt curtain deployment plan
HK/2012/08	• Site survey • Dredging • Demolition of the existing Expo Drive West Bridge • ELS for box culvert La at Lung King Street	• 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.
HY/2009/08	• Nil	• Nil

Figure 2.1

Project Layout



LEGEND:

■ WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

D1	HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
D2	TELECOM HOUSE/HK ACADEMY FOR PERFORMING ARTS / SHUI ON CENTRE
D3	HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
D4	WAN CHAI TOWER AND GREAT EAGLE CENTRE
D5	SUN HUNG KAI CENTRE
D6	PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
D7	WINDSOR HOUSE
D8	CITY GARDEN
D9	PROVIDENT CENTRE
RC1	PROPOSED HKAPA EXTENSION
RC5	SUN HUNG KAI CENTRE (REPROVISION)
RC7	WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

WSD21	WAN CHAI
WW1	WAN CHAI (REPROVISION)
WSD7	KOWLOON SOUTH
WSD9	TAI WAN
WSD10	CHA KWO LING
WSD15	SAI WAN HO
WSD17	QUARRY BAY
WSD19	SHEUNG WAN
WSD20	KENNEDY TOWN

DESIGNATED PROJECTS (DP)

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

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

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

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

DP5 - WAN CHAI EAST SEWAGE OUTFALL

DP6 - DREDGING FOR THE CROSS-HARBOUR WATER MAINS

DP1 IS COVERED BY EP - 356/2009

DP2 IS COVERED BY EP - 356/2009

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

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

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土木工程拓展署
Civil Engineering and Development Department

WAN CHAI DEVELOPMENT PHASE II

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

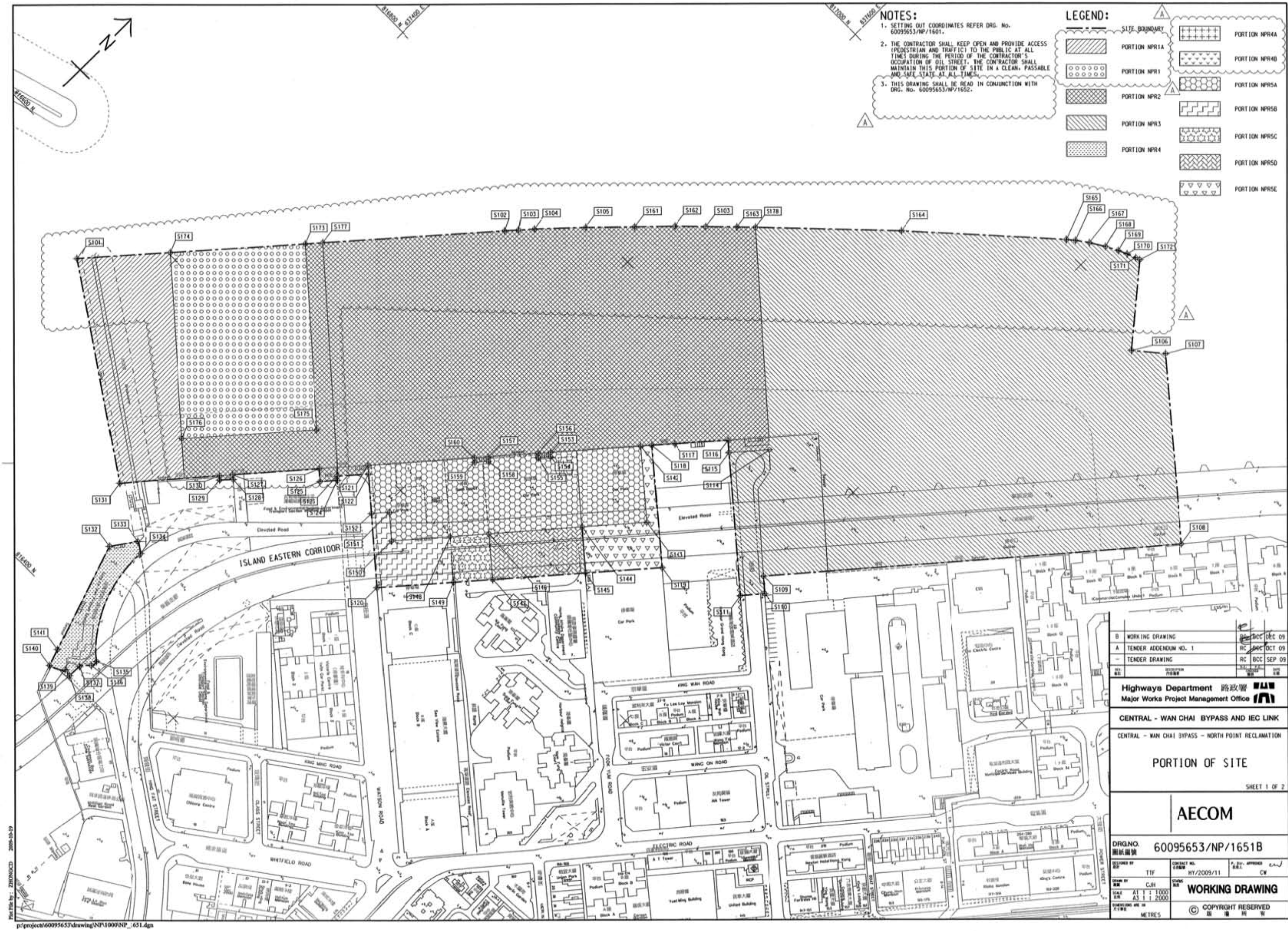
LOCATIONS OF WATER QUALITY MONITORING STATIONS

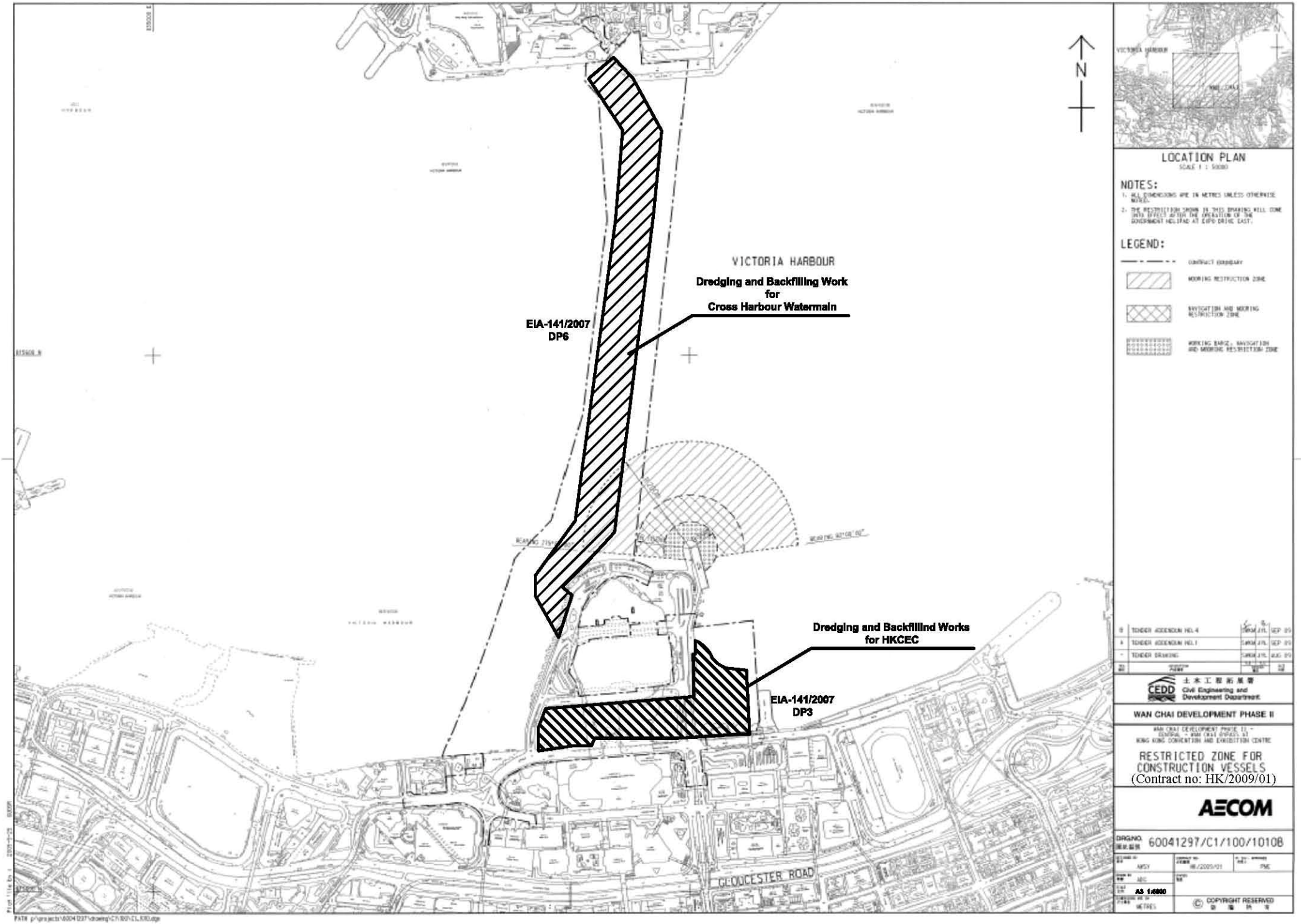
AECOM

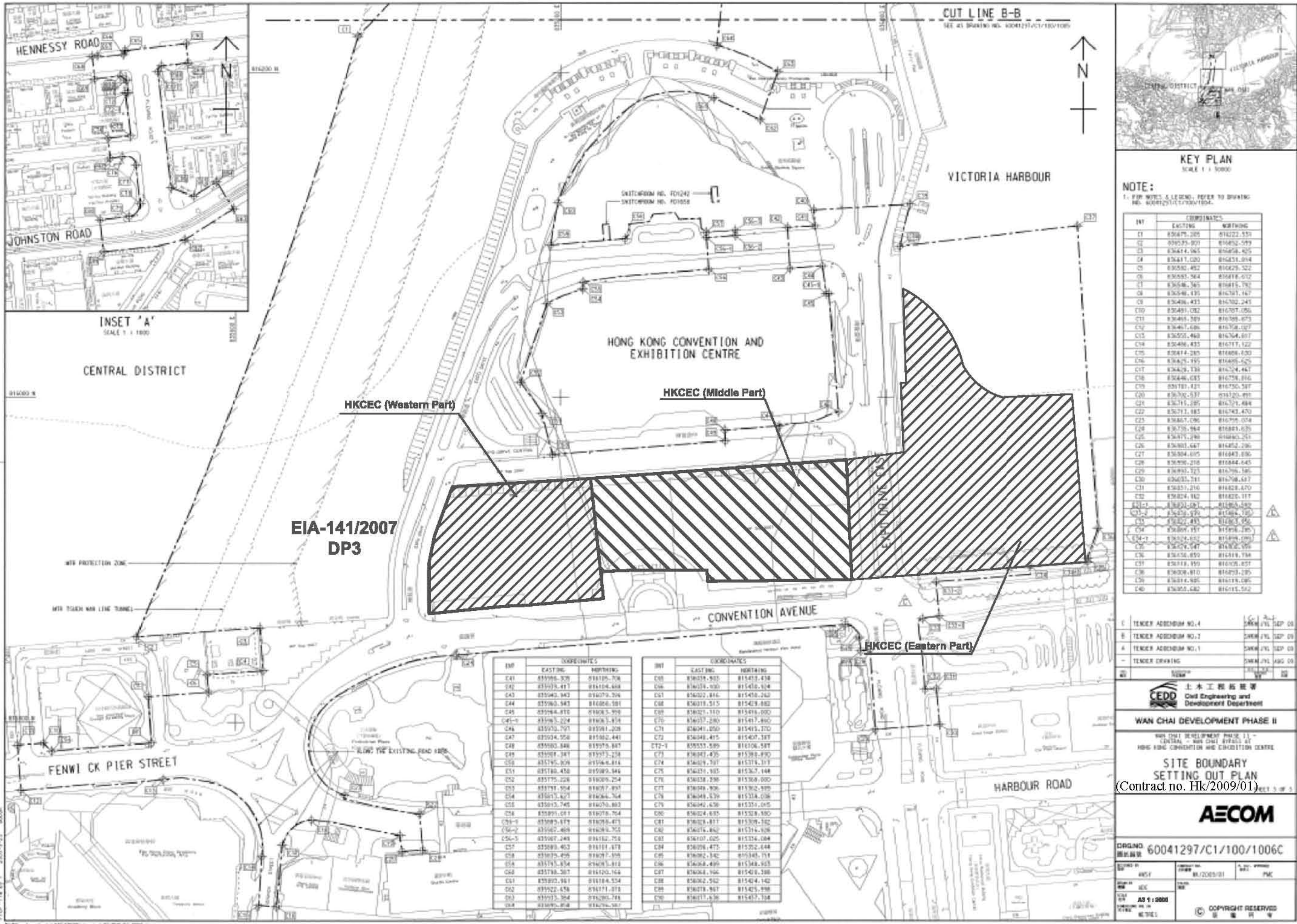
DRG NO. 60041297/C5/SK001

SCALE A1 1:20000

DIMENSIONS ARE IN METRES


NOTES:
1. SETTING OUT COORDINATES REFER DRG. No. 60095653/NP/1601.
2. THE CONTRACTOR SHALL KEEP OPEN AND PROVIDE ACCESS (PEDESTRIAN AND TRAFFIC) TO THE PUBLIC AT ALL TIMES DURING THE PERIOD OF THE CONTRACTOR'S OCCUPATION OF OIL STREET. THE CONTRACTOR SHALL MAINTAIN THIS PORTION OF SITE IN A CLEAN, PASSABLE AND SAFE STATE AT ALL TIMES.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRG. No. 60095653/NP/1652.
LEGEND:
SITE BOUNDARY
PORTION NPR1A
PORTION NPR1
PORTION NPR2
PORTION NPR3
PORTION NPR4
PORTION NPR4A
PORTION NPR4B
PORTION NPR5A
PORTION NPR5B
PORTION NPR5C
PORTION NPR5D
PORTION NPR5E
ISLAND EASTERN CORRIDOR
Elevated Road
KING WAH ROAD
WANG ON ROAD
KING MING ROAD
WATSON ROAD
FOOK YUM ROAD
OIL STREET
ELECTRIC ROAD
WHITFIELD ROAD
CLASS STREET
HING FAT STREET
POWER STREET
B WORKING DRAWING RC BCC DEC 09
A TENDER ADDENDUM NO. 1 RC BCC OCT 09
– TENDER DRAWING RC BCC SEP 09
Highways Department 路政署
Major Works Project Management Office
CENTRAL - WAN CHAI BYPASS AND IEC LINK
CENTRAL - WAN CHAI BYPASS - NORTH POINT RECLAMATION
PORTION OF SITE
SHEET 1 OF 2
AECOM
DRG.NO. 60095653/NP/1651B
DESIGNED BY TTF
CONTRACT NO. HY/2009/11
APPROVED CW
DRAWN BY CJH
SCALE A1 1 : 1000 A3 1 : 2000
STATUS WORKING DRAWING
DIMENSIONS ARE IN METRES
© COPYRIGHT RESERVED
p:\project\60095653\drawing\NP\1000\NP_1651.dgn


VICTORIA HARBOUR
Dredging and Backfilling Work
for
Cross Harbour Watermain
EIA-141/2007
DP6
Dredging and Backfillind Works
for HKCEC
EIA-141/2007
DP3
GLOUCESTER ROAD
N
LOCATION PLAN
SCALE 1 : 50000
NOTES:
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. THE RESTRICTION SHOWN IN THIS DRAWING WILL COME INTO EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EXPO DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
TENDER ADDENDUM NO.4
TENDER ADDENDUM NO.1
TENDER DRAWING
CEDD
土木工程拓展署
Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - EXTERNAL WORKS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
RESTRICTED ZONE FOR CONSTRUCTION VESSELS
(Contract no: HK/2009/01)
AECOM
DRG.NO. 60041297/C1/100/10108
AS 1:6000
METRES
© COPYRIGHT RESERVED


CUT LINE B-B
HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
CONVENTION AVENUE
FENWICK PIER STREET
HARBOUR ROAD
KEY PLAN
NOTE:
TENDER ADDENDUM NO.4
TENDER ADDENDUM NO.2
TENDER ADDENDUM NO.1
TENDER DRAWING
土木工程拓展署
CEDD Civil Engineering and Development Department
WAN CHAI DEVELOPMENT PHASE II
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
AECOM
DRG NO. 60041297/C1/100/1006C
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OVERALL WORKING SCHEDULE

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

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

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

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

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

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

N

N 816230

N 816030

N 815830

GOLDEN BAUHINIA SQUARE

VICTORIA HARBOUR

RECLAMATION WORKS BY OTHERS

TUNNEL WORKS BY OTHERS

35m CLEAR SPACE

P7 P8 P9

DIRECTION OF TUNNEL WORKS

EXISTING WATER INTAKES

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

DRAINAGE DIVERSION OF 1800 PIPE

B1 B2 B3 B4 B5 B6 B7 B8

A1 A2 A3 A4 A5 A6

C1 C2 C3 C4 C6 C7

D1

0 20 40 60m

1 : 2000 SCALE BAR

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

CLIENT

ENGINEER'S REPRESENTATIVE

CONTRACTOR

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

PROJECT

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

DRAWING TITLE

DETAILED WORKS SCHEDULE AND LOCATION PLAN - STAGE 1

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

DRAWING NO. CWCRJV/HK200902/SK0031 REV C

SCALE 1 : 2000 (A3)

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

LEGEND:

WORKS AREA

DREDGING AREA FOR
MITGATION OF ODOUR(DP3)

SITE BOUNDARY

TCBR1E

TCBR2
AND
TCBR3

TCBR4

TCBR1W

TPCWAE

TPCWAW

DP3

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGRG. (HONG KONG) LTD.

Highways Department
CONTRACT NO. HY/2009/15
CENTRAL–WAN CHAI BYPASS –TUNNEL
(CAUSEWAY BAY TYPHOON
SHELTER SECTION)

TITLE

LOCATION PLAN OF WORKS AREA

DRG. NO.

CWBT/EPD/001B

SCALE	STATUS
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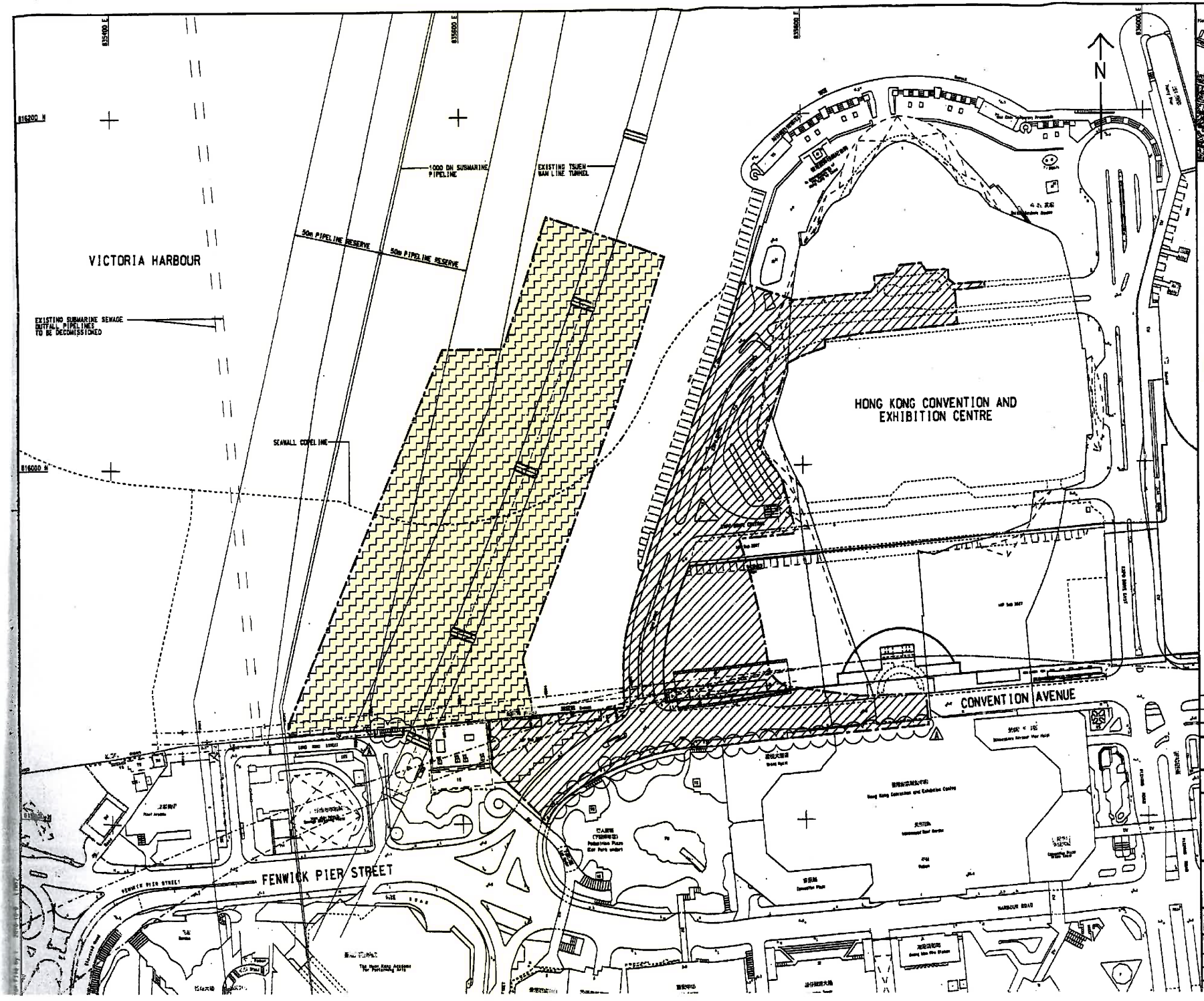
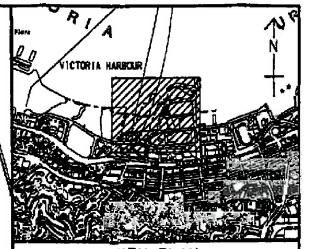
DIMENSIONS ARE IN MILLIMETERS	COPYRIGHT RESERVED





KEY PLAN
SCALE 1 : 20000

NOTES:

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

LEGEND:

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

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

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

WAN CHAI DEVELOPMENT PHASE II

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

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

AECOM

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

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

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

Civil Engineering & Development Department

Mr. Patrick Keung
Senior Engineer
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Fax: 2577 5040

Project Proponent

Highways Department

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

Environmental Protection Department

Mr. Billy Ma
Environmental Protection Officer
Tel: 2835 2390
Fax: 2591 0558

Engineer's Representative for WDII

AECOM

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

Engineer's Representative for CWB

AECOM

Mr. Peter Poon
Principal Resident Engineer
Tel: 3922 8332
Fax: 3529 2829

Independent Environmental Checker

ENVIRON Hong Kong Limited

Mr. David Yeung
Independent Environmental Checker
Tel: 3465 2888
Fax: 3465 2899

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Chun Wo – Leader JV

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JV Board Representative
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HK/2009/02 Contractor

Chun Wo – CRGL JV

Mr. Chan Sing Cho
Project Manager
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HK/2010/06 Contractor

Gammon – Leader JV

Mr. Paul Lui
Project Manager
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HK/2012/08 Contractor

China State - Leader JV

Mr. Andrew Tse
Project Director
Tel: 9137 1811 Fax: 2827 9996

HY/2009/15 Contractor

China State Construction Engineering (HK) Ltd.
Mr. K C Cheung
Project Director
Tel: 2823 7813 Fax: 2865 5229

HY/2009/18 Contractor

Leighton Construction (Asia) Ltd.

Mr. Jimmy Chu
Site Agent
Tel: 2214 7700 Fax: 2140 6799

HY/2009/19Contractor

Chun Wo – CRGL JV

Mr. Rayland Lee
Project Manager
Tel: 3758 8879 Fax: 2570 8013

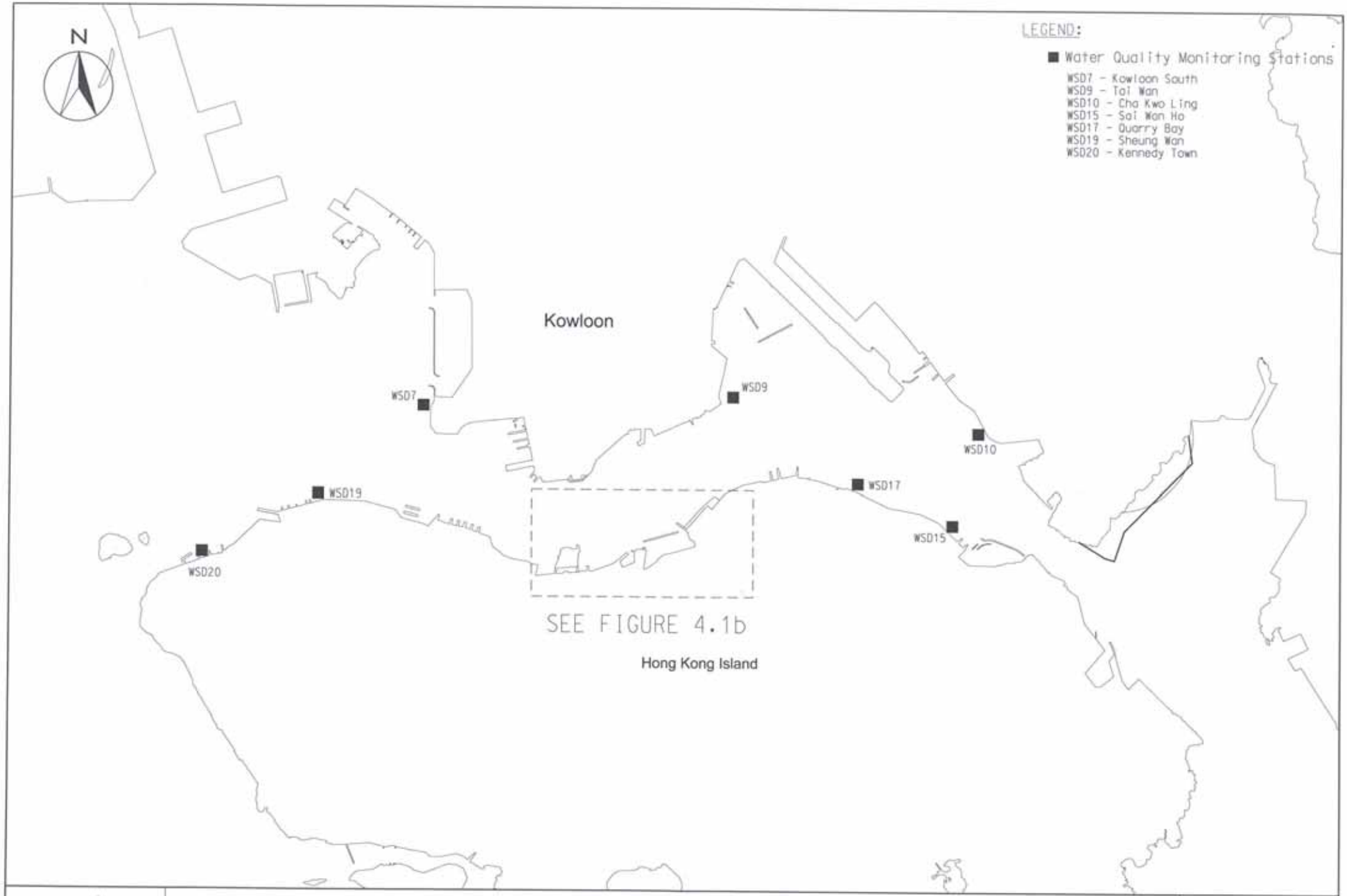
Environmental Team

Lam Geotechnics Limited

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

Figure 4.1

Locations of Monitoring Stations



MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

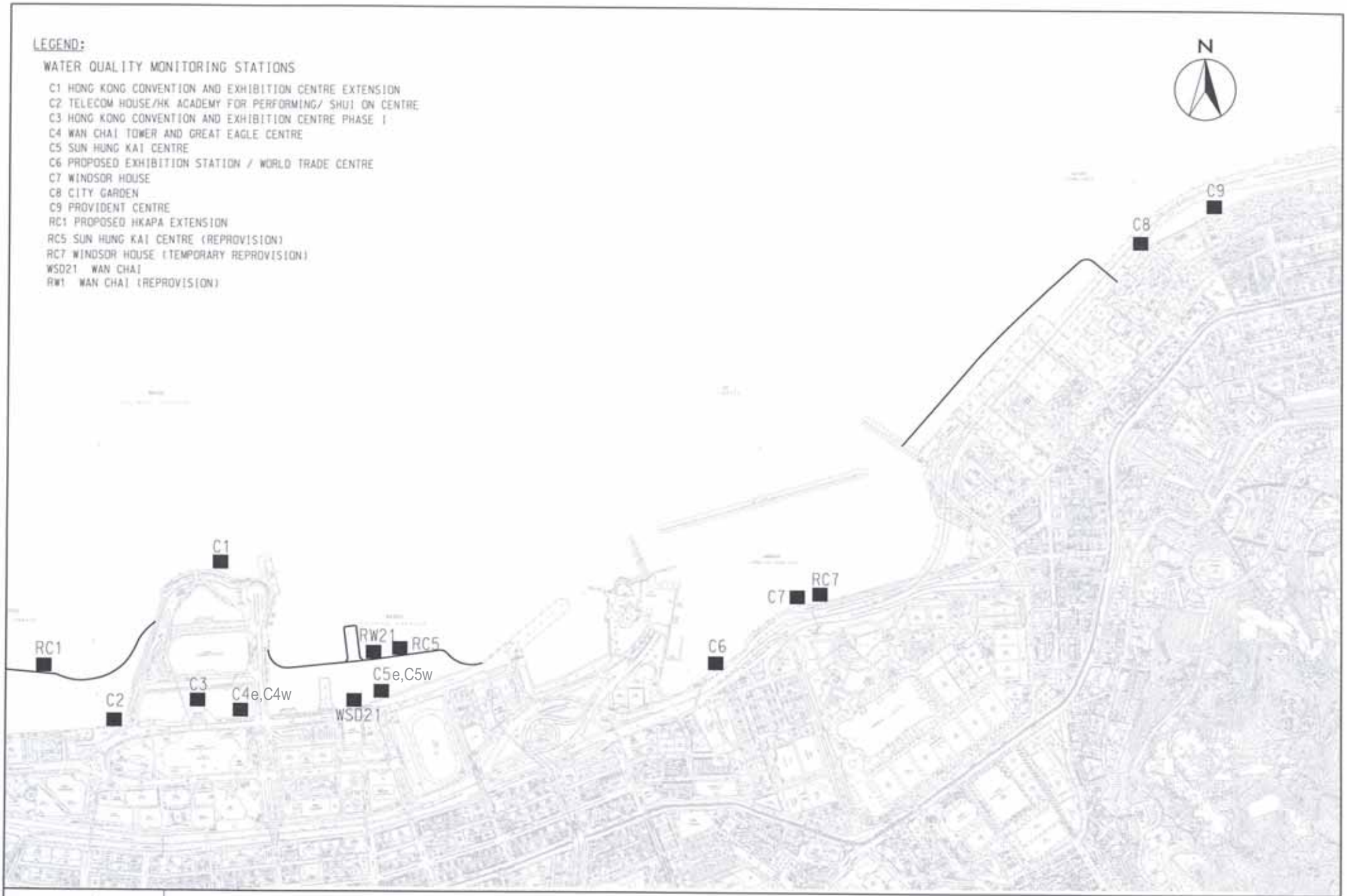
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

(SHEET 1 OF 2)

FIGURE 4.1a

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



MAUNSELL | AECOM
Maunsell Consultants Asia Ltd

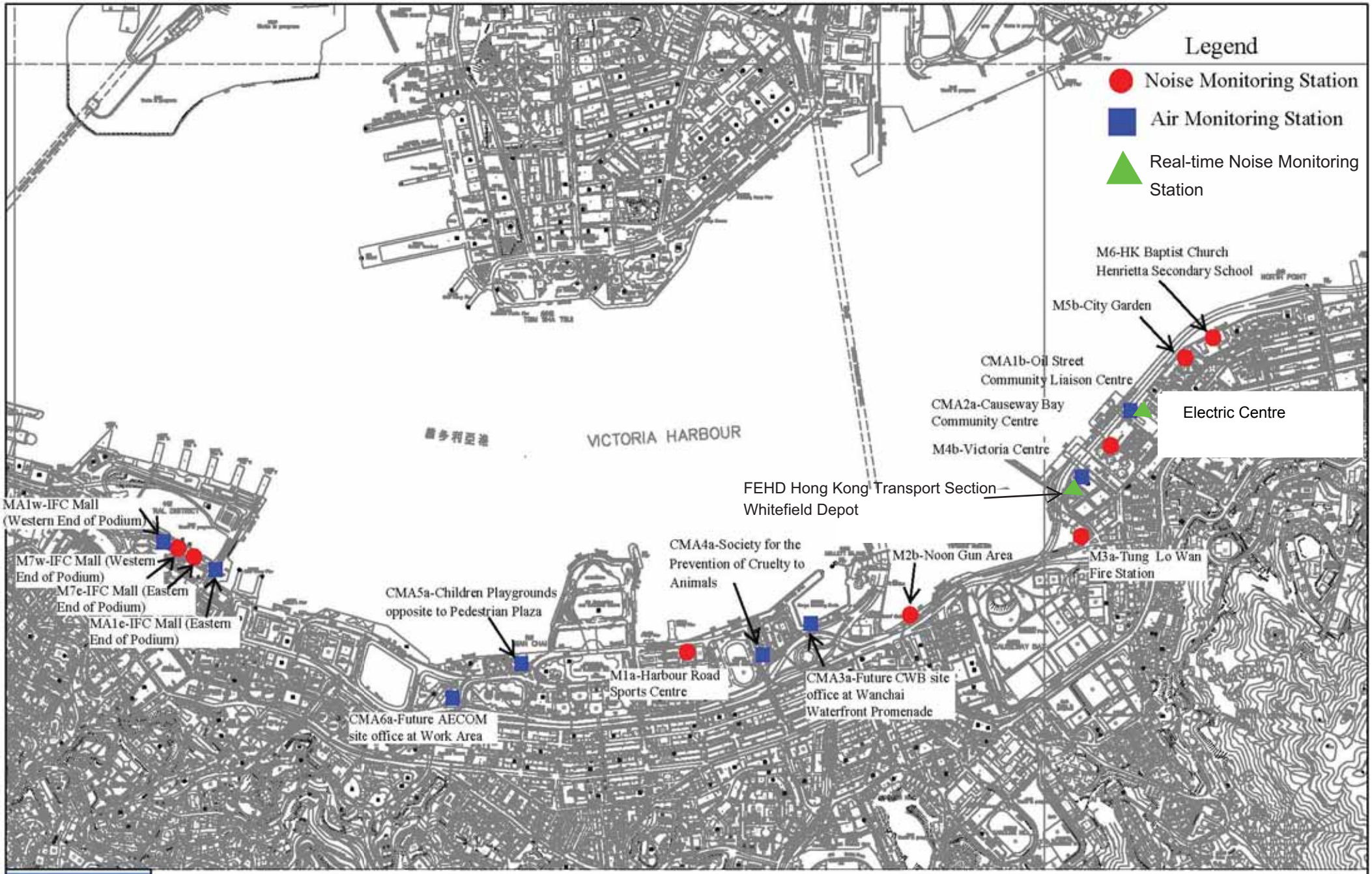
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

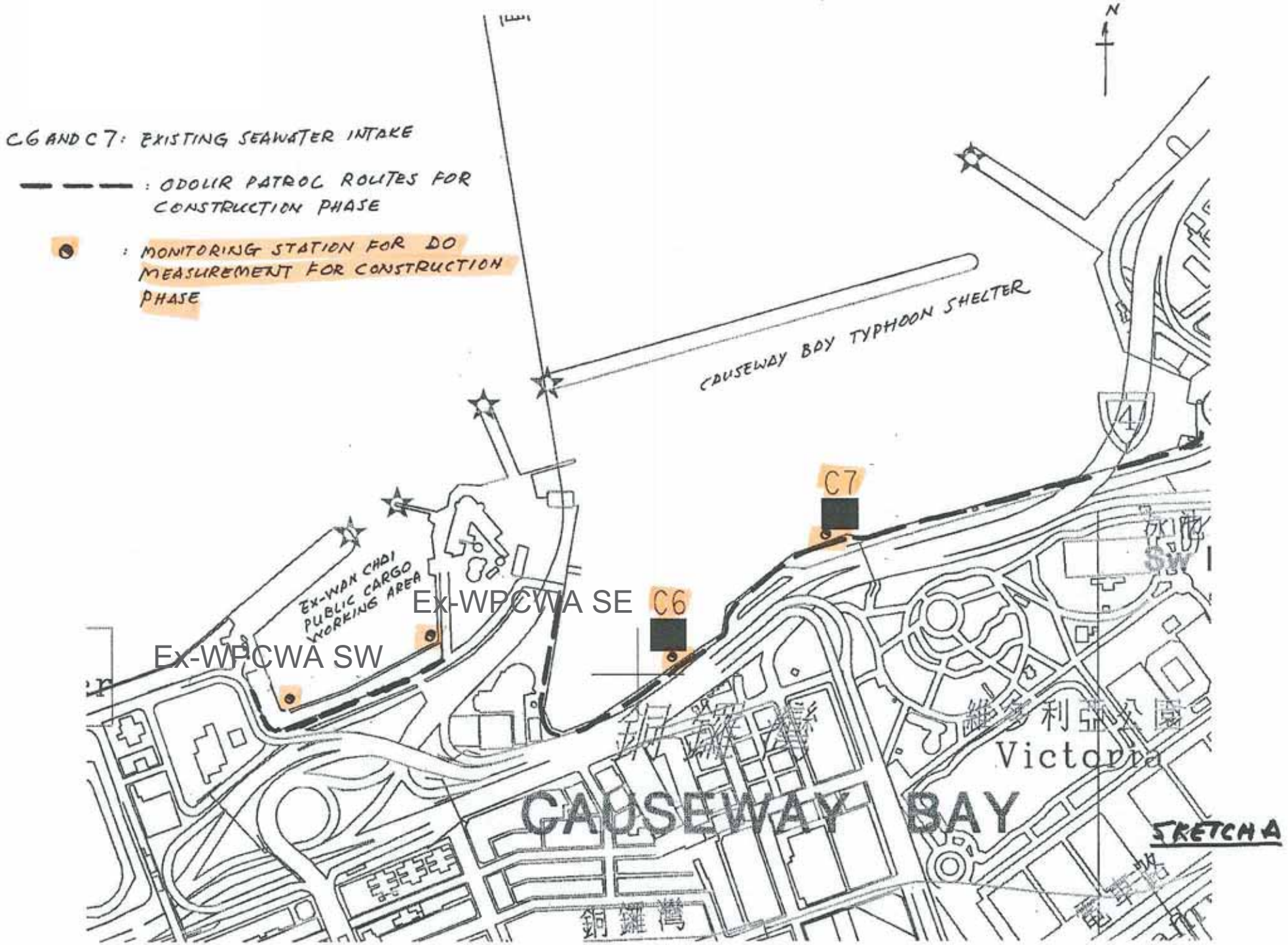
(SHEET 2 OF 2)

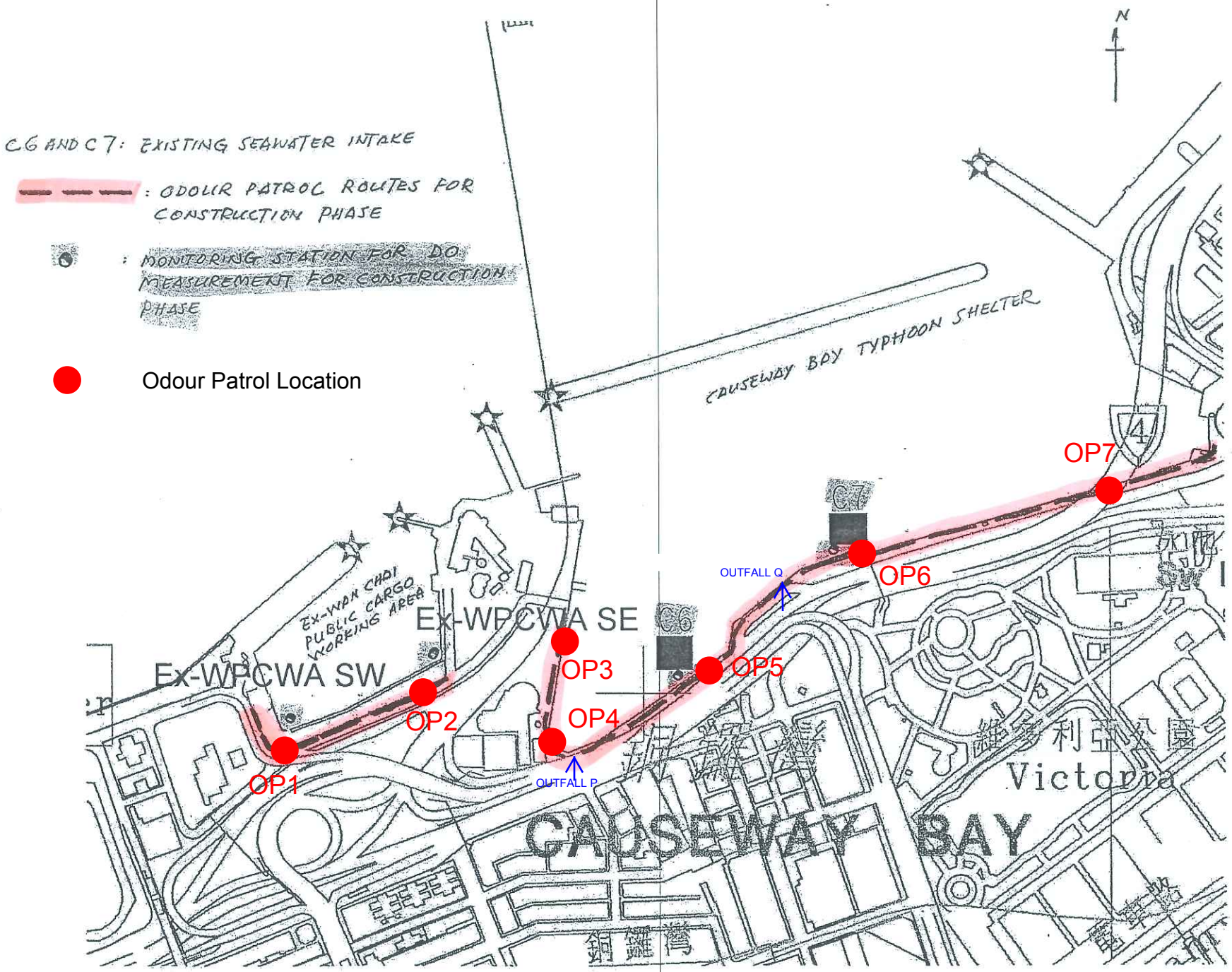
FIGURE 4.1b

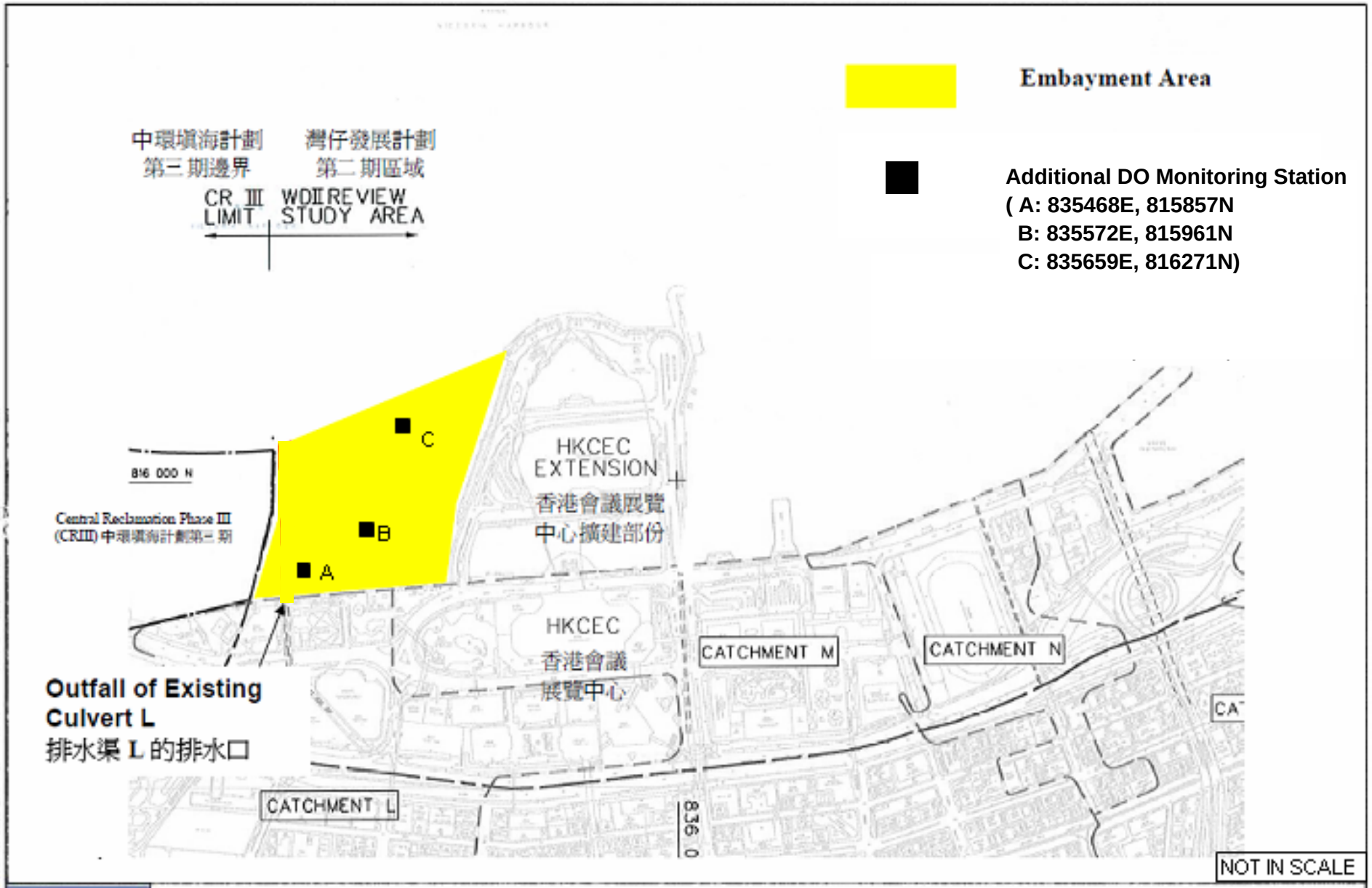
P:/60017193/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



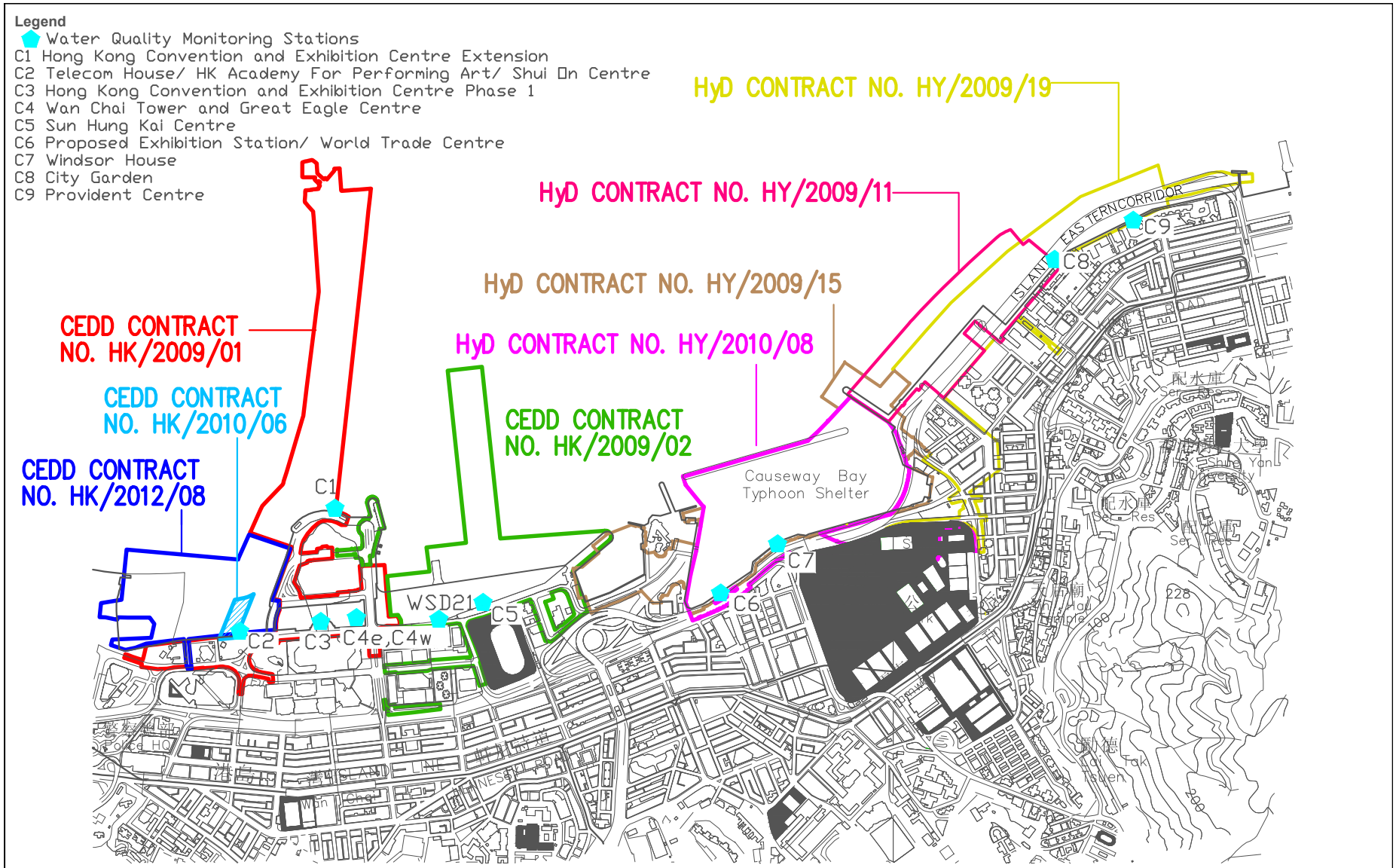
Location plan of Environmental Monitoring Stations


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

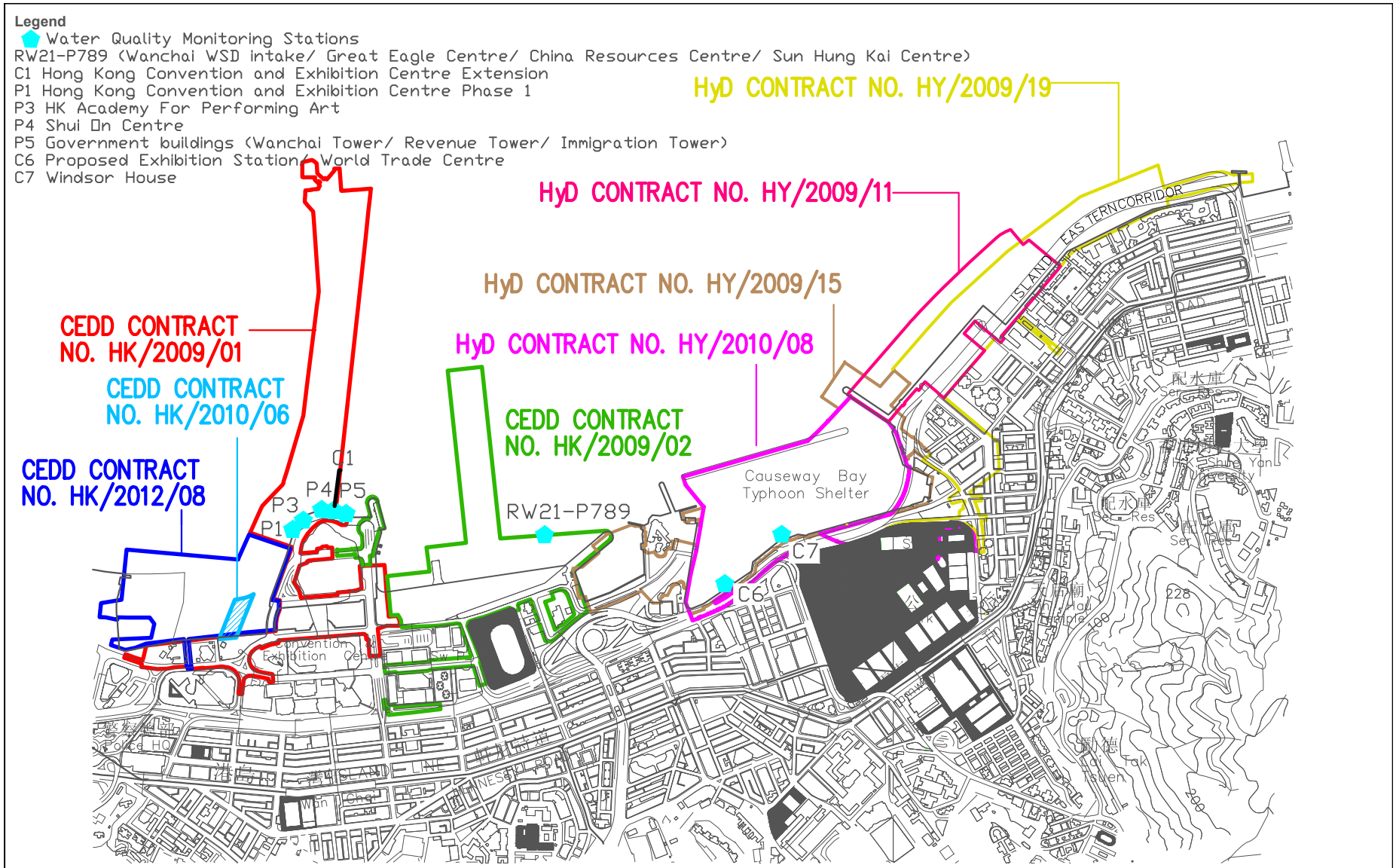

C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL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



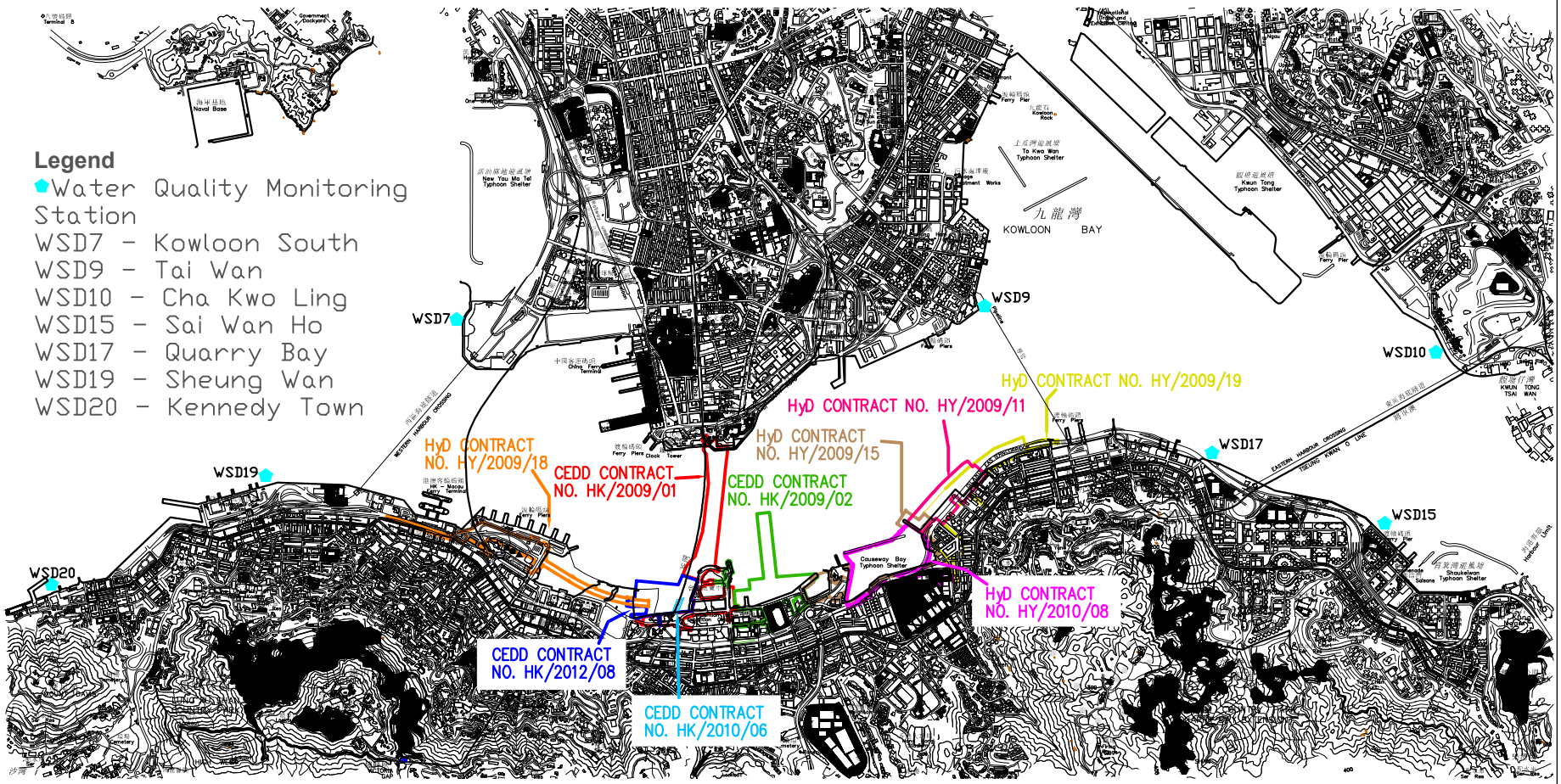
Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow



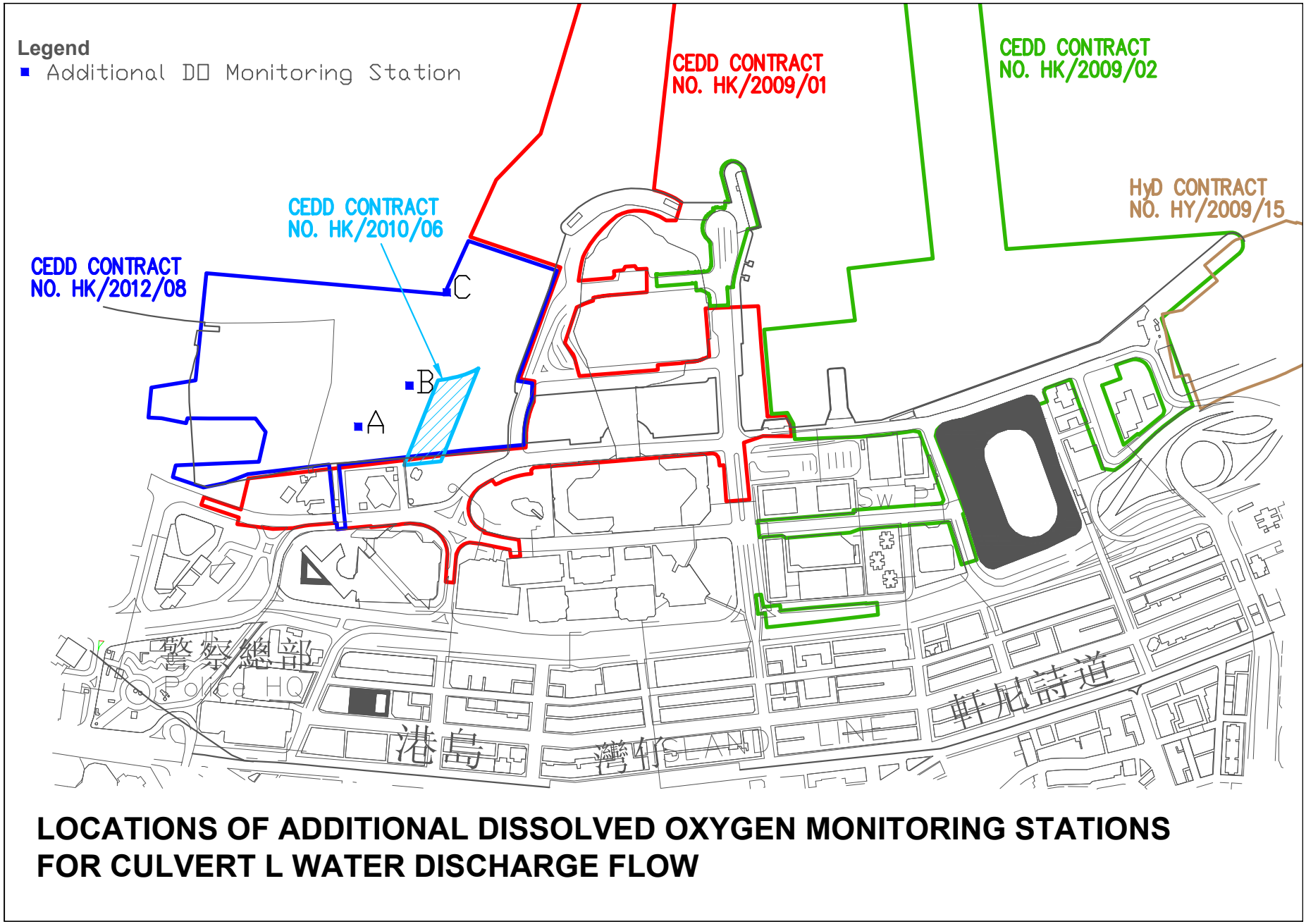
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF ADDITIONAL DISSOLVED OXYGEN MONITORING STATIONS FOR CULVERT L WATER DISCHARGE FLOW

Appendix 3.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

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

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

[1] CEDD will identify an implementation agent.

[2] CEDD will identify an implementation agent.

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

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

Table A13.2 Implementation Schedule for Noise Control

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

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

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

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

Contract no. HK/2011/07
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- Sampling, Field Measurement and Testing Works (Stage 2) Monthly EM&A Report

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

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

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

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

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

Table A13.3 Implementation Schedule for Water Quality Control

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S5.8	The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8	As a mitigation measure, to avoid the accumulation of water borne pollutants within the temporary embayment between CRIII and HKCEC1, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the marine works zones shall not be more than the maximum production rates stated in the table below. These are the production rates without considering the effect of silt curtain. **Reclamation Area** / **Maximum Dredging Rate** (m^3 per day; m^3 per hour (for 16 hrs per day)) / **Maximum Dredging Rate (m^3 per week)** **Dredging along seawall or breakwater** North Point Shoreline Zone (NPR): 6,000 / 375 / 42,000 Causeway Bay Shoreline Zone: TBW 1,500 / 94 / 10,500; TCBR 6,000 / 375 / 42,000 PCWA Zone: 5,000 / 313 / 35,000	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

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

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

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

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

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

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

[3] CEDD will identify an implementation agent.

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

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

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

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

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

Table A13.4 Implementation Schedule for Waste Management

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

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

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

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

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

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

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

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

Table A13.5 Implementation Schedule for Land Contamination

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

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

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

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

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

Table A13.6 Implementation Schedule for Marine Ecology

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

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

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

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

Table A13.7 Implementation Schedule for Landscape and Visual

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

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

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

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

[4] CEDD will identify an implementation agent

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

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

[5] CEDD will identify an implementation agent

Appendix 4.1

Action and Limit Level

Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

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

Action and Limit Level for Air Monitoring

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

Note 2:

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

Action and Limit Level for Water Monitoring

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

Remarks:

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

Action and Limit Levels for Odour Patrol

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

Appendix 4.2

Copies of Calibration Certificates

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 33624 Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q31494 **Date of receipt :** 30-May-13

Item Tested

Description : Digital Sound Level Meter

Manufacturer : B&K

Model : Type 2236 **Serial No. :** 2100736

Test Conditions

Date of Test : 3-Jun-13 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure : Z01.

Test Results

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

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S017	Multi-Function Generator	C127181	SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCL-HKSAR

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

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

Calibrated by : Liam Wong

Approved by : Dorothy Cheuk

Date: 3-Jun-13

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

E

Calibration Certificate

Results :

1. SPL Accuracy

UUT Setting				Applied Value (dB)	UUT Reading (dB)
Range	Parameter	Frequency Wt.	Freq. Response		
20 - 100	SPL	dBA	F	94.0	93.8
			S		93.8
		dBC	F		93.8
		dBL	F		93.9
		1 kHz	F		93.8
40 - 120	SPL	dBA	F	94.0	93.9
		1 kHz	F		93.9
	SPL	dBA	F	114.0	113.8
			S		113.8
		dBC	F		113.9
		dBL	F		113.9
		1 kHz	F		113.8

IEC 651 Type 1 Spec. : ± 0.7 dB
Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

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

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	113.9	0.0	± 0.7 dB
130	104.0	103.9	0.0	
120	94.0	93.9 (Ref.)	--	
110	84.0	83.9	0.0	
100	74.0	73.9	0.0	
100	64.0	63.9	0.0	
100	54.0	53.9	0.0	

Uncertainty : ± 0.1 dB

Calibration Certificate

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	83.9	0.0	± 0.4 dB
	94.0	93.9 (Ref.)	- -	
	95.0	94.9	0.0	± 0.2 dB

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.6	- 39.4 dB, ± 1.5 dB
63 Hz	-26.4	- 26.2 dB, ± 1.5 dB
125 Hz	-16.3	- 16.1 dB, ± 1 dB
250 Hz	-8.8	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.2	+ 1.2 dB, ± 1 dB
4 kHz	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-6.8	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB

5. Time Averaging

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

Uncertainty : ± 0.1 dB

Calibration Certificate

6. Filter Response

Filter Setting	Attenuation (dB)	IEC 1260 Class 1 Spec.
125 Hz	-63.6	< - 61
250 Hz	-44.8	< - 42
500 Hz	-21.0	< - 17.5
707 Hz	-3.7	- 2 ~ - 5
1 kHz (Ref.)	0.0 (Ref.)	--
1.414 kHz	-4.1	- 2 ~ - 5
2 kHz	-21.4	< - 17.5
4 kHz	-45.0	< - 42
8 kHz	-63.9	< - 61

Uncertainty : ± 0.2 dB

Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 996 hPa
4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 34228 Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q31610 **Date of receipt :** 21-Jun-13

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73 **Serial No. :** 10707358

Test Conditions

Date of Test : 25-Jun-13 **Supply Voltage :** --

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

Test Specifications

Calibration check.

Ref. Document/Procedure : F21, Z02.

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	30259	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	30620	NIM-PRC & SCL-HKSAR
S041	Universal Counter	28347	SCL-HKSAR
S206	Sound Level Meter	30655	SCL-HKSAR

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

The test equipment used for calibration are traceable to International System of Units (SI).

The test results apply to the above Unit-Under-Test only

Calibrated by : Liam Wong

Approved by : Dorothy Cheuk

Date: 25-Jun-13

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

E

Calibration Certificate

Results :

1. **Level Accuracy (at 1 kHz)**

UUT Nominal Value	Measured Value	Mfr's Spec.
94 dB	93.88 dB	± 1 dB

Uncertainty : ± 0.2 dB

2. **Frequency Accuracy**

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.995 kHz	± 2 %

Uncertainty : ± 0.1 %

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

4. **Total Harmonic Distortion** : < 0.2 %
   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 were the mean of 3 measurements.
4. Atmospheric Pressure : 999 hPa

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

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS EMILY KONG	**WORK ORDER:**	HK1316903
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	25/06/2013
		DATE OF ISSUE:	03/07/2013
PROJECT:	--		

COMMENTS

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

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	XIN RUI
Model No.:	WGZ-3B
Serial No.:	1203008
Equipment No.:	--
Date of Calibration:	03 July, 2013

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

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

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

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1316903
Date of Issue: 03/07/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Turbidimeter
Brand Name: XIN RUI
Model No.: WGZ-3B
Serial No.: 1203008
Equipment No.: --
Date of Calibration: 03 July, 2013 Date of next Calibration: 03 October, 2013

Parameters:

Turbidity

Method Ref: APHA 21st Ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.13	--
4	3.82	-4.5
40	38.37	-4.1
80	80.45	0.6
400	383.8	-4.1
800	840.4	5.1
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: **DEREK LO** **WORK ORDER:** **HK1310006**

CLIENT: **LAM GEOTECHNICS LIMITED**

DATE RECEIVED: **13/07/2013**

DATE OF ISSUE: **15/07/2013**

ADDRESS: **11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG**

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration 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 acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203010
Equipment No.:	--
Date of Calibration:	15 July, 2013

Remarks:

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

Mr. Peter Lee
Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310006
DATE OF ISSUE: 15th July, 2013
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203010
Equipment No.:	--
Date of Calibration:	15 July, 2013
Date of next Calibration:	15 October, 2013

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	0
4	3.76	-6.0
10	10.3	+3.0
40	38.6	-3.5
100	104	+4.0
400	386	-3.5
1000	989	-1.1
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

Mr. Peter Lee
Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
Phone +852 2527 6691 | Email info@pilot-testing.com

領導檢測有限公司

PILOT TESTING LIMTIED

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1310007

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 30/07/2013

DATE OF ISSUE: 31/07/2013

ADDRESS: 11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD, WANCHAI, HONG KONG

PROJECT: ---

METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration 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 acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity
Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	31 July, 2013

Remarks:

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

Mr. Peter Lee

Director

Address: Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong
Phone +852 2527 6691 | Email info@pilot-testing.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1310007
DATE OF ISSUE: 31st July, 2013
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	31 July, 2013
Date of next Calibration:	30 October, 2013

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	+0.2
4	3.85	-3.8
10	9.68	-3.2
40	42.1	+5.2
100	96.0	-4.0
400	387	-3.2
1000	985	-1.5
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

Mr. Peter Lee
Director

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS EMILY KONG	**WORK ORDER:**	HK1317591
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	03/07/2013
		DATE OF ISSUE:	12/07/2013
PROJECT:	--		

COMMENTS

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

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	Sonde Environmental Monitoring System
Brand Name:	YSI
Model No.:	Professional plus
Serial No.:	11F100597
Equipment No.:	--
Date of Calibration:	10 July, 2013

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

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

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

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1317591
Date of Issue: 12/07/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: Sonde Environmental Monitoring System
Brand Name: YSI
Model No.: Professional plus
Serial No.: 11F100597
Equipment No.: --
Date of Calibration: 10 July, 2013 Date of next Calibration: 10 October, 2013

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.52	4.63	0.11
6.72	6.53	-0.19
7.80	7.71	-0.09
	Tolerance Limit (±mg/L)	0.20

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.92	-0.08
7.0	7.08	0.08
10.0	10.07	0.07
	Tolerance Limit (±pH unit)	0.20

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	9.49	-5.1
20	19.02	-4.9
30	29.29	-2.4
	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)
10.0	11.2	1.2
22.5	23.6	1.1
39.0	38.8	-0.2
	Tolerance Limit (±°C)	2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS EMILY KONG	**WORK ORDER:**	HK1319020
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	15/07/2013
		DATE OF ISSUE:	02/08/2013
PROJECT:	--		

COMMENTS

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

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Equipment Type:	MULTIMETER
Brand Name:	YSI
Model No.:	650XL
Serial No.:	05C1607
Equipment No.:	--
Date of Calibration:	25 July, 2013

NOTES

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

ISSUING LABORATORY: HONG KONG

Address

ALS Technichem (HK) Pty Ltd

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

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

Mr. Fung Lim Chee, Richard
General Manager -
Greater China & Hong Kong

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1319020
Date of Issue: 02/08/2013
Client: LAM GEOTECHNICS LIMITED

Equipment Type: MULTIMETER
Brand Name: YSI
Model No.: 650XL
Serial No.: 05C1607
Equipment No.: --
Date of Calibration: 25 July, 2013 Date of next Calibration: 25 October, 2013

Parameters:

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.82	5.11	0.29
6.22	6.45	0.23
7.60	8.00	0.40
	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	4.06	0.06
7.0	6.99	-0.01
10.0	9.98	-0.02
	Tolerance Limit (±pH unit)	0.20

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0	--
10	10.10	1.0
20	18.68	-6.6
30	30.11	0.4
	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)
10	10.05	0.1
20	19.47	-0.5
41	41.09	0.1
	Tolerance Limit (±°C)	2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr. Fung Lim Chee, Richard
General Manager
Greater China & Hong Kong

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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jul 15, 2013 Rootsmeter S/N 0438320 Ta (K) - 300
Operator Tisch Orifice I.D. - 0005 Pa (mm) - 759.46

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	1.3910	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8800	7.9	5.00
4	NA	NA	1.00	0.8380	8.8	5.50
5	NA	NA	1.00	0.6930	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9884	0.7106	1.4090		0.9958	0.7159	0.8888
0.9843	1.0013	1.9926		0.9916	1.0087	1.2570
0.9822	1.1161	2.2278		0.9895	1.1244	1.4054
0.9811	1.1708	2.3365		0.9884	1.1795	1.4740
0.9760	1.4084	2.8180		0.9832	1.4188	1.7777
Qstd slope (m) =		2.01968		Qa slope (m) =		1.26469
intercept (b) =		-0.02746		intercept (b) =		-0.01732
coefficient (r) =		0.99999		coefficient (r) =		0.99999
y axis = SQRT[H2O(Pa/760)(298/Ta)]				y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	17-Jul-13
Equipment no.	:	EL452	**Calbration Due Dat**	:	17-Sep-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	6.2	6.2	12.4	1.7416	61	60.1977
2	5.1	5.1	10.2	1.5808	53	52.3029
3	4.1	4.1	8.2	1.4188	46	45.3950
4	2.5	2.5	5.0	1.1110	32	31.5791
5	1.4	1.4	2.8	0.8349	21	20.7238

By Linear Regression of Y on X

Slope, m	=	43.5073	Intercept, b	=	-16.1479
Correlation Coefficient*	=	0.9994			
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	:	17-Jul-13	**Date**	:	17-Jul-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	17-Jul-13
Equipment no.	:	EL449	**Calbration Due Dat**	:	17-Sep-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	6.1	6.1	12.2	1.7276	59	58.2240
2	5.0	5.0	10.0	1.5654	51	50.3292
3	4.2	4.2	8.4	1.4359	43	42.4344
4	2.5	2.5	5.0	1.1110	26	25.6580
5	1.5	1.5	3.0	0.8637	14	13.8159

By Linear Regression of Y on X

Slope, m = 51.8624 Intercept, b = -31.4400

Correlation Coefficient* = 0.9996

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	:	17-Jul-13	**Date**	:	17-Jul-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	22-Aug-13
Equipment no.	:	EL333	**Calbration Due Dat**	:	22-Oct-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$)
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	5.8	5.8	11.6	1.6778	58	57.2371
2	4.8	4.8	9.6	1.5275	49	48.3555
3	4.0	4.0	8.0	1.3956	42	41.4476
4	2.4	2.4	4.8	1.0841	25	24.6712
5	1.6	1.6	3.2	0.8877	14	13.8159

By Linear Regression of Y on X

Slope, m	=	54.5515	Intercept, b	=	-34.6041
Correlation Coefficient*	=	0.9999			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry	**Checked by**	:	Derek Lo
Date	:	22-Aug-13	**Date**	:	22-Aug-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	17-Jul-13
Equipment no.	:	EL390	**Calbration Due Dat**	:	17-Sep-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.)	**Continuous Flow Recorder, W**	**IC** $(W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31)$
	(up)	(down)	(difference)	**X-axis**	(CFM)	**Y-axis**
1	6.0	6.0	12.0	1.7135	61	60.1977
2	5.0	5.0	10.0	1.5654	54	53.2897
3	4.1	4.1	8.2	1.4188	46	45.3950
4	2.5	2.5	5.0	1.1110	31	30.5923
5	1.5	1.5	3.0	0.8637	19	18.7501

By Linear Regression of Y on X

Slope, m	=	48.9540	Intercept, b	=	-23.6832
Correlation Coefficient*	=	0.9999			
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	:	17-Jul-13	**Date**	:	17-Jul-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	17-Jul-13
Equipment no.	:	EL380	**Calbration Due Dat**	:	17-Sep-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7276	61	60.1977
2	4.9	4.9	9.8	1.5498	53	52.3029
3	4.0	4.0	8.0	1.4016	46	45.3950
4	2.4	2.4	4.8	1.0888	31	30.5923
5	1.5	1.5	3.0	0.8637	20	19.7369

By Linear Regression of Y on X

Slope, m	=	46.9543	Intercept, b	=	-20.6306
Correlation Coefficient*	=	0.9999			
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	:	17-Jul-13	**Date**	:	17-Jul-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	17-Jul-13
Equipment no.	:	EL448	**Calbration Due Dat**	:	17-Sep-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	305	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01145	**Intercept, bc**	-0.02803
Last Calibration Date	19-Jul-12	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	19-Jul-13	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3 \times 298/T_a)^{1/2}/35.31$) **Y-axis**
1	6.1	6.1	12.2	1.7276	60	59.2108
2	5.0	5.0	10.0	1.5654	52	51.3161
3	4.1	4.1	8.2	1.4188	44	43.4213
4	2.5	2.5	5.0	1.1110	30	29.6054
5	1.5	1.5	3.0	0.8637	19	18.7501

By Linear Regression of Y on X

Slope, m	=	46.8114	Intercept, b	=	-22.1402
Correlation Coefficient*	=	0.9994			
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	:	17-Jul-13	**Date**	:	17-Jul-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	16-Sep-13
Equipment no.	:	EL380	**Calbration Due Dat**	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	304	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7214	61	60.2369
2	5.1	5.1	10.2	1.5751	53	52.3370
3	4.1	4.1	8.2	1.4137	45	44.4370
4	2.4	2.4	4.8	1.0848	30	29.6247
5	1.5	1.5	3.0	0.8605	20	19.7498

By Linear Regression of Y on X

Slope, m	=	46.6426	Intercept, b	=	-20.8083
Correlation Coefficient*	=	0.9994			
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-Sep-13	**Date**	:	16-Sep-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	16-Sep-13
Equipment no.	:	EL390	**Calbration Due Dat**	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	304	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3\times298/T_a)^{1/2}/35.31$) **Y-axis**
1	6.2	6.2	12.4	1.7353	62	61.2244
2	5.1	5.1	10.2	1.5751	52	51.3495
3	4.1	4.1	8.2	1.4137	44	43.4495
4	2.5	2.5	5.0	1.1069	29	28.6372
5	1.6	1.6	3.2	0.8882	17	16.7873

By Linear Regression of Y on X

Slope, m = 51.4211 Intercept, b = -28.8125

Correlation Coefficient* = 0.9993

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-Sep-13	**Date**	:	16-Sep-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	16-Sep-13
Equipment no.	:	EL449	**Calbration Due Dat**	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	304	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7214	58	57.2744
2	5.1	5.1	10.2	1.5751	50	49.3745
3	4.2	4.2	8.4	1.4307	43	42.4621
4	2.5	2.5	5.0	1.1069	28	27.6497
5	1.4	1.4	2.8	0.8317	16	15.7998

By Linear Regression of Y on X

Slope, m	=	46.3065	Intercept, b	=	-23.2217
Correlation Coefficient*	=	0.9993			
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-Sep-13	**Date**	:	16-Sep-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	16-Sep-13
Equipment no.	:	EL452	**Calbration Due Dat**	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	304	Kelvin	**Pressure, P_a**	1008	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3\times298/T_a)^{1/2}/35.31)$ **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7214	61	60.2369
2	5.1	5.1	10.2	1.5751	52	51.3495
3	4.1	4.1	8.2	1.4137	45	44.4370
4	2.5	2.5	5.0	1.1069	31	30.6122
5	1.5	1.5	3.0	0.8605	20	19.7498

By Linear Regression of Y on X

Slope, m	=	46.1726	Intercept, b	=	-20.3866
Correlation Coefficient*	=	0.9987			
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-Sep-13	**Date**	:	16-Sep-13

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	16-Sep-13
Equipment no.	:	EL448	**Calbration Due Dat**	:	16-Nov-13

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	304	Kelvin	**Pressure, P_a**	1010	mmHg

Orifice Transfer Standard Information					
Equipment No.	**EL086**	**Slope, m_c**	2.01968	**Intercept, bc**	-0.02746
Last Calibration Date	15-Jul-13	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$			
Next Calibration Date	15-Jul-14	$= m_c \times Q_{std} + b_c$			

Calibration of RSP						
Calibration Point	**Manometer Reading H (inches of water)**			**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** ($W(P_a/1013.3\times298/T_a)^{1/2}/35.31$) **Y-axis**
	(up)	(down)	(difference)			
1	6.1	6.1	12.2	1.7231	62	61.2851
2	5.0	5.0	10.0	1.5613	53	52.3889
3	4.0	4.0	8.0	1.3979	44	43.4926
4	2.5	2.5	5.0	1.1080	30	29.6541
5	1.5	1.5	3.0	0.8613	18	17.7924

By Linear Regression of Y on X

Slope, m	=	50.1961	Intercept, b	=	-25.8531
Correlation Coefficient*	=	0.9995			
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-Sep-13	**Date**	:	16-Sep-13

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 (Stage 2)

Environmental Monitoring Schedule
September 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			28-Aug Noise (Daytime) Impact WQM Mid-flood 23:05	29-Aug Impact WQM Mid-ebb 6:59	30-Aug 24hr TSP	31-Aug 1hr TSP Impact WQM Mid-ebb 9:10 Mid-flood 21:35
1-Sep	2-Sep Impact WQM Mid-ebb 10:35 Mid-flood 17:40	3-Sep Noise (Daytime) (M1a,M3a,M4b,M5b)	4-Sep Impact WQM Mid-ebb 11:45 Mid-flood 18:20	5-Sep 24hr TSP	6-Sep 24hr TSP (CMA1b) 1hr TSP Noise (Daytime) (M2b,M6) Mid-ebb 12:54 Mid-flood 19:08	7-Sep
8-Sep	9-Sep Impact WQM Mid-flood 8:40 Mid-ebb 14:45	10-Sep Noise (Daytime)	11-Sep 24hr TSP Noise (Daytime) Impact WQM Mid-ebb 3:47 Mid-flood 10:33	12-Sep 1hr TSP	13-Sep Impact WQM Mid-ebb 6:06 Mid-flood 13:32	14-Sep
15-Sep	16-Sep Impact WQM Mid-ebb 9:41 Mid-flood 16:50	17-Sep 24hr TSP Noise (Daytime)	18-Sep 1hr TSP Impact WQM Mid-ebb 11:19 Mid-flood 17:58	19-Sep Noise (Daytime)	20-Sep	21-Sep Impact WQM Mid-ebb 13:23 Mid-flood 19:30
22-Sep	23-Sep 24hr TSP Impact WQM Mid-flood 8:42 Mid-ebb 14:34	24-Sep 1hr TSP (M1a)	25-Sep Noise (Daytime) Impact WQM Mid-ebb 3:44 Mid-flood 10:19	26-Sep Noise (Daytime) (M2b,M3a,M4b,M5b,M6)	27-Sep Impact WQM Mid-ebb 5:49 Mid-flood 18:22	

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

Tentative Environmental Monitoring Schedule
October 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						28-Sep 24hr TSP
29-Sep	30-Sep 1hr TSP Impact WQM Mid-ebb 9:04 Mid-flood 16:29	1-Oct	2-Oct Noise (Daytime) Impact WQM Mid-ebb 10:33 Mid-flood 17:09	3-Oct Noise (Daytime)	4-Oct 24hr TSP Impact WQM Mid-ebb 11:50 Mid-flood 17:55	5-Oct 1hr TSP
6-Oct	7-Oct Noise (Daytime) Impact WQM Mid-ebb 13:46 Mid-flood 19:31	8-Oct Noise (Daytime)	9-Oct Impact WQM Mid-flood 9:30 Mid-ebb 15:14	10-Oct 24hr TSP	11-Oct 1hr TSP Impact WQM Mid-ebb 4:25 Mid-flood 11:50	12-Oct
13-Oct	14-Oct	15-Oct Noise (Daytime) Impact WQM Mid-ebb 9:19 Mid-flood 16:10	16-Oct 24hr TSP Noise (Daytime)	17-Oct 1hr TSP Impact WQM Mid-ebb 10:59 Mid-flood 17:18	18-Oct	19-Oct Impact WQM Mid-ebb 12:22 Mid-flood 18:19
20-Oct	21-Oct Noise (Daytime) Impact WQM Mid-ebb 13:34 Mid-flood 19:17	22-Oct 24hr TSP Noise (Daytime)	23-Oct 1hr TSP (with CRIII) Impact WQM Mid-flood 20:01	24-Oct Impact WQM Mid-ebb 3:04	25-Oct	26-Oct Impact WQM Mid-ebb 4:03 Mid-flood 16:35
27-Oct						

Appendix 5.2

Noise Monitoring Results and Graphical Presentations

Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Harbour Road Sports Centre

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
03/09/13	15:50	Cloudy	72.0	74.0	67.5	72	72	75
10/09/13	10:02	Fine	73.6	76.0	69.0	72	68	75
17/09/13	16:22	Fine	72.9	75.0	68.5	72	65	75
24/09/13	16:00	Cloudy	72.7	75.0	67.5	72	63	75

Location: M2b - Noon-day gun area

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
06/09/13	14:38	Fine	69.9	71.5	67.5	68	66	75
10/09/13	10:45	Fine	70.7	72.0	67.5	68	68	75
17/09/13	17:18	Fine	68.8	70.5	66.5	68	63	75
26/09/13	8:45	Fine	71.9	73.5	67.5	68	70	75

*Due to adverse weather condition, noise monitoring was rescheduled from 03 Sep 2013 to 06 Sep 2013

Location: M3a - Tung Lo Wan Fire Station

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
03/09/13	9:15	Cloudy	69.8	72.0	66.5	69	63	75
10/09/13	11:25	Fine	66.9	67.5	65.0	69	67	75
17/09/13	8:30	Fine	66.0	67.5	63.0	69	66	75
26/09/13	9:30	Fine	67.3	68.5	64.5	69	67	75

Location: M4b - Victoria Centre

Date	Time	Weather	Measurement Noise Level			Baseline Noise Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
03/09/13	10:00	Cloudy	69.7	70.5	69.5	67	66	75
10/09/13	13:00	Fine	68.6	69.5	66.5	67	63	75
17/09/13	9:10	Fine	69.5	70.0	67.0	67	65	75
26/09/13	10:15	Fine	68.4	69.6	65.1	67	62	75

Location: M5b - City Garden

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
03/09/13	10:40	Cloudy	73.5	76.5	71.0	68	72	75
10/09/13	13:45	Fine	70.2	71.5	68.5	68	66	75
17/09/13	9:40	Fine	71.5	74.0	68.0	68	69	75
26/09/13	14:15	Fine	71.6	72.5	68.0	68	69	75

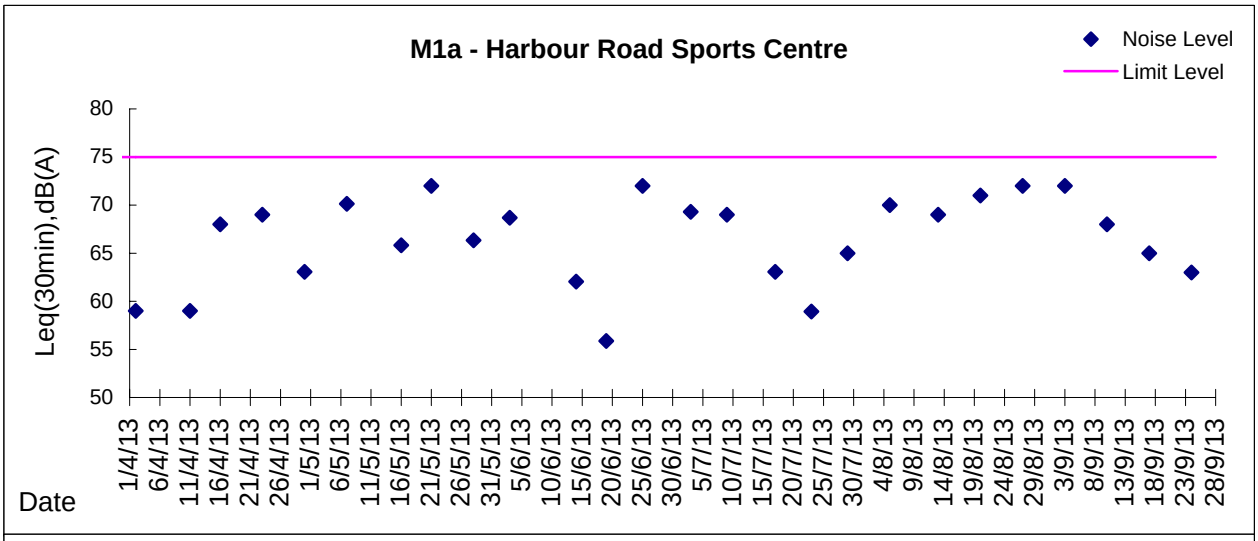
Location: M6 - HK Baptist Church Henrietta Secondary School

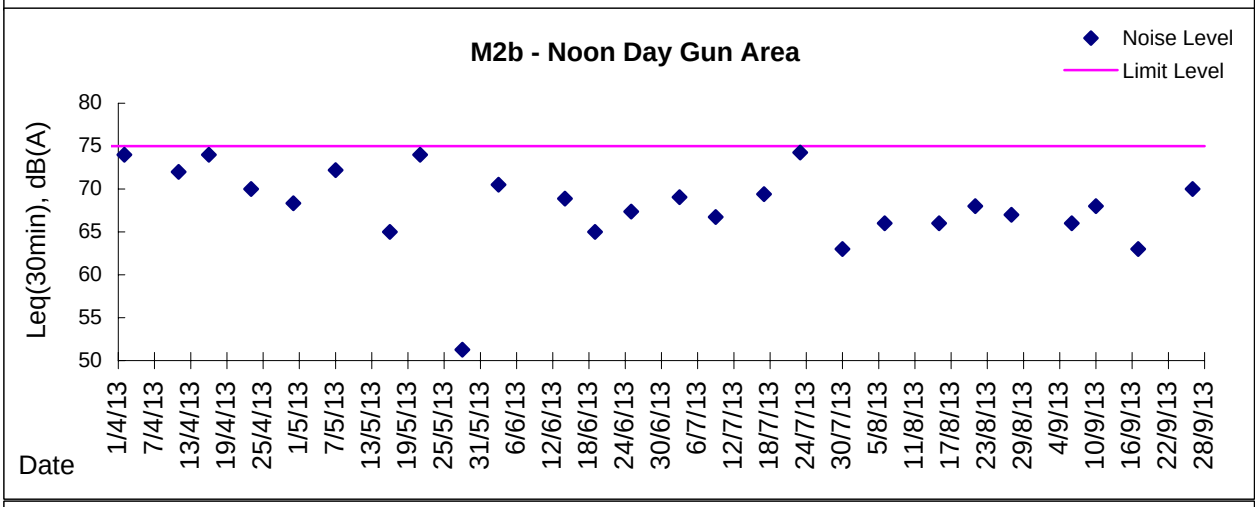
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
06/09/13	15:24	Fine	75.0	76.0	73.0	71	**73**	70
10/09/13	14:30	Fine	74.1	75.0	72.0	71	**71**	70
17/09/13	9:50	Fine	73.7	75.0	72.0	71	**71**	70
26/09/13	13:15	Fine	74.0	76.0	72.5	71	**71**	70

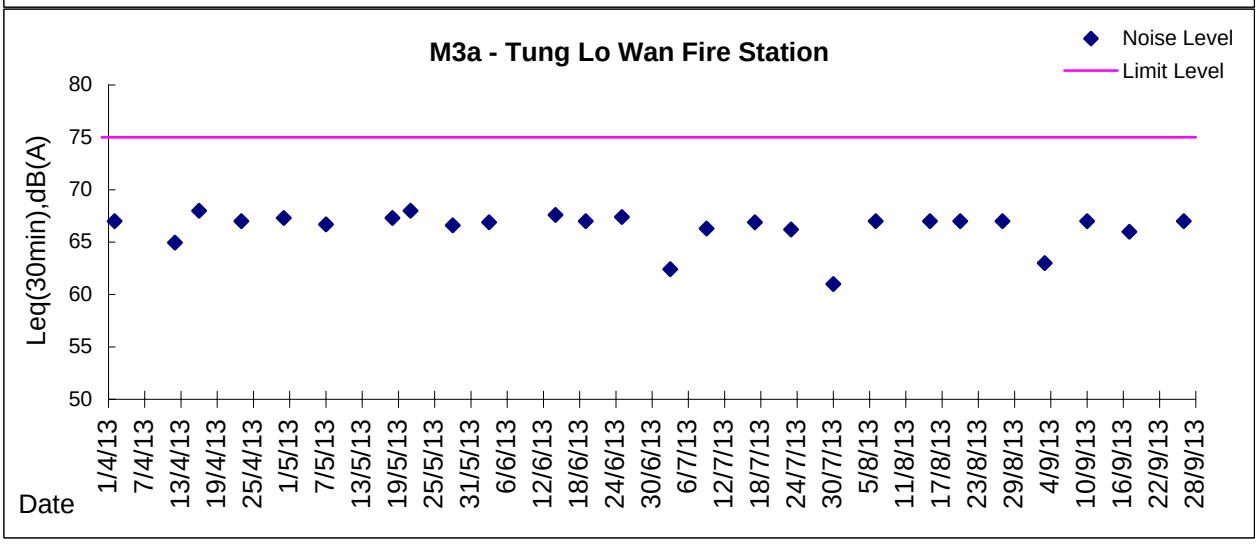
*Due to adverse weather condition, noise monitoring was rescheduled from 03 Sep 2013 to 06 Sep 2013

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

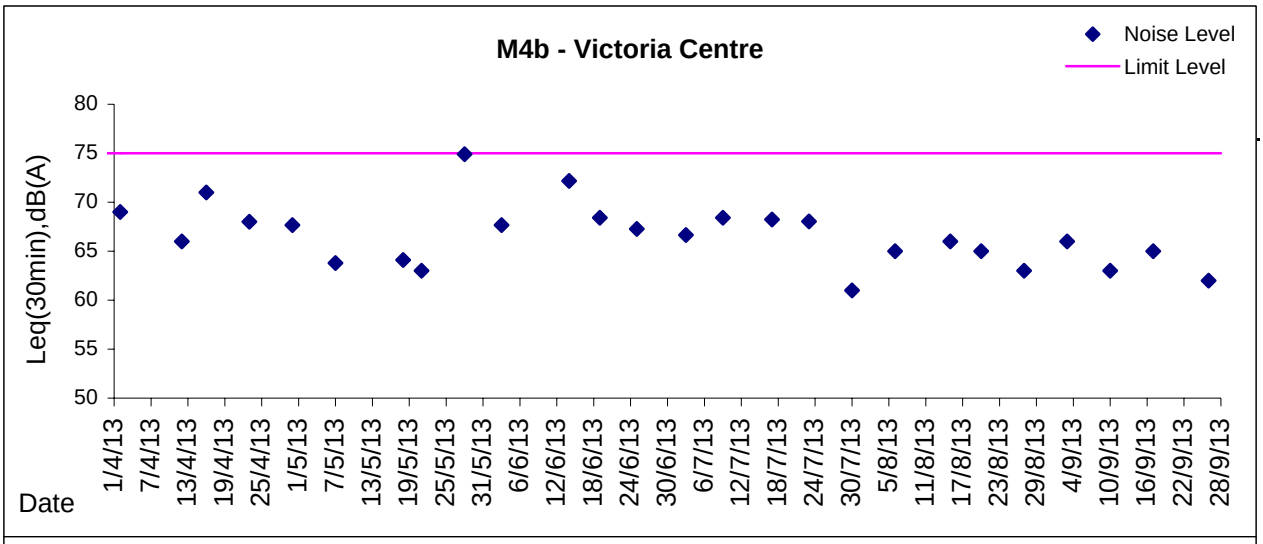


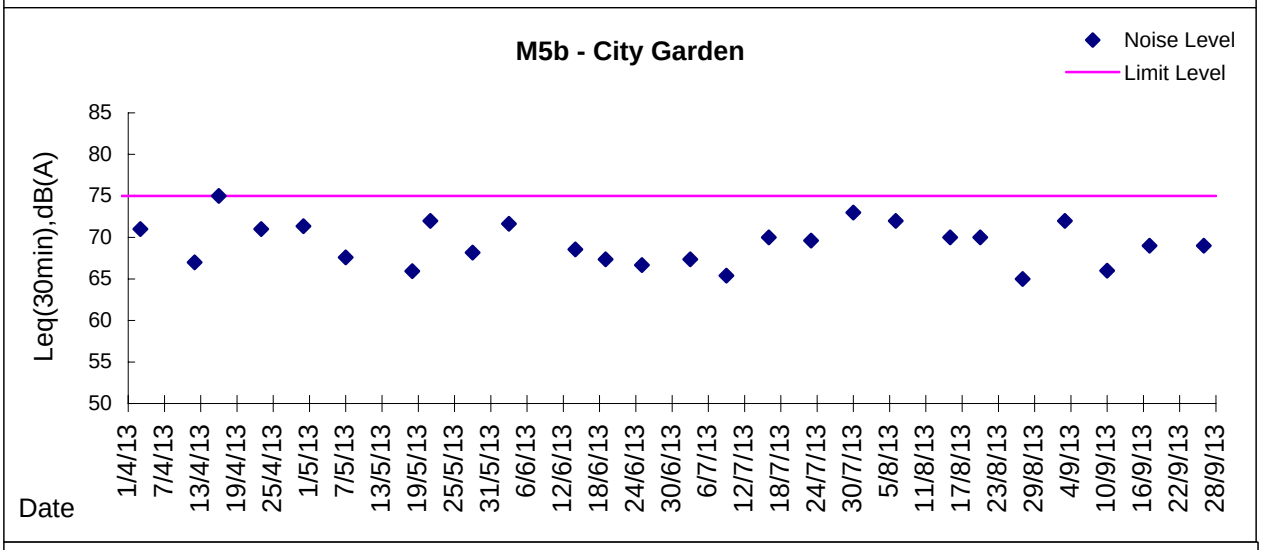


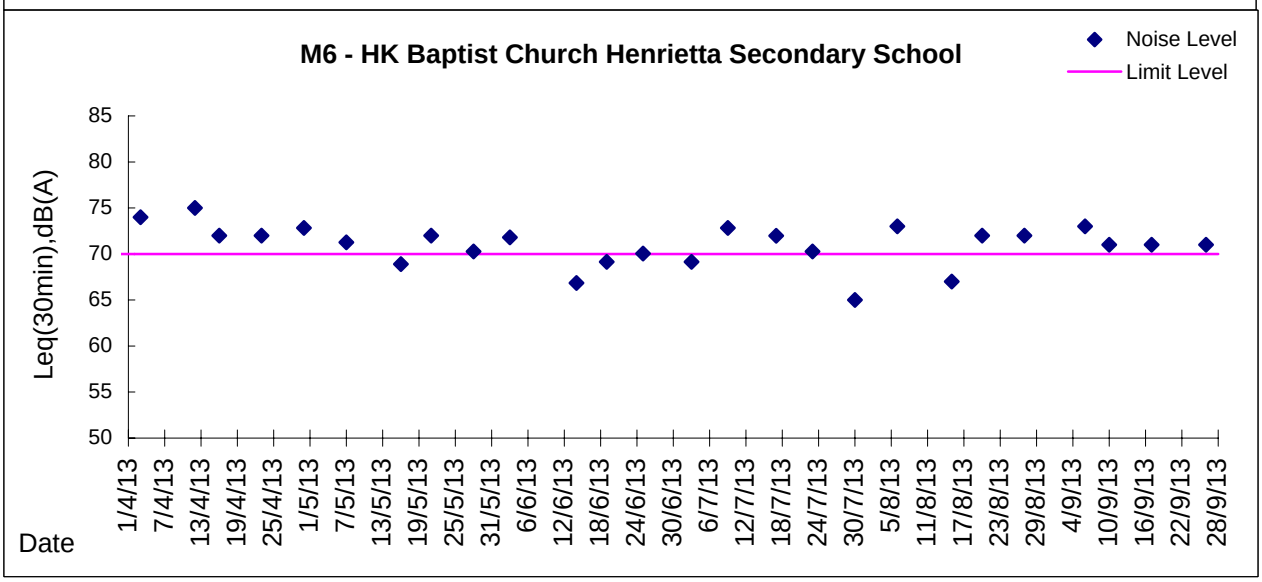


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

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

Location: CMA1b - Oil Street Site Office

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	004959	2.7750	2.9800	3328.79	3352.79	24.00	1.38	1.38	1.38	1989	103
6-Sep-13	13:00	Fine	007231	2.6588	2.8009	3358.81	3382.81	24.00	1.41	1.40	1.41	2024	70
11-Sep-13	8:00	Fine	005549	2.8878	3.0181	3382.81	3406.81	24.00	1.34	1.34	1.34	1925	68
17-Sep-13	8:00	Fine	007257	2.6563	2.9173	3409.81	3433.81	24.00	1.31	1.31	1.31	1885	138
24-Sep-13	11:57	Cloudy	005442	2.8260	2.8931	3463.79	3487.79	24.00	1.23	1.23	1.23	1766	38

Remarks: Due to electricity interruption and the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 5 Sep 2013 to 6 Sep 2013 and from 23 Sep 2013 to 24 Sep 2013 respectively.

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	9:07	Rainy	007253	2.6731	2.6809	3352.79	3353.79	1.00	1.34	1.34	1.34	80	97
31-Aug-13	10:18	Rainy	007251	2.6814	2.6885	3353.79	3354.79	1.00	1.34	1.34	1.34	80	88
31-Aug-13	11:26	Rainy	007250	2.7005	2.7094	3354.79	3355.79	1.00	1.32	1.32	1.32	79	113
6-Sep-13	8:09	Rainy	005557	2.8756	2.8874	3355.81	3356.81	1.00	1.38	1.38	1.38	83	142
6-Sep-13	9:18	Rainy	007233	2.6654	2.6755	3356.81	3357.81	1.00	1.38	1.38	1.38	83	122
6-Sep-13	10:29	Rainy	005570	2.8546	2.8646	3357.81	3358.81	1.00	1.38	1.38	1.38	83	120
12-Sep-13	8:20	Fine	007274	2.7045	2.7152	3406.81	3407.81	1.00	1.29	1.29	1.29	78	138
12-Sep-13	9:25	Fine	007273	2.6978	2.7082	3407.81	3408.81	1.00	1.38	1.34	1.36	81	128
12-Sep-13	10:40	Fine	007272	2.7132	2.7271	3408.81	3409.81	1.00	1.38	1.38	1.38	83	168
18-Sep-13	8:02	Cloudy	005454	2.8270	2.8458	3433.81	3434.81	1.00	1.29	1.29	1.29	77	243
18-Sep-13	9:10	Cloudy	005455	2.8377	2.8516	3434.81	3435.81	1.00	1.23	1.23	1.23	74	189
18-Sep-13	10:23	Cloudy	005456	2.8293	2.8392	3435.81	3436.81	1.00	1.35	1.35	1.35	81	122
24-Sep-13	8:44	Cloudy	005434	2.8250	2.8314	3460.79	3461.79	1.00	1.33	1.33	1.33	80	80
24-Sep-13	9:50	Cloudy	005437	2.8232	2.8299	3461.79	3462.79	1.00	1.33	1.33	1.33	80	84
24-Sep-13	10:53	Cloudy	005440	2.8135	2.8206	3462.79	3463.79	1.00	1.33	1.33	1.33	80	89

Location: CMA2a - Causeway Bay Community Centre

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	006691	2.6354	2.7649	13064.71	13088.71	24.00	1.34	1.34	1.34	1934	67
5-Sep-13	8:00	Rainy	007248	2.7058	2.7852	13091.72	13115.72	24.00	1.35	1.35	1.35	1939	41
11-Sep-13	8:00	Fine	005573	2.8672	2.9855	13118.72	13142.72	24.00	1.42	1.42	1.42	2039	58
17-Sep-13	8:00	Fine	007258	2.6688	2.8754	13145.72	13169.72	24.00	1.45	1.45	1.45	2086	99
24-Sep-13	11:45	Cloudy	005439	2.8126	2.8943	13175.94	13199.94	24.00	1.39	1.39	1.39	1997	41

Remarks:Due to the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 23 Sep 2013 to 24 Sep 2013

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	9:03	Rainy	007173	2.6111	2.6189	13088.71	13089.71	1.00	1.40	1.40	1.40	84	93
31-Aug-13	10:56	Rainy	007252	2.6878	2.6982	13089.71	13090.71	1.00	1.40	1.40	1.40	84	124
31-Aug-13	13:06	Rainy	007249	2.6682	2.6811	13090.71	13091.71	1.00	1.38	1.38	1.38	83	156
6-Sep-13	8:10	Fine	007232	2.6560	2.6622	13115.72	13116.72	1.00	1.53	1.53	1.53	92	68
6-Sep-13	9:23	Fine	007102	2.6924	2.7000	13116.72	13117.72	1.00	1.53	1.53	1.53	92	83
6-Sep-13	10:34	Fine	007103	2.6659	2.6760	13117.72	13118.72	1.00	1.53	1.53	1.53	92	110
12-Sep-13	8:05	Fine	007086	2.6646	2.6725	13142.72	13143.72	1.00	1.49	1.49	1.49	89	88
12-Sep-13	9:15	Fine	007254	2.6637	2.6680	13143.72	13144.72	1.00	1.38	1.38	1.38	83	52
12-Sep-13	10:30	Fine	007256	2.6684	2.6759	13144.72	13145.72	1.00	1.45	1.45	1.45	87	86
18-Sep-13	8:05	Cloudy	005450	2.8343	2.8392	13169.72	13170.72	1.00	1.39	1.39	1.39	83	59
18-Sep-13	9:16	Cloudy	005451	2.8300	2.8415	13170.72	13171.72	1.00	1.39	1.39	1.39	83	138
18-Sep-13	10:21	Cloudy	005452	2.8265	2.8400	13171.72	13172.72	1.00	1.43	1.43	1.43	86	158
24-Sep-13	8:12	Cloudy	006795	2.6173	2.6218	13172.94	13173.94	1.00	1.41	1.41	1.41	84	53
24-Sep-13	9:30	Cloudy	005433	2.8122	2.8186	13173.94	13174.94	1.00	1.41	1.41	1.41	84	76
24-Sep-13	10:41	Cloudy	005436	2.7991	2.8046	13174.94	13175.94	1.00	1.41	1.41	1.41	84	65

Location: CMA3a - CWB PRE Site Office Area

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	006650	2.6448	2.8050	301.67	325.67	24.00	1.42	1.42	1.42	2048	78
5-Sep-13	8:00	Rainy	007171	2.6269	2.7985	328.60	352.60	24.00	1.52	1.51	1.51	2180	79
11-Sep-13	8:00	Fine	006662	2.6586	2.8737	355.57	379.57	24.00	1.47	1.47	1.47	2123	101
17-Sep-13	8:00	Fine	006837	2.6456	2.8826	382.57	406.57	24.00	1.40	1.40	1.40	2021	117
24-Sep-13	11:25	Cloudy	005337	2.8392	2.9447	434.05	458.05	24.00	1.37	1.37	1.37	1971	54

Remarks:Due to the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 23 Sep 2013 to 24 Sep 2013.

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	8:10	Rainy	007130	2.6598	2.6646	325.67	326.67	1.00	1.48	1.48	1.48	89	54
31-Aug-13	9:45	Rainy	005554	2.8981	2.9090	326.67	327.67	1.00	1.48	1.48	1.48	89	123
31-Aug-13	10:55	Rainy	007172	2.6089	2.6169	327.67	328.67	1.00	1.48	1.48	1.48	89	90
6-Sep-13	10:35	Fine	006665	2.6501	2.6669	352.60	353.60	1.00	1.48	1.48	1.48	89	189
6-Sep-13	13:05	Fine	006669	2.6672	2.6845	353.60	354.60	1.00	1.48	1.48	1.48	89	195
6-Sep-13	14:45	Fine	006667	2.6620	2.6751	354.60	355.60	1.00	1.48	1.48	1.48	89	148
12-Sep-13	8:20	Fine	007030	2.6264	2.6377	379.57	380.57	1.00	1.47	1.47	1.47	88	128
12-Sep-13	9:25	Fine	006838	2.6257	2.6356	380.57	381.57	1.00	1.47	1.47	1.47	88	112
12-Sep-13	10:35	Fine	005553	2.8879	2.9008	381.57	382.57	1.00	1.47	1.47	1.47	88	146
18-Sep-13	13:03	Cloudy	006671	2.6452	2.6610	406.57	407.57	1.00	1.40	1.40	1.40	84	188
18-Sep-13	14:21	Cloudy	006664	2.6539	2.6680	407.57	408.57	1.00	1.40	1.40	1.40	84	167
18-Sep-13	15:33	Cloudy	006673	2.6563	2.6808	408.57	409.57	1.00	1.40	1.40	1.40	84	291
24-Sep-13	8:06	Cloudy	005357	2.8427	2.8500	431.05	432.05	1.00	1.33	1.33	1.33	80	91
24-Sep-13	9:15	Cloudy	005334	2.8314	2.8414	432.05	433.05	1.00	1.33	1.33	1.33	80	125
24-Sep-13	10:20	Cloudy	005336	2.8154	2.8226	433.05	434.05	1.00	1.33	1.33	1.33	80	90

Location: CMA4a - SPCA

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	006654	2.6745	2.8028	17241.87	17265.87	24.00	1.30	1.30	1.30	1877	68
5-Sep-13	8:00	Rainy	005556	2.8781	2.9946	17268.87	17292.87	24.00	1.35	1.35	1.35	1939	60
11-Sep-13	8:00	Fine	006661	2.6280	2.7545	17295.87	17319.87	24.00	1.30	1.30	1.30	1876	67
17-Sep-13	8:00	Fine	005552	2.8802	3.0542	17322.87	17346.87	24.00	1.34	1.34	1.34	1928	90
24-Sep-13	11:50	Cloudy	005367	2.8355	2.9168	17374.23	17398.23	24.00	1.28	1.28	1.28	1849	44

Remarks:Due to the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 23 Sep 2013 to 24 Sep 2013

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	8:09	Rainy	007131	2.6493	2.6535	17265.87	17266.87	1.00	1.30	1.30	1.30	78	54
31-Aug-13	9:23	Rainy	007129	2.6266	2.6317	17266.87	17267.87	1.00	1.27	1.27	1.27	76	67
31-Aug-13	10:40	Rainy	005555	2.8805	2.8876	17267.87	17268.87	1.00	1.27	1.27	1.27	76	94
6-Sep-13	10:15	Fine	006660	2.6556	2.6634	17292.87	17293.87	1.00	1.15	1.19	1.17	70	111
6-Sep-13	13:03	Fine	006668	2.6585	2.6707	17293.87	17294.87	1.00	1.31	1.31	1.31	78	156
6-Sep-13	14:21	Fine	006666	2.6610	2.6713	17294.87	17295.87	1.00	1.31	1.31	1.31	78	131
12-Sep-13	8:05	Fine	007297	2.6903	2.6953	17319.87	17320.87	1.00	1.30	1.30	1.30	78	64
12-Sep-13	9:10	Fine	005550	2.8858	2.8975	17320.87	17321.87	1.00	1.30	1.30	1.30	78	150
12-Sep-13	10:15	Fine	005551	2.8827	2.8920	17321.87	17322.87	1.00	1.11	1.11	1.11	66	140
18-Sep-13	13:07	Cloudy	006670	2.6531	2.6666	17346.87	17347.87	1.00	1.34	1.34	1.34	80	168
18-Sep-13	14:12	Cloudy	006663	2.6606	2.6725	17347.87	17348.87	1.00	1.34	1.34	1.34	80	148
18-Sep-13	15:24	Cloudy	006672	2.6313	2.6527	17348.87	17349.87	1.00	1.34	1.34	1.34	80	266
24-Sep-13	8:30	Cloudy	005335	2.8340	2.8397	17371.23	17372.23	1.00	1.34	1.34	1.34	80	71
24-Sep-13	9:42	Cloudy	005366	2.8288	2.8352	17372.23	17373.23	1.00	1.19	1.19	1.19	71	90
24-Sep-13	10:46	Cloudy	005365	2.8498	2.8571	17373.23	17374.23	1.00	1.30	1.30	1.30	78	93

Location: CMA5a - Children Garden opposite to Pedestrian Plaza

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	007081	2.6339	2.7465	18249.76	18273.76	24.00	1.19	1.19	1.19	1717	66
5-Sep-13	8:00	Rainy	007322	2.6821	2.8074	18276.77	18300.77	24.00	1.54	1.54	1.54	2222	56
11-Sep-13	8:00	Fine	007276	2.7099	2.8410	18303.77	18327.77	24.00	1.35	1.35	1.35	1950	67
17-Sep-13	8:00	Fine	007255	2.7000	2.9100	18330.76	18354.76	24.00	1.30	1.30	1.30	1879	112
24-Sep-13	16:16	Cloudy	005340	2.8580	2.9882	18360.76	18384.76	24.00	1.39	1.39	1.39	1997	65

Remarks:Due to the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 23 Sep 2013 to 24 Sep 2013

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

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	8:25	Rainy	007282	2.6868	2.6926	18273.76	18274.76	1.00	1.66	1.66	1.66	100	58
31-Aug-13	9:35	Rainy	007278	2.6633	2.6689	18274.76	18275.76	1.00	1.66	1.64	1.65	99	57
31-Aug-13	10:45	Rainy	007279	2.6955	2.7014	18275.76	18276.76	1.00	1.62	1.62	1.62	97	61
6-Sep-13	8:25	Fine	007325	2.6582	2.6645	18300.77	18301.77	1.00	1.56	1.56	1.56	94	67
6-Sep-13	9:30	Fine	007084	2.6293	2.6393	18301.77	18302.77	1.00	1.54	1.54	1.54	93	108
6-Sep-13	10:50	Fine	007275	2.6661	2.6729	18302.77	18303.77	1.00	1.56	1.56	1.56	94	73
12-Sep-13	13:00	Fine	007229	2.6777	2.6855	18327.77	18328.77	1.00	1.33	1.33	1.33	80	97
12-Sep-13	14:05	Fine	007271	2.7007	2.7089	18328.77	18329.77	1.00	1.33	1.33	1.33	80	102
12-Sep-13	15:10	Fine	007270	2.7051	2.7116	18329.77	18330.77	1.00	1.33	1.33	1.33	80	81
18-Sep-13	8:21	Cloudy	005563	2.8435	2.8557	18354.76	18355.76	1.00	1.30	1.30	1.30	78	156
18-Sep-13	9:34	Cloudy	007259	2.7068	2.7180	18355.76	18356.76	1.00	1.30	1.30	1.30	78	143
18-Sep-13	10:41	Cloudy	007260	2.7084	2.7127	18356.76	18357.76	1.00	1.30	1.30	1.30	78	55
24-Sep-13	13:05	Cloudy	007261	2.7316	2.7407	18357.76	18358.76	1.00	1.35	1.35	1.35	81	113
24-Sep-13	14:09	Cloudy	005368	2.8333	2.8431	18358.76	18359.76	1.00	1.35	1.35	1.35	81	121
24-Sep-13	15:11	Cloudy	005339	2.8532	2.8600	18359.76	18360.76	1.00	1.35	1.35	1.35	81	84

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level - 187.3 µg/m3

Limit Level - 260 µg/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-Aug-13	8:00	Rainy	007320	2.6592	2.7699	16527.78	16551.78	24.00	1.37	1.33	1.35	1945	57
5-Sep-13	8:00	Rainy	007323	2.6699	2.7600	16554.78	16578.78	24.00	1.25	1.25	1.25	1803	50
11-Sep-13	8:00	Fine	007307	2.6783	2.7860	16581.78	16605.78	24.00	1.29	1.25	1.27	1826	59
17-Sep-13	8:00	Fine	007168	2.6061	2.7573	16608.78	16632.78	24.00	1.27	1.27	1.27	1836	82
24-Sep-13	16:15	Cloudy	005338	2.8507	2.9605	16662.77	16686.77	24.00	1.39	1.39	1.39	2000	55

Remarks:Due to the hoisting of Gale Warning Signal, the 24hr TSP was rescheduled from 23 Sep 2013 to 24 Sep 2013

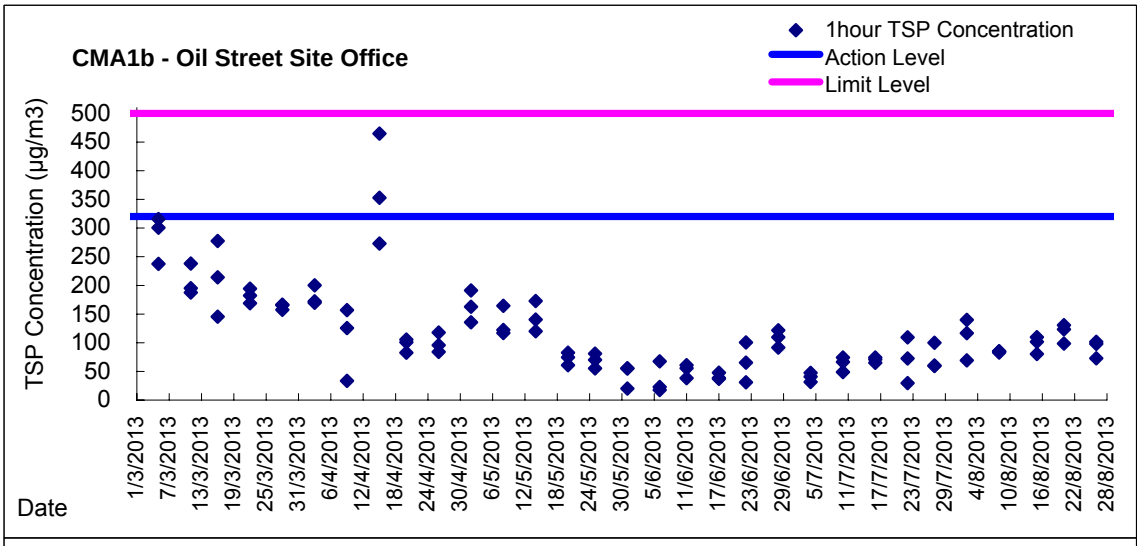
Report on 1-hour TSP monitoring

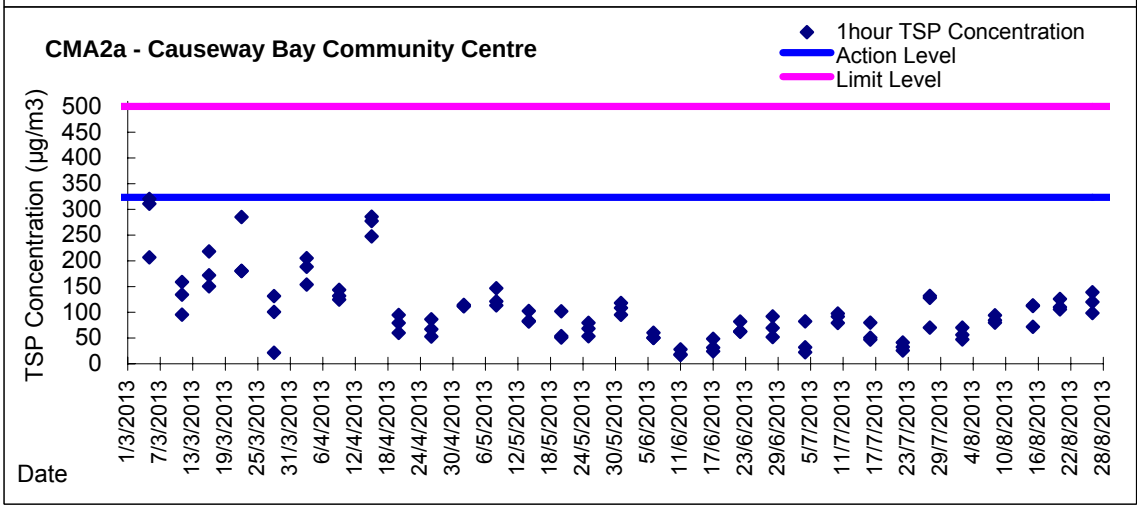
Action Level - 300.1 μ g/m^3

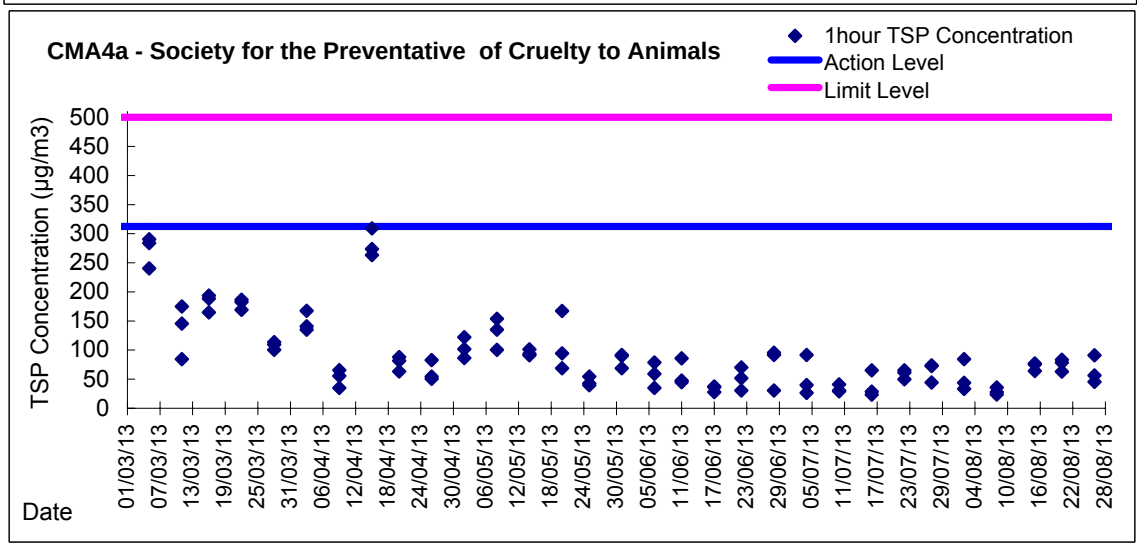
Limit Level - 500 μ g/m3

Date	Sampling Time	Weather Condition	Filter paper no.	Filter Weight, g		Elapse Time, hr		Sampling Time, hr	Flow Rate, m^3/min			Total Volume, m^3	TSP Level, $\mu g/m^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-Aug-13	8:10	Rainy	007079	2.6582	2.6629	16551.78	16552.78	1.00	1.41	1.41	1.41	85	55
31-Aug-13	9:20	Rainy	007281	2.6819	2.6849	16552.78	16553.78	1.00	1.29	1.33	1.31	79	38
31-Aug-13	10:56	Rainy	007321	2.6598	2.6637	16553.78	16554.78	1.00	1.09	1.09	1.09	65	60
6-Sep-13	8:15	Fine	007324	2.6678	2.6729	16578.78	16579.78	1.00	1.29	1.29	1.29	78	66
6-Sep-13	9:20	Fine	007078	2.6487	2.6568	16579.78	16580.78	1.00	1.29	1.29	1.29	78	104
6-Sep-13	10:30	Fine	007324	2.6678	2.6801	16580.78	16581.78	1.00	1.29	1.29	1.29	78	159
12-Sep-13	13:00	Fine	007246	2.6711	2.6786	16605.78	16606.78	1.00	1.33	1.33	1.33	80	94
12-Sep-13	14:07	Fine	005561	2.8657	2.8726	16606.78	16607.78	1.00	1.29	1.29	1.29	77	89
12-Sep-13	15:20	Fine	007269	2.6846	2.6887	16607.78	16608.78	1.00	1.37	1.37	1.37	82	50
18-Sep-13	8:14	Cloudy	007085	2.6512	2.6637	16632.78	16633.78	1.00	1.35	1.35	1.35	81	154
18-Sep-13	9:20	Cloudy	007266	2.6914	2.7007	16633.78	16634.78	1.00	1.27	1.27	1.27	76	122
18-Sep-13	10:34	Cloudy	007262	2.7056	2.7127	16634.78	16635.78	1.00	1.27	1.24	1.26	75	94
24-Sep-13	8:20	Cloudy	005430	2.7997	2.8050	16659.77	16660.77	1.00	1.24	1.24	1.24	74	71
24-Sep-13	9:26	Cloudy	005364	2.8267	2.8349	16660.77	16661.77	1.00	1.31	1.31	1.31	79	104
24-Sep-13	10:32	Cloudy	005363	2.8386	2.8468	16661.77	16662.77	1.00	1.27	1.27	1.27	76	107

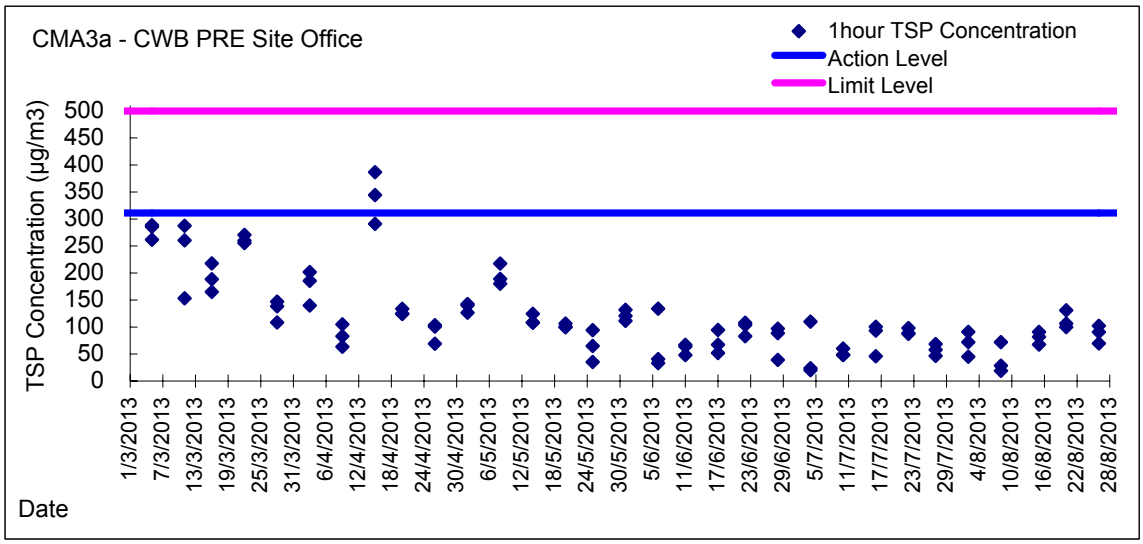
Graphic Presentation of 1 hour TSP Result

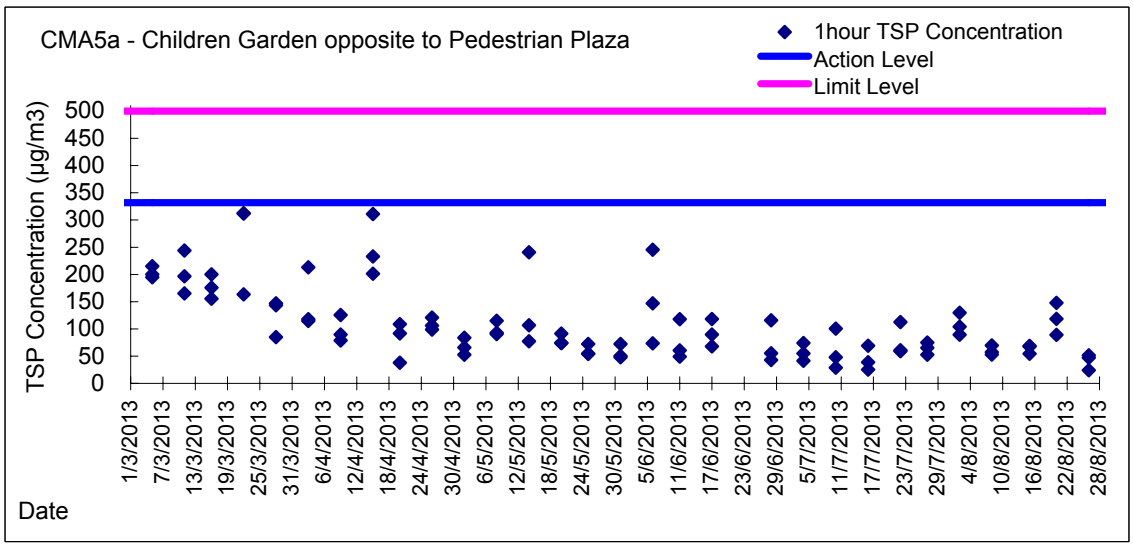


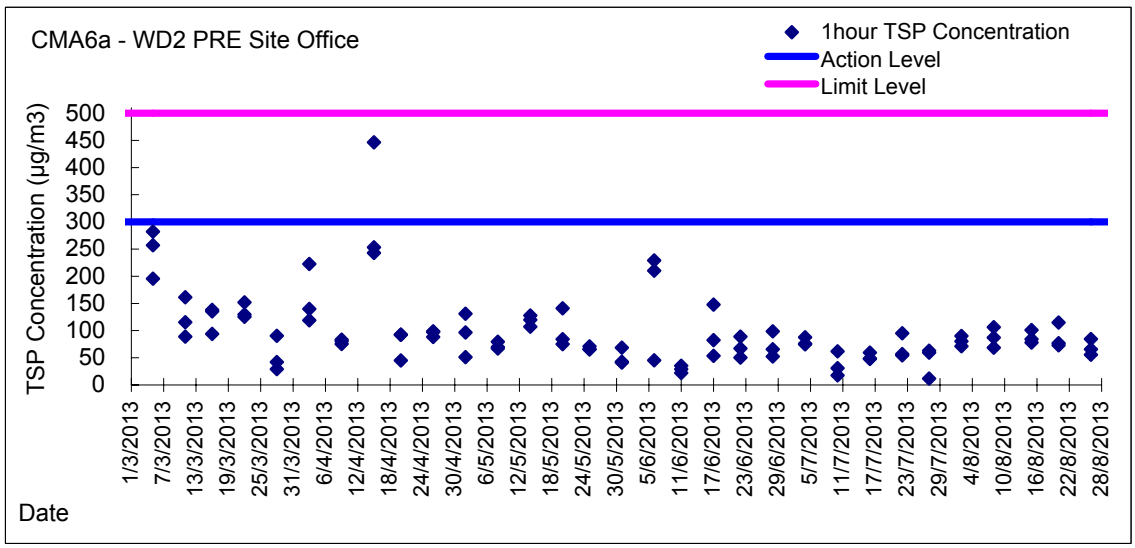




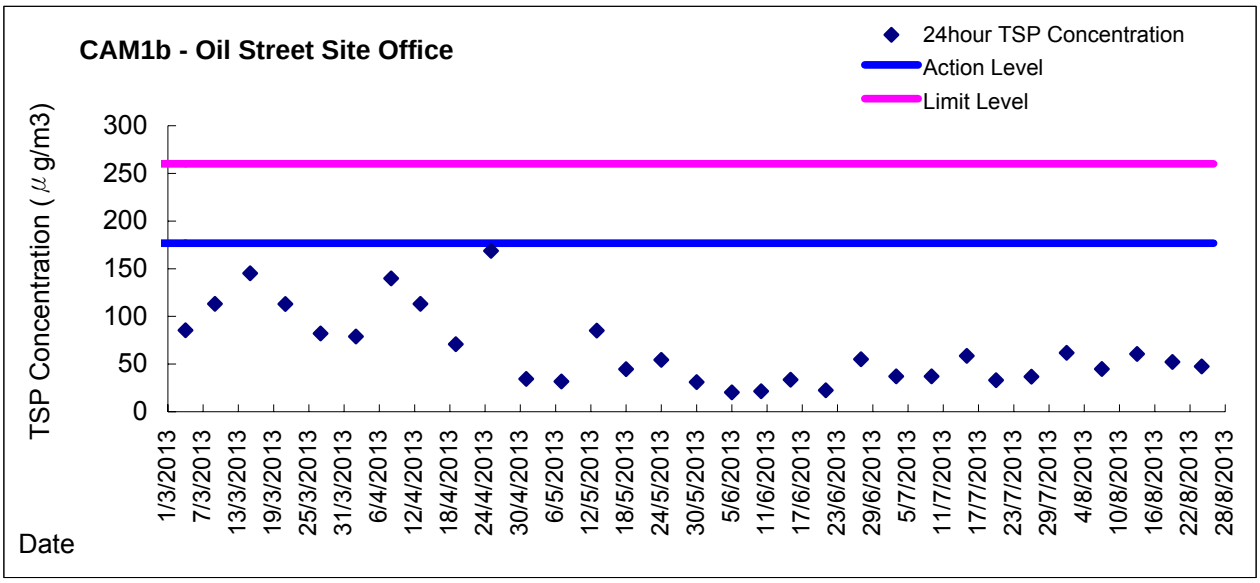
Graphic Presentation of 1 hour TSP Result

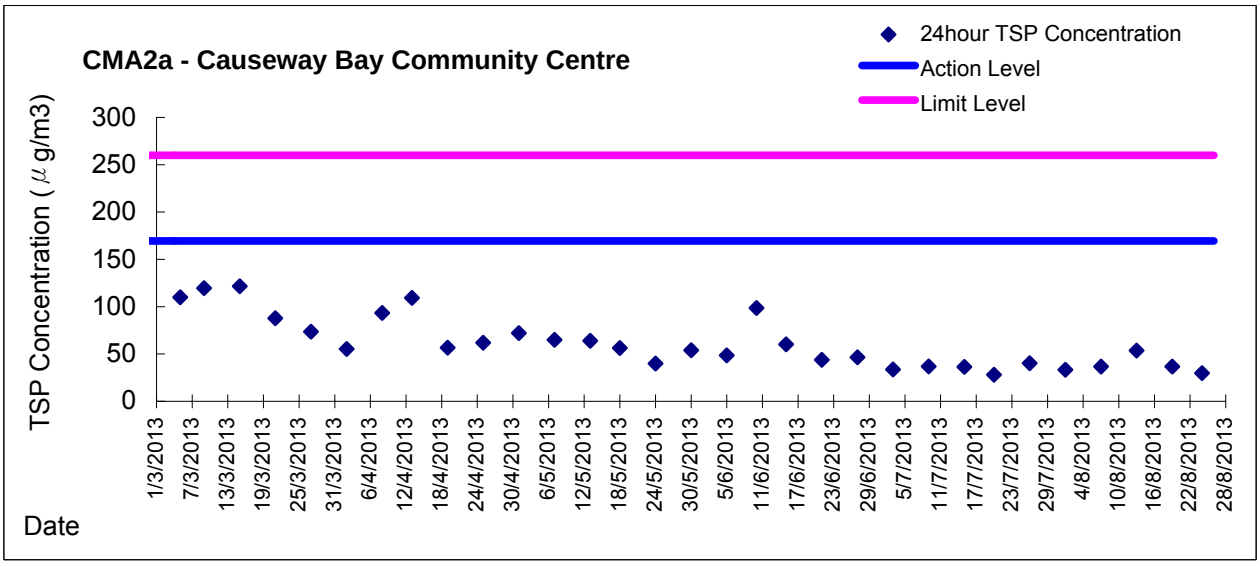


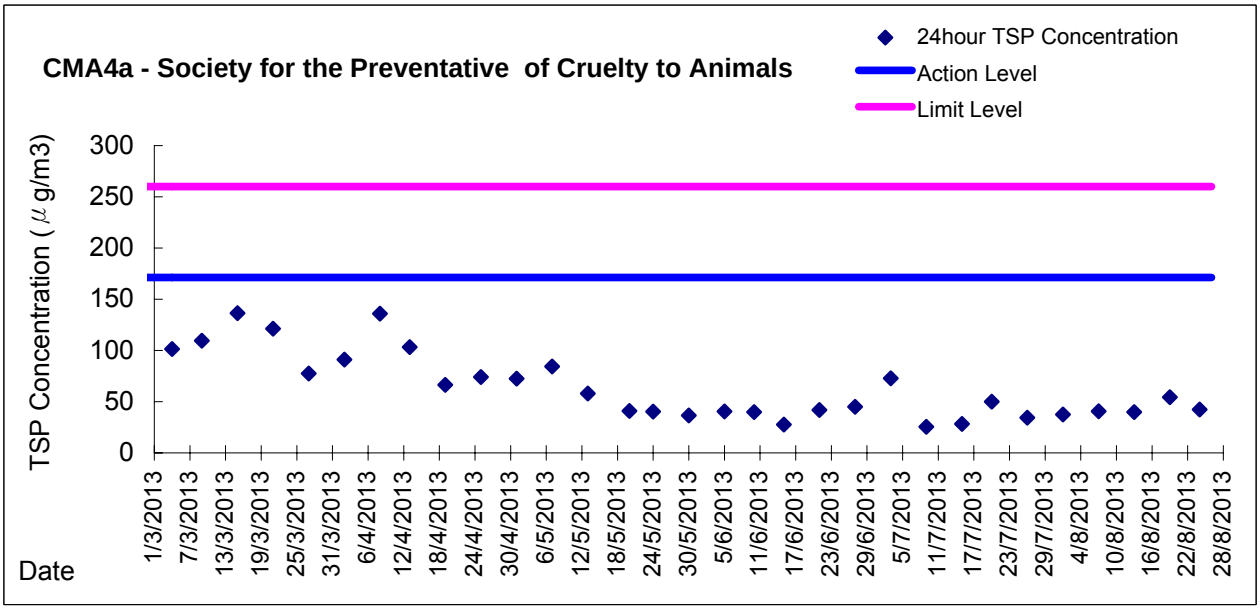




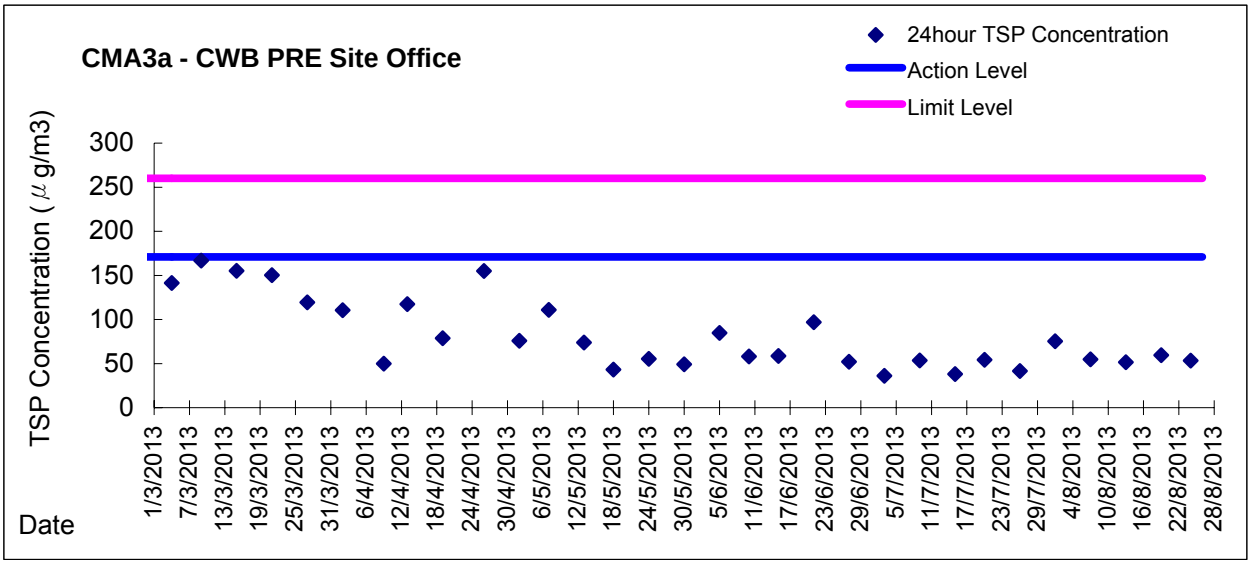
Graphic Presentation of 24 hour TSP Result

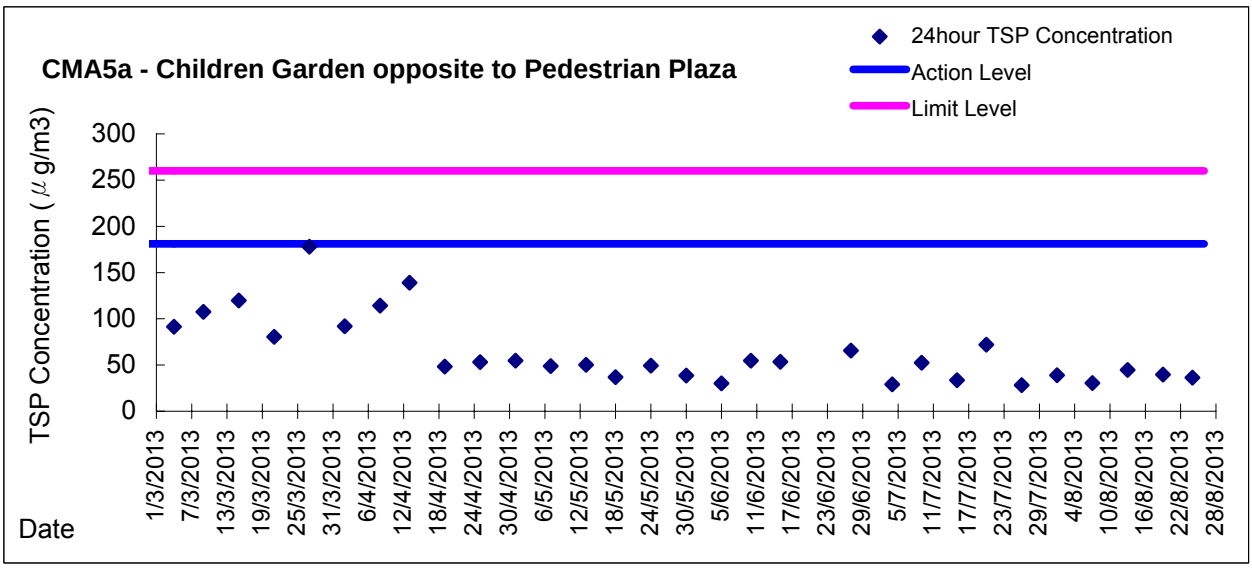


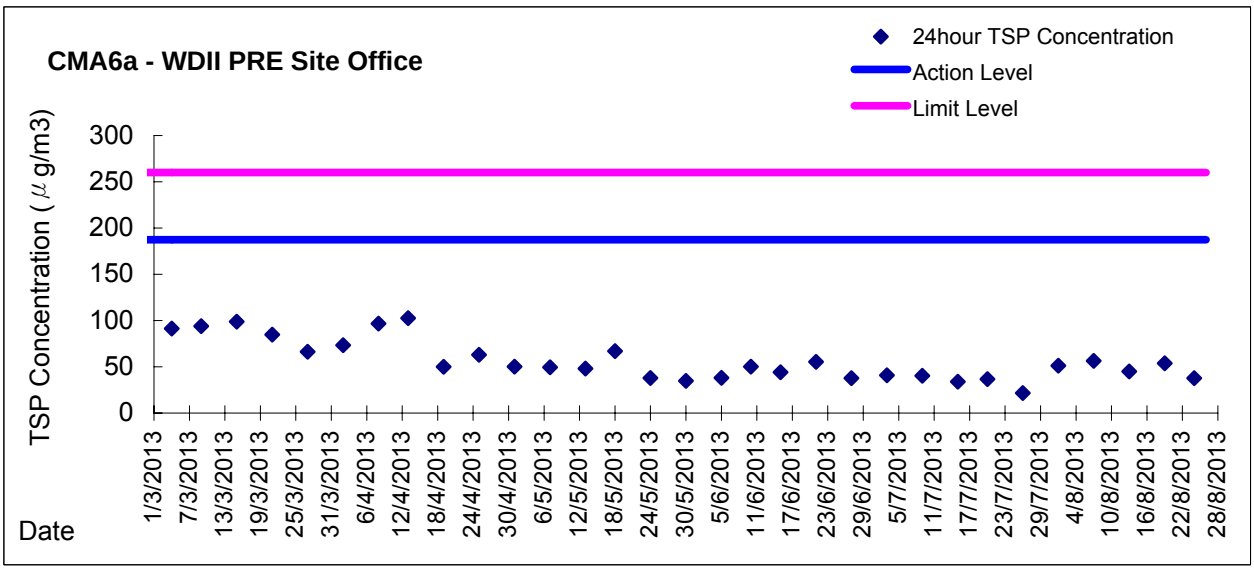




Graphic Presentation of 24 hour TSP Result







Field Data Record Sheet

Monitoring Date: 03 September 2013 **Weather Condition:** Drizzle **Tidal Condition:** Ebb

Temperature: 28.2^{0}C – 30.2^{0}C **Relative Humidity:** 72.4%-84.6%

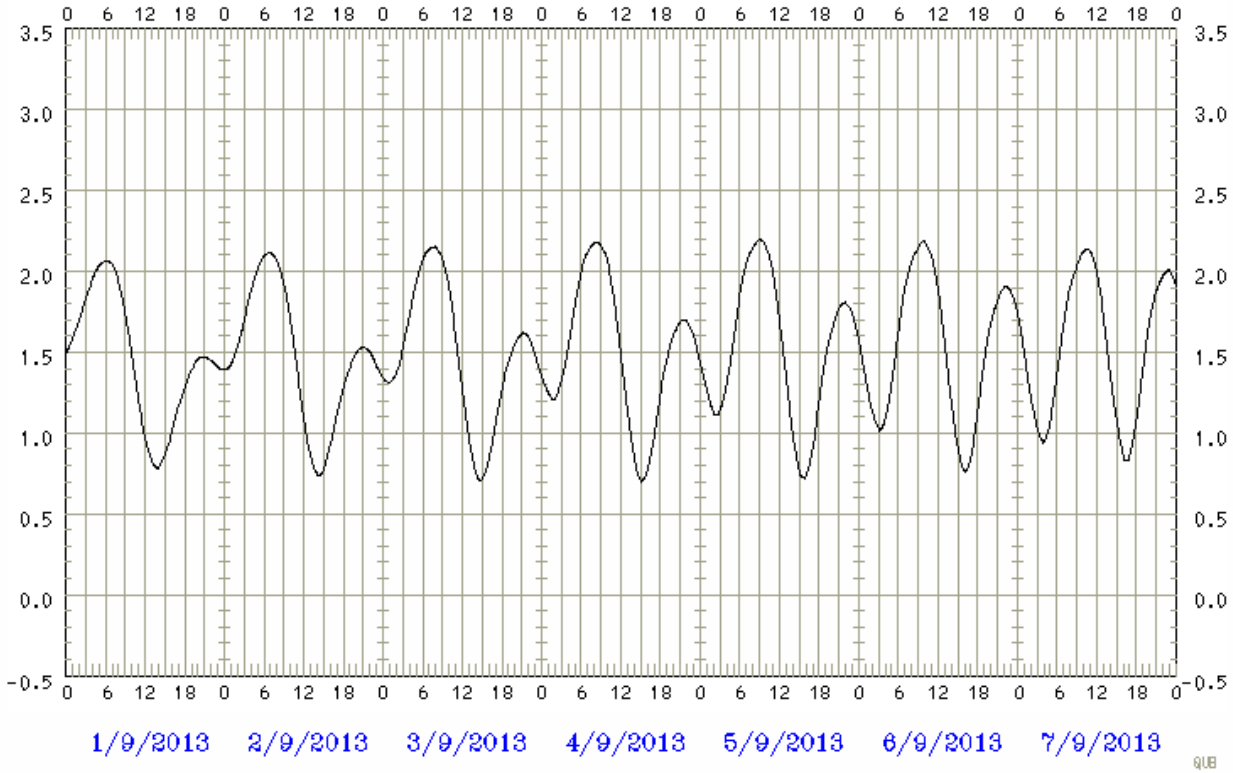
Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:21	30.2	72.4	0				0.4	NE	
OP6	13:30	29.5	79.1	0				1.8	N	
OP5	13:38	29.3	78.5	0				0.3	N	
OP4	13:42	28.6	84.6	0 - 1	Rubbish	Sea	Intermittent	3.0	NE	
OP3	13:46	29.5	79.6	0				0.8	NE	
OP2	13:51	29.9	80.2	0				0.6	NE	
OP1	13:54	28.2	79.4	1	Rubbish	Sea	Intermittent	1.5	N	

Remarks for Odour Intensity: 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 characterised 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 level

Meteorological Conditions on 03 September 2013

- **The tidal data at Quarry Bay Station**

Tide Time	Tide Height (m)
0:53	1.3
07:36	2.2
14:46	0.7
21:17	1.6



Field Data Record Sheet

Monitoring Date: 17 September 2013 **Weather Condition:** Sunny **Tidal Condition:** Ebb

Temperature: 30.2^{0}C – 32.9^{0}C **Relative Humidity:** 52.7%-59.6%

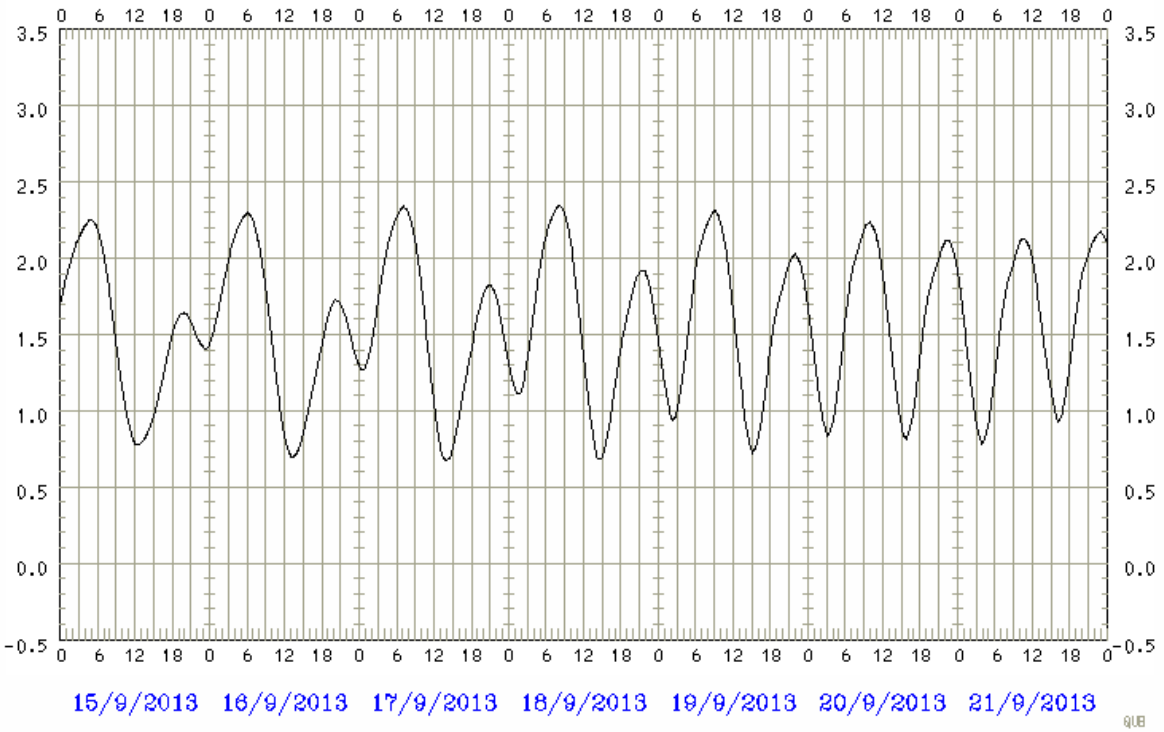
Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:27	30.6	58.5	0-1			Intermittent	2.4	NW	Incense burning
OP6	13:36	31.6	53.4	0				0.4	NE	
OP5	13:39	32.9	52.7	0				2.9	E	
OP4	13:46	30.6	59.6	0-1	Waste / Rubbish	Sea	Intermittent	0.7	NW	
OP3	13:51	30.2	59.4	0				3.1	NE	
OP2	13:55	30.6	55.9	0				2.1	E	
OP1	13:58	30.3	58.4	1	Waste / Rubbish	Sea	Intermittent	0.6	NE	

Remarks for Odour Intensity: 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 characterised 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 level

Meteorological Conditions on 17 September 2013

- **The tidal data at Quarry Bay Station**

Tide Time	Tide Height (m)
00:32	1.3
07:09	2.3
13:56	0.7
20:55	1.8



Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	22:37	Fine	Middle	2.5	28.80	28.80	28.80	8.25	8.25	8.27	28.78	28.78	28.64	83.6	84.9	83.9	5.50	5.58	5.51	3.93	3.68	3.60	5	5.00
	22:38		Middle	2.5	28.80	28.80		8.28	8.28		28.32	28.69		83.0	83.9		5.45	5.52		3.41	3.37		5	
31/8/2013	19:55	Cloudy	Middle	2.0	26.70	26.70	26.70	8.11	8.11	8.11	28.55	28.55	28.55	68.5	69.3	68.5	4.67	4.73	4.67	2.13	2.23	2.23	2	2.00
	19:56		Middle	2.0	26.70	26.70		8.11	8.11		28.55	28.55		67.7	68.5		4.62	4.67		2.19	2.38		2	
2/9/2013	18:03	Cloudy	Middle	3.0	27.20	27.20	27.25	8.25	8.25	8.25	30.42	30.42	30.54	77.7	76.9	77.5	5.18	5.12	5.16	0.79	0.72	0.76	4	3.50
	18:05		Middle	3.0	27.30	27.30		8.25	8.25		30.66	30.66		77.1	78.1		5.13	5.20		0.78	0.74		3	
4/9/2013	17:55	Cloudy	Middle	2.0	25.90	25.90	25.90	8.04	8.04	8.04	29.92	29.92	29.92	88.0	88.6	88.5	6.02	6.09	6.07	4.86	4.98	4.82	4	4.50
	17:56		Middle	2.0	25.90	25.90		8.04	8.04		29.92	29.92		89.0	88.4		6.11	6.07		4.81	4.64		5	
6/9/2013	21:08	Fine	Middle	2.5	26.30	26.30	26.30	8.08	8.08	8.08	30.56	30.56	30.56	76.6	78.4	77.4	5.20	5.32	5.25	4.92	5.00	4.82	3	3.50
	21:09		Middle	2.5	26.30	26.30		8.08	8.08		30.56	30.56		75.8	78.8		5.14	5.34		4.74	4.60		4	
9/9/2013	8:00	Fine	Middle	3.0	26.90	26.90	26.90	7.98	7.98	7.99	29.54	29.54	29.55	70.6	71.7	71.9	4.78	4.85	4.87	3.77	3.78	3.77	5	5.50
	8:02		Middle	3.0	26.90	26.90		7.99	7.99		29.55	29.55		72.7	72.6		4.92	4.91		3.77	3.76		6	
11/9/2013	9:30	Fine	Middle	2.5	27.50	27.50	27.50	8.11	8.11	8.11	29.47	29.47	29.47	81.8	81.7	81.7	5.48	5.47	5.47	3.91	3.83	3.83	2	3.00
	9:32		Middle	2.5	27.50	27.50		8.11	8.11		29.47	29.47		81.7	81.5		5.47	5.45		3.80	3.79		4	
13/9/2013	10:25	Fine	Middle	2.5	26.80	26.80	26.85	8.05	8.05	6.06	28.91	28.91	28.91	80.4	78.9	79.0	5.38	5.28	5.29	2.98	2.87	2.89	4	4.50
	10:27		Middle	2.5	26.90	26.90		8.06	0.06		28.91	28.91		77.9	78.9		5.21	5.28		2.85	2.84		5	
16/9/2013	17:40	Fine	Middle	3.0	28.40	28.40	28.40	8.15	8.15	8.16	29.93	29.93	29.94	81.0	81.7	81.0	5.33	5.38	5.34	5.52	5.44	5.45	4	4.50
	17:42		Middle	3.0	28.40	28.40		8.16	8.16		29.95	29.95		80.6	80.8		5.31	5.32		5.41	5.41		5	
18/9/2013	18:28	Fine	Middle	2.5	27.60	27.60	27.60	8.27	8.27	8.27	30.71	30.71	30.71	94.0	93.4	93.2	6.23	6.21	6.19	6.27	6.20	6.25	6	6.50
	18:31		Middle	2.5	27.60	27.60		8.27	8.27		30.71	30.71		93.0	92.4		6.18	6.14		6.19	6.34		7	
21/9/2013	18:48	Cloudy	Middle	2.5	30.50	30.50	30.45	8.20	8.20	8.20	30.68	30.68	30.69	85.0	84.7	83.0	5.41	5.38	5.27	4.69	4.75	4.73	5	4.50
	18:49		Middle	2.5	30.40	30.40		8.20	8.20		30.69	30.69		81.9	80.2		5.20	5.10		4.77	4.70		4	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	9:30	Fine	Middle	3.0	28.00	28.00	28.00	8.20	8.20	8.20	29.79	29.79	29.79	82.2	84.7	83.9	5.44	5.61	5.56	5.15	5.12	5.11	3	3.00
	9:32		Middle	3.0	28.00	28.00		8.20	8.20		29.78	29.78		84.4	84.2		5.59	5.58		5.08	5.07		3	
27/9/2013	16:00	Fine	Middle	3.0	28.19	28.19	28.25	7.72	7.72	7.71	31.92	31.92	32.22	57.4	57.3	55.4	3.74	3.73	3.61	5.38	5.31	5.20	3	3.50
	16:02		Middle	3.0	28.31	28.31		7.70	7.70		32.52	32.52		53.5	53.2		3.48	3.47		5.06	5.06		4	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	2:00	Fine	Middle	3.0	28.20	28.20	28.20	8.31	8.31	8.31	28.29	28.29	28.29	82.5	84.8	82.5	5.50	5.65	5.50	3.41	3.51	3.28	3	3.50
	2:01		Middle	3.0	28.20	28.20		8.31	8.31		28.29	28.29		81.8	80.8		5.45	5.38		3.12	3.07		4	
31/8/2013	21:00	Cloudy	Middle	3.5	26.50	26.50	26.50	8.15	8.15	8.15	28.17	28.17	28.18	66.8	67.7	67.2	4.61	4.64	4.61	2.41	2.59	2.47	2	2.50
	21:01		Middle	3.5	26.50	26.50		8.15	8.15		28.18	28.19		67.3	67.0		4.61	4.59		2.46	2.43		3	
2/9/2013	16:35	Cloudy	Middle	2.5	27.30	27.30	27.35	8.13	8.13	8.14	31.17	31.17	31.17	72.1	71.4	72.0	4.79	4.74	4.78	0.45	0.37	0.43	4	4.00
	16:37		Middle	2.5	27.40	27.40		8.15	8.15		31.17	31.17		72.4	71.9		4.81	4.77		0.45	0.44		4	
4/9/2013	19:40	Cloudy	Middle	3.5	25.80	25.80	25.80	8.03	8.03	8.03	31.62	31.65	31.64	76.1	81.2	80.0	5.18	5.48	5.43	2.69	2.67	2.63	6	6.00
	19:41		Middle	3.5	25.80	25.80		8.03	8.03		31.65	31.64		81.6	81.0		5.55	5.51		2.58	2.56		6	
6/9/2013	18:35	Fine	Middle	2.5	27.50	27.50	27.50	8.06	8.06	8.06	30.46	30.46	30.44	85.4	85.7	85.7	5.68	5.75	5.71	6.12	5.49	5.65	4	3.50
	18:36		Middle	2.5	27.50	27.50		8.06	8.06		30.41	30.41		85.0	86.5		5.64	5.75		5.59	5.41		3	
9/9/2013	9:50	Fine	Middle	3.0	27.70	27.70	27.70	8.20	8.20	8.20	30.77	30.77	30.77	81.9	80.9	81.3	5.42	5.35	5.38	7.23	7.19	7.20	8	9.00
	9:52		Middle	3.0	27.70	27.70		8.20	8.20		30.77	30.77		81.4	81.0		5.38	5.36		7.19	7.20		10	
11/9/2013	10:45	Fine	Middle	3.0	27.60	27.60	27.60	8.21	8.21	8.21	30.60	30.60	30.60	74.6	72.1	72.7	4.89	4.79	4.81	6.33	6.34	6.33	7	8.00
	10:47		Middle	3.0	27.60	27.60		8.21	8.21		30.60	30.60		71.7	72.2		4.76	4.80		6.34	6.32		9	
13/9/2013	11:30	Fine	Middle	2.5	27.70	27.70	27.70	8.10	8.10	8.10	29.63	29.63	29.63	80.8	81.0	80.1	5.31	5.32	5.26	3.12	3.12	3.14	4	4.00
	11:32		Middle	2.5	27.70	27.70		8.10	8.10		29.62	29.62		79.6	79.0		5.23	5.19		3.14	3.17		4	
16/9/2013	13:45	Fine	Middle	3.0	28.60	28.60	28.60	8.12	8.12	8.12	29.68	26.68	28.94	80.5	80.4	80.4	5.28	5.27	5.27	3.31	3.32	3.32	2	2.00
	13:47		Middle	3.0	28.60	28.60		8.12	8.12		29.69	29.69		80.0	80.5		5.24	5.27		3.32	3.34		2	
18/9/2013	16:40	Fine	Middle	2.5	27.60	27.60	27.60	8.29	8.29	8.29	30.98	30.98	30.98	84.0	85.1	84.2	5.57	5.64	5.59	11.24	11.04	**11.13**	19	**18.50**
	16:42		Middle	2.5	27.60	27.60		8.29	8.29		30.98	30.98		84.1	83.6		5.58	5.55		11.10	11.14		18	
21/9/2013	19:55	Cloudy	Middle	3.0	30.50	30.50	30.50	8.24	8.24	8.25	31.59	31.59	31.57	83.9	85.9	84.1	5.29	5.42	5.31	6.76	6.79	6.73	7	7.00
	19:56		Middle	3.0	30.50	30.50		8.25	8.25		31.59	31.51		83.7	82.8		5.28	5.23		6.68	6.70		7	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:30	Fine	Middle	3.0	28.00	28.00	28.00	8.18	8.18	8.19	30.89	30.89	30.89	78.1	78.5	77.8	5.14	5.17	5.13	6.89	7.06	7.02	6	5.50
	10:32		Middle	3.0	28.00	28.00		8.20	8.20		30.89	30.89		77.1	77.5		5.08	5.12		7.06	7.06		5	
27/9/2013	17:15	Fine	Middle	2.5	28.02	28.02	28.02	7.86	7.86	7.86	32.60	32.60	32.61	73.4	72.9	72.5	4.79	4.76	4.73	6.85	6.81	6.83	3	3.00
	17:17		Middle	2.5	28.01	28.01		7.85	7.85		32.62	32.62		72.0	71.7		4.70	4.68		6.85	6.81		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	1:25	Fine	Middle	1.5	28.20	28.20	28.20	8.09	8.09	8.06	28.69	28.69	28.69	64.0	65.7	64.9	4.30	4.42	4.37	3.48	3.41	3.50	5	4.50
	1:26		Middle	1.5	28.20	28.20		8.02	8.02		28.69	28.69		64.7	65.2		4.35	4.39		3.44	3.65		4	
31/8/2013	20:26	Cloudy	Middle	1.0	26.80	26.80	26.80	7.83	7.83	7.83	25.68	25.68	25.68	57.6	58.1	57.6	3.99	4.02	3.98	4.97	4.70	4.80	3	3.00
	20:27		Middle	1.0	26.80	26.80		7.83	7.83		25.68	25.68		57.4	57.1		3.97	3.95		4.78	4.74		3	
2/9/2013	15:54	Cloudy	Middle	1.5	27.30	27.30	27.35	7.84	7.84	7.84	29.11	29.11	29.12	39.8	40.7	40.6	2.67	2.74	**2.73**	1.75	1.77	1.76	<2	<2
	15:55		Middle	1.5	27.40	27.40		7.83	7.83		29.12	29.12		41.3	40.4		2.79	2.71		1.77	1.75		<2	
4/9/2013	19:10	Cloudy	Middle	1.5	25.80	25.80	25.80	7.89	7.89	7.88	25.57	25.57	25.57	63.3	64.2	63.5	4.46	4.52	4.47	1.76	1.62	1.67	<2	<2
	19:11		Middle	1.5	25.80	25.80		7.86	7.86		25.56	25.56		63.5	63.0		4.47	4.44		1.71	1.60		<2	
6/9/2013	18:03	Fine	Middle	1.0	27.10	27.10	27.10	7.89	7.89	7.88	27.80	27.80	27.81	70.7	70.3	70.2	4.81	4.77	4.77	1.69	1.81	1.66	2	2.00
	18:04		Middle	1.0	27.10	27.10		7.86	7.86		27.81	27.81		70.1	69.7		4.77	4.74		1.59	1.53		2	
9/9/2013	11:35	Fine	Middle	1.5	27.90	27.90	28.00	7.92	7.92	7.92	28.90	28.90	28.90	58.2	60.1	60.0	3.88	4.00	4.00	4.39	4.42	4.40	3	3.50
	11:37		Middle	1.5	28.10	28.10		7.92	7.92		28.89	28.89		60.6	61.1		4.04	4.07		4.40	4.38		4	
11/9/2013	12:32	Fine	Middle	1.5	27.60	27.60	27.65	7.87	7.87	7.87	28.19	28.19	28.18	51.4	51.6	51.4	3.46	3.47	3.46	2.05	2.04	2.04	3	3.50
	12:34		Middle	1.5	27.70	27.70		7.86	7.86		28.17	28.17		51.0	51.5		3.43	3.47		2.03	2.03		4	
13/9/2013	15:02	Fine	Middle	1.5	28.50	28.50	28.50	7.87	7.87	7.88	28.36	28.36	28.36	54.0	54.3	54.2	3.59	3.60	3.60	3.11	3.12	3.12	4	3.00
	15:04		Middle	1.5	28.50	28.50		7.88	7.88		28.36	28.36		54.5	54.0		3.61	3.58		3.12	3.12		2	
16/9/2013	15:25	Fine	Middle	1.5	29.20	29.20	29.20	7.96	7.96	7.89	27.81	27.81	27.81	52.4	52.3	53.1	3.45	3.44	3.49	4.28	4.05	4.14	2	2.50
	15:27		Middle	1.5	29.20	29.20		7.81	7.81		27.81	27.81		53.5	54.1		3.52	3.56		4.10	4.13		3	
18/9/2013	16:17	Fine	Middle	1.5	28.10	28.10	28.10	8.12	8.12	8.12	29.46	29.46	29.50	69.9	69.2	70.0	4.64	4.59	4.66	5.00	4.90	4.86	2	2.50
	16:18		Middle	1.5	28.10	28.10		8.12	8.12		29.53	29.53		70.3	70.7		4.69	4.72		4.77	4.76		3	
21/9/2013	19:25	Cloudy	Middle	1.5	30.40	30.40	30.40	8.03	8.03	8.02	29.59	29.59	29.59	69.2	69.6	70.7	4.42	4.45	4.69	2.21	2.05	2.10	5	5.00
	19:26		Middle	1.5	30.40	30.40		8.01	8.01		29.59	29.59		71.3	72.5		4.96	4.93		2.02	2.11		5	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	12:07	Fine	Middle	1.5	28.40	28.40	28.45	7.93	7.93	7.95	28.47	28.47	28.47	56.8	57.8	56.9	3.77	3.85	3.78	5.38	5.37	5.38	<2	<2
	12:09		Middle	1.5	28.50	28.50		7.97	7.97		28.47	28.47		56.9	56.2		3.77	3.73		5.37	5.39		<2	
27/9/2013	16:45	Fine	Middle	1.5	27.90	27.90	27.88	7.59	7.59	7.59	30.60	30.60	30.62	38.5	38.5	38.6	2.54	2.55	**2.55**	4.49	4.49	4.48	<2	<2
	16:47		Middle	1.5	27.86	27.86		7.58	7.58		30.63	30.63		38.6	38.6		2.55	2.56		4.48	4.44		<2	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	23:20	Fine	Middle	3.0	27.70	27.70	27.70	8.28	8.28	8.28	25.84	25.84	25.86	74.9	74.8	74.5	5.10	5.10	5.08	1.93	1.93	1.92	3	4.00
	23:22		Middle	3.0	27.70	27.70		8.27	8.27		25.87	25.87		74.3	74.0		5.07	5.05		1.91	1.92		5	
31/8/2013	21:43	Cloudy	Middle	2.5	26.20	26.20	26.15	8.03	8.03	8.03	27.11	27.11	27.11	66.0	65.8	65.7	4.59	4.57	4.57	0.99	1.02	1.00	3	3.00
	21:45		Middle	2.5	26.10	26.10		8.03	8.03		27.10	27.10		65.7	65.4		4.57	4.55		1.00	1.00		3	
2/9/2013	15:03	Cloudy	Middle	2.0	27.10	27.10	27.10	8.02	8.02	8.03	28.03	28.03	28.03	78.7	78.9	79.1	5.35	5.36	5.37	1.63	1.63	1.62	5	5.00
	15:05		Middle	2.0	27.10	27.10		8.03	8.03		28.03	28.03		79.1	79.5		5.38	5.40		1.61	1.60		5	
4/9/2013	19:23	Cloudy	Middle	2.5	25.10	25.10	25.10	7.95	7.95	7.95	28.89	28.89	28.90	63.4	63.2	63.0	4.43	4.44	4.43	2.30	2.28	2.29	2	2.00
	19:25		Middle	2.5	25.10	25.10		7.94	7.94		28.90	28.90		62.8	62.6		4.42	4.41		2.26	2.31		2	
6/9/2013	16:57	Fine	Middle	2.0	26.00	26.00	26.10	7.95	7.95	7.95	28.56	28.56	28.57	74.9	74.3	74.3	5.15	5.11	5.11	1.86	1.89	1.81	2	2.50
	16:59		Middle	2.0	26.20	26.20		7.94	7.94		28.57	28.57		74.1	73.8		5.10	5.08		1.75	1.73		3	
9/9/2013	10:00	Fine	Middle	2.5	26.70	26.70	26.80	8.03	8.03	6.02	29.27	29.27	29.28	63.8	64.1	64.0	4.32	4.35	4.34	7.19	7.45	7.29	11	11.00
	10:02		Middle	2.5	26.90	26.90		8.01	0.01		29.28	29.28		63.7	64.4		4.32	4.37		7.21	7.30		11	
11/9/2013	10:51	Fine	Middle	2.5	27.20	27.20	27.25	8.01	8.01	8.01	28.72	28.72	28.72	59.9	59.9	60.7	4.05	4.03	4.10	6.84	6.73	6.69	9	8.50
	10:53		Middle	2.5	27.30	27.30		8.00	8.00		28.72	28.72		61.6	61.4		4.16	4.15		6.61	6.59		8	
13/9/2013	11:25	Fine	Middle	2.5	28.10	28.10	28.10	8.07	8.07	8.07	18.60	18.60	18.61	66.4	66.9	67.2	4.67	4.71	4.73	5.33	5.25	5.26	7	6.50
	11:27		Middle	2.5	28.10	28.10		8.07	8.07		18.61	18.61		67.8	67.7		4.77	4.76		5.24	5.23		6	
16/9/2013	14:50	Fine	Middle	2.5	27.80	27.80	27.75	8.01	8.01	8.01	28.54	28.54	28.56	63.3	63.0	62.8	4.24	4.23	4.21	6.14	6.11	6.13	10	9.50
	14:52		Middle	2.5	27.70	27.70		8.01	8.01		28.57	28.57		62.8	62.0		4.22	4.16		6.15	6.12		9	
18/9/2013	15:50	Fine	Middle	2.0	27.90	27.90	27.85	8.15	8.15	8.15	29.61	29.61	29.61	74.1	74.2	74.4	4.93	4.94	4.95	4.54	4.53	4.54	6	5.50
	15:52		Middle	2.0	27.80	27.80		8.15	8.15		29.60	29.60		74.4	74.8		4.95	4.98		4.52	4.56		5	
21/9/2013	19:55	Cloudy	Middle	2.5	28.20	28.20	28.20	8.10	8.10	8.10	29.82	29.82	29.83	51.4	51.2	51.1	3.40	3.39	3.39	5.08	5.02	5.02	8	8.50
	19:57		Middle	2.5	28.20	28.20		8.09	8.09		29.83	29.83		51.1	50.6		3.39	3.36		5.01	4.97		9	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:48	Fine	Middle	2.5	28.40	28.40	28.45	8.18	8.18	8.17	29.13	29.13	29.15	66.7	67.9	68.0	4.40	4.49	4.49	5.97	6.00	6.01	5	5.00
	10:50		Middle	2.5	28.50	28.50		8.16	8.16		29.16	29.16		68.8	68.7		4.54	4.54		5.97	6.09		5	
27/9/2013	16:23	Fine	Middle	3.0	27.90	27.90	27.80	8.14	8.14	8.14	30.37	30.37	30.37	60.7	60.3	60.7	4.03	4.01	4.03	4.40	4.46	4.42	<2	<2
	16:25		Middle	3.0	27.70	27.70		8.14	8.14		30.37	30.37		61.2	60.5		4.07	4.02		4.39	4.42		<2	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	22:39	Fine	Middle	3.0	27.70	27.70	27.70	8.36	8.36	8.38	25.36	25.36	25.37	73.4	73.1	73.1	5.01	4.99	4.99	2.49	2.50	2.53	5	4.50
	22:41		Middle	3.0	27.70	27.70		8.40	8.40		25.37	25.37		73.0	72.8		4.99	4.98		2.56	2.57		4	
31/8/2013	20:38	Cloudy	Middle	2.5	26.00	26.00	25.95	8.09	8.09	8.10	26.65	26.65	26.64	54.7	54.5	54.3	3.82	3.81	3.80	1.26	1.24	1.28	2	2.50
	20:40		Middle	2.5	25.90	25.90		8.10	8.10		26.63	26.63		54.1	54.0		3.79	3.79		1.32	1.30		3	
2/9/2013	15:40	Cloudy	Middle	2.5	26.80	26.80	26.85	8.10	8.10	8.09	28.04	28.04	28.10	82.3	82.1	82.5	5.61	5.60	5.63	1.13	1.14	1.17	3	3.50
	15:42		Middle	2.5	26.90	26.90		8.07	8.07		28.15	28.15		82.7	82.8		5.64	5.65		1.16	1.23		4	
4/9/2013	20:11	Cloudy	Middle	2.5	24.80	24.80	24.80	7.94	7.94	7.94	29.88	29.88	29.92	58.9	58.7	58.6	4.12	4.11	4.10	2.76	2.69	2.70	5	4.50
	20:13		Middle	2.5	24.80	24.80		7.94	7.94		29.95	29.95		58.4	58.3		4.09	4.09		2.68	2.68		4	
6/9/2013	20:00	Fine	Middle	2.5	25.50	25.50	25.50	7.94	7.94	7.92	29.13	29.13	29.14	59.2	59.0	58.9	4.11	4.10	4.09	4.72	4.71	4.75	3	3.00
	20:02		Middle	2.5	25.50	25.50		7.90	7.90		29.14	29.14		58.7	58.5		4.08	4.07		4.87	4.71		3	
9/9/2013	10:33	Fine	Middle	3.0	27.30	27.30	27.40	7.99	7.99	7.97	28.87	28.87	28.88	63.0	62.7	62.9	4.24	4.22	4.24	5.56	5.55	5.54	8	8.50
	10:35		Middle	3.0	27.50	27.50		7.95	7.95		28.88	28.88		63.1	62.9		4.25	4.23		5.54	5.49		9	
11/9/2013	10:10	Fine	Middle	2.5	27.10	27.10	27.05	7.97	7.97	7.97	28.26	28.26	28.24	62.0	62.1	61.9	4.22	4.22	4.21	3.94	3.96	3.97	7	6.00
	10:12		Middle	2.5	27.00	27.00		7.96	7.96		28.22	28.22		62.3	61.3		4.24	4.17		3.98	3.99		5	
13/9/2013	11:58	Fine	Middle	2.5	27.60	27.60	27.60	8.03	8.03	8.03	21.43	21.43	21.43	70.5	70.8	70.7	4.93	4.96	4.95	5.51	5.53	5.55	10	9.50
	12:00		Middle	2.5	27.60	27.60		8.03	8.03		21.43	21.43		70.7	70.6		4.95	4.94		5.53	5.62		9	
16/9/2013	15:33	Fine	Middle	2.5	28.60	28.60	28.60	8.04	8.04	8.03	28.32	28.32	28.32	70.1	68.5	69.3	4.64	4.53	4.59	3.74	3.70	3.77	5	4.50
	15:35		Middle	2.5	28.60	28.60		8.02	8.02		28.32	28.32		69.4	69.2		4.59	4.58		3.80	3.84		4	
18/9/2013	16:25	Fine	Middle	2.5	28.20	28.20	28.15	8.17	8.17	8.16	29.38	29.38	29.45	71.0	71.2	71.9	4.70	4.71	4.76	5.39	5.44	5.40	6	5.00
	16:27		Middle	2.5	28.10	28.10		8.14	8.14		29.51	29.51		72.5	72.7		4.80	4.82		5.41	5.34		4	
21/9/2013	20:41	Cloudy	Middle	2.5	28.50	28.50	28.50	8.10	8.10	8.10	29.52	29.52	29.53	65.4	65.1	65.0	4.31	4.29	4.29	4.56	4.52	4.51	6	6.00
	20:43		Middle	2.5	28.50	28.50		8.10	8.10		29.53	29.53		64.9	64.7		4.29	4.28		4.55	4.42		6	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:05	Fine	Middle	2.5	28.20	28.20	28.15	8.08	8.08	8.09	28.90	28.90	28.90	60.0	60.4	59.7	3.99	4.02	3.97	6.54	6.49	6.49	6	6.00
	10:07		Middle	2.5	28.10	28.10		8.09	8.09		28.89	28.89		59.2	59.1		3.94	3.93		6.48	6.43		6	
27/9/2013	17:03	Fine	Middle	3.0	28.70	28.70	28.60	8.12	8.12	8.12	30.30	30.30	30.30	71.7	70.7	71.1	4.70	4.63	4.66	6.20	6.18	6.18	5	5.50
	17:04		Middle	3.0	28.50	28.50		8.11	8.11		30.30	30.30		71.4	70.6		4.68	4.62		6.19	6.15		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P3 - APA
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	22:46	Fine	Middle	3.0	27.60	27.60	27.65	8.38	8.38	8.38	25.27	25.27	25.27	72.3	72.1	72.0	4.96	4.95	4.95	2.03	2.03	1.98	4	4.00
	22:48		Middle	3.0	27.70	27.70		8.38	8.38		25.26	25.26		72.0	71.7		4.95	4.93		1.94	1.92		4	
31/8/2013	20:51	Cloudy	Middle	2.5	26.30	26.30	26.25	8.11	8.11	8.12	26.67	26.67	26.68	71.9	71.7	71.7	5.00	4.99	4.99	1.52	1.52	1.49	2	2.00
	20:53		Middle	2.5	26.20	26.20		8.12	8.12		26.69	26.69		71.6	71.4		4.99	4.97		1.47	1.45		2	
2/9/2013	15:32	Cloudy	Middle	2.0	26.80	26.80	26.80	8.05	8.05	8.05	28.34	28.34	28.35	75.6	75.0	76.1	5.16	5.12	5.19	1.50	1.47	1.44	3	3.00
	15:34		Middle	2.0	26.80	26.80		8.04	8.04		28.35	28.35		77.3	76.3		5.27	5.20		1.42	1.35		3	
4/9/2013	20:01	Cloudy	Middle	2.5	25.30	25.30	25.30	7.95	7.95	7.95	28.87	28.87	28.90	71.1	70.8	70.8	4.96	4.94	4.94	2.94	2.97	2.92	2	2.50
	20:03		Middle	2.5	25.30	25.30		7.95	7.95		28.93	28.93		70.6	70.5		4.93	4.93		2.86	2.90		3	
6/9/2013	20:09	Fine	Middle	2.5	25.30	25.30	25.30	7.91	7.91	7.90	29.23	29.23	29.26	57.6	57.3	57.3	4.01	3.99	3.99	3.22	3.21	3.16	2	2.00
	20:11		Middle	2.5	25.30	25.30		7.89	7.89		29.28	29.28		57.2	56.9		3.99	3.96		3.11	3.10		2	
9/9/2013	10:25	Fine	Middle	2.5	26.60	26.60	26.60	8.04	8.04	8.03	28.86	28.86	28.87	60.5	61.3	61.2	4.15	4.18	4.18	5.63	5.64	5.58	6	6.00
	10:27		Middle	2.5	26.60	26.60		8.02	8.02		28.87	28.87		61.4	61.7		4.19	4.20		5.55	5.49		6	
11/9/2013	10:22	Fine	Middle	2.5	26.90	26.90	26.90	7.98	7.98	7.98	28.28	28.28	28.29	61.5	61.7	61.7	4.19	4.20	4.20	3.65	3.71	3.68	7	6.00
	10:24		Middle	2.5	26.90	26.90		7.98	7.98		28.29	28.29		61.7	61.9		4.20	4.21		3.69	3.68		5	
13/9/2013	11:52	Fine	Middle	2.5	27.60	27.60	27.60	8.01	8.01	8.01	21.77	21.77	21.77	74.0	73.9	73.8	5.17	5.16	5.15	3.10	3.05	3.05	5	5.50
	11:54		Middle	2.5	27.60	27.60		8.00	8.01		21.77	21.77		73.7	73.4		5.15	5.13		3.02	3.01		6	
16/9/2013	15:24	Fine	Middle	2.5	28.90	28.90	28.95	8.05	8.05	8.05	28.37	28.37	28.37	70.5	69.5	70.0	4.61	4.57	4.59	2.44	2.46	2.46	5	4.50
	15:26		Middle	2.5	29.00	29.00		8.04	8.04		28.37	28.37		70.7	69.2		4.64	4.54		2.50	2.42		4	
18/9/2013	16:14	Fine	Middle	2.5	27.80	27.80	27.85	8.18	8.18	8.18	29.51	29.51	29.52	72.6	73.3	72.5	4.85	4.88	4.84	3.67	3.68	3.70	3	3.50
	16:16		Middle	2.5	27.90	27.90		8.17	8.17		29.52	29.52		72.3	71.9		4.82	4.79		3.69	3.74		4	
21/9/2013	20:34	Cloudy	Middle	2.5	28.30	28.30	28.35	8.08	8.08	8.08	29.60	29.60	29.49	71.1	71.0	70.3	4.69	4.69	4.68	3.95	3.93	3.96	5	5.50
	20:36		Middle	2.5	28.40	28.40		8.08	8.08		29.39	29.38		69.7	69.4		4.67	4.65		3.99	3.98		6	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:19	Fine	Middle	2.5	27.80	27.80	27.75	8.10	8.10	8.09	28.96	28.96	28.97	49.4	49.4	49.2	3.31	3.31	3.30	7.42	7.52	7.55	7	7.00
	10:21		Middle	2.5	27.70	27.70		8.07	8.07		28.98	28.98		49.1	49.0		3.29	3.28		7.60	7.64		7	
27/9/2013	16:52	Fine	Middle	3.0	28.10	28.10	28.05	8.13	8.13	8.13	30.33	30.33	30.34	68.1	67.4	67.9	4.50	4.46	4.50	4.02	4.07	4.06	3	3.00
	16:54		Middle	3.0	28.00	28.00		8.12	8.12		30.34	30.34		68.4	67.8		4.53	4.49		4.06	4.10		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P4 - SOC
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	22:54	Fine	Middle	3.0	27.60	27.60	27.60	8.31	8.31	8.31	25.90	25.90	25.93	72.4	72.1	72.0	4.94	4.92	4.91	1.93	1.92	1.90	4	4.00
	22:56		Middle	3.0	27.60	27.60		8.30	8.30		25.96	25.96		71.8	71.6		4.90	4.89		1.89	1.84		4	
31/8/2013	-	Cloudy	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
2/9/2013	15:20	Cloudy	Middle	2.0	27.20	27.30	27.25	8.04	8.04	8.05	28.00	28.00	28.01	85.4	84.9	85.0	5.79	5.75	5.76	1.07	1.08	1.09	4	3.50
	15:22		Middle	2.0	27.20	27.30		8.05	8.05		28.01	28.01		84.6	85.0		5.73	5.76		1.09	1.10		3	
4/9/2013	19:49	Cloudy	Middle	2.5	25.10	25.10	25.05	7.99	7.99	7.98	29.09	29.09	29.07	61.9	61.8	61.6	4.33	4.33	4.32	1.81	1.79	1.76	2	2.00
	19:51		Middle	2.5	25.00	25.00		7.96	7.96		29.05	29.05		61.5	61.3		4.31	4.30		1.71	1.73		2	
6/9/2013	20:18	Fine	Middle	2.5	25.10	25.10	25.15	7.94	7.94	7.94	29.46	29.46	29.49	60.6	60.5	60.2	4.22	4.22	4.21	4.26	4.24	4.30	6	6.00
	20:20		Middle	2.5	25.20	25.20		7.93	7.93		29.51	29.51		60.1	59.7		4.20	4.18		4.33	4.35		6	
9/9/2013	10:17	Fine	Middle	2.5	26.70	26.70	26.75	8.04	8.04	8.03	29.28	29.28	29.29	69.2	69.1	69.9	4.70	4.69	4.75	7.69	7.10	7.24	12	12.50
	10:19		Middle	2.5	26.80	26.80		8.02	8.02		29.29	29.29		70.6	70.8		4.79	4.80		7.09	7.06		13	
11/9/2013	10:34	Fine	Middle	2.5	27.00	27.00	27.00	8.03	8.03	8.02	28.46	28.46	28.46	65.4	64.4	65.0	4.44	4.37	4.41	7.74	7.75	7.65	12	12.50
	10:36		Middle	2.5	27.00	27.00		8.00	8.00		28.46	28.46		65.1	65.1		4.42	4.42		7.66	7.45		13	
13/9/2013	11:42	Fine	Middle	2.5	27.70	27.70	27.75	8.05	8.05	8.03	21.62	21.62	21.65	70.3	70.9	70.9	4.90	4.94	4.94	5.37	5.32	5.31	6	6.00
	11:44		Middle	2.5	27.80	27.80		8.01	8.01		21.67	21.67		71.2	71.3		4.96	4.97		5.26	5.28		6	
16/9/2013	15:05	Fine	Middle	2.5	28.30	28.30	28.35	8.03	8.03	8.03	28.60	28.60	28.61	68.3	67.1	67.8	4.53	4.45	4.50	5.56	5.49	5.53	8	7.50
	15:06		Middle	2.5	28.40	28.40		8.02	8.02		28.62	28.62		68.5	67.4		4.54	4.46		5.51	5.54		7	
18/9/2013	16:03	Fine	Middle	2.0	27.90	27.90	27.85	8.18	8.18	8.18	29.37	29.37	29.44	77.3	77.7	77.6	5.14	5.17	5.17	5.50	5.49	5.49	5	5.00
	16:04		Middle	2.0	27.80	27.80		8.18	8.18		29.51	29.51		77.5	78.0		5.16	5.20		5.47	5.50		5	
21/9/2013	20:06	Cloudy	Middle	2.5	28.10	28.10	28.05	8.11	8.11	8.11	29.86	29.86	29.86	64.7	64.5	64.3	4.28	4.27	4.26	5.89	5.95	5.92	8	8.50
	20:08		Middle	2.5	28.00	28.00		8.11	8.11		29.86	29.86		64.1	63.8		4.25	4.23		5.92	5.90		9	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:29	Fine	Middle	2.5	28.10	28.10	28.05	8.11	8.11	8.11	29.13	29.13	29.15	55.0	54.8	54.7	3.66	3.64	3.64	6.86	6.78	6.79	6	6.50
	10:31		Middle	2.5	28.00	28.00		8.10	8.10		29.17	29.17		54.6	54.5		3.63	3.63		6.75	6.76		7	
27/9/2013	16:39	Fine	Middle	3.0	27.60	27.60	27.55	8.14	8.14	8.14	30.37	30.37	30.38	71.2	70.5	70.9	4.75	4.70	4.73	3.30	3.27	3.26	3	3.00
	16:40		Middle	3.0	27.50	27.50		8.13	8.13		30.38	30.38		71.4	70.3		4.76	4.69		3.21	3.24		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Due to obstruction by construction material on 31 August 2013, water quality monitoring at water quality monitoring station P4 during flood tide was cancelled.

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	23:07	Fine	Middle	3.0	27.70	27.70	27.70	8.33	8.33	8.33	25.37	25.37	25.39	73.1	73.0	72.9	4.99	4.99	4.98	1.72	1.71	1.72	5	5.00
	23:09		Middle	3.0	27.70	27.70		8.32	8.32		25.41	25.41		72.8	72.6		4.97	4.96		1.73	1.73		5	
31/8/2013	21:29	Cloudy	Middle	2.5	26.30	26.30	26.20	8.03	8.03	8.02	26.62	26.62	26.62	75.7	75.5	75.4	5.27	5.26	5.25	1.61	1.57	1.57	4	4.50
	21:31		Middle	2.5	26.10	26.10		8.00	8.00		26.61	26.61		75.3	75.0		5.25	5.23		1.53	1.56		5	
2/9/2013	15:10	Cloudy	Middle	2.0	27.30	27.30	27.30	8.09	8.09	8.09	27.94	27.94	27.95	85.6	85.8	85.9	5.86	5.81	5.84	1.05	1.06	1.07	3	3.50
	15:12		Middle	2.0	27.30	27.30		8.09	8.09		27.96	27.96		86.0	86.3		5.82	5.85		1.07	1.09		4	
4/9/2013	19:39	Cloudy	Middle	2.5	25.10	25.10	25.10	7.91	7.91	7.92	28.87	28.87	28.83	69.0	68.6	68.5	4.83	4.81	4.80	1.81	1.79	1.79	3	2.50
	19:41		Middle	2.5	25.10	25.10		7.92	7.92		28.78	28.78		68.2	68.0		4.79	4.78		1.74	1.82		2	
6/9/2013	20:28	Fine	Middle	2.5	25.10	25.10	25.15	7.93	7.93	7.93	29.40	29.40	29.43	61.7	61.5	61.3	4.30	4.29	4.28	4.31	4.39	4.31	5	4.50
	20:30		Middle	2.5	25.20	25.20		7.92	7.92		29.46	29.46		61.2	60.8		4.27	4.25		4.29	4.26		4	
9/9/2013	10:12	Fine	Middle	2.5	26.90	26.90	26.90	8.06	8.06	8.05	29.26	29.26	29.26	67.6	68.0	68.0	4.58	4.60	4.60	7.64	7.69	7.69	10	10.50
	10:14		Middle	2.5	26.90	26.90		8.03	8.03		29.26	29.26		67.9	68.3		4.60	4.62		7.70	7.73		11	
11/9/2013	10:39	Fine	Middle	2.5	27.00	27.00	27.00	8.01	8.01	8.01	28.68	28.68	28.68	60.4	61.3	60.5	4.10	4.16	4.11	8.43	8.42	8.48	17	17.50
	10:41		Middle	2.5	27.00	27.00		8.01	8.01		28.67	28.67		60.1	60.3		4.07	4.09		8.52	8.53		18	
13/9/2013	11:38	Fine	Middle	2.5	27.80	27.80	27.85	8.02	8.02	8.02	21.32	21.32	21.38	70.5	71.0	71.0	4.91	4.94	4.94	5.50	5.48	5.44	6	6.00
	11:40		Middle	2.5	27.90	27.90		8.02	8.02		21.43	21.43		71.1	71.5		4.95	4.97		5.42	5.36		6	
16/9/2013	14:58	Fine	Middle	2.5	28.00	28.00	27.95	8.03	8.03	8.03	28.60	28.60	28.60	64.2	63.8	64.4	4.29	4.26	4.30	5.57	5.50	5.52	10	9.50
	15:00		Middle	2.5	27.90	27.90		8.02	8.02		28.60	28.60		65.2	64.2		4.36	4.29		5.54	5.48		9	
18/9/2013	16:00	Fine	Middle	2.0	27.90	27.90	27.95	8.18	8.18	8.18	29.42	29.42	29.52	74.2	76.3	75.9	4.93	5.07	5.04	6.22	6.21	6.19	4	4.00
	16:02		Middle	2.0	28.00	28.00		8.18	8.18		29.62	29.62		76.5	76.4		5.08	5.07		6.18	6.16		4	
21/9/2013	20:17	Cloudy	Middle	2.5	28.10	28.10	28.15	8.08	8.08	8.08	29.77	29.77	29.76	67.2	67.0	66.8	4.45	4.44	4.43	4.68	4.77	4.68	3	3.50
	20:19		Middle	2.5	28.20	28.20		8.07	8.07		29.74	29.74		66.6	66.4		4.41	4.40		4.60	4.65		4	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	10:35	Fine	Middle	2.5	28.10	28.10	28.05	8.11	8.11	8.11	29.22	29.22	29.23	58.2	58.2	58.5	3.86	3.87	3.89	7.19	7.18	7.26	7	7.00
	10:37		Middle	2.5	28.00	28.00		8.10	8.10		29.23	29.23		58.8	58.9		3.91	3.92		7.26	7.40		7	
27/9/2013	16:33	Fine	Middle	3.0	27.80	27.80	27.80	8.14	8.14	8.14	30.40	30.40	30.40	61.1	61.7	61.2	4.07	4.03	4.05	5.11	5.07	5.07	5	5.00
	16:35		Middle	3.0	27.80	27.80		8.14	8.14		30.39	30.39		61.3	60.7		4.08	4.03		5.06	5.02		5	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre
Mid-Flood Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	0:15	Fine	Middle	3.5	28.40	28.40	28.40	8.24	8.24	8.25	27.79	27.79	27.79	74.6	77.0	75.3	5.00	5.12	5.01	2.93	2.87	2.87	4	4.00
	0:16		Middle	3.5	28.40	28.40		8.25	8.25		27.79	27.79		76.5	73.2		5.05	4.86		2.85	2.81		4	
31/8/2013	21:40	Cloudy	Middle	3.5	26.60	26.60	26.60	8.08	8.08	8.08	28.92	28.92	28.92	70.1	70.0	69.7	4.75	4.74	4.74	1.76	1.55	1.55	4	4.00
	21:41		Middle	3.5	26.60	26.60		8.08	8.08		28.92	28.92		69.2	69.4		4.72	4.74		1.49	1.40		4	
2/9/2013	15:17	Cloudy	Middle	3.0	27.30	27.30	27.35	8.07	8.07	8.08	30.29	30.59	30.52	65.3	63.8	64.3	4.34	4.25	4.28	2.71	2.75	2.74	3	3.00
	15:19		Middle	3.0	27.40	27.40		8.08	8.08		30.60	30.60		64.8	63.4		4.30	4.22		2.73	2.78		3	
4/9/2013	20:21	Cloudy	Middle	3.5	26.00	26.00	26.05	7.97	7.97	7.99	29.65	29.65	29.69	75.5	77.5	75.7	5.18	5.31	5.18	3.17	2.94	3.10	3	2.50
	20:22		Middle	3.5	26.10	26.10		8.01	8.00		29.72	29.72		74.2	75.4		5.08	5.16		3.00	3.27		2	
6/9/2013	19:35	Fine	Middle	3.5	26.90	26.90	26.90	7.96	7.96	7.97	29.92	29.92	29.92	73.5	74.4	73.6	4.94	5.02	4.96	4.67	4.93	4.68	3	3.00
	19:36		Middle	3.5	26.90	26.90		7.98	7.98		29.92	29.92		73.6	72.8		4.96	4.91		4.61	4.50		3	
9/9/2013	11:00	Fine	Middle	2.5	27.70	27.70	27.80	8.07	8.07	8.08	30.16	30.16	30.16	80.0	80.4	79.7	5.31	5.34	5.29	7.19	7.18	7.13	5	5.50
	11:02		Middle	2.5	27.90	27.90		8.08	8.08		30.16	30.16		79.3	78.9		5.26	5.23		7.09	7.06		6	
11/9/2013	12:00	Fine	Middle	3.5	27.60	27.60	27.65	8.07	8.07	8.06	29.34	29.34	29.38	79.2	78.9	78.6	5.30	5.28	5.26	4.67	4.84	4.79	5	6.00
	12:02		Middle	3.5	27.70	27.70		8.05	8.05		29.41	29.41		77.8	78.6		5.20	5.26		4.84	4.80		7	
13/9/2013	14:25	Fine	Middle	3.5	28.40	28.40	28.45	8.05	8.05	8.05	29.22	29.22	29.22	69.5	70.0	69.5	4.59	4.62	4.58	5.08	5.03	5.03	7	6.50
	14:27		Middle	3.5	28.50	28.50		8.05	8.05		29.22	29.22		69.0	69.3		4.55	4.57		5.01	4.99		6	
16/9/2013	14:40	Fine	Middle	3.5	28.60	28.60	28.70	8.09	8.09	8.10	29.01	29.01	29.02	77.3	77.0	76.6	5.09	5.07	5.04	6.71	6.77	6.78	9	9.50
	14:42		Middle	3.5	28.80	28.80		8.10	8.10		29.02	29.02		76.0	75.9		5.00	4.99		6.81	6.83		10	
18/9/2013	15:40	Fine	Middle	3.5	27.80	27.80	27.85	8.22	8.22	8.23	30.04	30.04	30.05	88.6	88.5	88.4	5.88	5.87	5.87	8.59	8.48	8.56	7	7.00
	15:42		Middle	3.5	27.90	27.90		8.23	8.23		30.05	30.05		88.6	88.0		5.88	5.84		8.46	8.70		7	
21/9/2013	20:40	Cloudy	Middle	3.5	30.40	30.40	30.40	8.24	8.24	8.23	30.58	30.58	30.82	84.1	83.2	82.8	5.30	5.27	5.24	7.88	8.08	8.06	11	12.00
	20:41		Middle	3.5	30.40	30.40		8.22	8.22		31.04	31.06		83.4	80.3		5.28	5.09		8.10	8.16		13	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	11:35	Fine	Middle	3.5	28.30	28.30	28.30	8.18	8.18	8.17	29.04	29.04	29.05	76.1	77.0	76.3	5.03	5.07	5.03	10.00	9.43	9.55	5	5.50
	11:37		Middle	3.5	28.30	28.30		8.16	8.16		29.05	29.05		76.4	75.5		5.04	4.98		9.40	9.38		6	
27/9/2013	18:20	Fine	Middle	3.0	28.12	28.12	28.13	7.80	7.80	7.80	32.11	32.11	32.11	60.0	59.9	59.8	3.92	3.91	3.90	4.85	4.86	4.87	2	2.50
	18:22		Middle	3.0	28.13	28.13		7.80	7.80		32.11	32.11		59.8	59.3		3.91	3.87		4.93	4.84		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth (m)		Water Temperature (°C)			pH (-)			Salinity (ppt)			DO Saturation (%)			DO (mg/L)			Turbidity (NTU)			Suspended Solids (mg/L)	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	23:54	Fine	Middle	2.0	27.90	27.90	27.90	8.16	8.16	8.16	26.39	26.39	26.41	58.6	58.5	58.4	3.97	3.97	3.96	1.11	1.10	1.13	5	4.50
	23:56		Middle	2.0	27.90	27.90		8.16	8.16		26.42	26.42		58.3	58.0		3.96	3.95		1.12	1.17		4	
31/8/2013	22:02	Cloudy	Middle	1.5	26.50	26.50	26.50	7.95	7.95	7.95	26.29	26.29	26.30	57.4	57.3	57.2	3.97	3.97	3.96	3.94	3.97	3.95	4	3.50
	22:04		Middle	1.5	26.50	26.50		7.94	7.94		26.30	26.30		57.1	56.8		3.96	3.94		3.99	3.88		3	
2/9/2013	14:40	Cloudy	Middle	1.5	26.80	26.80	26.80	7.81	7.81	7.81	24.84	24.84	24.85	55.6	56.4	56.5	3.89	3.94	3.95	6.85	6.60	6.80	24	**25.50**
	14:42		Middle	1.5	26.80	26.80		7.80	7.80		24.86	24.86		56.6	57.4		3.94	4.01		6.89	6.86		27	
4/9/2013	18:11	Cloudy	Middle	1.5	25.70	25.70	25.65	7.95	7.95	7.94	28.31	28.31	28.33	60.3	59.9	59.9	3.99	3.96	3.96	7.08	7.07	7.01	7	7.00
	18:13		Middle	1.5	25.60	25.60		7.92	7.92		28.34	28.34		59.7	59.6		3.95	3.95		6.93	6.95		7	
6/9/2013	16:35	Fine	Middle	1.5	26.50	26.50	26.60	7.86	7.86	7.86	25.36	25.36	25.36	45.7	46.0	45.7	3.17	3.19	3.18	4.15	4.20	4.14	4	4.50
	16:37		Middle	1.5	26.70	26.70		7.86	7.86		25.36	25.36		45.4	45.8		3.16	3.18		4.10	4.11		5	
9/9/2013	9:32	Fine	Middle	2.0	26.40	26.40	26.35	8.02	8.02	7.98	28.48	28.48	28.49	54.5	54.3	54.8	3.78	3.79	3.79	3.61	3.62	3.57	13	13.00
	9:34		Middle	2.0	26.30	26.30		7.94	7.94		28.50	28.50		54.6	55.6		3.76	3.83		3.52	3.54		13	
11/9/2013	11:19	Fine	Middle	1.5	27.60	27.60	22.60	7.90	7.90	7.90	28.26	28.26	28.27	48.8	49.1	49.1	3.29	3.31	3.31	3.81	3.82	3.76	4	4.00
	11:21		Middle	1.5	27.60	7.60		7.90	7.90		28.27	28.27		49.2	49.4		3.31	3.33		3.72	3.67		4	
13/9/2013	11:00	Fine	Middle	1.5	28.00	28.00	28.00	7.89	7.89	7.88	27.88	27.88	27.88	56.8	56.9	56.8	3.81	3.82	3.82	3.05	3.06	3.09	4	4.00
	11:02		Middle	1.5	28.00	28.00		7.86	7.86		27.88	27.88		57.0	56.6		3.83	3.80		3.08	3.16		4	
16/9/2013	14:19	Fine	Middle	2.0	28.00	28.00	27.95	7.91	7.91	7.90	26.73	26.73	26.76	32.5	32.7	32.8	2.20	2.21	**2.22**	2.25	2.26	2.23	2	2.00
	14:21		Middle	2.0	27.90	27.90		7.88	7.88		26.78	26.78		33.4	32.7		2.26	2.21		2.22	2.20		2	
18/9/2013	15:15	Fine	Middle	1.5	28.10	28.10	28.15	8.10	8.10	8.10	28.93	28.93	28.94	56.1	56.3	56.6	3.75	3.77	3.78	6.61	6.60	6.59	6	6.50
	15:17		Middle	1.5	28.20	28.20		8.10	8.10		28.94	28.94		56.9	57.0		3.79	3.80		6.59	6.57		7	
21/9/2013	19:08	Cloudy	Middle	2.0	28.70	28.70	28.70	8.07	8.07	8.07	29.56	29.56	29.56	48.0	47.6	47.6	3.16	3.14	**3.14**	5.55	5.54	5.50	14	13.00
	19:10		Middle	2.0	28.70	28.70		8.07	8.07		29.56	29.56		47.5	47.2		3.14	3.12		5.47	5.43		12	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	11:08	Fine	Middle	1.5	28.50	28.50	28.45	8.05	8.05	8.04	28.42	28.42	28.45	52.1	52.2	51.8	3.45	3.46	3.43	5.31	5.26	5.15	4	3.50
	11:10		Middle	1.5	28.40	28.40		8.02	8.02		28.47	28.47		51.9	50.9		3.44	3.38		5.02	5.01		3	
27/9/2013	16:00	Fine	Middle	2.0	27.60	27.60	27.65	8.06	8.06	8.06	30.16	30.16	30.16	57.8	57.2	57.5	3.85	3.80	3.83	3.05	3.09	3.08	3	3.00
	16:02		Middle	2.0	27.70	27.70		8.06	8.06		30.15	30.15		58.0	57.1		3.86	3.80		3.10	3.07		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
28/8/2013	2:30	Fine	Middle	2.0	28.30	28.30	28.40	8.29	8.29	8.30	26.73	26.73	26.73	81.5	84.3	82.6	5.41	5.64	5.51	2.72	2.49	2.45	3	3.50
	2:31		Middle	2.0	28.50	28.50		8.31	8.31		26.73	26.73		82.6	81.9		5.52	5.47		2.43	2.15		4	
31/8/2013	22:15	Cloudy	Middle	2.0	26.60	26.60	26.60	8.15	8.15	8.15	28.31	28.31	28.31	70.8	71.3	70.2	4.85	4.88	4.80	1.88	2.00	1.88	2	2.00
	22:16		Middle	2.0	26.60	26.60		8.15	8.15		28.31	28.31		70.3	68.2		4.81	4.67		1.81	1.83		2	
2/9/2013	14:48	Cloudy	Middle	2.5	27.80	27.80	27.90	8.05	8.05	8.06	31.10	31.10	31.10	62.3	61.9	62.1	4.12	4.08	4.10	1.07	1.05	1.07	8	8.50
	14:50		Middle	2.5	28.00	28.00		8.06	8.06		31.09	31.09		62.3	62.0		4.12	4.09		1.06	1.09		9	
4/9/2013	21:00	Cloudy	Middle	2.0	25.70	25.70	25.70	7.94	7.94	7.96	30.23	30.35	30.33	75.4	76.1	75.3	5.19	5.23	5.18	2.91	2.72	2.86	6	6.00
	21:01		Middle	2.0	25.70	25.70		7.97	7.97		30.36	30.36		75.3	74.4		5.18	5.11		2.84	2.96		6	
6/9/2013	20:20	Fine	Middle	2.0	26.70	26.70	26.70	8.03	8.03	8.02	29.87	29.86	29.61	75.1	76.5	76.6	5.08	5.18	5.18	6.97	6.32	6.51	6	6.50
	20:21		Middle	2.0	26.70	26.70		8.00	8.00		29.86	28.86		78.3	76.5		5.30	5.17		6.40	6.35		7	
9/9/2013	10:30	Fine	Middle	2.5	27.20	27.20	27.25	7.99	7.99	7.99	29.54	29.54	29.54	71.7	73.2	72.9	4.82	4.92	4.90	5.67	5.65	5.72	9	9.00
	10:32		Middle	2.5	27.30	27.30		7.98	7.98		29.53	29.53		73.4	73.4		4.93	4.93		5.77	5.77		9	
11/9/2013	11:35	Fine	Middle	3.0	28.00	28.00	28.05	8.07	8.07	8.07	29.29	29.29	29.29	72.8	74.1	73.7	4.84	4.92	4.89	6.56	6.35	6.33	11	12.00
	11:37		Middle	3.0	28.10	28.10		8.07	8.07		29.29	29.29		73.3	74.4		4.87	4.94		6.25	6.14		13	
13/9/2013	13:50	Fine	Middle	3.0	28.60	28.60	28.65	8.10	8.10	8.09	29.21	29.21	29.21	77.6	79.1	77.9	5.11	5.20	5.13	4.58	4.66	4.66	5	5.50
	13:52		Middle	3.0	28.70	28.70		8.08	8.08		29.21	29.21		78.0	77.0		5.13	5.06		4.69	4.72		6	
16/9/2013	14:10	Fine	Middle	2.5	28.70	28.70	28.70	8.07	8.07	8.07	26.79	26.79	26.89	75.3	75.9	74.9	5.02	5.06	4.99	0.91	0.91	0.91	9	9.50
	14:12		Middle	2.5	28.70	28.70		8.07	8.07		26.99	26.99		74.9	73.3		4.99	4.89		0.91	0.90		10	
18/9/2013	15:15	Fine	Middle	3.0	27.80	27.80	27.80	8.21	8.21	8.21	29.73	29.73	29.74	83.7	83.5	82.7	5.57	5.52	5.49	7.73	7.73	7.72	15	15.50
	15:17		Middle	3.0	27.80	27.80		8.20	8.20		29.74	29.74		82.6	81.1		5.49	5.39		7.72	7.69		16	
21/9/2013	21:20	Cloudy	Middle	2.0	30.70	30.70	30.70	8.17	8.17	8.17	30.50	30.50	30.51	76.5	78.9	77.1	4.34	5.00	4.64	8.99	8.83	8.54	11	11.00
	21:21		Middle	2.0	30.70	30.70		8.16	8.16		30.51	30.51		77.4	75.6		4.90	4.31		8.30	8.02		11	
23/9/2013	-	Typhoon Signal No. 8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
25/9/2013	11:15	Fine	Middle	3.0	28.70	28.70	28.65	8.17	8.17	8.17	29.19	29.19	29.46	78.2	79.4	77.9	5.13	5.21	5.10	15.27	15.22	**15.26**	18	**18.00**
	11:17		Middle	3.0	28.60	28.60		8.16	8.16		29.72	29.72		77.2	76.9		5.01	5.05		15.27	15.28		18	
27/9/2013	19:40	Fine	Middle	3.0	27.97	27.97	27.98	7.73	7.73	7.73	31.82	31.82	31.83	61.4	61.1	61.3	4.03	4.01	4.02	8.59	8.52	8.56	6	6.00
	19:42		Middle	3.0	27.98	27.98		7.73	7.73		31.83	31.83		61.6	61.2		4.04	4.01		8.60	8.54		6	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	7:31	Fine	Middle	2.0	28.60	28.60	28.60	8.36	8.36	8.36	28.05	28.05	28.03	79.4	80.7	79.2	5.30	5.33	5.24	3.35	3.13	3.20	4	3.50
	7:32		Middle	2.0	28.60	28.60		8.35	8.35		28.00	28.00		78.7	77.8		5.20	5.14		3.10	3.21		3	
31/8/2013	8:05	Cloudy	Middle	3.0	27.00	27.00	27.00	8.24	8.24	8.25	26.14	26.14	26.14	79.6	80.0	79.6	5.48	5.51	5.48	0.31	0.31	0.30	<2	<2
	8:07		Middle	3.0	27.00	27.00		8.25	8.25		26.14	26.14		79.4	79.4		5.47	5.47		0.30	0.28		<2	
2/9/2013	9:30	Fine	Middle	3.0	26.60	26.60	26.65	8.23	8.23	8.22	29.41	29.41	29.41	77.2	77.7	77.0	5.24	5.27	5.22	0.81	0.83	0.82	<2	<2
	9:32		Middle	3.0	26.70	26.70		8.20	8.20		29.41	29.41		77.8	75.1		5.28	5.10		0.83	0.80		<2	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	15:00	Fine	Middle	3.0	26.70	26.70	26.70	8.08	8.08	8.08	30.21	30.21	30.22	83.8	83.8	83.3	5.67	5.67	5.64	4.00	4.00	3.98	3	3.00
	15:02		Middle	3.0	26.70	26.70		8.08	8.08		30.22	30.22		83.5	82.2		5.64	5.56		3.99	3.91		3	
9/9/2013	16:45	Fine	Middle	2.5	29.30	29.30	29.30	7.88	7.88	7.88	29.01	29.01	29.01	70.0	70.3	70.4	4.51	4.52	4.53	3.78	3.80	3.79	4	4.00
	16:47		Middle	2.5	29.30	29.30		7.88	7.88		29.01	29.01		70.0	71.3		4.51	4.58		3.80	3.78		4	
11/9/2013	1:30	Fine	Middle	2.5	27.40	27.40	27.45	8.17	8.17	8.17	30.45	30.45	30.45	83.6	84.1	82.9	5.58	5.58	5.52	4.04	3.82	3.77	3	3.50
	1:31		Middle	2.5	27.50	27.50		8.16	8.16		30.45	30.45		80.6	83.2		5.37	5.54		3.66	3.55		4	
13/9/2013	3:15	Fine	Middle	2.5	27.60	27.60	27.65	8.15	8.15	8.14	30.06	30.06	30.07	79.1	76.3	77.8	5.27	5.10	5.19	2.93	2.99	3.00	3	3.00
	3:16		Middle	2.5	27.70	27.70		8.13	8.13		30.08	30.08		78.4	77.5		5.21	5.16		3.02	3.05		3	
16/9/2013	8:30	Fine	Middle	2.5	27.80	27.80	27.80	8.14	8.14	8.14	29.84	29.84	29.85	73.1	72.5	72.3	4.86	4.83	4.81	2.82	2.80	2.80	2	2.00
	8:32		Middle	2.5	27.80	27.80		8.14	8.14		29.86	29.86		72.4	71.0		4.82	4.73		2.80	2.79		2	
18/9/2013	9:30	Fine	Middle	3.5	27.80	27.80	27.75	8.31	8.31	8.31	31.29	31.29	31.30	90.8	89.8	89.8	5.99	5.93	5.93	3.88	3.91	3.91	3	2.50
	9:32		Middle	3.5	27.70	27.70		8.31	8.31		31.30	31.30		87.7	91.0		5.80	6.01		3.92	3.94		2	
21/9/2013	10:55	Fine	Middle	3.5	29.30	29.30	29.30	8.24	8.24	8.24	31.46	31.46	31.46	78.7	77.8	78.2	5.07	5.01	5.04	8.24	8.24	8.21	6	5.00
	10:57		Middle	3.5	29.30	29.30		8.24	8.24		31.46	31.46		78.1	78.3		5.03	5.04		8.13	8.24		4	
23/9/2013	12:35	Fine	Middle	3.5	28.50	28.50	28.55	8.16	8.16	8.16	29.54	29.54	29.54	80.3	81.1	82.1	5.28	5.33	5.40	5.83	5.85	5.79	3	3.50
	12:37		Middle	3.5	28.60	28.60		8.16	8.16		29.53	29.53		83.3	83.5		5.48	5.49		5.82	5.66		4	
25/9/2013	2:40	Cloudy	Middle	2.5	27.90	27.90	27.90	8.15	8.15	8.15	29.84	29.84	29.89	82.6	83.4	82.8	5.48	5.55	5.50	2.64	2.66	2.67	<2	<2
	2:41		Middle	2.5	27.90	27.90		8.15	8.15		29.94	29.93		83.0	82.2		5.51	5.46		2.70	2.68		<2	
27/9/2013	2:40	Cloudy	Middle	2.5	27.00	27.00	27.00	8.24	8.24	8.24	31.27	31.27	31.27	82.7	82.9	82.0	5.53	5.54	5.48	3.37	3.67	3.51	<2	<2
	2:41		Middle	2.5	27.00	27.00		8.23	8.23		31.26	31.26		80.9	81.6		5.40	5.45		3.52	3.49		<2	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	4:50	Fine	Middle	3	28.60	28.60	28.60	8.25	8.25	8.24	27.78	27.79	27.80	72.1	74.1	73.2	4.79	4.92	4.86	3.71	3.94	3.65	6	6.00
	4:51		Middle	3	28.60	28.60		8.22	8.22		27.81	27.81		73.5	73.1		4.88	4.85		3.49	3.46		6	
31/8/2013	9:05	Cloudy	Middle	3	26.00	26.70	26.53	8.29	8.29	8.29	25.45	25.45	25.46	74.6	78.9	78.0	5.18	5.47	5.41	0.96	0.97	0.97	3	3.00
	9:07		Middle	3	26.70	26.70		8.28	8.28		25.46	25.46		78.9	79.6		5.48	5.52		0.97	0.96		3	
2/9/2013	11:10	Fine	Middle	3	27.10	27.10	27.20	8.04	8.04	8.04	31.40	31.40	31.40	56.1	55.7	56.3	3.73	3.71	3.74	0.02	0.01	0.01	<2	<2
	11:12		Middle	3	27.30	27.30		8.03	8.03		31.39	31.39		56.2	57.0		3.74	3.79		0.01	0.01		<2	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:00	Fine	Middle	3	26.30	26.30	26.35	8.07	8.07	8.09	28.70	28.70	28.70	71.5	71.4	70.9	4.91	4.90	4.89	2.68	2.91	2.89	3	3.50
	11:02		Middle	3	26.40	26.40		8.11	8.11		28.69	28.69		71.0	69.7		4.87	4.86		2.96	2.99		4	
9/9/2013	15:00	Fine	Middle	3	27.90	27.90	27.90	8.14	8.14	8.15	30.47	30.47	30.47	80.4	80.7	79.8	5.29	5.33	5.26	6.01	5.93	5.94	6	6.00
	15:02		Middle	3	27.90	27.90		8.16	8.16		30.46	30.46		79.9	78.0		5.27	5.15		5.89	5.92		6	
11/9/2013	3:05	Fine	Middle	3	27.20	27.20	27.20	8.16	8.16	8.16	30.60	30.60	30.60	77.8	78.8	77.9	5.21	5.27	5.22	4.80	4.74	4.65	4	5.00
	3:06		Middle	3	27.20	27.20		8.16	8.16		30.60	30.60		77.4	77.6		5.18	5.20		4.58	4.49		6	
13/9/2013	4:10	Fine	Middle	3	27.50	27.50	27.55	8.18	8.18	8.18	29.53	29.53	29.57	83.6	85.1	83.2	5.59	5.69	5.56	2.81	2.84	2.80	3	3.00
	4:11		Middle	3	27.60	27.60		8.18	8.18		29.61	29.60		82.6	81.3		5.52	5.43		2.77	2.79		3	
16/9/2013	10:10	Fine	Middle	3	28.00	28.00	28.00	8.14	8.14	8.14	29.71	29.71	29.72	76.2	76.4	76.5	5.04	5.07	5.07	2.33	2.19	2.21	3	3.00
	10:12		Middle	3	28.00	28.00		8.14	8.14		29.72	29.72		76.6	76.6		5.08	5.09		2.17	2.14		3	
18/9/2013	11:00	Fine	Middle	3	28.10	28.10	28.05	8.29	0.29	6.29	31.22	31.22	31.22	83.8	85.0	84.6	5.51	5.59	5.57	9.99	9.98	9.80	7	6.50
	11:02		Middle	3	28.00	28.00		8.29	8.29		31.22	31.22		84.9	84.8		5.58	5.58		9.60	9.61		6	
21/9/2013	11:45	Fine	Middle	4	29.40	29.40	29.45	8.23	8.23	8.23	30.75	30.75	30.75	79.8	80.3	80.2	5.14	5.17	5.17	9.25	9.24	9.23	8	7.00
	11:47		Middle	4	29.50	29.50		8.23	8.23		30.75	30.75		80.3	80.4		5.17	5.18		9.23	9.20		6	
23/9/2013	13:25	Fine	Middle	4	28.30	28.30	28.30	8.19	8.19	8.19	30.37	30.37	30.38	73.7	76.2	75.4	4.86	5.00	4.95	9.56	9.54	9.54	6	5.50
	13:27		Middle	4	28.30	28.30		8.19	8.19		30.38	30.38		76.1	75.6		4.99	4.96		9.54	9.50		5	
25/9/2013	3:40	Cloudy	Middle	3	27.40	27.40	27.40	8.20	8.20	8.20	30.49	30.49	30.49	81.4	81.7	82.4	5.42	5.45	5.49	3.77	3.69	3.68	2	2.00
	3:41		Middle	3	27.40	27.40		8.20	8.20		30.49	30.49		83.3	83.1		5.55	5.55		3.65	3.60		2	
27/9/2013	3:33	Cloudy	Middle	3	26.90	26.90	26.90	8.23	8.23	8.24	31.08	31.08	31.09	83.5	85.2	84.0	5.60	5.72	5.64	3.96	3.91	3.95	3	3.50
	3:34		Middle	3	26.90	26.90		8.24	8.24		31.09	31.09		83.7	83.5		5.62	5.63		3.98	3.94		4	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	4:25	Fine	Middle	2	28.70	28.70	28.70	7.87	7.94	7.88	24.26	24.26	24.26	51.0	50.3	50.7	3.44	3.40	3.42	4.09	4.06	3.98	3	3.50
	4:26		Middle	2	28.70	28.70		7.85	7.85		24.26	24.26		50.5	50.8		3.41	3.43		3.87	3.88		4	
31/8/2013	11:02	Cloudy	Middle	2	27.30	27.30	27.30	8.12	8.12	8.12	23.45	23.45	23.45	61.6	61.9	61.7	4.28	4.30	4.28	1.26	1.25	1.25	<2	<2
	11:04		Middle	2	27.30	27.30		8.11	8.11		23.45	23.45		61.8	61.3		4.29	4.26		1.25	1.25		<2	
2/9/2013	12:40	Fine	Middle	2	27.20	27.20	27.20	7.85	7.85	7.85	29.13	29.13	29.13	49.2	49.6	49.0	3.32	3.35	3.31	0.74	0.74	0.74	6	6.00
	12:42		Middle	2	27.20	27.20		7.85	7.85		29.13	29.13		48.7	48.4		3.29	3.26		0.75	0.71		6	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	13:30	Fine	Middle	2	26.00	26.00	26.00	7.89	7.89	7.89	26.88	26.88	26.88	59.3	60.0	59.6	4.13	4.18	4.15	2.58	2.59	2.58	4	4.50
	13:32		Middle	2	26.00	26.00		7.89	7.89		26.88	26.88		59.8	59.1		4.17	4.12		2.56	2.60		5	
9/9/2013	14:47	Fine	Middle	2	28.10	28.10	28.15	7.95	7.95	7.95	28.42	28.42	28.42	57.2	56.9	57.0	3.81	3.80	3.80	5.41	5.42	5.45	6	6.00
	14:49		Middle	2	28.20	28.20		7.95	7.95		28.41	28.41		57.2	56.7		3.81	3.78		5.48	5.50		6	
11/9/2013	2:30	Fine	Middle	2	27.20	27.20	27.20	7.88	7.88	7.88	27.46	27.46	27.46	60.4	61.0	60.2	4.11	4.15	4.10	3.58	3.47	3.52	2	2.00
	2:31		Middle	2	27.20	27.20		7.87	7.87		27.46	27.46		59.4	59.8		4.04	4.08		3.49	3.53		2	
13/9/2013	3:40	Fine	Middle	2	27.50	27.50	27.50	7.88	7.88	7.87	27.65	27.65	27.66	55.4	53.4	55.7	3.82	3.68	3.81	2.94	2.90	2.95	3	3.00
	3:41		Middle	2	27.50	27.50		7.86	7.86		27.66	27.66		57.0	57.1		3.85	3.87		2.99	2.97		3	
16/9/2013	12:37	Fine	Middle	2	28.40	28.40	28.40	7.87	7.87	7.87	27.40	27.40	27.41	51.3	51.7	51.7	3.43	3.45	3.45	1.91	1.92	1.94	4	3.50
	12:39		Middle	2	28.40	28.40		7.87	7.87		27.41	27.41		52.2	51.4		3.49	3.43		1.93	2.00		3	
18/9/2013	12:15	Fine	Middle	2	28.00	28.00	28.00	8.14	8.14	8.14	29.26	29.26	29.26	73.1	72.5	72.2	4.86	4.81	4.80	5.02	4.98	4.92	<2	<2
	12:17		Middle	2	28.00	28.00		8.14	8.14		29.25	29.25		71.8	71.2		4.79	4.74		4.84	4.84		<2	
21/9/2013	14:15	Fine	Middle	2	29.50	29.50	29.50	7.97	7.97	7.97	28.15	28.15	28.15	53.2	53.5	53.4	3.47	3.49	3.48	9.42	9.38	9.38	2	2.00
	14:17		Middle	2	29.50	29.50		7.97	7.97		28.15	28.15		53.7	53.1		3.51	3.46		9.36	9.35		2	
23/9/2013	15:27	Fine	Middle	2	28.60	28.60	28.65	8.08	8.08	8.08	28.55	28.55	28.55	59.0	60.1	59.8	3.90	3.97	3.97	5.40	5.42	5.40	3	3.00
	15:29		Middle	2	28.70	28.70		8.08	8.08		28.55	28.55		60.0	60.2		4.00	3.99		5.40	5.39		3	
25/9/2013	3:09	Cloudy	Middle	2	27.50	27.50	27.50	8.10	8.10	8.09	27.34	27.34	27.34	66.2	67.8	65.5	4.49	4.58	4.44	2.90	3.00	2.95	<2	<2
	3:10		Middle	2	27.50	27.50		8.07	8.07		27.34	27.35		65.9	62.1		4.47	4.21		2.96	2.92		<2	
27/9/2013	3:03	Cloudy	Middle	2	26.00	26.00	26.05	8.14	8.14	8.12	25.53	25.52	25.52	61.0	62.3	61.8	4.28	4.37	4.34	4.33	4.30	4.29	<2	<2
	3:04		Middle	2	26.10	26.10		8.10	8.10		25.52	25.52		62.4	61.5		4.38	4.31		4.27	4.25		<2	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at C1 - HKCEC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	4:17	Fine	Middle	2.0	27.80	27.80	27.80	8.28	8.28	8.27	25.65	25.65	25.63	73.5	73.3	73.1	5.00	4.99	4.98	1.53	1.52	1.50	3	3.00
	4:19		Middle	2.0	27.80	27.80		8.26	8.26		25.61	25.61		73.0	72.7		4.97	4.95		1.50	1.43		3	
31/8/2013	10:29	Cloudy	Middle	2.5	27.10	27.10	27.10	7.90	7.90	7.88	24.67	24.67	24.67	77.7	77.3	77.1	5.39	5.35	5.41	0.95	0.93	0.93	3	2.50
	10:31		Middle	2.5	27.10	27.10		7.85	7.85		24.67	24.67		77.0	76.5		5.53	5.38		0.92	0.91		2	
2/9/2013	10:35	Fine	Middle	2.0	26.70	26.70	26.70	8.02	8.02	8.02	27.84	27.84	27.84	55.5	57.1	56.7	3.80	3.91	3.88	0.63	0.62	0.61	<2	<2
	10:37		Middle	2.0	26.70	26.70		8.02	8.02		27.84	27.84		56.9	57.1		3.89	3.91		0.60	0.59		<2	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:42	Fine	Middle	3.0	25.30	25.30	25.35	8.03	8.03	8.00	29.50	29.50	29.52	59.4	60.5	60.5	4.12	4.19	4.20	2.18	2.17	2.11	3	3.00
	11:44		Middle	3.0	25.40	25.40		7.97	7.97		29.53	29.53		60.9	61.0		4.22	4.25		2.04	2.03		3	
9/9/2013	14:24	Fine	Middle	2.5	27.00	27.00	27.00	8.05	8.05	8.03	28.99	28.99	28.99	63.8	62.7	62.8	4.30	4.25	4.25	4.86	4.93	4.90	6	6.00
	14:26		Middle	2.5	27.00	27.00		8.01	8.01		28.99	28.99		62.1	62.7		4.21	4.25		4.92	4.88		6	
11/9/2013	3:43	Fine	Middle	3.0	27.00	27.00	26.95	7.91	7.91	7.91	29.05	29.05	29.04	55.4	55.3	55.1	3.76	3.75	3.74	1.81	1.78	1.77	5	5.00
	3:45		Middle	3.0	26.90	26.90		7.91	7.91		29.02	29.02		55.1	54.6		3.74	3.71		1.76	1.74		5	
13/9/2013	6:32	Fine	Middle	2.0	27.30	27.30	27.25	8.01	8.01	8.02	28.11	28.11	28.11	73.8	73.6	73.5	5.01	5.00	4.99	2.86	2.89	2.89	3	3.50
	6:34		Middle	2.0	27.20	27.20		8.02	8.02		28.11	28.11		73.3	73.1		4.98	4.97		2.88	2.94		4	
16/9/2013	10:39	Fine	Middle	2.5	28.30	28.30	28.25	7.98	7.98	7.98	28.34	28.34	28.35	67.9	67.0	67.6	4.52	4.47	4.51	3.25	3.21	3.22	6	6.50
	10:41		Middle	2.5	28.20	28.20		7.98	7.98		28.35	28.35		68.5	67.0		4.57	4.47		3.22	3.18		7	
18/9/2013	11:50	Fine	Middle	3.0	28.10	28.10	28.10	8.16	8.16	8.16	29.87	29.87	29.87	71.7	72.0	71.9	4.74	4.76	4.76	5.18	5.17	5.20	7	6.00
	11:52		Middle	3.0	28.10	28.10		8.16	8.16		29.87	29.87		71.9	72.1		4.75	4.77		5.22	5.24		5	
21/9/2013	14:19	Fine	Middle	2.5	28.70	28.70	28.70	8.12	8.12	8.12	29.41	29.41	29.42	62.1	61.3	61.3	4.08	4.03	4.03	5.90	5.80	5.83	6	7.00
	14:21		Middle	2.5	28.70	28.70		8.11	8.11		29.42	29.42		61.0	60.6		4.01	3.98		5.80	5.80		8	
23/9/2013	16:12	Fine	Middle	3.0	28.60	28.60	28.60	8.16	8.16	8.16	28.04	28.04	28.04	64.2	63.3	63.3	4.26	4.20	4.20	6.42	6.44	6.45	5	5.50
	16:14		Middle	3.0	28.60	28.60		8.15	8.15		28.04	28.04		62.9	62.6		4.17	4.15		6.56	6.36		6	
25/9/2013	4:10	Cloudy	Middle	2.0	27.50	27.50	27.50	8.08	8.08	8.08	28.51	28.51	28.51	68.8	68.5	68.4	4.63	4.61	4.61	3.63	3.52	3.53	3	3.50
	4:12		Middle	2.0	27.50	27.50		8.08	8.08		28.51	28.51		68.3	68.1		4.60	4.59		3.49	3.46		4	
27/9/2013	5:50	Cloudy	Middle	2.5	27.30	27.30	27.15	8.09	8.09	8.09	29.96	29.96	29.96	65.6	65.3	65.5	4.41	4.39	4.39	4.54	4.55	4.51	5	4.50
	5:52		Middle	2.5	27.00	27.00		8.08	8.08		29.96	29.96		65.1	65.9		4.38	4.37		4.56	4.40		4	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P3 - APA
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	3:47	Fine	Middle	2.0	27.70	27.70	27.70	8.37	8.37	8.37	24.52	24.52	24.75	71.0	70.8	70.8	4.86	4.85	4.85	2.73	2.70	2.69	3	3.50
	3:49		Middle	2.0	27.70	27.70		8.37	8.37		24.98	24.98		70.7	70.5		4.85	4.83		2.68	2.66		4	
31/8/2013	10:04	Cloudy	Middle	2.5	26.80	26.80	26.75	8.14	8.14	8.14	24.73	24.73	24.74	77.3	77.2	77.4	5.39	5.38	5.40	1.31	1.33	1.33	3	3.00
	10:06		Middle	2.5	26.70	26.70		8.14	8.14		24.75	24.75		77.5	77.7		5.40	5.41		1.34	1.35		3	
2/9/2013	10:55	Fine	Middle	2.5	26.50	26.50	26.55	8.05	8.05	8.05	27.77	27.77	27.77	78.9	78.7	78.8	5.42	5.41	5.42	6.70	6.72	6.71	13	12.50
	10:57		Middle	2.5	26.60	26.60		8.05	8.05		27.77	27.77		78.6	79.1		5.40	5.43		6.73	6.67		12	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:14	Fine	Middle	3.0	25.20	25.20	25.25	7.80	7.80	7.80	29.18	29.18	29.27	67.5	67.0	67.5	4.70	4.71	4.69	2.95	2.93	2.93	3	3.00
	11:16		Middle	3.0	25.30	25.30		7.80	7.80		29.35	29.35		67.5	67.8		4.64	4.70		2.92	2.90		3	
9/9/2013	14:45	Fine	Middle	2.5	27.10	27.10	27.15	8.07	8.07	8.03	28.61	28.61	28.62	70.1	70.0	70.0	4.75	4.74	4.74	3.63	3.64	3.64	3	3.00
	14:47		Middle	2.5	27.20	27.20		7.98	7.98		28.62	28.62		69.8	69.9		4.72	4.73		3.65	3.64		3	
11/9/2013	3:11	Fine	Middle	3.0	27.30	27.30	27.30	7.95	7.95	7.95	28.67	28.67	28.67	66.2	65.8	65.8	4.47	4.45	4.45	3.21	3.21	3.20	6	5.50
	3:13		Middle	3.0	27.30	27.30		7.95	7.95		28.66	28.66		65.6	65.4		4.44	4.43		3.19	3.17		5	
13/9/2013	6:56	Fine	Middle	2.0	27.10	27.10	27.05	8.05	8.05	8.05	28.00	28.00	28.00	71.6	71.5	71.3	4.87	4.87	4.86	2.40	2.36	2.34	4	4.50
	6:58		Middle	2.0	27.00	27.00		8.04	8.04		28.00	28.00		71.2	70.9		4.85	4.83		2.34	2.26		5	
16/9/2013	11:01	Fine	Middle	2.5	27.80	27.80	27.75	8.02	8.02	8.02	28.22	28.22	28.23	71.3	69.5	70.6	4.79	4.67	4.74	2.47	2.49	2.44	3	2.50
	11:02		Middle	2.5	27.70	27.70		8.01	8.01		28.24	28.24		71.1	70.4		4.78	4.73		2.41	2.38		2	
18/9/2013	11:15	Fine	Middle	3.0	28.20	28.20	28.20	8.20	8.20	8.20	29.81	29.81	29.81	78.5	78.7	79.2	5.20	5.21	5.24	4.62	4.59	4.58	6	6.00
	11:17		Middle	3.0	28.20	28.20		8.20	8.20		29.81	29.81		79.9	79.7		5.26	5.28		4.58	4.54		6	
21/9/2013	13:51	Fine	Middle	3.0	28.80	28.80	28.85	8.16	8.16	8.15	29.43	29.43	29.45	67.8	67.6	66.9	4.44	4.43	4.38	6.26	6.30	6.24	7	6.00
	13:53		Middle	3.0	28.90	28.90		8.14	8.14		29.47	29.47		66.5	65.6		4.36	4.27		6.26	6.15		5	
23/9/2013	15:46	Fine	Middle	3.0	28.20	28.20	28.25	8.17	8.17	8.17	28.11	28.11	28.11	76.4	76.5	76.5	5.09	5.10	5.10	5.92	5.93	5.94	5	4.50
	15:48		Middle	3.0	28.30	28.30		8.17	8.17		28.11	28.11		76.3	76.6		5.09	5.10		5.95	5.96		4	
25/9/2013	3:37	Cloudy	Middle	2.5	27.50	27.50	27.45	8.08	8.08	8.08	28.54	28.54	28.54	69.2	69.0	68.9	4.65	4.64	4.64	4.71	4.70	4.72	4	4.00
	3:39		Middle	2.5	27.40	27.40		8.07	8.07		28.54	28.54		68.9	68.4		4.64	4.61		4.72	4.73		4	
27/9/2013	5:23	Cloudy	Middle	3.0	26.90	26.90	26.85	8.10	8.10	8.10	29.91	29.91	29.92	69.6	69.4	69.3	4.71	4.70	4.70	4.73	4.73	4.71	3	3.00
	5:25		Middle	3.0	26.80	26.80		8.10	8.10		29.92	29.92		69.3	69.0		4.70	4.68		4.70	4.67		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P1 - HKCEC Phase I
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	3:41	Fine	Middle	2.0	28.10	28.10	28.05	8.63	8.63	8.64	25.53	25.53	25.53	75.1	75.0	74.9	5.08	5.07	5.07	2.34	2.30	2.29	5	5.00
	3:43		Middle	2.0	28.00	28.00		8.64	8.64		25.53	25.53		74.8	74.7		5.06	5.06		2.28	2.23		5	
31/8/2013	9:50	Cloudy	Middle	2.5	26.30	26.30	26.30	8.14	8.14	8.15	24.65	24.65	24.66	81.8	81.6	81.7	5.75	5.75	5.75	2.82	2.81	2.80	3	3.00
	9:52		Middle	2.5	26.30	26.30		8.15	8.15		24.66	24.66		81.9	81.4		5.76	5.72		2.78	2.79		3	
2/9/2013	11:05	Fine	Middle	2.5	26.50	26.50	26.50	8.03	8.03	8.03	28.04	28.04	28.04	77.7	77.4	77.8	5.33	5.31	5.33	1.01	0.96	0.96	4	3.50
	11:07		Middle	2.5	26.50	26.50		8.03	8.03		28.04	28.04		77.9	78.0		5.34	5.35		0.94	0.93		3	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:00	Fine	Middle	3.0	25.30	25.30	25.30	7.98	7.98	7.97	25.51	25.51	25.66	64.6	65.0	65.1	4.55	4.58	4.60	4.09	4.08	4.07	4	3.50
	11:02		Middle	3.0	25.30	25.30		7.95	7.95		25.80	25.80		66.0	64.9		4.67	4.59		4.07	4.04		3	
9/9/2013	14:57	Fine	Middle	2.5	27.40	27.40	27.45	8.01	8.01	8.00	28.64	28.64	28.64	64.8	64.6	65.2	4.36	4.35	4.39	3.52	3.43	3.46	3	3.00
	14:59		Middle	2.5	27.50	27.50		7.98	7.98		28.63	28.63		65.5	65.9		4.41	4.44		3.44	3.46		3	
11/9/2013	2:52	Fine	Middle	3.0	27.20	27.20	27.20	7.99	7.99	7.99	28.65	28.65	28.66	72.8	72.7	72.4	4.93	4.93	4.91	5.59	5.51	5.54	3	3.00
	2:54		Middle	3.0	27.20	27.20		7.98	7.98		28.66	28.66		72.3	71.8		4.90	4.88		5.54	5.50		3	
13/9/2013	7:07	Fine	Middle	2.0	27.20	27.20	27.15	8.05	8.05	8.05	27.99	27.99	28.00	76.9	76.7	76.6	5.23	5.22	5.21	4.71	4.69	4.74	4	3.50
	7:09		Middle	2.0	27.10	27.10		8.04	8.04		28.00	28.00		76.4	76.2		5.20	5.19		4.71	4.85		3	
16/9/2013	11:14	Fine	Middle	2.5	28.00	28.00	27.95	8.03	8.03	8.02	28.21	28.21	28.22	73.5	72.2	72.9	4.93	4.84	4.89	3.62	3.63	3.63	6	5.00
	11:16		Middle	2.5	27.90	27.90		8.01	8.01		28.22	28.22		73.2	72.6		4.92	4.88		3.64	3.63		4	
18/9/2013	10:57	Fine	Middle	3.0	28.80	28.80	28.80	8.26	8.26	8.24	30.00	30.00	30.00	82.1	81.8	82.2	5.41	5.34	5.38	4.93	4.92	4.90	5	5.00
	10:59		Middle	3.0	28.80	28.80		8.21	8.21		30.00	30.00		82.7	82.3		5.39	5.37		4.89	4.86		5	
21/9/2013	13:40	Fine	Middle	3.0	28.40	28.40	28.40	8.17	8.17	8.18	29.49	29.49	29.48	62.4	62.3	61.2	4.12	4.11	4.04	6.94	6.89	6.76	6	6.00
	13:42		Middle	3.0	28.40	28.40		8.18	8.18		29.46	29.46		60.7	59.4		4.01	3.92		6.62	6.60		6	
23/9/2013	15:30	Fine	Middle	2.5	28.40	28.40	28.45	8.16	8.16	8.16	28.20	28.20	28.20	75.2	74.9	74.4	4.99	4.98	4.94	5.98	6.01	5.96	5	5.00
	15:32		Middle	2.5	28.50	28.50		8.16	8.16		28.20	28.20		74.4	72.9		4.94	4.84		5.94	5.92		5	
25/9/2013	3:27	Cloudy	Middle	2.5	27.50	27.50	27.45	8.09	8.09	8.09	28.47	28.47	28.52	71.3	71.0	70.8	4.81	4.79	4.78	5.62	5.66	5.63	4	4.00
	3:29		Middle	2.5	27.40	27.40		8.09	8.09		28.57	28.57		70.6	70.4		4.77	4.76		5.66	5.57		4	
27/9/2013	5:11	Cloudy	Middle	3.0	27.20	27.20	27.10	8.12	8.12	8.12	29.83	29.83	29.83	68.6	68.3	68.2	4.63	4.61	4.60	4.24	4.23	4.19	3	3.00
	5:13		Middle	3.0	27.00	27.00		8.12	8.12		29.83	29.83		68.0	67.7		4.59	4.57		4.15	4.14		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P4 - SOC
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	3:55	Fine	Middle	2.0	27.70	27.70	27.70	8.32	8.32	8.32	25.42	25.42	25.43	73.0	72.7	72.7	4.99	4.97	4.97	1.54	1.56	1.56	3	3.00
	3:57		Middle	2.0	27.70	27.70		8.31	8.31		25.43	25.43		72.7	72.4		4.97	4.95		1.55	1.57		3	
31/8/2013	10:14	Cloudy	Middle	2.5	26.90	26.90	26.85	8.17	8.17	8.17	24.60	24.60	24.60	79.3	79.7	80.0	5.52	5.54	5.57	0.90	0.89	0.87	<2	<2
	10:16		Middle	2.5	26.80	26.80		8.17	8.17		24.60	24.60		80.4	80.7		5.60	5.62		0.85	0.83		<2	
2/9/2013	10:50	Fine	Middle	2.0	26.60	26.60	26.60	8.04	8.04	8.04	27.84	27.84	27.84	54.0	54.4	54.3	3.71	3.72	3.73	1.17	1.18	1.20	16	16.00
	10:52		Middle	2.0	26.60	26.60		8.04	8.04		27.84	27.84		54.3	54.6		3.73	3.75		1.27	1.19		16	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:25	Fine	Middle	3.0	25.10	25.10	25.15	8.01	8.01	8.00	29.40	29.40	29.41	57.7	57.9	58.0	4.03	4.05	4.05	2.10	2.04	2.07	3	3.00
	11:27		Middle	3.0	25.20	25.20		7.98	7.98		29.41	29.41		58.0	58.4		4.05	4.07		2.07	2.06		3	
9/9/2013	14:38	Fine	Middle	2.5	26.80	26.80	26.85	8.02	8.02	8.00	28.73	28.73	28.73	65.3	65.5	65.4	4.44	4.46	4.44	3.64	3.63	3.58	5	5.50
	14:40		Middle	2.5	26.90	26.90		7.97	7.97		28.73	28.73		64.7	65.9		4.39	4.48		3.53	3.52		6	
11/9/2013	3:19	Fine	Middle	3.0	27.10	27.10	27.10	7.98	7.98	7.97	28.73	28.73	28.74	61.8	61.6	61.4	4.19	4.18	4.17	2.52	2.56	2.60	7	6.50
	3:21		Middle	3.0	27.10	27.10		7.95	7.95		28.74	28.74		61.2	61.0		4.16	4.15		2.67	2.64		6	
13/9/2013	6:46	Fine	Middle	2.0	27.10	27.10	27.05	8.04	8.04	8.04	27.98	27.98	27.99	73.4	73.1	72.9	4.99	4.97	4.96	2.26	2.24	2.23	4	3.50
	6:48		Middle	2.0	27.00	27.00		8.04	8.04		27.99	27.99		72.7	72.5		4.95	4.94		2.20	2.22		3	
16/9/2013	10:54	Fine	Middle	2.5	28.40	28.40	28.40	8.02	8.02	8.02	28.29	28.29	28.30	74.8	73.5	74.4	4.97	4.88	4.95	2.88	2.84	2.88	4	4.00
	10:55		Middle	2.5	28.40	28.40		8.01	8.01		28.30	28.30		75.0	74.4		4.99	4.94		2.90	2.91		4	
18/9/2013	11:29	Fine	Middle	3.0	28.20	28.20	28.20	8.19	8.19	8.18	29.84	29.84	29.85	79.7	79.2	79.7	5.26	5.23	5.27	5.21	5.22	5.27	5	5.00
	11:31		Middle	3.0	28.20	28.20		8.17	8.17		29.85	29.85		79.8	80.2		5.27	5.30		5.32	5.33		5	
21/9/2013	14:01	Fine	Middle	2.5	28.50	28.50	28.50	8.14	8.14	8.14	29.39	29.40	29.40	64.4	63.2	63.0	4.24	4.16	4.15	5.15	5.14	5.13	6	6.00
	14:03		Middle	2.5	28.50	28.50		8.13	8.13		29.41	29.41		63.2	61.2		4.16	4.03		5.11	5.10		6	
23/9/2013	15:58	Fine	Middle	3.0	28.30	28.30	28.35	8.18	8.18	8.18	27.92	27.92	27.92	74.7	73.8	73.7	4.97	4.92	4.91	5.43	5.42	5.42	5	5.50
	16:00		Middle	3.0	28.40	28.40		8.17	8.17		27.91	27.91		73.4	72.7		4.89	4.84		5.42	5.42		6	
25/9/2013	3:50	Cloudy	Middle	2.5	27.50	27.50	27.40	8.08	8.08	8.08	28.49	28.49	28.51	70.5	70.3	70.2	4.76	4.75	4.75	3.94	4.01	4.00	3	3.50
	3:52		Middle	2.5	27.30	27.30		8.07	8.07		28.53	28.53		70.1	69.9		4.74	4.73		4.03	4.03		4	
27/9/2013	5:30	Cloudy	Middle	3.0	27.20	27.20	27.05	8.10	8.10	8.10	29.93	29.93	29.93	68.0	67.9	67.8	4.58	4.57	4.56	3.64	3.63	3.65	3	3.50
	5:32		Middle	3.0	26.90	26.90		8.10	8.10		29.93	29.93		67.6	67.5		4.55	4.55		3.63	3.70		4	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at P5 - WCT / RT / IT
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	4:08	Fine	Middle	2.0	27.80	27.80	27.80	8.32	8.32	8.32	25.50	25.50	25.50	73.1	72.6	72.5	4.99	4.96	4.96	1.41	1.37	1.39	4	4.50
	4:10		Middle	2.0	27.80	27.80		8.31	8.31		25.50	25.50		72.4	72.0		4.95	4.93		1.36	1.42		5	
31/8/2013	10:19	Cloudy	Middle	2.5	26.90	26.90	26.90	8.18	8.18	8.18	24.55	24.55	24.55	74.5	78.2	77.1	5.53	5.44	5.45	0.87	0.89	0.89	3	3.50
	10:21		Middle	2.5	26.90	26.90		8.17	8.17		24.55	24.55		77.0	78.5		5.35	5.46		0.91	0.88		4	
2/9/2013	10:43	Fine	Middle	2.0	26.60	26.60	26.65	8.04	8.04	8.04	27.78	27.78	27.78	57.9	58.9	59.3	3.97	4.04	4.06	0.74	0.73	0.72	4	4.50
	10:45		Middle	2.0	26.70	26.70		8.04	8.04		27.78	27.78		59.4	60.9		4.07	4.17		0.71	0.70		5	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	11:34	Fine	Middle	3.0	25.10	25.10	25.15	8.00	8.00	7.99	29.36	29.36	29.37	61.5	63.0	62.0	4.29	4.39	4.32	1.93	1.92	1.91	3	3.50
	11:36		Middle	3.0	25.20	25.20		7.98	7.98		29.37	29.37		61.3	62.1		4.27	4.33		1.90	1.88		4	
9/9/2013	14:33	Fine	Middle	2.5	27.00	27.00	27.05	8.00	8.06	8.01	28.78	28.78	28.78	65.7	67.2	66.7	4.45	4.55	4.51	4.68	4.69	4.66	6	5.50
	14:35		Middle	2.5	27.10	27.10		7.99	7.99		28.78	28.78		66.4	67.4		4.49	4.56		4.63	4.62		5	
11/9/2013	3:34	Fine	Middle	3.0	26.90	26.90	26.90	7.99	7.99	7.98	28.93	28.93	28.93	61.8	61.4	61.3	4.19	4.17	4.16	2.38	2.42	2.37	4	4.50
	3:36		Middle	3.0	26.90	26.90		7.96	7.96		28.93	28.93		61.1	60.9		4.15	4.13		2.36	2.32		5	
13/9/2013	6:38	Fine	Middle	2.0	27.20	27.20	27.15	8.01	8.01	8.01	28.16	28.16	28.16	72.9	72.8	72.7	4.95	4.95	4.94	2.36	2.32	2.30	3	3.50
	6:40		Middle	2.0	27.10	27.10		8.00	8.00		28.16	28.16		72.5	72.4		4.93	4.93		2.27	2.24		4	
16/9/2013	10:46	Fine	Middle	2.5	27.90	27.90	27.90	8.00	8.00	8.00	28.24	28.24	28.25	70.6	69.6	69.9	4.73	4.67	4.69	2.79	2.80	2.83	4	4.00
	10:48		Middle	2.5	27.90	27.90		8.00	8.00		28.25	28.25		70.3	69.2		4.71	4.64		2.85	2.87		4	
18/9/2013	11:42	Fine	Middle	3.0	28.10	28.10	28.10	8.18	8.18	8.18	29.81	29.81	29.81	78.7	79.2	79.2	5.21	5.24	5.24	5.53	5.54	5.50	5	6.00
	11:44		Middle	3.0	28.10	28.10		8.18	8.18		29.81	29.81		79.6	79.3		5.27	5.24		5.52	5.41		7	
21/9/2013	14:09	Fine	Middle	2.5	28.40	28.40	28.45	8.13	8.13	8.13	29.43	29.43	29.44	63.8	64.1	63.6	4.21	4.23	4.21	5.22	5.08	5.13	6	5.50
	14:11		Middle	2.5	28.50	28.50		8.12	8.12		29.44	29.44		63.0	63.6		4.18	4.21		5.08	5.13		5	
23/9/2013	16:05	Fine	Middle	3.0	28.20	28.20	28.25	8.16	8.16	8.16	27.92	27.92	27.92	68.0	67.8	68.3	4.53	4.52	4.55	5.88	5.86	5.85	7	6.50
	16:07		Middle	3.0	28.30	28.30		8.16	8.16		27.92	27.92		68.3	68.9		4.55	4.60		5.84	5.81		6	
25/9/2013	3:58	Cloudy	Middle	2.5	27.50	27.50	27.45	8.07	8.07	8.07	28.52	28.52	28.53	69.5	69.3	69.2	4.68	4.67	4.66	3.87	3.93	3.93	4	3.50
	4:00		Middle	2.5	27.40	27.40		8.07	8.07		28.53	28.53		69.1	68.7		4.66	4.64		3.94	3.99		3	
27/9/2013	5:40	Cloudy	Middle	3.0	27.10	27.10	26.95	8.10	8.10	8.10	29.89	29.89	29.89	67.6	67.2	67.2	4.55	4.53	4.53	3.44	3.47	3.47	3	3.00
	5:42		Middle	3.0	26.80	26.80		8.10	8.10		29.89	29.89		67.0	66.8		4.52	4.51		3.52	3.45		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre
Mid-Ebb Tide

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	3:57	Fine	Middle	3.5	28.70	28.70	28.70	8.22	8.23	8.24	28.06	28.06	28.06	74.4	76.3	76.2	4.92	5.09	5.05	2.51	2.43	2.37	4	4.00
	3:58		Middle	3.5	28.70	28.70		8.24	8.25		28.06	28.06		77.2	76.8		5.11	5.08		2.32	2.22		4	
31/8/2013	10:30	Cloudy	Middle	3.5	27.00	27.00	27.00	8.26	8.26	8.26	25.39	25.40	25.39	84.6	83.6	83.4	5.84	5.78	5.77	0.95	0.95	0.96	2	2.00
	10:32		Middle	3.5	27.00	27.00		8.26	8.26		25.39	25.39		82.8	82.6		5.73	5.71		0.97	0.98		2	
2/9/2013	12:10	Fine	Middle	3.0	26.90	26.90	27.00	8.04	8.04	8.04	30.15	30.15	30.42	64.5	65.2	64.5	4.33	4.38	4.33	0.99	0.97	0.95	7	7.50
	12:12		Middle	3.0	27.10	27.10		8.04	8.04		30.69	30.69		64.4	63.8		4.32	4.28		0.96	0.87		8	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	13:00	Fine	Middle	3.5	25.90	25.90	26.00	8.05	8.05	8.05	29.78	29.78	29.78	71.8	70.5	70.6	4.92	4.83	4.84	3.56	3.56	3.53	3	3.00
	13:02		Middle	3.5	26.10	26.10		8.05	8.05		29.78	29.78		70.2	69.9		4.81	4.79		3.45	3.54		3	
9/9/2013	14:10	Fine	Middle	3.5	28.80	28.80	28.90	8.09	8.09	8.09	30.10	30.10	30.09	76.5	75.6	75.4	4.99	4.93	4.91	4.89	4.86	4.81	4	4.50
	14:12		Middle	3.5	29.00	29.00		8.09	8.09		30.07	30.07		75.1	74.4		4.89	4.84		4.75	4.74		5	
11/9/2013	2:00	Fine	Middle	3.5	27.40	27.40	27.45	8.10	8.10	8.10	29.79	29.91	29.89	79.6	78.2	80.5	5.32	5.22	5.38	3.27	3.13	3.22	7	6.50
	2:01		Middle	3.5	27.50	27.50		8.09	8.09		29.92	29.92		81.7	82.6		5.46	5.53		3.22	3.24		6	
13/9/2013	5:00	Fine	Middle	3.5	27.20	27.20	27.20	8.08	8.08	8.08	29.04	29.04	29.23	86.7	86.6	85.3	5.84	5.76	5.73	2.75	2.58	2.65	4	4.00
	5:01		Middle	3.5	27.20	27.20		8.08	8.08		29.41	29.41		83.9	83.8		5.65	5.65		2.62	2.65		4	
16/9/2013	11:00	Fine	Middle	3.5	28.20	28.20	28.25	8.11	8.11	8.11	28.80	28.80	28.81	79.5	77.5	77.8	5.28	5.15	5.17	5.02	5.01	4.93	5	4.00
	11:02		Middle	3.5	28.30	28.30		8.10	8.10		28.82	28.82		76.4	77.9		5.07	5.17		4.80	4.90		3	
18/9/2013	11:45	Fine	Middle	3.5	28.20	28.20	28.25	8.26	8.26	8.27	30.90	30.90	30.91	88.8	88.0	88.3	5.83	5.78	5.79	5.80	5.90	5.85	5	5.00
	11:47		Middle	3.5	28.30	28.30		8.27	8.27		30.91	30.91		88.3	88.0		5.79	5.77		5.80	5.88		5	
21/9/2013	13:40	Fine	Middle	4.0	30.20	30.20	30.20	8.21	8.21	8.21	30.82	30.82	30.82	85.9	86.1	85.5	5.43	5.44	5.39	2.41	2.40	2.41	6	6.00
	13:42		Middle	4.0	30.20	30.20		8.20	8.20		30.81	30.81		85.3	84.6		5.38	5.31		2.42	2.42		6	
23/9/2013	14:50	Fine	Middle	3.5	28.40	28.40	28.45	8.19	8.19	8.20	29.84	29.84	29.84	82.3	82.0	82.3	5.41	5.39	5.41	8.44	8.34	8.34	6	6.50
	14:52		Middle	3.5	28.50	28.50		8.20	8.20		29.84	29.84		81.8	83.0		5.38	5.46		8.29	8.28		7	
25/9/2013	4:25	Cloudy	Middle	3.5	27.30	27.30	27.30	8.14	8.14	8.14	29.33	29.33	29.34	75.9	79.8	77.3	5.10	5.37	5.22	4.24	4.05	4.13	4	3.50
	4:26		Middle	3.5	27.30	27.30		8.14	8.14		29.35	29.35		75.6	77.9		5.18	5.24		4.08	4.15		3	
27/9/2013	4:25	Cloudy	Middle	3.5	26.40	26.40	26.40	8.16	8.16	8.16	30.70	30.70	30.71	78.2	79.1	77.6	5.30	5.36	5.26	3.34	3.26	3.34	<2	<2
	4:26		Middle	3.5	26.40	26.40		8.16	8.16		30.72	30.72		76.1	76.9		5.15	5.21		3.29	3.45		<2	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	4:50	Fine	Middle	1.0	27.80	27.80	27.80	8.16	8.16	8.14	26.41	26.41	26.42	59.5	59.3	59.3	4.04	4.03	4.03	1.10	1.10	1.09	3	3.00
	4:53		Middle	1.0	27.80	27.80		8.12	8.12		26.42	26.42		59.2	59.0		4.03	4.01		1.09	1.06		3	
31/8/2013	10:49	Cloudy	Middle	1.5	27.70	27.70	27.75	7.73	7.73	7.69	24.06	24.06	24.06	54.4	56.8	56.6	3.75	3.91	3.90	9.54	9.56	9.49	37	**38.00**
	10:51		Middle	1.5	27.80	27.80		7.64	7.64		24.06	24.06		57.4	57.7		3.95	3.97		9.43	9.41		39	
2/9/2013	10:16	Fine	Middle	1.5	26.60	26.60	26.60	7.80	7.80	7.79	24.94	24.94	24.95	56.1	56.2	56.8	3.92	3.99	3.99	1.40	1.41	1.43	3	3.50
	10:18		Middle	1.5	26.60	26.60		7.77	7.77		24.96	24.96		57.1	57.7		4.00	4.04		1.44	1.45		4	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	12:00	Fine	Middle	2.0	25.70	25.70	25.70	7.98	7.98	7.98	27.79	27.79	27.79	55.0	55.4	55.5	3.83	3.86	3.87	2.87	2.86	2.86	4	4.00
	12:02		Middle	2.0	25.70	25.70		7.97	7.97		27.79	27.79		55.6	56.1		3.88	3.91		2.85	2.84		4	
9/9/2013	13:53	Fine	Middle	2.0	27.20	27.20	27.10	8.08	8.08	8.06	28.77	28.77	28.78	56.2	57.5	57.8	3.02	3.91	3.73	6.37	6.36	6.43	21	**21.00**
	13:55		Middle	2.0	27.00	27.00		8.03	8.03		28.78	28.78		58.5	59.1		3.98	4.02		6.46	6.52		21	
11/9/2013	4:28	Fine	Middle	2.0	26.80	26.80	26.90	7.93	7.93	7.92	28.26	28.26	28.32	61.3	61.0	60.8	4.14	4.12	4.11	1.43	1.41	1.38	6	5.50
	4:30		Middle	2.0	27.00	27.00		7.91	7.91		28.38	28.38		60.7	60.1		4.10	4.07		1.37	1.32		5	
13/9/2013	6:07	Fine	Middle	1.5	27.50	27.50	27.50	7.70	7.70	7.73	27.53	27.53	27.54	32.4	32.1	32.0	2.20	2.18	**2.18**	1.07	1.05	1.07	4	3.50
	6:09		Middle	1.5	27.50	27.50		7.76	7.76		27.54	27.54		31.8	31.7		2.16	2.16		1.07	1.10		3	
16/9/2013	10:12	Fine	Middle	2.0	28.10	28.10	28.05	7.98	7.98	7.97	25.48	25.48	25.48	46.5	46.7	47.0	3.18	3.19	3.21	2.72	2.80	2.78	3	2.50
	10:15		Middle	2.0	28.00	28.00		7.95	7.95		25.48	25.49		47.3	47.4		3.22	3.23		2.78	2.81		2	
18/9/2013	12:05	Fine	Middle	2.0	28.30	28.30	28.30	8.06	8.06	8.06	28.62	28.62	28.62	72.4	72.2	72.5	4.84	4.83	4.85	5.49	5.51	5.53	7	6.50
	12:07		Middle	2.0	28.30	28.30		8.06	8.06		28.62	28.62		72.5	72.9		4.85	4.86		5.54	5.56		6	
21/9/2013	14:39	Fine	Middle	1.5	29.20	29.20	29.20	8.07	8.07	8.06	28.55	28.55	28.55	51.0	50.0	50.0	3.33	3.27	3.27	4.40	4.51	4.51	5	4.50
	14:41		Middle	1.5	29.20	29.20		8.04	8.04		28.55	28.55		49.8	49.2		3.26	3.22		4.52	4.61		4	
23/9/2013	15:00	Fine	Middle	1.5	28.60	28.60	28.55	8.14	8.14	8.14	25.31	25.31	25.33	47.6	49.6	48.9	3.22	3.35	3.31	5.65	5.62	5.63	12	12.50
	15:02		Middle	1.5	28.60	28.40		8.14	8.14		25.35	25.35		49.9	48.5		3.37	3.28		5.62	5.62		13	
25/9/2013	4:41	Cloudy	Middle	1.0	27.70	27.70	27.60	7.86	7.86	7.86	27.11	27.11	27.12	31.6	31.3	31.2	2.14	2.12	**2.11**	1.29	1.29	1.28	<2	<2
	4:43		Middle	1.0	27.50	27.50		7.85	7.85		27.12	27.12		31.0	30.8		2.10	2.09		1.30	1.22		<2	
27/9/2013	6:25	Cloudy	Middle	2.0	27.30	27.30	27.20	7.92	7.92	7.92	28.42	28.42	28.43	40.6	40.2	40.0	2.73	2.71	**2.70**	1.91	1.90	1.90	2	2.50
	6:27		Middle	2.0	27.10	27.10		7.91	7.91		28.43	28.43		39.7	39.5		2.69	2.68		1.89	1.90		3	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
29/8/2013	3:37	Fine	Middle	2.0	28.60	28.60	28.60	8.37	8.37	8.38	25.87	25.87	25.94	74.8	79.6	79.1	5.01	5.36	5.30	2.07	2.03	2.06	3	3.50
	3:38		Middle	2.0	28.60	28.60		8.38	8.38		26.00	26.00		81.3	80.7		5.44	5.40		2.09	2.05		4	
31/8/2013	10:15	Cloudy	Middle	3.0	26.60	26.60	26.60	8.26	8.26	8.26	25.35	25.35	25.36	81.0	82.1	81.6	5.64	5.71	5.68	1.24	1.23	1.23	4	4.50
	10:17		Middle	3.0	26.60	26.60		8.26	8.26		25.36	25.36		82.0	81.4		5.71	5.67		1.23	1.23		5	
2/9/2013	11:40	Fine	Middle	2.5	27.50	27.50	27.55	8.11	8.11	8.11	30.53	30.53	30.54	65.4	66.4	65.4	4.35	4.42	4.37	0.59	0.61	0.61	<2	<2
	11:42		Middle	2.5	27.60	27.60		8.11	8.11		30.54	30.54		65.3	64.5		4.41	4.29		0.61	0.62		<2	
4/9/2013	-	Amber Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-		Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
6/9/2013	12:10	Fine	Middle	3.5	26.60	26.60	26.60	8.02	8.02	8.02	29.27	29.27	29.29	77.0	77.7	77.5	5.27	5.29	5.41	2.86	2.85	2.85	3	3.50
	12:12		Middle	3.5	26.60	26.60		8.02	8.02		29.30	29.30		77.9	77.4		5.30	5.77		2.84	2.84		4	
9/9/2013	13:50	Fine	Middle	3.0	29.20	29.20	29.40	7.97	7.97	7.96	29.32	29.32	29.31	68.6	67.6	67.9	4.45	4.35	4.39	8.66	8.66	8.60	6	6.50
	13:52		Middle	3.0	29.60	29.60		7.94	7.94		29.29	29.29		68.4	67.1		4.44	4.31		8.49	8.57		7	
11/9/2013	4:24	Fine	Middle	2.0	26.90	26.90	26.90	8.09	8.09	8.08	28.47	28.47	28.47	77.6	78.7	77.4	5.28	5.36	5.27	5.85	5.54	5.47	6	6.50
	4:25		Middle	2.0	26.90	26.90		8.07	8.07		28.47	28.47		76.6	76.5		5.22	5.21		5.19	5.31		7	
13/9/2013	5:42	Fine	Middle	2.0	27.30	27.30	27.35	7.88	7.88	7.95	28.55	28.54	28.34	85.8	85.5	84.6	5.80	5.84	5.72	2.79	2.85	2.80	3	2.50
	5:43		Middle	2.0	27.40	27.40		8.01	8.01		28.13	28.13		83.2	83.8		5.61	5.63		2.81	2.74		2	
16/9/2013	10:35	Fine	Middle	3.0	28.20	28.20	28.20	8.12	8.12	8.12	29.02	29.02	29.03	73.0	72.6	73.0	4.84	4.82	4.84	4.73	4.71	4.70	4	4.50
	10:37		Middle	3.0	28.20	28.20		8.11	8.11		29.04	29.04		72.9	73.3		4.83	4.86		4.56	4.79		5	
18/9/2013	11:25	Fine	Middle	3.5	28.10	28.10	28.10	8.22	8.22	8.22	30.42	30.42	30.43	87.6	87.4	87.2	5.78	5.77	5.76	9.46	9.31	9.33	6	6.50
	11:27		Middle	3.5	28.10	28.10		8.22	8.22		30.43	30.43		87.4	86.5		5.76	5.71		9.29	9.27		7	
21/9/2013	12:10	Fine	Middle	3.5	29.70	29.70	29.70	8.14	8.14	8.14	30.07	30.07	30.06	77.4	78.5	77.9	4.99	5.06	5.00	8.69	8.59	8.63	6	5.50
	12:12		Middle	3.5	29.70	29.70		8.14	8.14		30.05	30.05		78.1	77.5		5.03	4.90		8.59	8.64		5	
23/9/2013	14:20	Fine	Middle	4.0	28.80	28.80	28.80	8.24	8.24	8.24	29.00	29.00	29.00	83.4	83.3	83.3	5.47	5.47	5.45	2.55	2.55	2.54	4	4.50
	14:22		Middle	4.0	28.80	28.80		8.23	8.23		29.00	29.00		83.6	82.9		5.43	5.41		2.54	2.51		5	
25/9/2013	5:20	Cloudy	Middle	1.5	27.30	27.30	27.30	8.08	8.08	8.09	28.75	28.75	29.00	76.8	78.7	77.0	5.19	5.31	5.20	7.14	6.52	6.61	4	4.00
	5:21		Middle	1.5	27.30	27.30		8.09	8.09		28.75	29.75		76.6	75.9		5.16	5.12		6.44	6.33		4	
27/9/2013	5:00	Cloudy	Middle	2.0	26.70	26.70	26.70	7.97	7.97	7.99	30.22	30.22	30.25	83.3	81.9	81.8	5.64	5.55	5.54	4.42	4.46	4.36	3	3.00
	5:01		Middle	2.0	26.70	26.70		8.00	8.00		30.28	30.28		80.4	81.7		5.44	5.53		4.29	4.27		3	

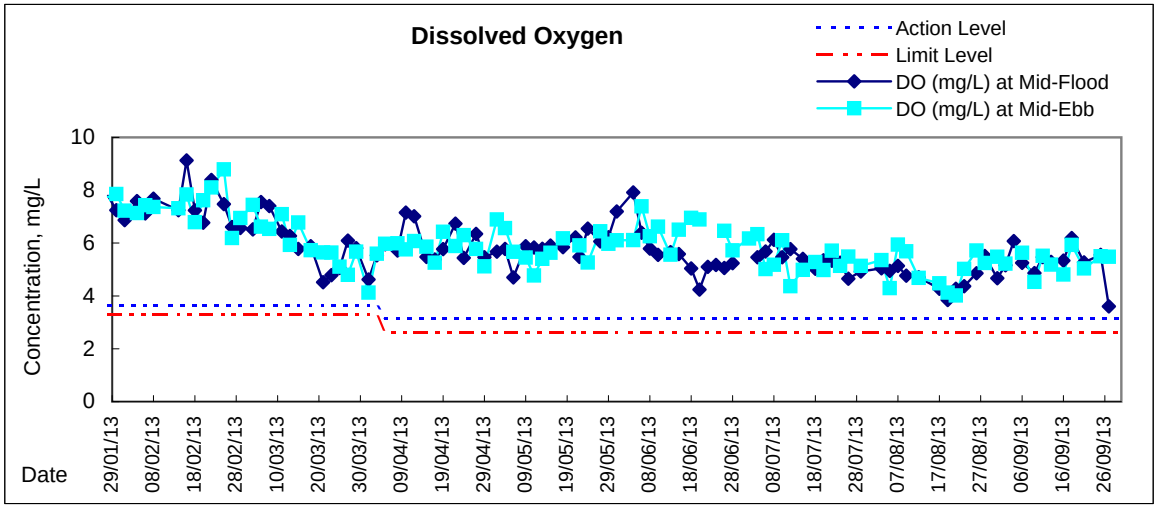
Remarks:

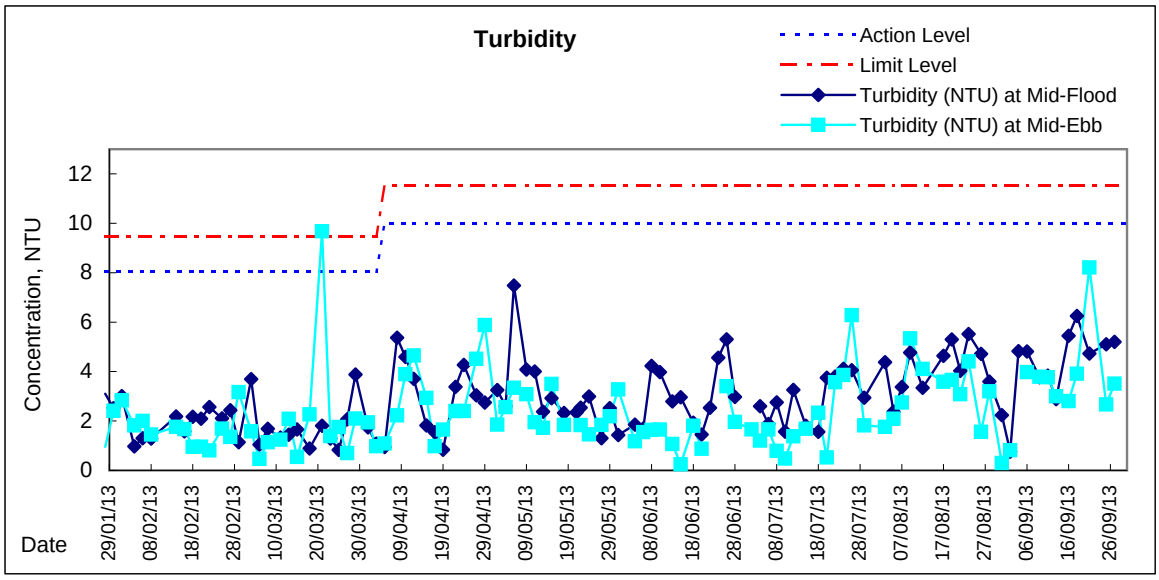
Single underline denotes exceedance over Action Level.

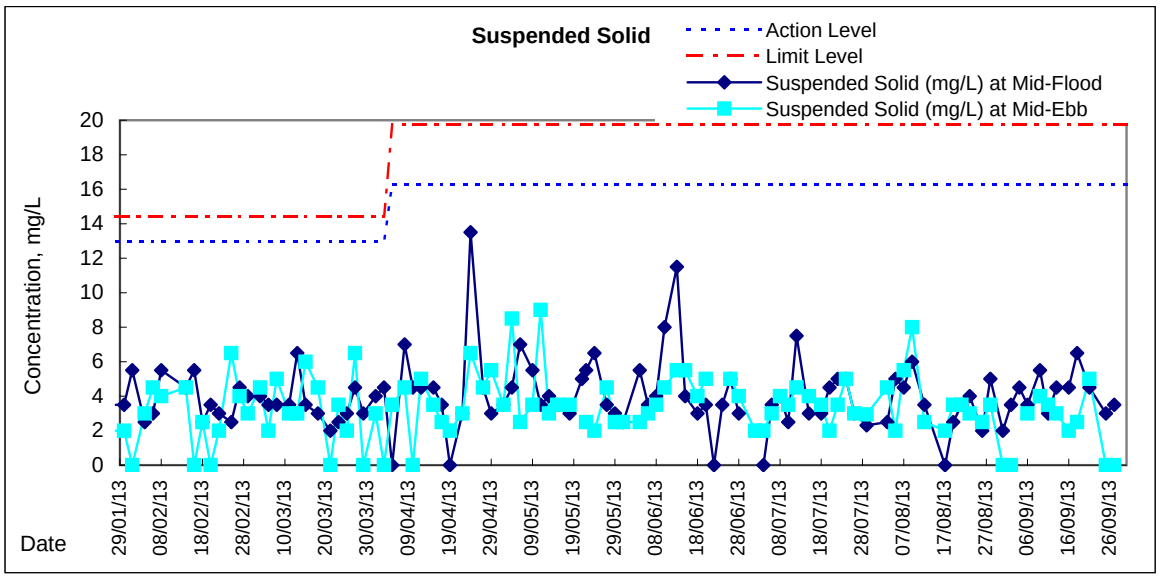
Double underline denotes exceedance over Limit Level.

Due to the Gale warning signal no.8 was hoisted on 23 September 2013, water quality monitoring at flood tide were cancelled.

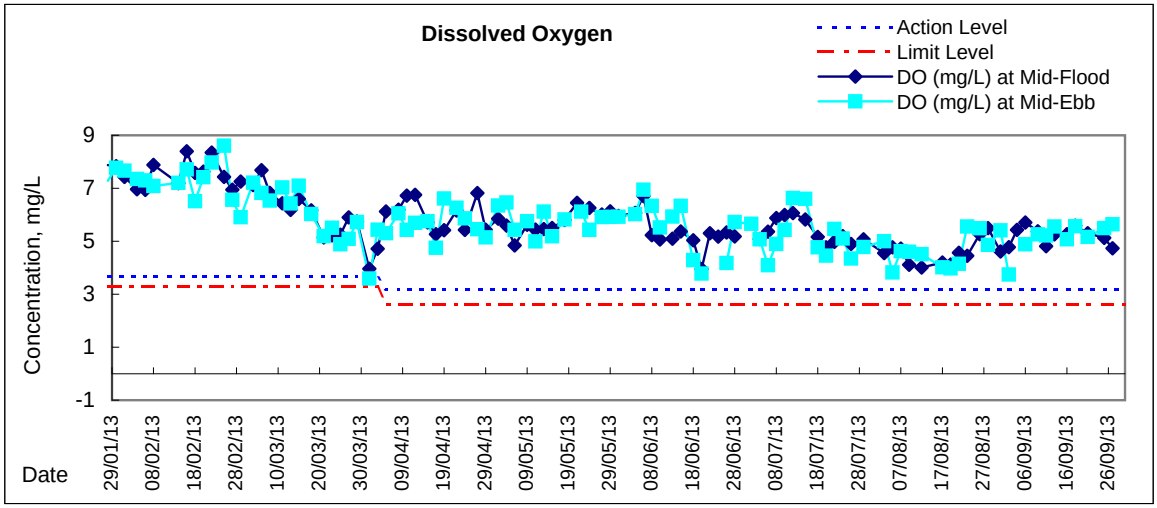
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

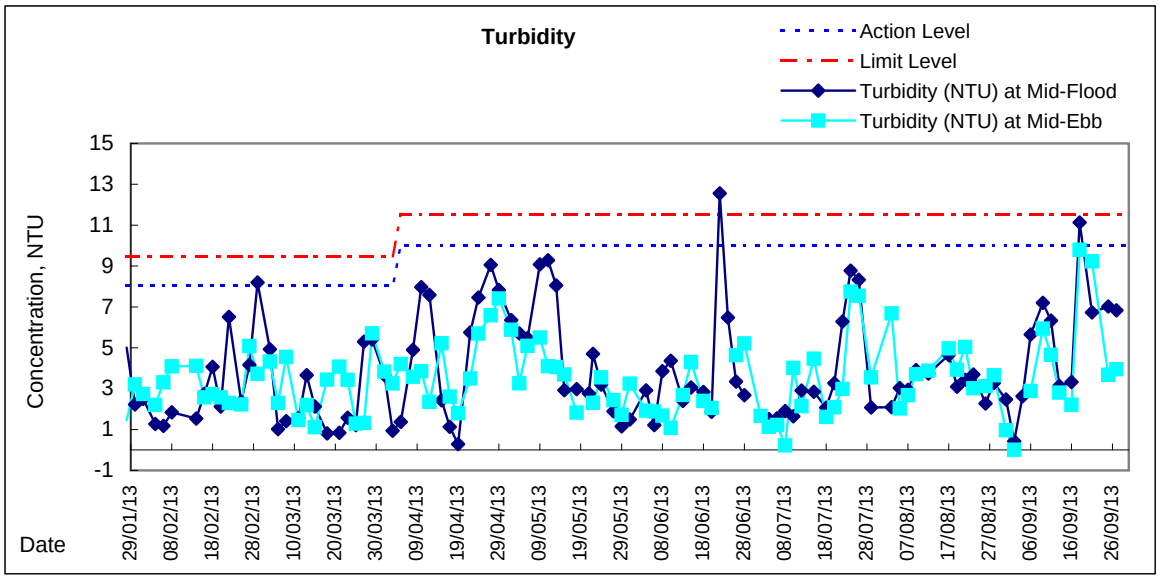


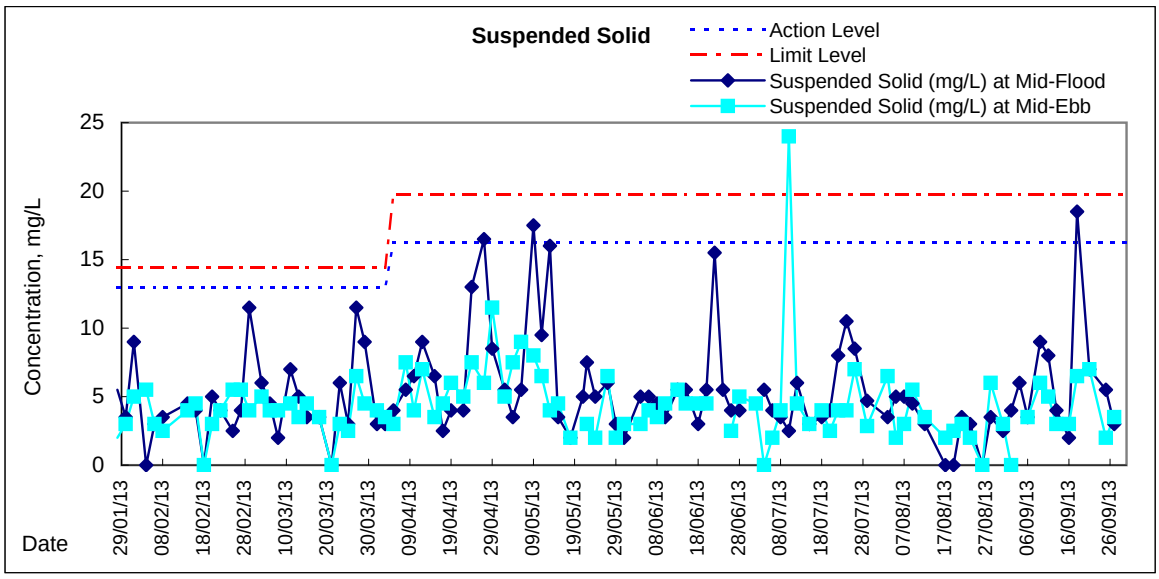




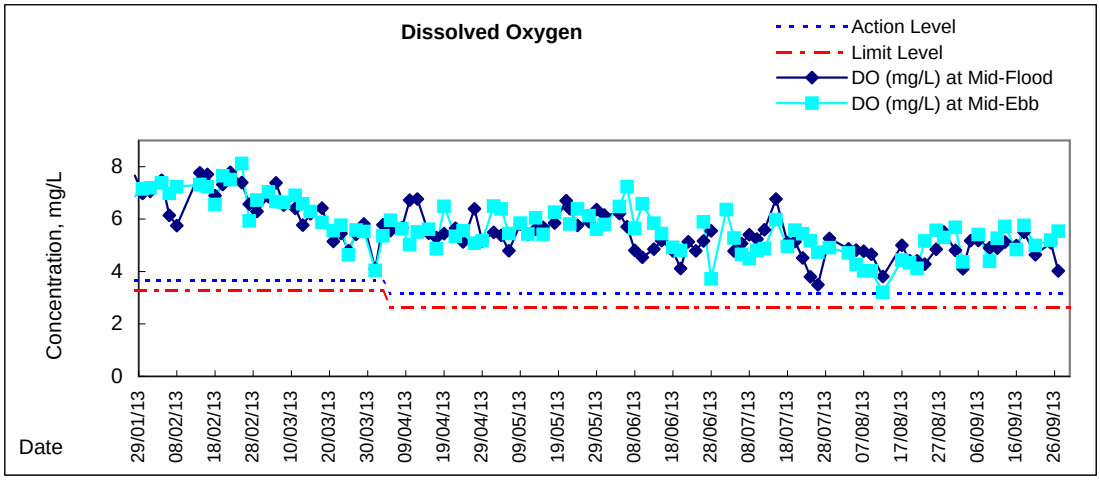
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

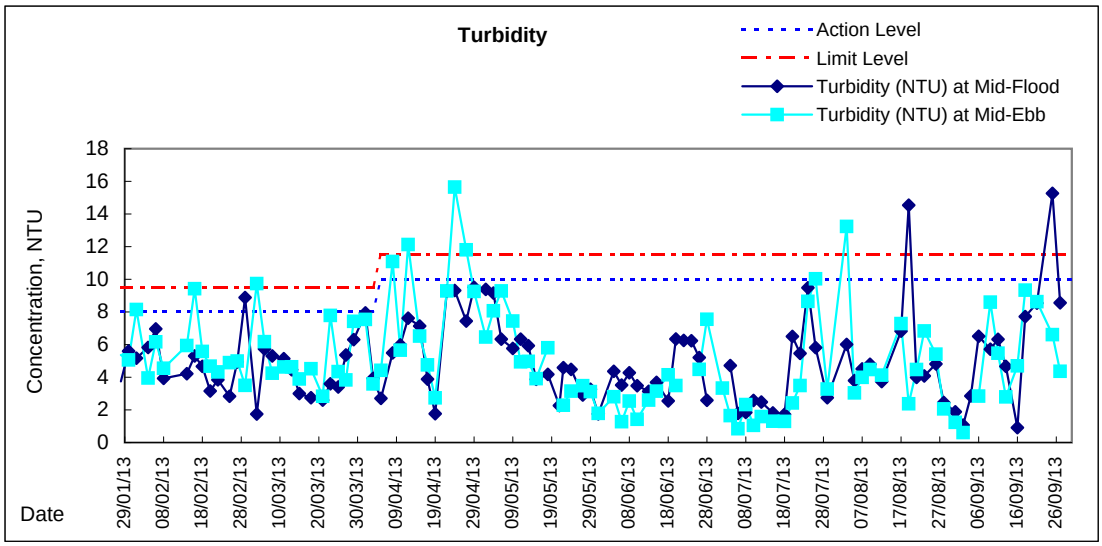


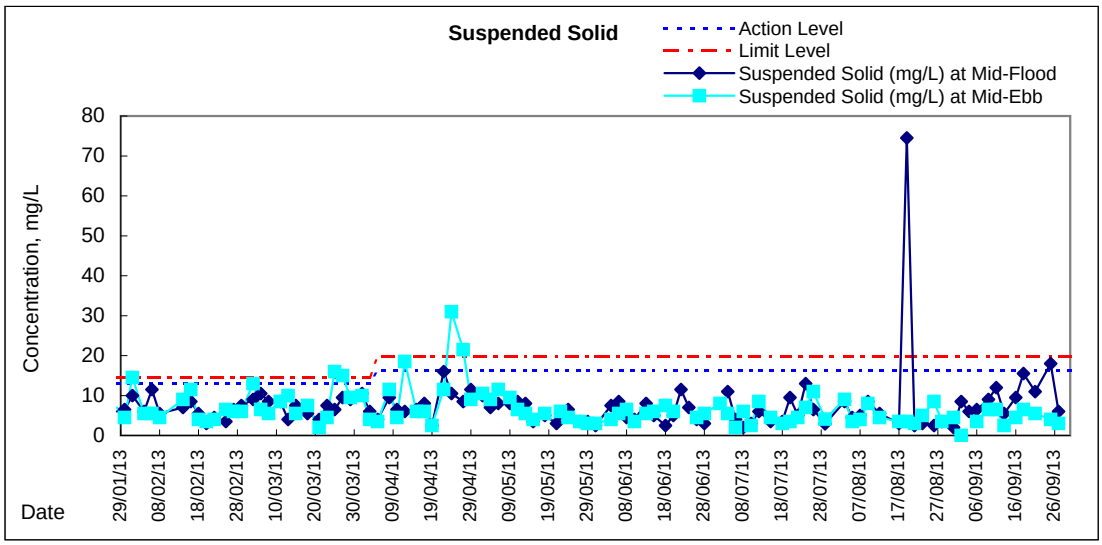




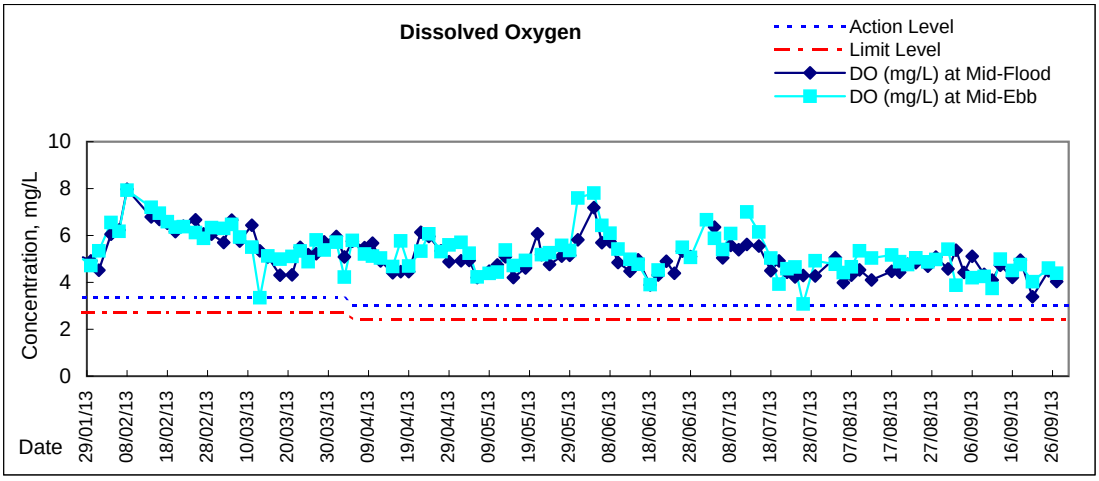
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

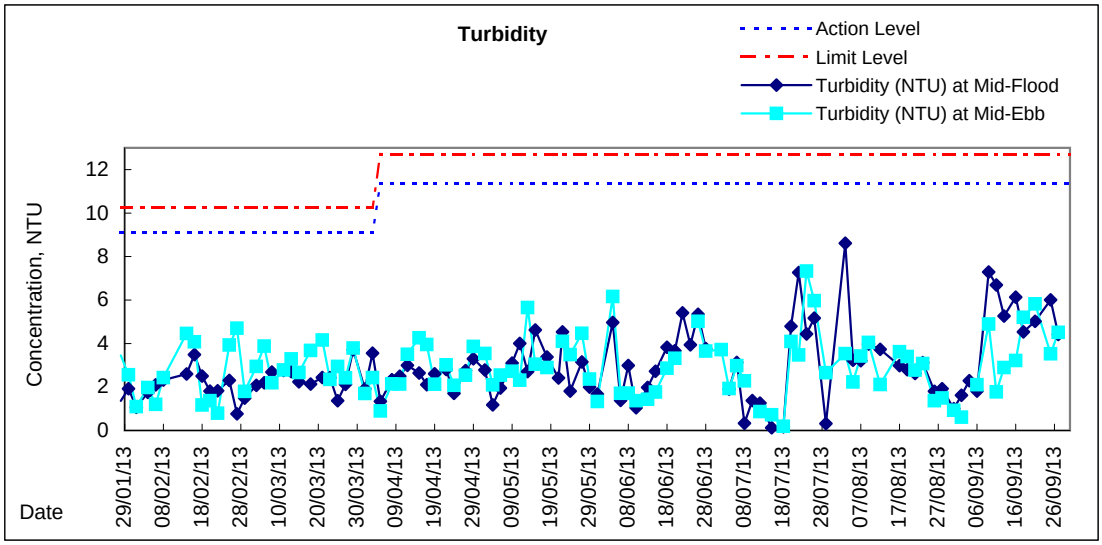


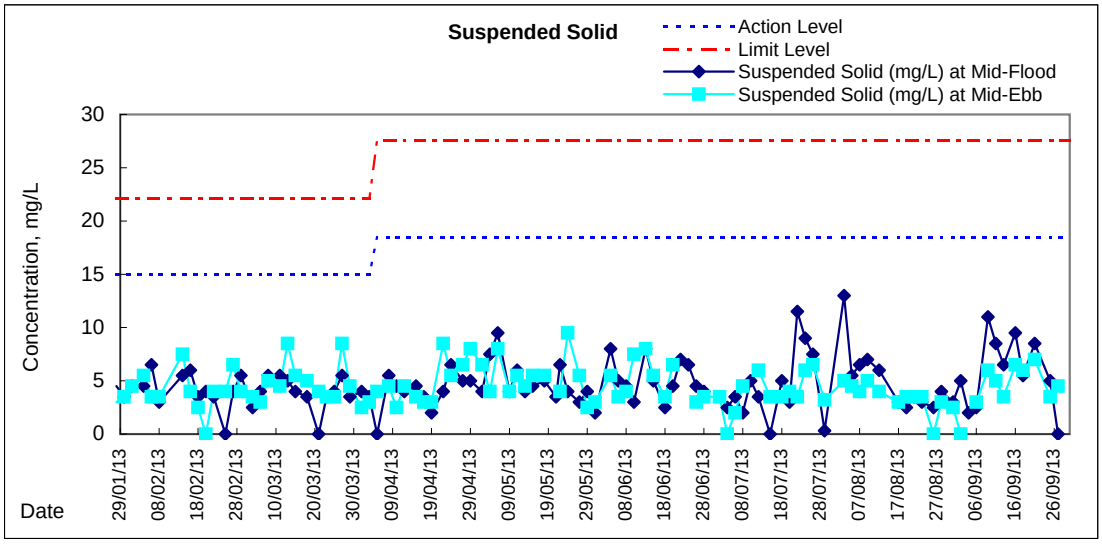




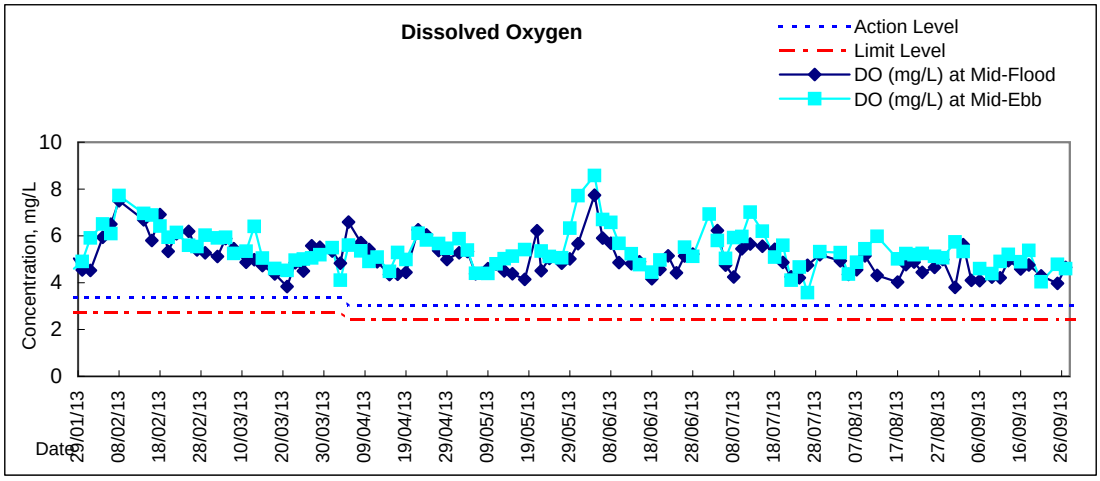
Graphic Presentation of Water Quality Result of C1 - HKCEC

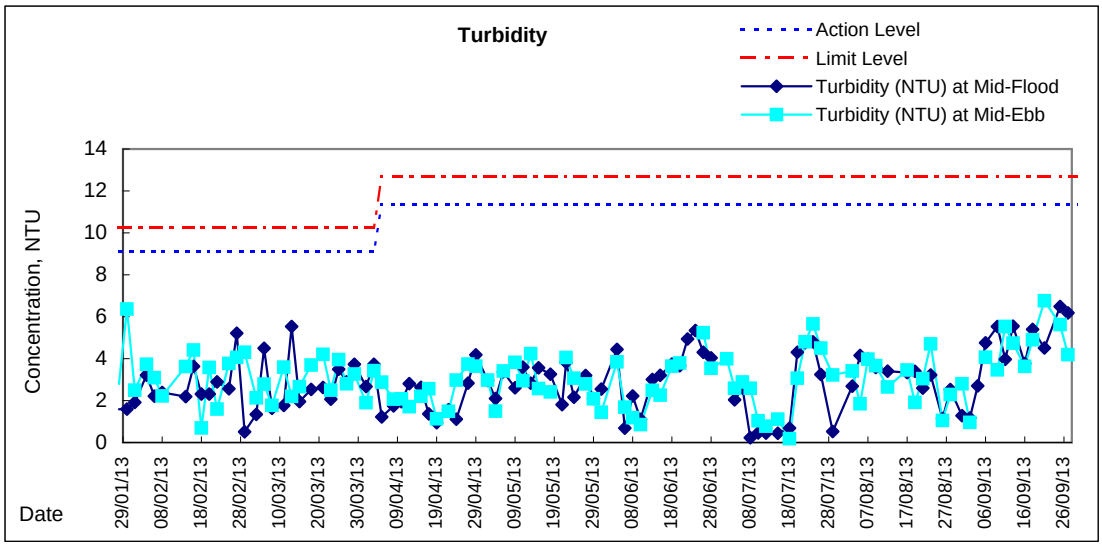


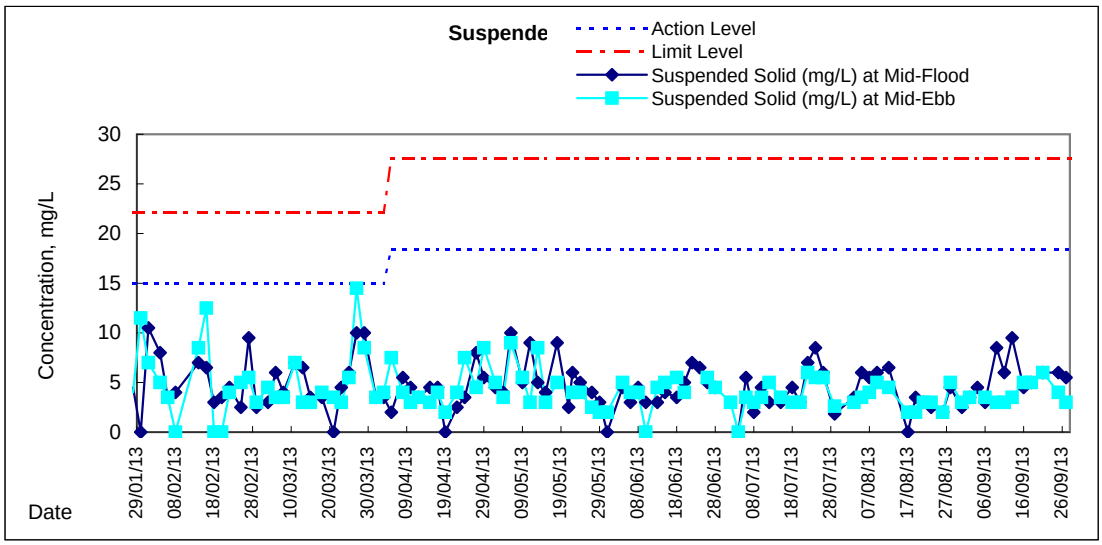




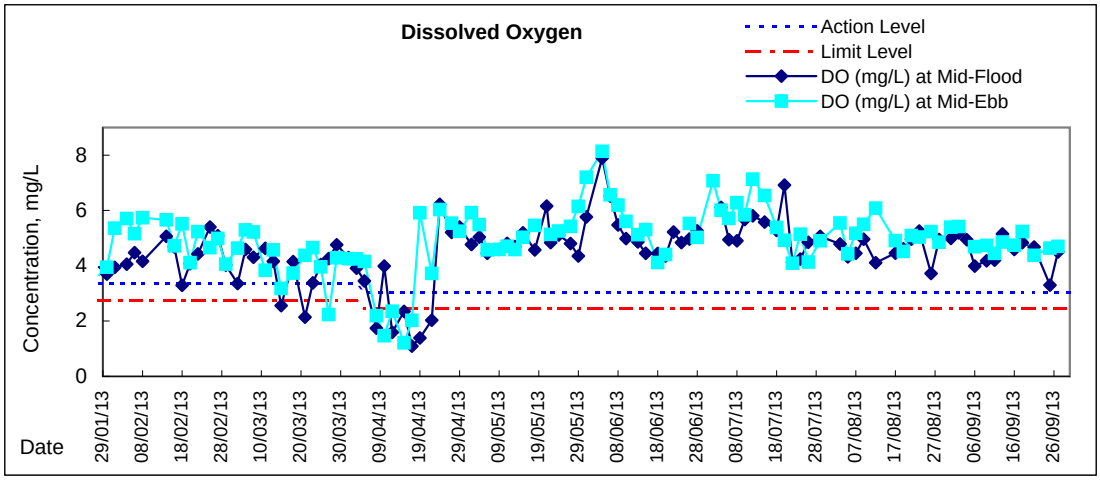
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

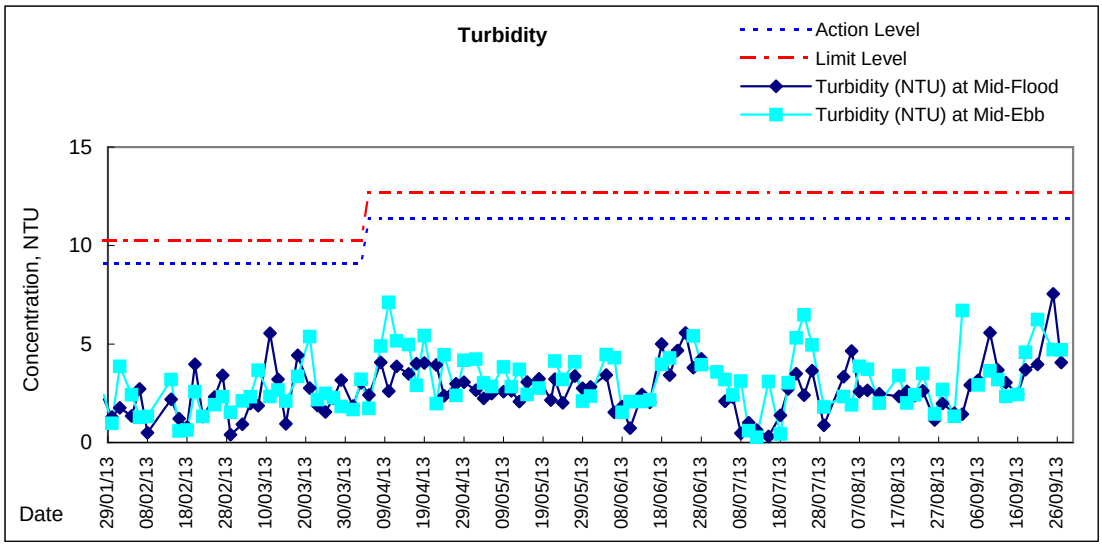


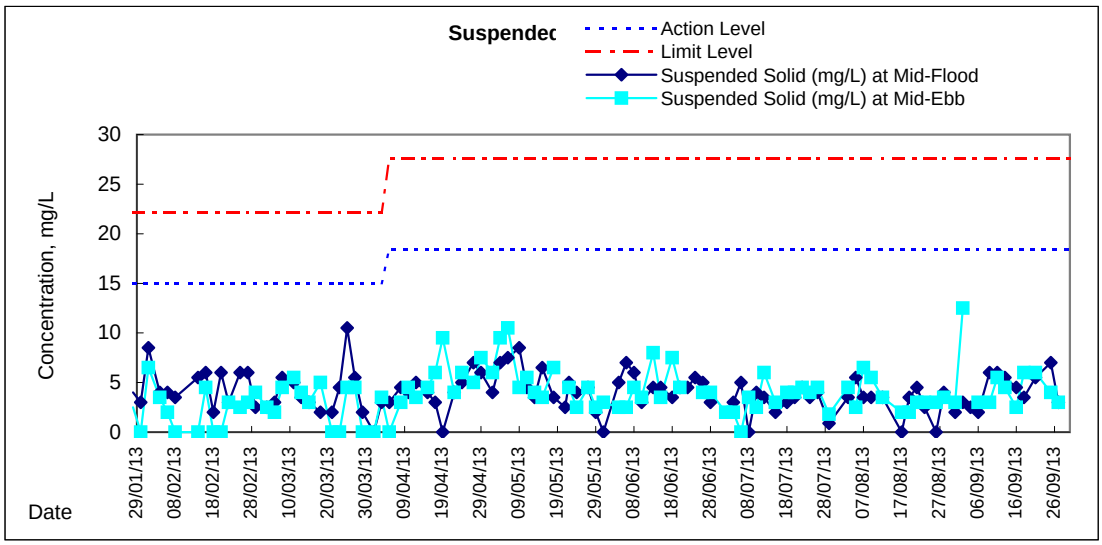




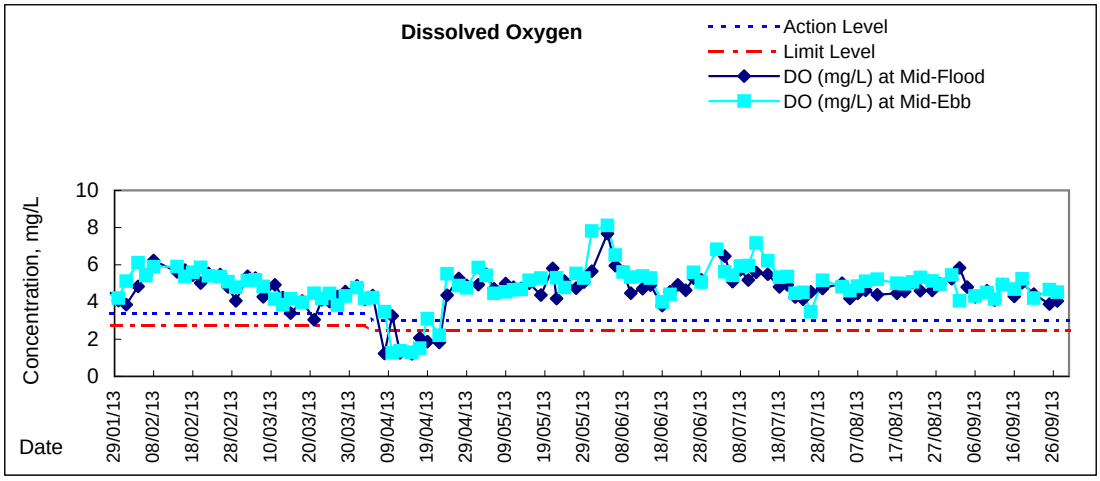
Graphic Presentation of Water Quality Result of P3 - APA

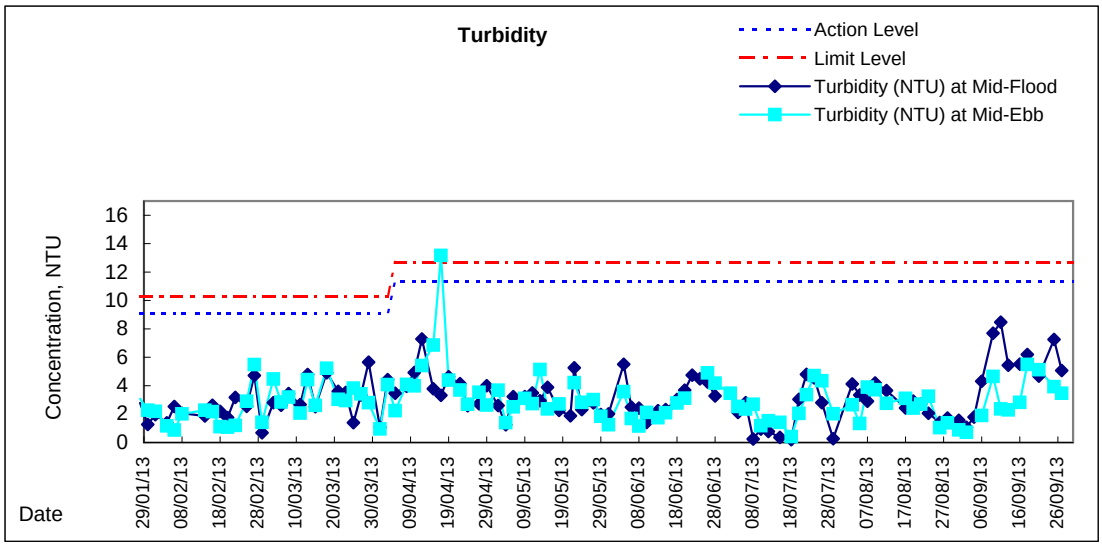


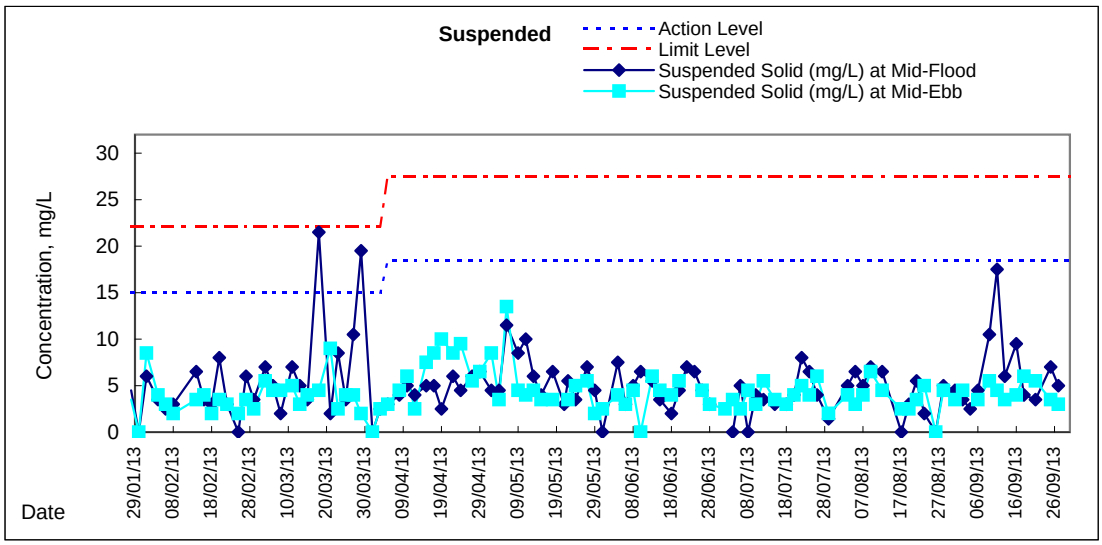




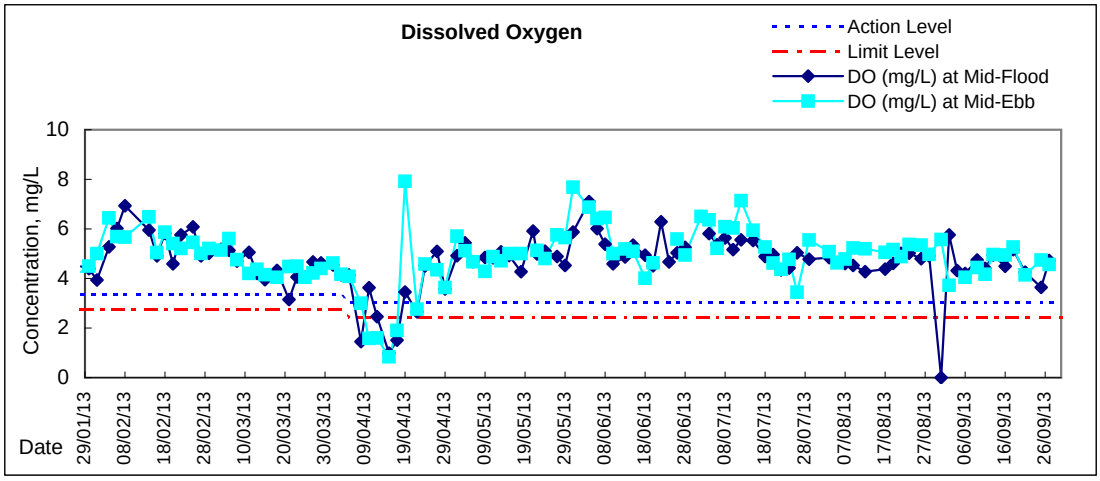
Graphic Presentation of Water Quality Result of P4 - SOC

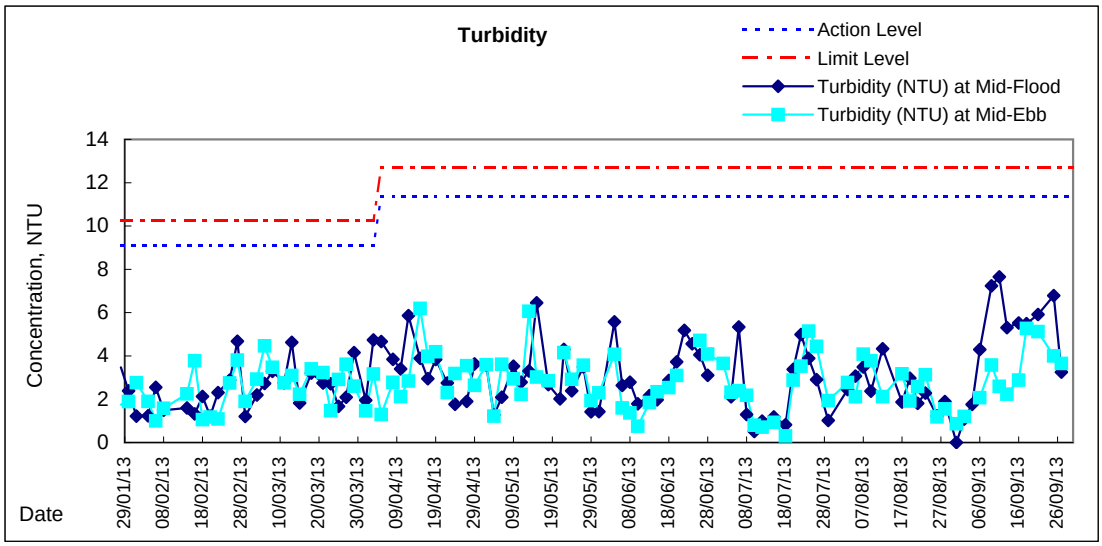


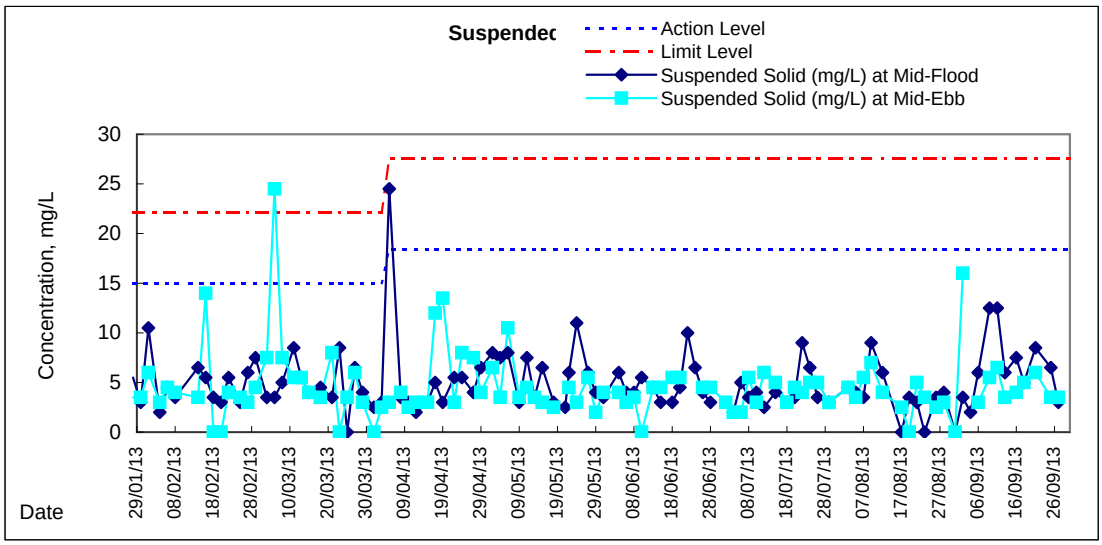




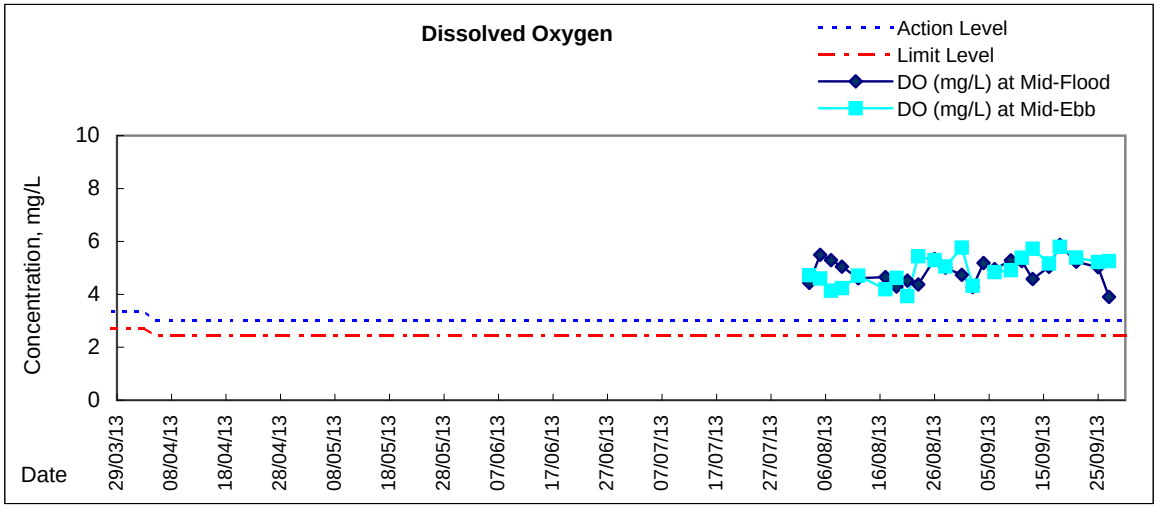
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

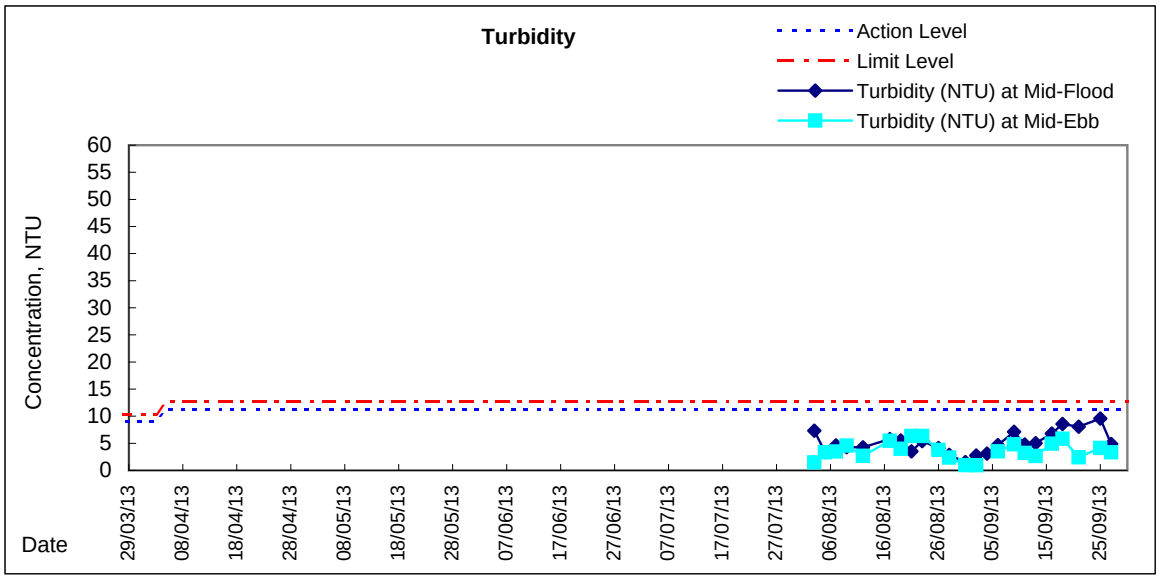


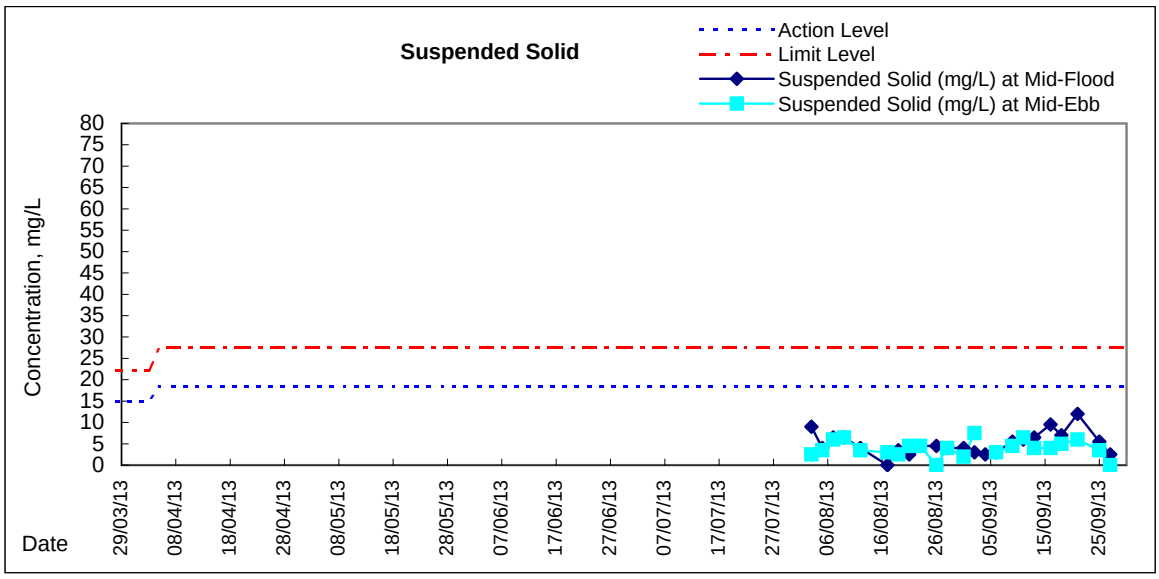




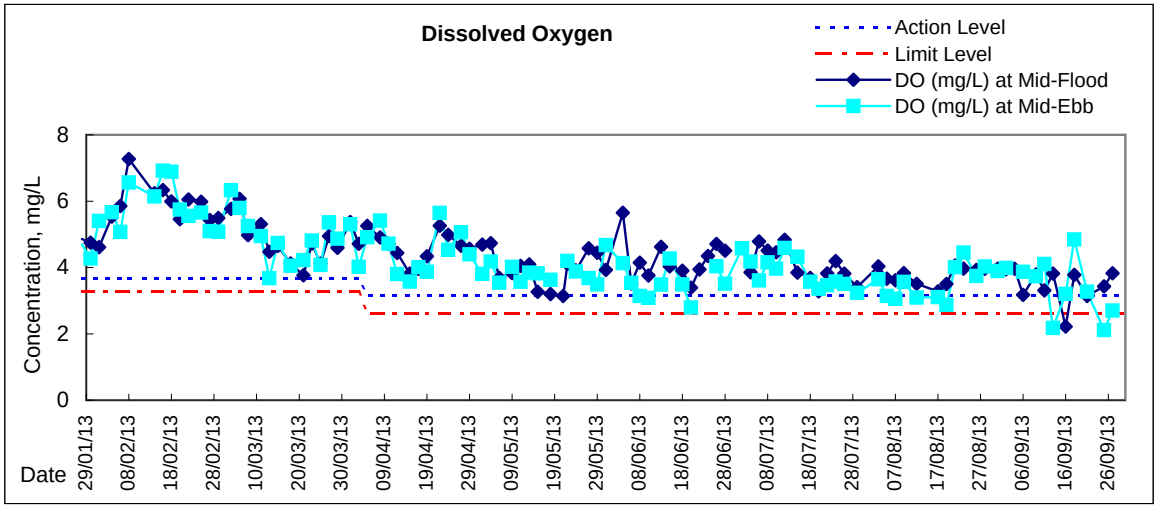
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

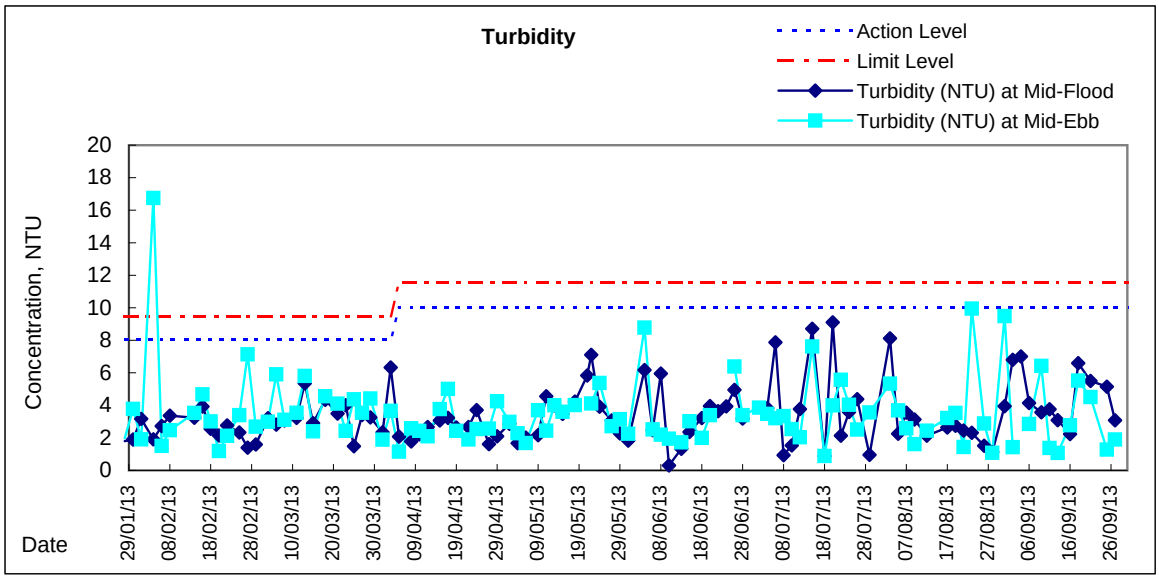


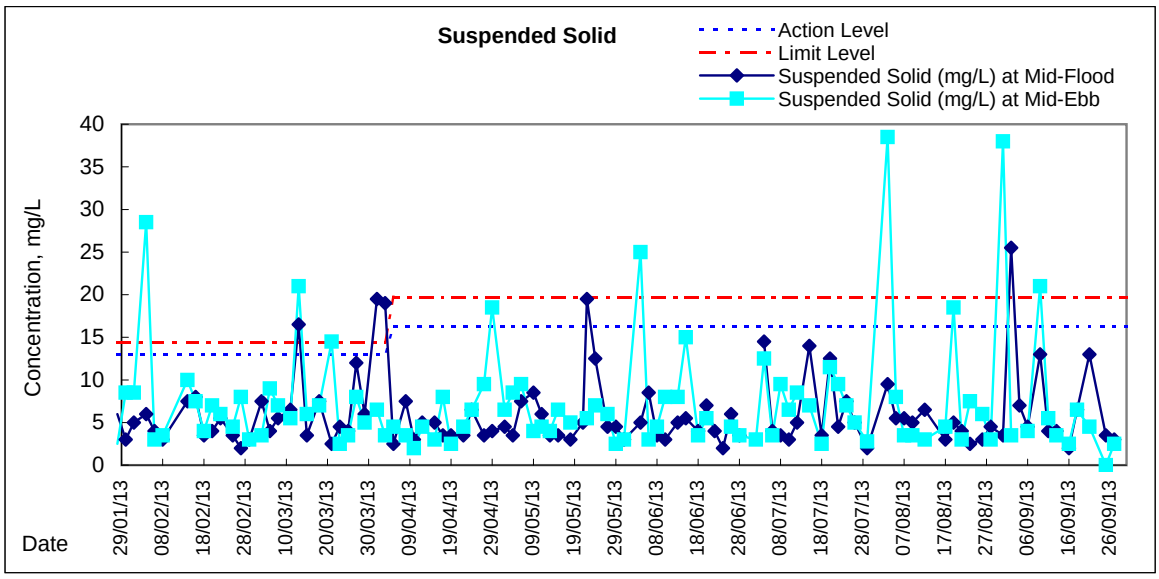




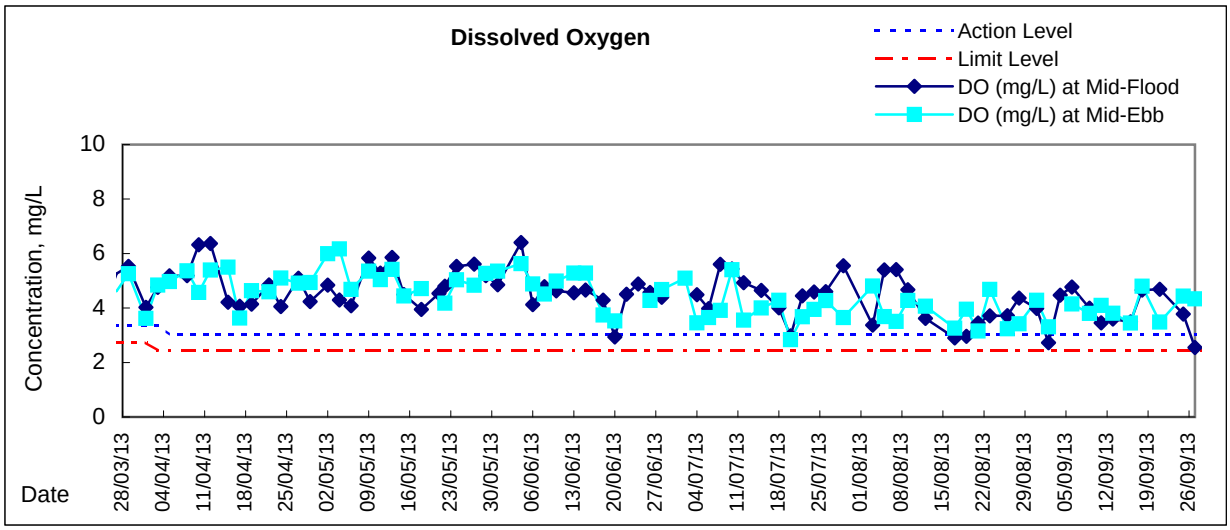
Graphic Presentation of Water Quality Result of WSD21 - Wan Chai

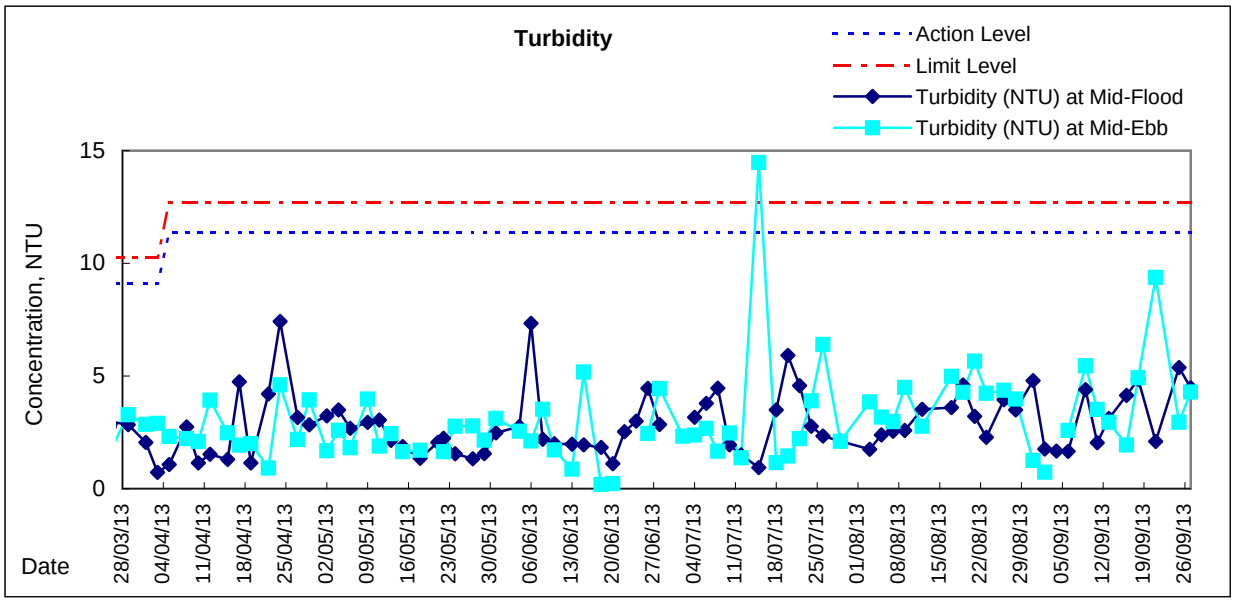


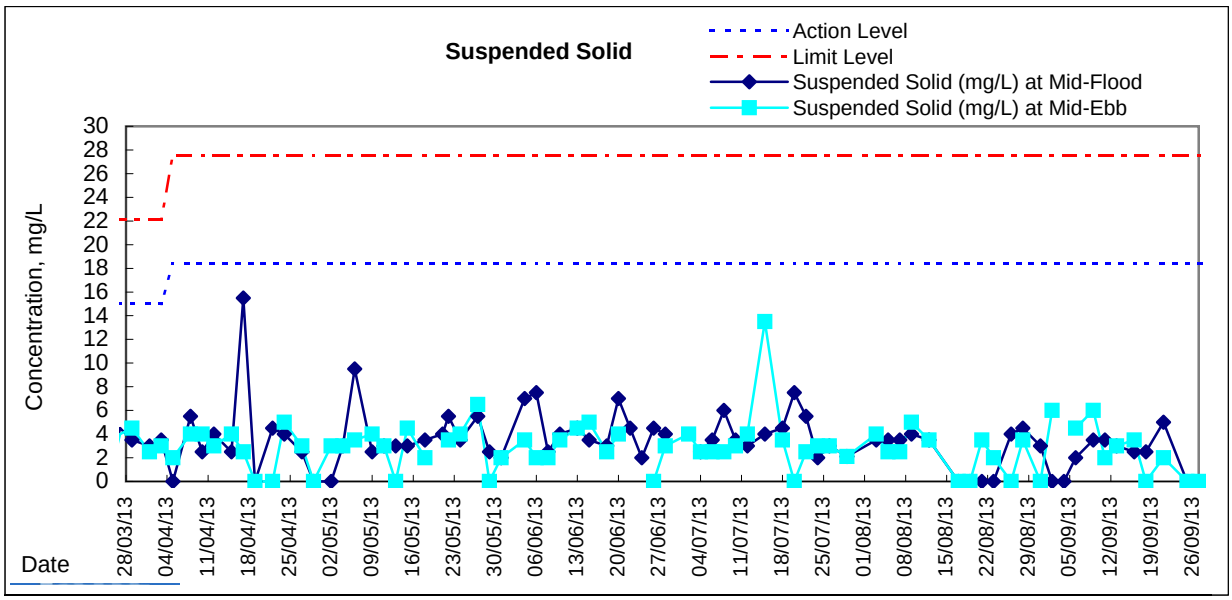




Graphic Presentation of Water Quality Result of C7 - Windsor House







*Due to the enforcement of Amber Rainstorm Warning on 4 Sep 2013, water quality monitoring at ebb tide was cancelled.

**Due to the enforcement of Gale Signal No. 8 on 23 Sep 2013, water quality monitoring at flood tide was cancelled.

Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data

RTN2a (Hong Kong Electric Centre)

Normal Day 07:00-19:00

28/8/2013 7:01	65.7
28/8/2013 7:31	66.9
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26/9/2013 11:31	66.7
26/9/2013 12:01	67.1
26/9/2013 12:31	67.0
26/9/2013 13:01	70.1
26/9/2013 13:31	72.3
26/9/2013 14:01	71.7
26/9/2013 14:31	70.3
26/9/2013 15:01	70.1
26/9/2013 15:31	71.8
26/9/2013 16:01	72.2
26/9/2013 16:31	72.6
26/9/2013 17:01	70.2
26/9/2013 17:31	67.6
26/9/2013 18:01	61.7
26/9/2013 18:31	65.8
27/9/2013 7:01	65.6
27/9/2013 7:31	58.0
27/9/2013 8:01	65.1
27/9/2013 8:31	66.2
27/9/2013 9:01	66.4
27/9/2013 9:31	66.7
27/9/2013 10:01	67.1
27/9/2013 10:31	68.0
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27/9/2013 12:01	66.6
27/9/2013 12:31	58.3
27/9/2013 13:01	65.7
27/9/2013 13:31	66.1
27/9/2013 14:01	65.9
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27/9/2013 15:01	66.7
27/9/2013 15:31	68.3
27/9/2013 16:31	68.6
27/9/2013 17:01	68.1
27/9/2013 17:31	65.6
27/9/2013 18:01	62.2
27/9/2013 18:31	66.3

Normal Day 19:00-23:00, Sunday & Holiday 07:00-23:00

28/8/2013 19:01	64.5
28/8/2013 19:06	64.1
28/8/2013 19:11	65.6
28/8/2013 19:16	64.3
28/8/2013 19:21	64.7
28/8/2013 19:26	64.0
28/8/2013 19:31	64.5
28/8/2013 19:36	65.2
28/8/2013 19:41	64.2
28/8/2013 19:46	63.5
28/8/2013 19:51	63.6
28/8/2013 19:56	63.9
28/8/2013 20:01	63.8
28/8/2013 20:06	63.7
28/8/2013 20:11	64.9
28/8/2013 20:16	63.9
28/8/2013 20:21	63.4
28/8/2013 20:26	63.2
28/8/2013 20:31	63.9
28/8/2013 20:36	63.5
28/8/2013 20:41	63.4
28/8/2013 20:46	62.9

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

28/8/2013 20:51	63.3	30/8/2013 21:56	63.3	1/9/2013 11:01	63.7	1/9/2013 20:06	63.1	3/9/2013 21:11	64.1	5/9/2013 22:16	64.4
28/8/2013 20:56	63.3	30/8/2013 22:01	63.0	1/9/2013 11:06	64.1	1/9/2013 20:11	62.8	3/9/2013 21:16	64.4	5/9/2013 22:21	64.6
28/8/2013 21:01	62.6	30/8/2013 22:06	63.3	1/9/2013 11:11	64.6	1/9/2013 20:16	63.2	3/9/2013 21:21	63.9	5/9/2013 22:26	64.1
28/8/2013 21:06	63.7	30/8/2013 22:11	63.5	1/9/2013 11:16	64.1	1/9/2013 20:21	62.8	3/9/2013 21:26	64.0	5/9/2013 22:31	64.4
28/8/2013 21:11	62.7	30/8/2013 22:16	63.7	1/9/2013 11:21	64.4	1/9/2013 20:26	63.1	3/9/2013 21:31	63.9	5/9/2013 22:36	64.6
28/8/2013 21:16	62.5	30/8/2013 22:21	62.9	1/9/2013 11:26	63.8	1/9/2013 20:31	63.1	3/9/2013 21:36	64.6	5/9/2013 22:41	64.6
28/8/2013 21:21	63.0	30/8/2013 22:26	63.0	1/9/2013 11:31	64.0	1/9/2013 20:36	62.9	3/9/2013 21:41	64.0	5/9/2013 22:46	64.8
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28/8/2013 22:26	62.4	31/8/2013 19:31	65.4	1/9/2013 12:36	65.1	1/9/2013 21:41	62.4	3/9/2013 22:46	63.9	6/9/2013 19:51	64.4
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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8/9/2013 16:21	63.7	9/9/2013 21:26	62.4	11/9/2013 22:31	62.3	14/9/2013 19:36	63.6	15/9/2013 12:41	63.0	15/9/2013 21:46	63.1

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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17/9/2013 21:31	63.9	19/9/2013 22:36	66.3	20/9/2013 15:41	62.9	21/9/2013 20:46	61.7	22/9/2013 13:51	64.0	22/9/2013 22:56	78.5
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17/9/2013 21:51	62.9	19/9/2013 22:56	62.6	20/9/2013 16:01	62.6	21/9/2013 21:06	61.8	22/9/2013 14:11	63.9	23/9/2013 19:16	64.4
17/9/2013 21:56	63.3	20/9/2013 7:01	60.0	20/9/2013 16:06	62.6	21/9/2013 21:11	61.5	22/9/2013 14:16	63.8	23/9/2013 19:21	64.1
17/9/2013 22:01	64.8	20/9/2013 7:06	60.9	20/9/2013 16:11	64.1	21/9/2013 21:16	62.0	22/9/2013 14:21	64.3	23/9/2013 19:26	64.0
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17/9/2013 22:31	62.5	20/9/2013 7:36	59.9	20/9/2013 16:41	63.2	21/9/2013 21:46	61.5	22/9/2013 14:51	63.8	23/9/2013 19:56	63.8
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17/9/2013 22:51	63.2	20/9/2013 7:56	61.7	20/9/2013 17:01	62.1	21/9/2013 22:06	61.7	22/9/2013 15:11	64.3	23/9/2013 20:16	63.8

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

23/9/2013 20:21	63.8	25/9/2013 21:26	64.9	27/9/2013 22:31	63.2	29/8/2013 0:21	62.6	30/8/2013 1:26	61.2	31/8/2013 2:31	62.0
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23/9/2013 20:31	64.2	25/9/2013 21:36	63.6	27/9/2013 22:41	63.5	29/8/2013 0:31	63.1	30/8/2013 1:36	61.2	31/8/2013 2:41	62.5
23/9/2013 20:36	63.2	25/9/2013 21:41	63.3	27/9/2013 22:46	63.2	29/8/2013 0:36	62.0	30/8/2013 1:41	60.7	31/8/2013 2:46	62.4
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23/9/2013 20:46	63.5	25/9/2013 21:51	63.3	27/9/2013 22:56	63.2	29/8/2013 0:46	62.3	30/8/2013 1:51	63.8	31/8/2013 2:56	61.7
23/9/2013 20:51	63.4	25/9/2013 21:56	63.6			29/8/2013 0:51	61.7	30/8/2013 1:56	63.9	31/8/2013 3:01	62.5
23/9/2013 20:56	63.5	25/9/2013 22:01	64.0	Night time: 23:00-07:00		29/8/2013 0:56	61.8	30/8/2013 2:01	63.9	31/8/2013 3:06	61.6
23/9/2013 21:01	63.3	25/9/2013 22:06	63.8			29/8/2013 1:01	62.4	30/8/2013 2:06	63.6	31/8/2013 3:11	61.0
23/9/2013 21:06	63.3	25/9/2013 22:11	64.1	28/8/2013 0:01	63.3	29/8/2013 1:06	61.4	30/8/2013 2:11	62.5	31/8/2013 3:16	61.3
23/9/2013 21:11	64.1	25/9/2013 22:16	63.4	28/8/2013 0:06	63.5	29/8/2013 1:11	61.4	30/8/2013 2:16	62.1	31/8/2013 3:21	61.0
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23/9/2013 22:01	62.8	26/9/2013 19:06	63.7	28/8/2013 0:56	62.0	29/8/2013 2:01	60.7	30/8/2013 3:06	61.5	31/8/2013 4:11	61.5
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23/9/2013 22:16	63.0	26/9/2013 19:21	65.7	28/8/2013 1:11	61.7	29/8/2013 2:16	59.5	30/8/2013 3:21	60.6	31/8/2013 4:26	62.1
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24/9/2013 21:21	63.6	26/9/2013 22:26	63.3	28/8/2013 4:16	58.3	29/8/2013 5:21	59.3	30/8/2013 6:26	63.3	31/8/2013 23:31	65.2
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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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22/9/2013 2:06	61.5	23/9/2013 3:11	58.1	24/9/2013 4:16	58.9	25/9/2013 5:21	59.6	26/9/2013 6:26	62.2	27/9/2013 23:31	64.4
22/9/2013 2:11	61.0	23/9/2013 3:16	58.7	24/9/2013 4:21	59.5	25/9/2013 5:26	60.1	26/9/2013 6:31	62.9	27/9/2013 23:36	64.1
22/9/2013 2:16	60.8	23/9/2013 3:21	58.6	24/9/2013 4:26	58.7	25/9/2013 5:31	59.4	26/9/2013 6:36	64.1	27/9/2013 23:41	63.8
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22/9/2013 2:26	60.8	23/9/2013 3:31	58.6	24/9/2013 4:36	58.7	25/9/2013 5:41	60.4	26/9/2013 6:46	63.9	27/9/2013 23:51	64.2
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22/9/2013 4:11	59.9	23/9/2013 5:16	59.0	24/9/2013 6:21	62.6	25/9/2013 23:26	63.9	27/9/2013 0:31	63.2		
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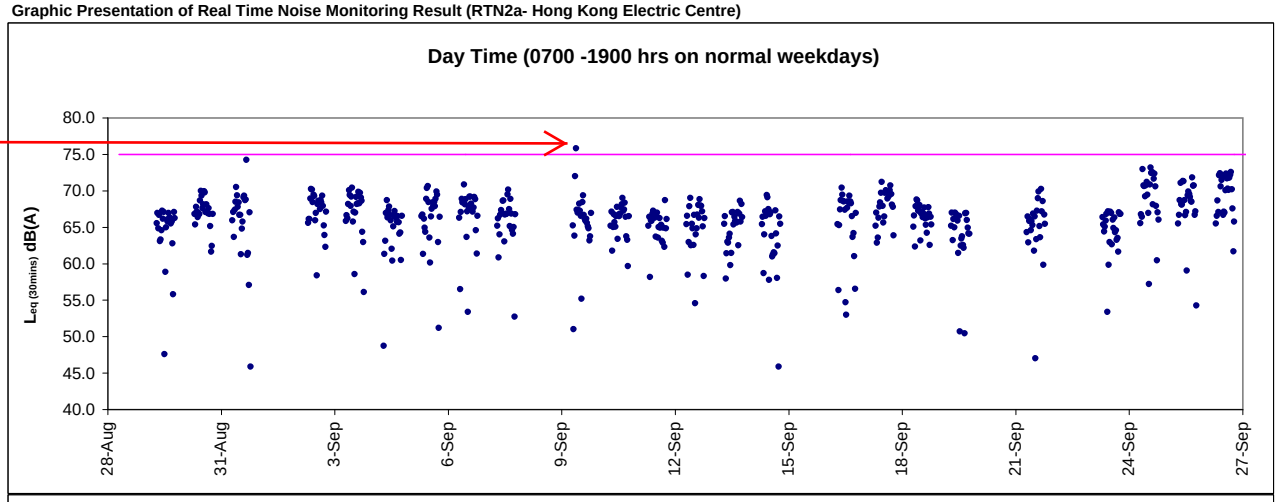
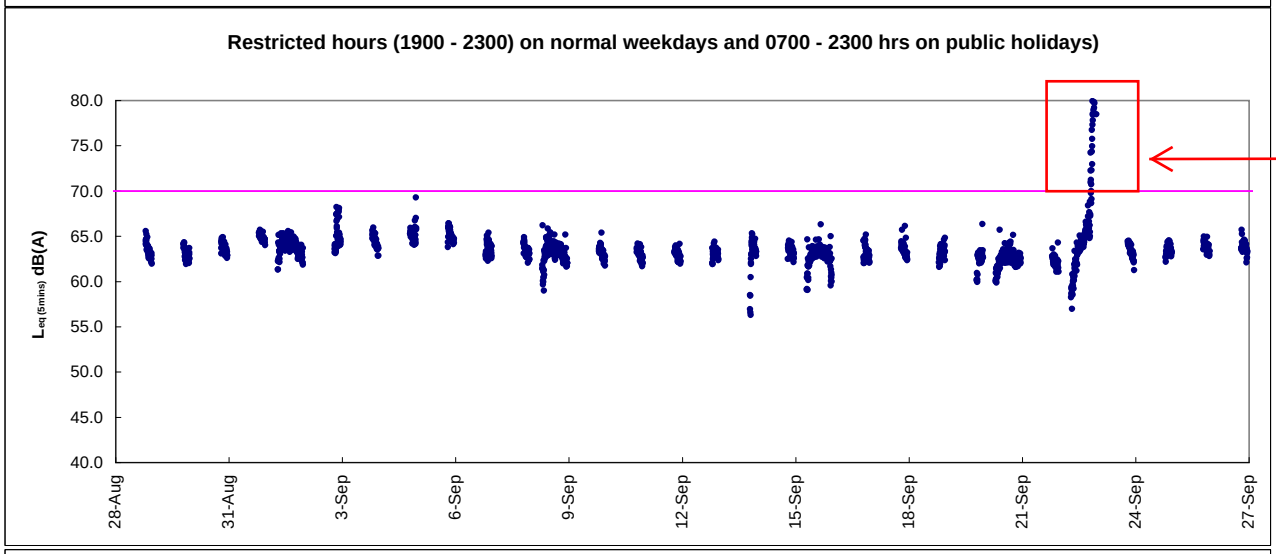
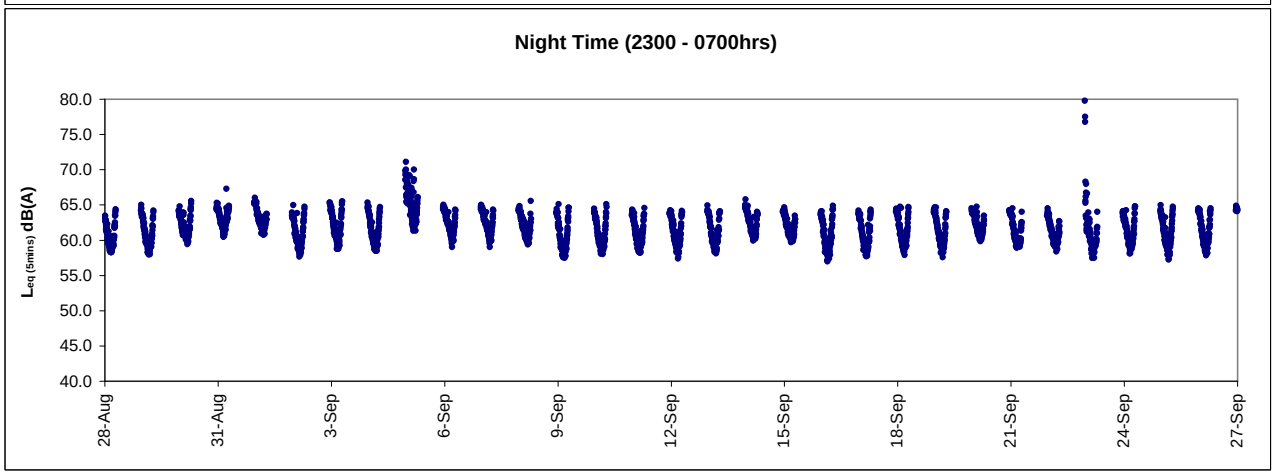
22/9/2013 5:51	60.4	23/9/2013 6:56	64.0	25/9/2013 0:01	63.1	26/9/2013 1:06	61.4	27/9/2013 2:11	60.6		
22/9/2013 5:56	60.1	23/9/2013 23:01	63.8	25/9/2013 0:06	63.6	26/9/2013 1:11	61.6	27/9/2013 2:16	61.1		
22/9/2013 6:01	59.7	23/9/2013 23:06	64.1	25/9/2013 0:11	62.9	26/9/2013 1:16	61.1	27/9/2013 2:21	60.3		
22/9/2013 6:06	60.3	23/9/2013 23:11	63.3	25/9/2013 0:16	63.1	26/9/2013 1:21	61.6	27/9/2013 2:26	59.8		
22/9/2013 6:11	60.5	23/9/2013 23:16	63.8	25/9/2013 0:21	63.3	26/9/2013 1:26	61.9	27/9/2013 2:31	60.8		
22/9/2013 6:16	60.5	23/9/2013 23:21	63.6	25/9/2013 0:26	62.8	26/9/2013 1:31	61.6	27/9/2013 2:36	60.4		
22/9/2013 6:21	61.9	23/9/2013 23:26	63.5	25/9/2013 0:31	62.6	26/9/2013 1:36	60.6	27/9/2013 2:41	59.6		
22/9/2013 6:26	61.5	23/9/2013 23:31	63.4	25/9/2013 0:36	62.5	26/9/2013 1:41	60.5	27/9/2013 2:46	59.7		
22/9/2013 6:31	61.5	23/9/2013 23:36	62.8	25/9/2013 0:41	62.3	26/9/2013 1:46	61.5	27/9/2013 2:51	59.9		
22/9/2013 6:36	60.9	23/9/2013 23:41	63.6	25/9/2013 0:46	61.5	26/9/2013 1:51	61.1	27/9/2013 2:56	60.2		
22/9/2013 6:41	62.6	23/9/2013 23:46	64.1	25/9/2013 0:51	62.6	26/9/2013 1:56	60.5	27/9/2013 3:01	59.8		
22/9/2013 6:46	62.7	23/9/2013 23:51	63.3	25/9/2013 0:56	61.7	26/9/2013 2:01	60.2	27/9/2013 3:06	59.0		
22/9/2013 6:51	62.0	23/9/2013 23:56	63.4	25/9/2013 1:01	61.3	26/9/2013 2:06	60.6	27/9/2013 3:11	59.2		
22/9/2013 6:56	61.1	24/9/2013 0:01	63.1	25/9/2013 1:06	61.8	26/9/2013 2:11	60.0	27/9/2013 3:16	59.0		
22/9/2013 23:01	79.8	24/9/2013 0:06	64.1	25/9/2013 1:11	61.3	26/9/2013 2:16	59.4	27/9/2013 3:21	59.4		
22/9/2013 23:06	76.8	24/9/2013 0:11	62.6	25/9/2013 1:16	61.0	26/9/2013 2:21	60.7	27/9/2013 3:26	58.2		
22/9/2013 23:11	77.5	24/9/2013 0:16	62.6	25/9/2013 1:21	61.7	26/9/2013 2:26	59.9	27/9/2013 3:31	58.9		
22/9/2013 23:16	65.6	24/9/2013 0:21	62.7	25/9/2013 1:26	61.3	26/9/2013 2:31	59.7	27/9/2013 3:36	59.1		
22/9/2013 23:21	65.3	24/9/2013 0:26	62.4	25/9/2013 1:31	60.6	26/9/2013 2:36	59.3	27/9/2013 3:41	58.8		
22/9/2013 23:26	68.3	24/9/2013 0:31	63.0	25/9/2013 1:36	60.0	26/9/2013 2:41	59.2	27/9/2013 3:46	58.0		
22/9/2013 23:31	63.5	24/9/2013 0:36	62.7	25/9/2013 1:41	61.3	26/9/2013 2:46	59.1	27/9/2013 3:51	58.5		
22/9/2013 23:36	66.2	24/9/2013 0:41	62.9	25/9/2013 1:46	60.0	26/9/2013 2:51	59.1	27/9/2013 3:56	58.6		
22/9/2013 23:41	63.1	24/9/2013 0:46	62.0	25/9/2013 1:51	60.4	26/9/2013 2:56	59.9	27/9/2013 4:01	57.8		
22/9/2013 23:46	66.8	24/9/2013 0:51	62.2	25/9/2013 1:56	59.7	26/9/2013 3:01	59.5	27/9/2013 4:06	58.6		
22/9/2013 23:51	68.0	24/9/2013 0:56	61.8	25/9/2013 2:01	61.8	26/9/2013 3:06	59.4	27/9/2013 4:11	58.4		
22/9/2013 23:56	62.1	24/9/2013 1:01	62.5	25/9/2013 2:06	63.2	26/9/2013 3:11	59.7	27/9/2013 4:16	58.6		
23/9/2013 0:01	63.2	24/9/2013 1:06	61.8	25/9/2013 2:11	60.5	26/9/2013 3:16	58.6	27/9/2013 4:21	58.7		
23/9/2013 0:06	61.2	24/9/2013 1:11	64.2	25/9/2013 2:16	59.4	26/9/2013 3:21	59.0	27/9/2013 4:26	58.7		

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







After checking with contractor HY/2009/19, no major noisy construction works were conducted at the concerned location during the recorded period and the exceedance was non-continuous. As such, the exceedances were considered to be contributed by nearby IEC traffic

After checking with contractor HY/2009/19, no construction work was conducted at the concerned location during the recorded period. The continuous exceedances were considered to be contributed by adverse weather condition during hoisting of Gale warning signal.

Appendix 6.1

Event Action Plans

Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level being exceeded	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Limit Level being exceeded	1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. 4. Identify source and investigate the cause of exceedance; 5. 5. Carry out analysis of Contractor's working procedures; 6. 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Event / Action Plan for Construction Air Quality

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Event and Action Plan for Marine Water Quality

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

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

Event and Action Plan for Odour Patrol

Event	ACTION	
	Person-in-charge of Odour Monitoring	**Implementation Agent Identified by CEDD**
Action Level		
Exceedance of Action Level	1. Identify source/reason of exceedance; 2. Repeat odour patrol to confirm finding.	1. Carry out investigation to identify the source/reason of exceedance; 2. Rectify any unacceptable practice 3. Implement more mitigation measures if necessary; 4. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	1. Identify source / reason of exceedance; 2. Repeat odour patrol to confirm findings; 3. Increase odour patrol frequency; 4. If exceedance stops, cease additional odour patrol.	1. Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; 2. Rectify any unacceptable practice; 3. Formulate remedial actions; 4. Ensure remedial actions properly implemented; 5. If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; 6. Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.

Appendix 6.2

Summary for Notification of Exceedance

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N139	6-Sep-13	15:24	M6 - HK Baptist Church Henrietta Secondary School	73	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. Mitigation measures including temporary noise barrier by contractor was confirmed in place. **Remarks / Other Obs:** Installation of falsework and formworkworks and demolish pile head concrete for Contract HY/2009/19 was 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 project but to traffic noise nearby.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N140	10-Sep-13	14:30	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. **Remarks / Other Obs:** Installation of falsework and formworkworks and Rebar-fixing for Contract HY/2009/19 was 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 project but to traffic noise nearby.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N141	17-Sep-13	9:50	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. **Remarks / Other Obs:** Installation of sealing panel and Rebar-fixing for Contract HY/2009/19 was 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 project but to traffic noise nearby.

Ref. No.	Date	Time	Location	Construction Noise Level	Unit	Action Level	Limit Level	Follow-up action
X_10N142	26-Sep-13	13:15	M6 - HK Baptist Church Henrietta Secondary School	71	Leq(30-min)	when one documented complaint was received.	70	**Possible reason:** Traffic nearby was observed during monitoring and was considered as the major noise contribution. **Action taken / to be taken:** Repeat measurement to confirm result and reviewed the trend of noise measurement. Analysis of contractor's working procedure. **Remarks / Other Obs:** Rebar-fixing, removal of crosshead formwork and hacking off pile head concrete for Contract 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 project but to traffic noise nearby.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_10C580	2-Sep-13	Mid-flood	C7	DO(mg/L)	2.73	3.02	2.44	**Possible reason:**	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.76	11.35	12.71	**Action taken / to be taken:**	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 2 September 2013, no marine works in the vincity of the monitoring location was conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				SS	<2	18.42	27.54	**Remarks / Other Obs:**	No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtain were in proper condition, the exceedance was considered not project related.
X_10C581	27-Sep-13	Mid-flood	C7	DO(mg/L)	2.55	3.02	2.44	**Possible reason:**	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.76	11.35	12.71	**Action taken / to be taken:**	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 27 September 2013, no marine works in the vincity of the monitoring locationwas conducted on that day. Checking with contractor's inspection record, the silt screen and silt curtain were in proper condition on that day.
				SS	<2	18.42	27.54	**Remarks / Other Obs:**	No further exceedance was recorded in the next consecutive monitoring. In view that the silt screen and silt curtainwere in proper condition, the exceedance was considered not project related.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_10D297	31-Aug-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.07	3.55	3.00	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 31 Aug 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D298	31-Aug-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	1.57	3.19	3.10	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 31 Aug 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D299	2-Sep-13	Mid-Flood	C7	Middle	DO(mg/l)	2.64	3.31	2.57	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activties conducted on 2 Sep 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily inspection.
									Remarks / Other Obs:	In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D300	2-Sep-13	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.43	3.55	3.00	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D301	2-Sep-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.94	3.19	3.10	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_10D302	2-Sep-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	3.55	3.55	3.00	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D303	27-Sep-13	Mid-Flood	Ex-WPCWA SE	Surface	DO(mg/l)	2.97	3.55	3.00	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D304	27-Sep-13	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.96	3.19	3.10	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D305	27-Sep-13	Mid-Flood	C7	Middle	DO(mg/l)	2.57	3.31	2.57	Possible reason:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station
									Action taken / to be taken:	Immediate repeated measurements had conducted to confirm the exceedances. No odour nuisance was detected during the DO monitoring. Checked with Contractor works, there were no marine activties conducted on 27 Sep 2013. Checking with the Contractor's daily records, silt screen at C7 was in proper condition in their daily inspection.
									Remarks / Other Obs:	In view that there was no marine activities at C7, it was considered not related to Project works.
X_10D306	27-Sep-13	Mid-Flood	Ex-WPCWA SE	Bottom	DO(mg/l)	2.96	3.76	3.76	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.

Ref no.	Date	Tidal	Location	Depth	Parameters (Unit	Measured	Action Leve	Limit Level	Follow-up action	
X_10D307	27-Sep-13	Mid-Ebb	Ex-WPCWA SW	Middle	DO(mg/l)	2.19	3.19	3.10	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 Sep 2013.
									Remarks / Other Obs:	In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works.
X_10D308	27-Sep-13	Mid-Ebb	Ex-WPCWA SE	Middle	DO(mg/l)	2.48	3.55	3.00	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 Sep 2013.
									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	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W446	31-Aug-13	Mid-Ebb	WSD21	DO(mg/L)	3.90	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	9.49	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 31 Aug 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				SS	**38.00**	16.26	19.74	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W447	2-Sep-13	Mid-Flood	WSD21	DO(mg/L)	3.95	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.80	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 2 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				SS	**25.50**	16.26	19.74	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W448	9-Sep-13	Mid-Ebb	WSD21	DO(mg/L)	3.73	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	6.43	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 9 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				SS	**21.00**	16.26	19.74	Remarks / Other Obs:	No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W449	13-Sep-13	Mid-Ebb	WSD21	DO(mg/L)	**2.18**	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.07	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 13 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				SS	3.50	16.26	19.74	Remarks / Other Obs:	To minimize the effect of DO level fluctuation during tidal movement, the contractor installed water diffuser at WQM monitoring station WSD21 for improving the DO since 21 August 2013. Water diffuser installed at WQM monitoring station WSD21 was found stabilizing the water quality the DO at normal level. Despite the water diffuser pumps was observed not operating during the monitoring, the operation of the diffuser was promptly restored. As no further exceedance was recorded in consecutive monitoring and no marine work was conducted on that day, the exceedances was considered not related to project.
X_W450	16-Sep-13	Mid-Flood	WSD21	DO(mg/L)	**2.22**	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	2.23	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 13 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day.
				SS	2.00	16.26	19.74	Remarks / Other Obs:	To minimize the effect of DO level fluctuation during tidal movement, the contractor installed water diffuser at WQM monitoring station WSD21 for improving the DO since 21 August 2013. Water diffuser installed at WQM monitoring station WSD21 was found stabilizing the water quality the DO at normal level. Despite the water diffuser pumps was observed not operating during the monitoring, the operation of the diffuser was promptly restored. As no further exceedance was recorded in consecutive monitoring and no marine work was conducted on that day, the exceedances was considered not related to project.
X_W451	18-Sep-13	Mid-Ebb	WSD17	DO(mg/L)	5.59	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	**11.13**	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 22 June 2013 , no marine work was conducted on that day.
				SS	**18.50**	16.26	19.74	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related.

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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_W452	21-Sep-13	Mid-Flood	WSD21	DO(mg/L)	**3.14**	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	5.50	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 21 Sep 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day. As a purpose to increase the DO level contractor started installing water difussing pumps at WQM monitoring station WSD21 for improving the DO since 21 August 2013.
				SS	13.00	16.26	19.74	Remarks / Other Obs:	Water difussing pumps installed at WQM monitoring station WSD21 by contractor was observed helping stabilize the water quality and the DO level back to acceptable level since 21 August 2013. DO level was observed started deterioration again since late September. Contractor was asked to review the circulation system on 8 Oct 2013. No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.
X_W453	25-Sep-13	Mid-Flood	WSD19	DO(mg/L)	5.10	3.17	2.63	Possible reason:	Silt screen cleaning at WSD salt water intake.
				Turbidity	**15.26**	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 25 Sep 2013 no marine works was conducted on that day.
				SS	**18.00**	16.26	19.74	Remarks / Other Obs:	In view that the water quality at monitoring stations located nearest the marine work site were well below the Action level, the exceedances was considered not project related. Silt screen cleaning was conducted at the monitoring location by WSD.
X_W454	25-Sep-13	Mid-Ebb	WSD21	DO(mg/L)	**2.11**	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.28	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 19 Aug 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day. As a purpose to increase the DO level contractor started installing areation pumps at WQM monitoring station WSD21 for improving the DO since 21 August 2013.
				SS	<2	16.26	19.74	Remarks / Other Obs:	Areation pumps installed at WQM monitoring station WSD21 by contractor was observed helping stabilize the water quality and the DO level back to acceptable level since 21 August 2013. No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.

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Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Leve	Limit Level	Follow-up action	
X_W455	27-Sep-13	Mid-Ebb	WSD21	DO(mg/L)	**2.70**	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of the water quality monitoring station
				Turbidity	1.90	10.01	11.54	Action taken / to be taken:	Immediate repeated in-situ measurements had conducted to confirm the exceedances. Checking with contractor's works on 19 Aug 2013 no marine work was conducted on that day. Checking with contractor's inspection record, the silt screen was in proper condition on that day. As a purpose to increase the DO level contractor started installing areation pumps at WQM monitoring station WSD21 for improving the DO since 21 August 2013.
				SS	2.50	16.26	19.74	Remarks / Other Obs:	Areation pumps installed at WQM monitoring station WSD21 by contractor was observed helping stabilize the water quality and the DO level back to acceptable level since 21 August 2013. No further exceedance was recorded in the next consecutive monitoring.In view that no marine work was conducted on that day, the exceedances was considered not project related.

Appendix 9.1

Complaint Log

Environmental Complaints Log

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. 3) No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)	Oil Street to Watson Road	Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. 2) There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 3) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period. 4) It is considered as invalid from the EP and CNP point of view.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. 2) No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. 3) It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	Closed

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1-266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot-light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00-21:00.	Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; • Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; • Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; • No starting work on 7 Dec 2010 at 0630hours. 2) PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; 3) It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; 4) The absence of the lighting shields at flood light results in visual glare to the complainant at night-time. 5) Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; 6) No further complaint was received after implementation of proposed measures	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1-281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	1) The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. 2) Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. 3) It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. 4) It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile 5) The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report.	Closed

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

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1-303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including Saturday, Sunday and public holiday.	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays. 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring. 5) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1-304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance to the vicinity of the residents in early morning	1) It was referred by AECOM to ET on 8 August 2011 2) With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring 3) As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid-August 2011. 4) In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	Closed
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	1) It was referred by AECOM to ET on 28 July 2011 2) RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. 3) No noise exceedance was recorded at construction noise	Closed

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

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

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

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 4) Contractor was reminded to enhance regular checking and maintenance to all plants at site. 5) RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor.	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	1) ET confirmed with the Resident Site Staff that • A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. • Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. 2) Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area.	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	1) According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no	Keep in view for three months from the date of complaint recevied

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					CNP was checked by the police officer. 2) ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700. 3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position. 4) Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour 5) This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	1) RSS notified ET on 5 April 2012. 2) ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. 3) After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. 4) HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	Closed

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1-407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	1) RSS notified ET on 8 March 2013 2) ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. 3) Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use.	Closed

Appendix 10.1

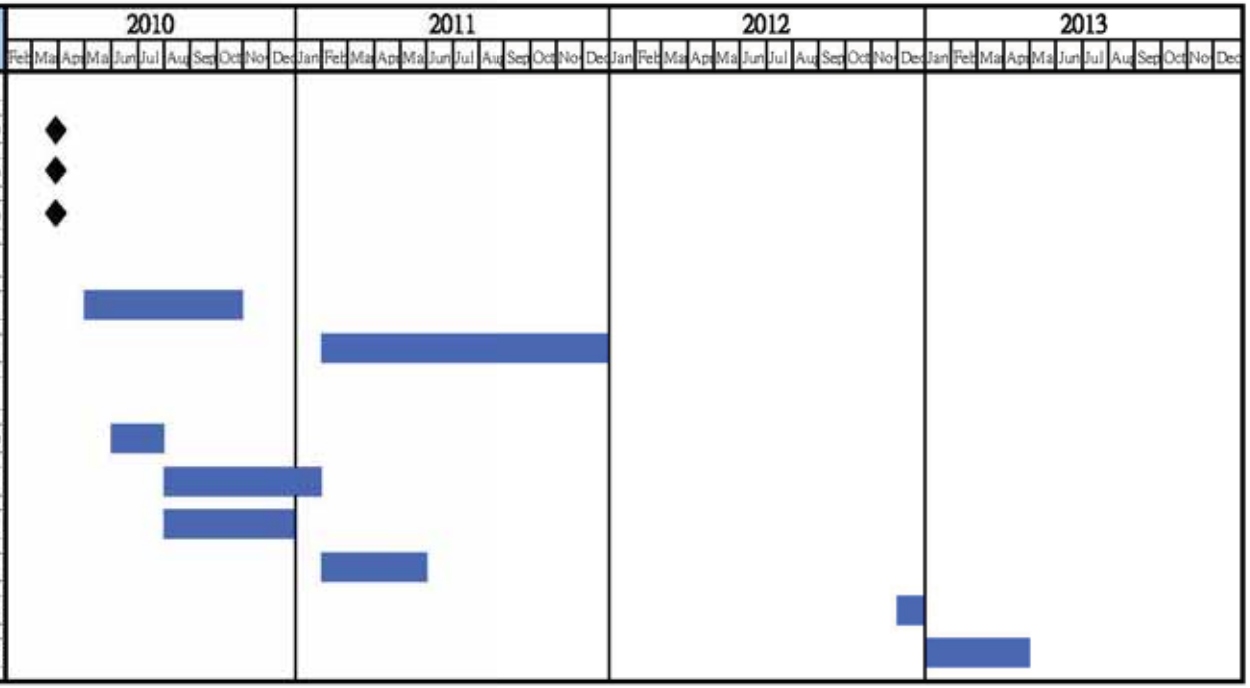
Construction Programme of Individual Contracts

Contract No. HK/2009/01

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

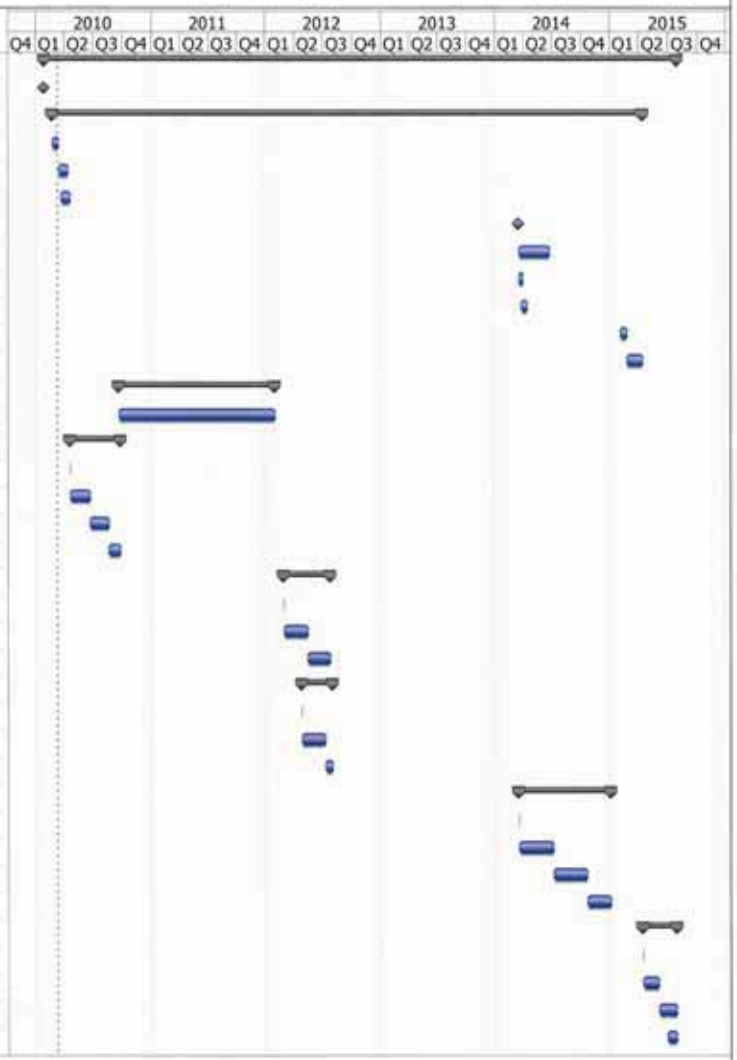
Working Programme for Marine Works (Dredging and Backfilling)

ACTIVITY	START	FINISH
Submissions before Works Commencement		
Submit silt curtain deployment plan	31/3/10	31/3/10
Submit silt screen deployment plan	31/3/10	31/3/10
Submit measures to mitigate noise impact	31/3/10	31/3/10
Cross Harbour Watermains from WCN to TST (DP6)		
Trench dredging for marine watermains installation	29/4/10	28/10/10
Backfilling for watermain	28/1/11	14/12/11
Reclamation Works at HKCEC Water Channel (DP3)		
Dredging at HKCEC Water Channel (Western Part)	1/6/10	1/8/10
Backfilling to +3.5mPD (Western Part)	17/8/10	6/2/11
Dredging at HKCEC Water Channel (Middle Part)	2/8/10	6/1/11
Backfilling to +3.5mPD (Middle Part)	21/2/11	1/6/11
Dredging at HKCEC Water Channel (Eastern Part)	1/12/12	31/12/12
Backfilling to +3.5mPD (Eastern Part)	16/1/13	30/4/13



Dredging & Reclamation Works Programme Summary
(based on Initial Works Programme Rev. 0)

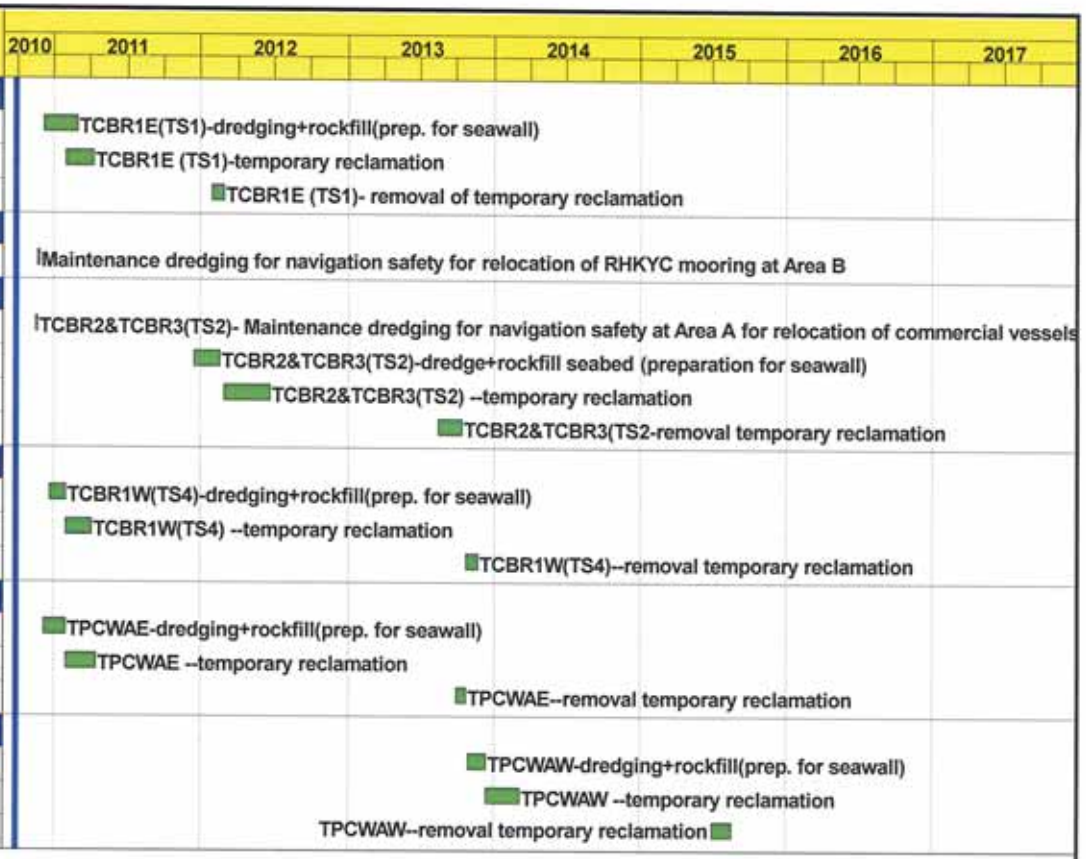
ID	Task Name	Duration	Start
1	**HK/2009/02-Marine & Reclamation Works**	**2008 d**	**Thu 28/1/10**
2	Contract Commencement	0 d	Thu 28/1/10
3	**General**	**1879 d**	**Mon 22/2/10**
4	Submission & obtain approval for marine GI	21 d	Mon 22/2/10
5	Stage 1 Marine GI for reclamation	30 d	Mon 15/3/10
6	Engineer's Design review for Dredging of WCR1, WCR2 & WCR4	30 d	Mon 22/3/10
7	Relocation of New Star Ferry Pier	0 d	Tue 18/3/14
8	Demolition of Existing Star Ferry Pier	100 d	Tue 18/3/14
9	Stage 2 Marine GI for Reclamation	14 d	Tue 18/3/14
10	Engineer's Design review for Dredging of WCR3	21 d	Tue 25/3/14
11	Complete Diversion of Hung Hing Road Traffic Back to Original	20 d	Fri 6/2/15
12	Excavate & remove top of d-wall for permanet seawall construction	50 d	Wed 25/2/15
13	**Submarine Outfall**	**500 d**	**Tue 21/9/10**
14	Dredging, Laying and Backfilling of Submarine Outfall Pipe at Sea	500 d	Tue 21/9/10
15	**Phase 1 - WCR1**	**158 d**	**Wed 21/4/10**
16	Mobilization of plants	1 d	Wed 21/4/10
17	Seabed dredging	63 d	Wed 21/4/10
18	Bedding Filling and Permanent seawall (precast cassion)	60 d	Tue 22/6/10
19	Bulk reclamation	37 d	Fri 20/8/10
20	**Phase 2 - WCR2**	**149 d**	**Thu 1/3/12**
21	Mobilization of plants	1 d	Thu 1/3/12
22	Temp seawall and Seabed dredging	77 d	Thu 1/3/12
23	Bulk reclamation	73 d	Wed 16/5/12
24	**Phase 3 - TWCR4 & WCR4**	**98 d**	**Sat 28/4/12**
25	Mobilization of plants	1 d	Sat 28/4/12
26	Temp Seawall and Seabed dredging	75 d	Sat 28/4/12
27	Bulk & temp reclamation	24 d	Wed 11/7/12
28	**Phase 4 - WCR3**	**294 d**	**Tue 18/3/14**
29	Mobilization of plants	1 d	Tue 18/3/14
30	Seabed dredging for Permanent Seawall	112 d	Tue 18/3/14
31	Backfill and permanent seawall (precast cassion)	108 d	Tue 8/7/14
32	Bulk reclamation	74 d	Fri 24/10/14
33	**Phasee 5 - Construct Permanent Seawall Blocks along curved coastline & Remove TWCR4**	**105 d**	**Wed 15/4/15**
34	Mobilization of plants	1 d	Wed 15/4/15
35	Dredging and Filling for permanent seawall construction	50 d	Wed 15/4/15
36	Construction of Permanent Seawall Blocks for curved coastline	56 d	Wed 3/6/15
37	Remove temp seawall and reinstate the location of TWCR4	30 d	Mon 29/6/15



Project: Reclamation Works Programm
Date: Tue 9/3/10

Task | Summary | Rolled Up Progress | Project Summary
Progress | Rolled Up Task | Split | Group By Summary
Milestone | Rolled Up Milestone | External Tasks | Deadline

Activity ID	Cal ID	Activity Description	Orig Dur	Early Start	Early Finish
TCBR1E (TS1 Area)					
105	1	TCBR1E(TS1)-dredging+rockfill(prep. for seawall)	86	03DEC10*	26FEB11
110	1	TCBR1E (TS1)-temporary reclamation	69	28JAN11*	06APR11
155	1	TCBR1E (TS1)- removal of temporary reclamation	27	30JAN12*	25FEB12
TCBR4					
100	1	Maintenance dredging for navigation safety for	7	20NOV10*	26NOV10
TCBR2 + TCBR3 (TS2 Area)					
115	1	TCBR2&TCBR3(TS2)- Maintenance dredging for	5	15NOV10*	19NOV10
117	1	TCBR2&TCBR3(TS2)-dredge+rockfill seabed	64	16DEC11*	17FEB12
120	1	TCBR2&TCBR3(TS2) --temporary reclamation	115	26FEB12*	19JUN12
160	1	TCBR2&TCBR3(TS2-removal temporary reclamation	57	18AUG13*	13OCT13
TCBR1W (TS4 Area)					
125	1	TCBR1W(TS4)-dredging+rockfill(prep. for seawall)	40	19DEC10*	27JAN11
130	1	TCBR1W(TS4) --temporary reclamation	68	28JAN11	05APR11
165	1	TCBR1W(TS4)--removal temporary reclamation	26	27OCT13*	21NOV13
TPCWAE					
135	1	TPCWAE-dredging+rockfill(prep. for seawall)	55	03DEC10*	26JAN11
140	1	TPCWAE --temporary reclamation	77	27JAN11	13APR11
170	1	TPCWAE--removal temporary reclamation	28	28SEP13*	25OCT13
TPCWAW					
145	1	TPCWAW-dredging+rockfill(prep. for seawall)	47	28OCT13*	13DEC13
150	1	TPCWAW --temporary reclamation	83	14DEC13	06MAR14
175	1	TPCWAW--removal temporary reclamation	50	02JUL15*	20AUG15



Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

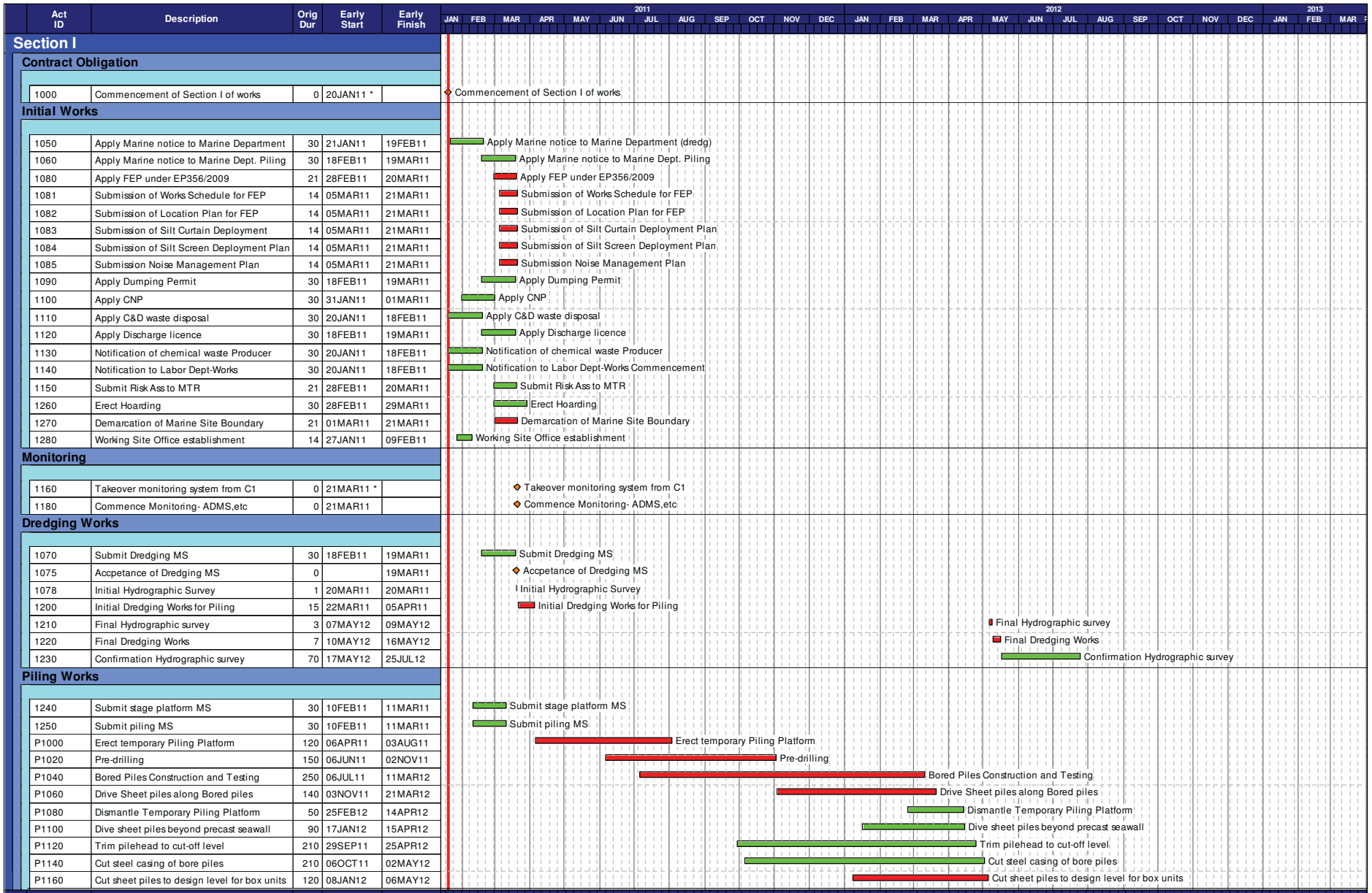
EP02

CHINA STATE CONSTRUCTION ENGG LTD

CONTRACT NO. HY/2009/15: CENTRAL
WAN CHAI BYPASS- TUNNEL (CBTS SECTION)

Prepared based on IWP Rev. 0

Date Prepared: 28 Oct 2010



Start date	20JAN11
Finish date	19DEC12
Data date	20JAN11
Run date	05MAR11
Page number	1A
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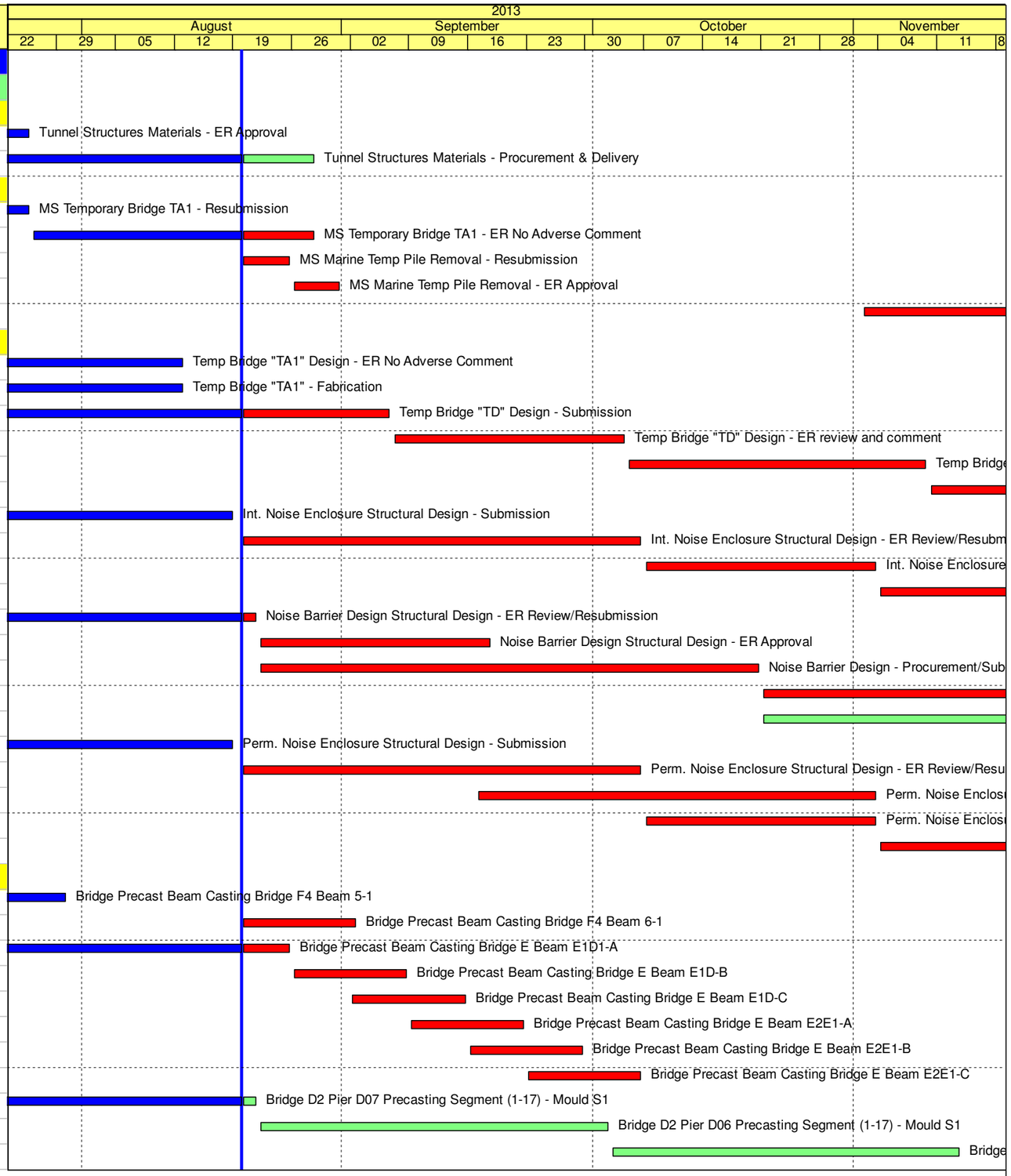
Contract no. HK/2010/06
Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line

GAMMON-LEADER JV

Works Schedule of Marine Works for EP-356/2009

Early bar
Progress bar
Critical bar
Summary bar
Start milestone point
Finish milestone point

Activity ID	Activity Name	Rem Dur	Start	Finish
3MRP - Aug 2013 to Nov 2013				
02 - PRE-CONSTRUCTION WORKS				
02.2 - Contractor's Submission				
0220-1390	Tunnel Structures Materials - ER Approval	0	15-Mar-13 A	25-Jul-13 A
0220-1400	Tunnel Structures Materials - Procurement & Delivery	9	08-Jul-13 A	28-Aug-13
02.3 - Method Statement / Shop Drawings				
0230-1720	MS Temporary Bridge TA1 - Resubmission	0	08-Jul-13 A	25-Jul-13 A
0230-1730	MS Temporary Bridge TA1 - ER No Adverse Comment	9	26-Jul-13 A	28-Aug-13
0230-1920	MS Marine Temp Pile Removal - Resubmission	6	20-Aug-13	25-Aug-13
0230-1930	MS Marine Temp Pile Removal - ER Approval	6	26-Aug-13	31-Aug-13
0230-1420	MS Permanent Noise Barrier - Submission	28	02-Nov-13	29-Nov-13
02.4 - Contractor's Design and Build Items				
0240-1035	Temp Bridge "TA1" Design - ER No Adverse Comment	0	26-Jun-13 A	13-Aug-13 A
0240-1040	Temp Bridge "TA1" - Fabrication	0	26-Jun-13 A	13-Aug-13 A
0240-1041	Temp Bridge "TD" Design - Submission	18	01-Mar-13 A	06-Sep-13
0240-1042	Temp Bridge "TD" Design - ER review and comment	28	07-Sep-13	04-Oct-13
0240-1043	Temp Bridge "TD" Design - Resubmission	36	05-Oct-13	09-Nov-13
0240-1044	Temp Bridge "TD" Design - ER Approval	28	10-Nov-13	07-Dec-13
0240-1105	Int. Noise Enclosure Structural Design - Submission	0	20-Mar-13 A	19-Aug-13 A
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	48	20-Aug-13	06-Oct-13
0240-1112	Int. Noise Enclosure Structural Design - ER Approval	28	07-Oct-13	03-Nov-13
0240-1113	Int. Noise Enclosure Structural Design - Shop Drawings	90	04-Nov-13	01-Feb-14
0240-1127	Noise Barrier Design Structural Design - ER Review/Resubmission	2	30-May-13 A	21-Aug-13
0240-1128	Noise Barrier Design Structural Design - ER Approval	28	22-Aug-13	18-Sep-13
0240-1131	Noise Barrier Design - Procurement/Sub-contractor	60	22-Aug-13	20-Oct-13
0240-1132	Noise Barrier Design - Shop Drawings	90	21-Oct-13	18-Jan-14
0240-1134	Noise Barrier Panel - Design Submission	60	21-Oct-13	19-Dec-13
0240-1150	Perm. Noise Enclosure Structural Design - Submission	0	20-Mar-13 A	19-Aug-13 A
0240-1160	Perm. Noise Enclosure Structural Design - ER Review/Resubmission	48	20-Aug-13	06-Oct-13
0240-1161	Perm. Noise Enclosure Structural Design - Procurement/Sub-contractor	48	17-Sep-13	03-Nov-13
0240-1162	Perm. Noise Enclosure Structural Design - ER Approval	28	07-Oct-13	03-Nov-13
0240-1163	Perm. Noise Enclosure Structural Design - Shop Drawings	90	04-Nov-13	01-Feb-14
02.5 - Bridge Segment/Beam Off-site Precasting				
0250-1700.09	Bridge Precast Beam Casting Bridge F4 Beam 5-1	0	18-Jul-13 A	30-Jul-13 A
0250-1700.10	Bridge Precast Beam Casting Bridge F4 Beam 6-1	14	20-Aug-13	02-Sep-13
0250-1700.11	Bridge Precast Beam Casting Bridge E Beam E1D1-A	6	02-Jul-13 A	25-Aug-13
0250-1700.21	Bridge Precast Beam Casting Bridge E Beam E1D-B	14	26-Aug-13	08-Sep-13
0250-1700.31	Bridge Precast Beam Casting Bridge E Beam E1D-C	14	02-Sep-13	15-Sep-13
0250-1700.41	Bridge Precast Beam Casting Bridge E Beam E2E1-A	14	09-Sep-13	22-Sep-13
0250-1700.51	Bridge Precast Beam Casting Bridge E Beam E2E1-B	14	16-Sep-13	29-Sep-13
0250-1700.61	Bridge Precast Beam Casting Bridge E Beam E2E1-C	14	23-Sep-13	06-Oct-13
0250-1600.12	Bridge D2 Pier D07 Precasting Segment (1-17) - Mould S1	2	29-Jun-13 A	21-Aug-13
0250-1600.13	Bridge D2 Pier D06 Precasting Segment (1-17) - Mould S1	42	22-Aug-13	02-Oct-13
0250-1600.14	Bridge D2 Pier D05 Precasting Segment (1-17) - Mould S1	42	03-Oct-13	13-Nov-13

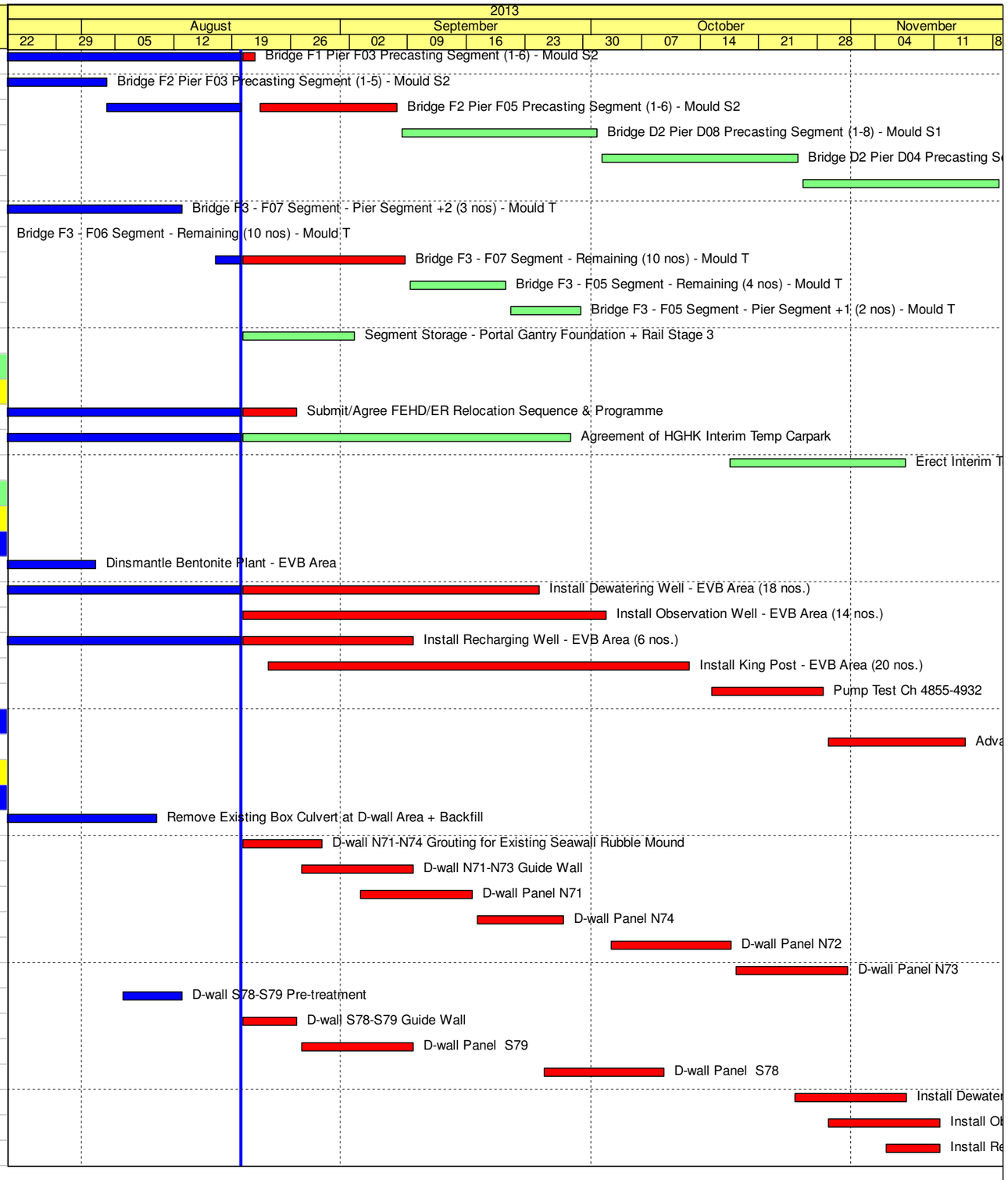


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
0250-1650.04	Bridge F1 Pier F03 Precasting Segment (1-6) - Mould S2	2	07-Jun-13 A	21-Aug-13
0250-1650.05	Bridge F2 Pier F03 Precasting Segment (1-5) - Mould S2	0	30-Jun-13 A	04-Aug-13 A
0250-1650.16	Bridge F2 Pier F05 Precasting Segment (1-6) - Mould S2	17	04-Aug-13 A	07-Sep-13
0250-1650.17	Bridge D2 Pier D08 Precasting Segment (1-8) - Mould S1	24	08-Sep-13	01-Oct-13
0250-1650.18	Bridge D2 Pier D04 Precasting Segment (1-8) - Mould S2	24	02-Oct-13	25-Oct-13
0250-1650.19	Bridge D1 Pier D04 Precasting Segment (1-8) - Mould S2	24	26-Oct-13	18-Nov-13
0250-1655.014	Bridge F3 - F07 Segment - Pier Segment +2 (3 nos) - Mould T	0	13-Jul-13 A	13-Aug-13 A
0250-1655.04	Bridge F3 - F06 Segment - Remaining (10 nos) - Mould T	0	21-Jun-13 A	23-Jul-13 A
0250-1655.024	Bridge F3 - F07 Segment - Remaining (10 nos) - Mould T	20	17-Aug-13 A	08-Sep-13
0250-1655.02	Bridge F3 - F05 Segment - Remaining (4 nos) - Mould T	12	09-Sep-13	20-Sep-13
0250-1655.01	Bridge F3 - F05 Segment - Pier Segment +1 (2 nos) - Mould T	9	21-Sep-13	29-Sep-13
0250-1830	Segment Storage - Portal Gantry Foundation + Rail Stage 3	12	20-Aug-13	02-Sep-13
03 - PRELIMINARY WORKS				
03.3 - Interface Works				
0330-1110	Submit/Agree FEHD/ER Relocation Sequence & Programme	6	19-Mar-13 A	26-Aug-13
0330-1200	Agreement of HGHK Interim Temp Carpark	34	20-Jun-13 A	28-Sep-13
0330-1300	Erect Interim Temp Carpark for HGHK	18	17-Oct-13	07-Nov-13
05 - SECTION 2 & 2A OF THE WORKS				
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)				
05.1.1 - D-Wall Construction				
0511-1088	Dinsmantle Bentonite Plant - EVB Area	0	13-May-13 A	02-Aug-13 A
0511-1090	Install Dewatering Well - EVB Area (18 nos.)	30	27-Jun-13 A	24-Sep-13
0511-1091	Install Observation Well - EVB Area (14 nos.)	36	20-Aug-13	02-Oct-13
0511-1092	Install Recharging Well - EVB Area (6 nos.)	18	03-Jul-13 A	09-Sep-13
0511-1095	Install King Post - EVB Area (20 nos.)	42	23-Aug-13	12-Oct-13
0511-1100	Pump Test Ch 4855-4932	12	15-Oct-13	28-Oct-13
05.1.2 - ELS				
0512-1101	Advance Excav EVB Area 1st Layer + Support	15	29-Oct-13	14-Nov-13
05.2 - Cut & Cover Tunnel Ch 4932-5149				
05.2.1 - D-Wall Construction				
0521-1879	Remove Existing Box Culvert at D-wall Area + Backfill	0	02-Jul-13 A	10-Aug-13 A
0521-1880	D-wall N71-N74 Grouting for Existing Seawall Rubble Mound	9	20-Aug-13	29-Aug-13
0521-1890	D-wall N71-N73 Guide Wall	12	27-Aug-13	09-Sep-13
0521-1900.10	D-wall Panel N71	12	03-Sep-13	16-Sep-13
0521-1900.20	D-wall Panel N74	9	17-Sep-13	27-Sep-13
0521-1900.15	D-wall Panel N72	12	03-Oct-13	17-Oct-13
0521-1900.30	D-wall Panel N73	12	18-Oct-13	31-Oct-13
0521-2140	D-wall S78-S79 Pre-treatment	0	06-Aug-13 A	13-Aug-13 A
0521-2215	D-wall S78-S79 Guide Wall	6	20-Aug-13	26-Aug-13
0521-2145.10	D-wall Panel S79	12	27-Aug-13	09-Sep-13
0521-2145.15	D-wall Panel S78	12	25-Sep-13	09-Oct-13
0521-2165	Install Dewatering Well - Ch 4932-5149 (10 nos.)	12	25-Oct-13	07-Nov-13
0521-2166	Install Observation Well - Ch 4932-5149 (6 nos.)	12	29-Oct-13	11-Nov-13
0521-2167	Install Recharging Well - Ch 4932-5149 (2 nos.)	6	05-Nov-13	11-Nov-13

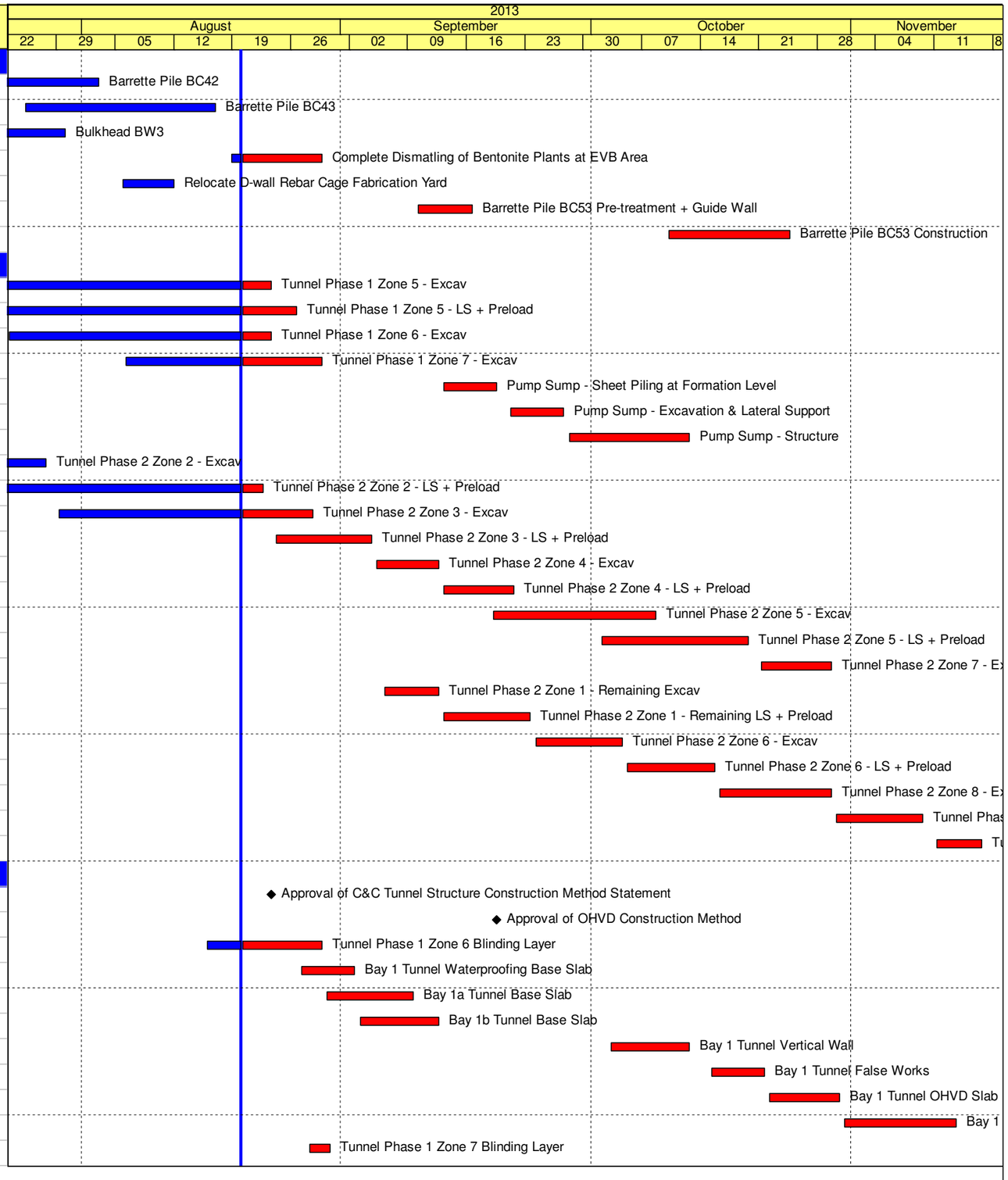


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
05.2.2 - Barrette Construction				
0522-2210.84	Barrette Pile BC42	0	20-Jul-13 A	03-Aug-13 A
0522-2210.88	Barrette Pile BC43	0	25-Jul-13 A	17-Aug-13 A
0522-2390.30	Bulkhead BW3	0	16-Jul-13 A	30-Jul-13 A
0522-2211	Complete Dismatling of Bentonite Plants at EVB Area	9	19-Aug-13 A	29-Aug-13
0522-2212	Relocate D-wall Rebar Cage Fabrication Yard	0	06-Aug-13 A	12-Aug-13 A
0522-2210.72	Barrette Pile BC53 Pre-treatment + Guide Wall	6	10-Sep-13	16-Sep-13
0522-2210.73	Barrette Pile BC53 Construction	12	10-Oct-13	24-Oct-13
05.2.3 - ELS				
0524-2885.1	Tunnel Phase 1 Zone 5 - Excav	4	01-Jun-13 A	23-Aug-13
0524-2885.2	Tunnel Phase 1 Zone 5 - LS + Preload	6	19-Jul-13 A	26-Aug-13
0524-2886	Tunnel Phase 1 Zone 6 - Excav	4	23-Jul-13 A	23-Aug-13
0524-2887	Tunnel Phase 1 Zone 7 - Excav	9	06-Aug-13 A	29-Aug-13
0524-2888	Pump Sump - Sheet Piling at Formation Level	6	13-Sep-13	19-Sep-13
0524-2889	Pump Sump - Excavation & Lateral Support	6	21-Sep-13	27-Sep-13
0524-2890	Pump Sump - Structure	12	28-Sep-13	12-Oct-13
0524-2903	Tunnel Phase 2 Zone 2 - Excav	0	08-Apr-13 A	27-Jul-13 A
0524-2904	Tunnel Phase 2 Zone 2 - LS + Preload	3	15-Apr-13 A	22-Aug-13
0524-2905	Tunnel Phase 2 Zone 3 - Excav	8	29-Jul-13 A	28-Aug-13
0524-2915	Tunnel Phase 2 Zone 3 - LS + Preload	10	24-Aug-13	04-Sep-13
0524-2925	Tunnel Phase 2 Zone 4 - Excav	7	05-Sep-13	12-Sep-13
0524-2935	Tunnel Phase 2 Zone 4 - LS + Preload	7	13-Sep-13	21-Sep-13
0524-2945	Tunnel Phase 2 Zone 5 - Excav	15	19-Sep-13	08-Oct-13
0524-2955	Tunnel Phase 2 Zone 5 - LS + Preload	15	02-Oct-13	19-Oct-13
0524-2980	Tunnel Phase 2 Zone 7 - Excav	8	21-Oct-13	29-Oct-13
0524-2961	Tunnel Phase 2 Zone 1 - Remaining Excav	6	06-Sep-13	12-Sep-13
0524-2963	Tunnel Phase 2 Zone 1 - Remaining LS + Preload	8	13-Sep-13	23-Sep-13
0524-2965	Tunnel Phase 2 Zone 6 - Excav	9	24-Sep-13	04-Oct-13
0524-2975	Tunnel Phase 2 Zone 6 - LS + Preload	8	05-Oct-13	15-Oct-13
0524-2985	Tunnel Phase 2 Zone 8 - Excav	12	16-Oct-13	29-Oct-13
0524-3000	Tunnel Phase 2 Zone 8 - Lateral Support	10	30-Oct-13	09-Nov-13
0524-3005	Tunnel Phase 2 Zone 9 - Excav	6	11-Nov-13	16-Nov-13
05.2.4 - Tunnel Structure				
0524-2537	Approval of C&C Tunnel Structure Construction Method Statement	0		23-Aug-13
0524-2536	Approval of OHVD Construction Method	0		19-Sep-13
0524-2541	Tunnel Phase 1 Zone 6 Blinding Layer	9	16-Aug-13 A	29-Aug-13
0524-2551	Bay 1 Tunnel Waterproofing Base Slab	6	27-Aug-13	02-Sep-13
0524-2570	Bay 1a Tunnel Base Slab	9	30-Aug-13	09-Sep-13
0524-2572	Bay 1b Tunnel Base Slab	9	03-Sep-13	12-Sep-13
0524-3015	Bay 1 Tunnel Vertical Wall	9	03-Oct-13	12-Oct-13
0524-3025	Bay 1 Tunnel False Works	6	15-Oct-13	21-Oct-13
0524-3035	Bay 1 Tunnel OHVD Slab	8	22-Oct-13	30-Oct-13
0524-3045	Bay 1 Tunnel Roof Slab	12	31-Oct-13	13-Nov-13
0524-2542	Tunnel Phase 1 Zone 7 Blinding Layer	3	28-Aug-13	30-Aug-13

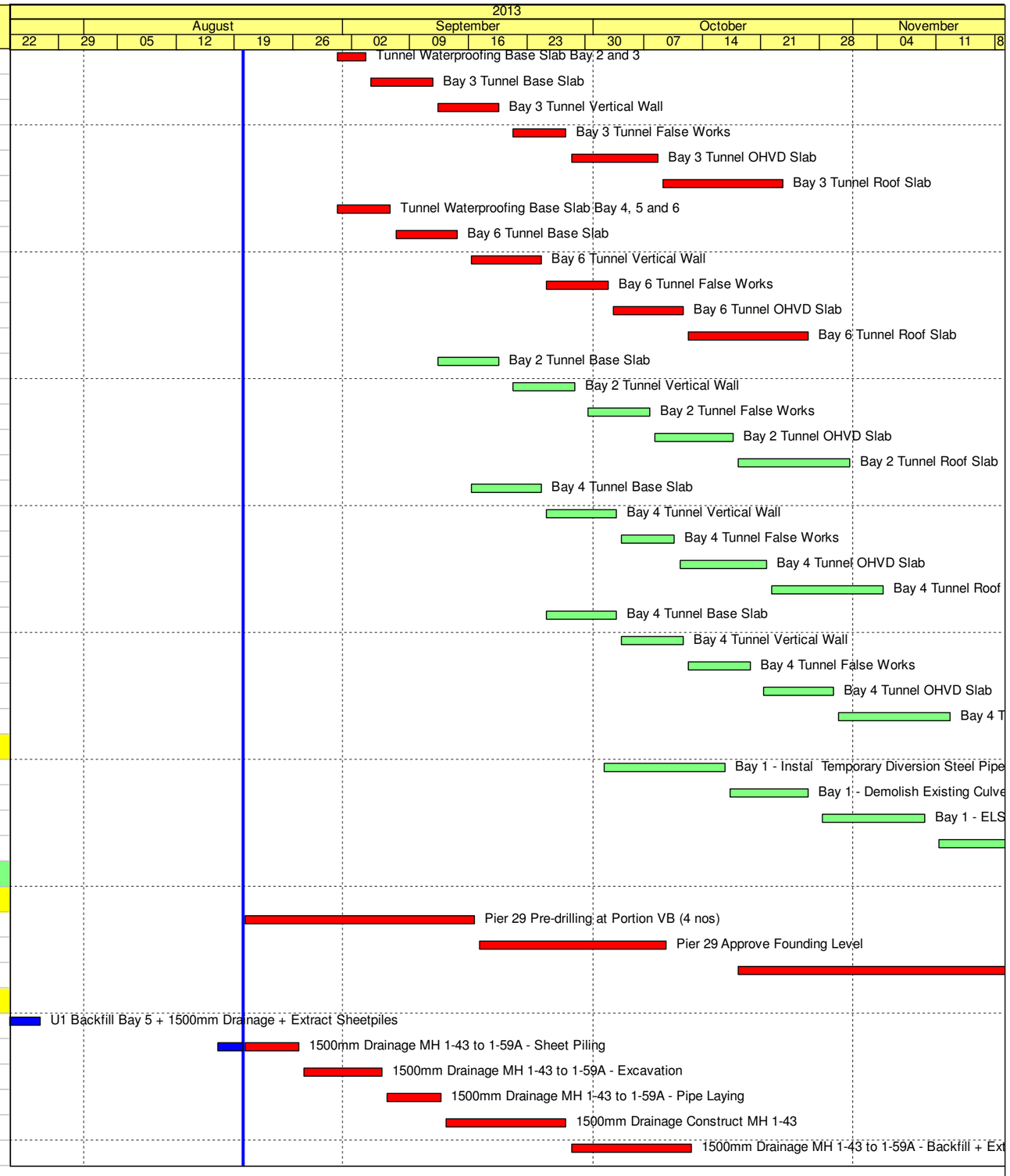


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
0524-2552	Tunnel Waterproofing Base Slab Bay 2 and 3	3	31-Aug-13	03-Sep-13
0524-3055	Bay 3 Tunnel Base Slab	7	04-Sep-13	11-Sep-13
0524-3065	Bay 3 Tunnel Vertical Wall	7	12-Sep-13	19-Sep-13
0524-3075	Bay 3 Tunnel False Works	6	21-Sep-13	27-Sep-13
0524-3085	Bay 3 Tunnel OHVD Slab	8	28-Sep-13	08-Oct-13
0524-3095	Bay 3 Tunnel Roof Slab	12	09-Oct-13	23-Oct-13
0524-2553	Tunnel Waterproofing Base Slab Bay 4, 5 and 6	6	31-Aug-13	06-Sep-13
0524-3155	Bay 6 Tunnel Base Slab	7	07-Sep-13	14-Sep-13
0524-3165	Bay 6 Tunnel Vertical Wall	7	16-Sep-13	24-Sep-13
0524-3175	Bay 6 Tunnel False Works	6	25-Sep-13	02-Oct-13
0524-3185	Bay 6 Tunnel OHVD Slab	8	03-Oct-13	11-Oct-13
0524-3195	Bay 6 Tunnel Roof Slab	12	12-Oct-13	26-Oct-13
0524-3105	Bay 2 Tunnel Base Slab	7	12-Sep-13	19-Sep-13
0524-3115	Bay 2 Tunnel Vertical Wall	7	21-Sep-13	28-Sep-13
0524-3125	Bay 2 Tunnel False Works	6	30-Sep-13	07-Oct-13
0524-3135	Bay 2 Tunnel OHVD Slab	8	08-Oct-13	17-Oct-13
0524-3145	Bay 2 Tunnel Roof Slab	12	18-Oct-13	31-Oct-13
0524-3205	Bay 4 Tunnel Base Slab	7	16-Sep-13	24-Sep-13
0524-3215	Bay 4 Tunnel Vertical Wall	7	25-Sep-13	03-Oct-13
0524-3225	Bay 4 Tunnel False Works	6	04-Oct-13	10-Oct-13
0524-3235	Bay 4 Tunnel OHVD Slab	8	11-Oct-13	21-Oct-13
0524-3245	Bay 4 Tunnel Roof Slab	12	22-Oct-13	04-Nov-13
0524-3255	Bay 4 Tunnel Base Slab	7	25-Sep-13	03-Oct-13
0524-3265	Bay 4 Tunnel Vertical Wall	7	04-Oct-13	11-Oct-13
0524-3275	Bay 4 Tunnel False Works	6	12-Oct-13	19-Oct-13
0524-3285	Bay 4 Tunnel OHVD Slab	8	21-Oct-13	29-Oct-13
0524-3295	Bay 4 Tunnel Roof Slab	12	30-Oct-13	12-Nov-13
05.3 - Box Culvert T1				
0530-3086	Bay 1 - Instal Temporary Diversion Steel Pipe	12	02-Oct-13*	16-Oct-13
0530-3408	Bay 1 - Demolish Existing Culvert	9	17-Oct-13	26-Oct-13
0530-3078	Bay 1 - ELS	12	28-Oct-13	09-Nov-13
0530-3079	Bay 1 - Base Slab Outside Existing	9	11-Nov-13	20-Nov-13
06 - SECTION 3 OF THE WORKS				
06.1 - Westbound - Pier 29-34				
0610-2110	Pier 29 Pre-drilling at Portion VB (4 nos)	24	20-Aug-13	16-Sep-13
0610-2115	Pier 29 Approve Founding Level	18	17-Sep-13	09-Oct-13
0610-2120	Pier 29 Bored Piles (4 nos)	48	18-Oct-13	12-Dec-13
06.2 - Box Culvert U1				
0620-2445	U1 Backfill Bay 5 + 1500mm Drainage + Extract Sheetpiles	0	25-Jun-13 A	26-Jul-13 A
0620-2570	1500mm Drainage MH 1-43 to 1-59A - Sheet Piling	6	17-Aug-13 A	26-Aug-13
0620-2580	1500mm Drainage MH 1-43 to 1-59A - Excavation	9	27-Aug-13	05-Sep-13
0620-2590	1500mm Drainage MH 1-43 to 1-59A - Pipe Laying	6	06-Sep-13	12-Sep-13
0620-2600	1500mm Drainage Construct MH 1-43	12	13-Sep-13	27-Sep-13
0620-2610	1500mm Drainage MH 1-43 to 1-59A - Backfill + Extract Sheet Pile	12	28-Sep-13	12-Oct-13



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

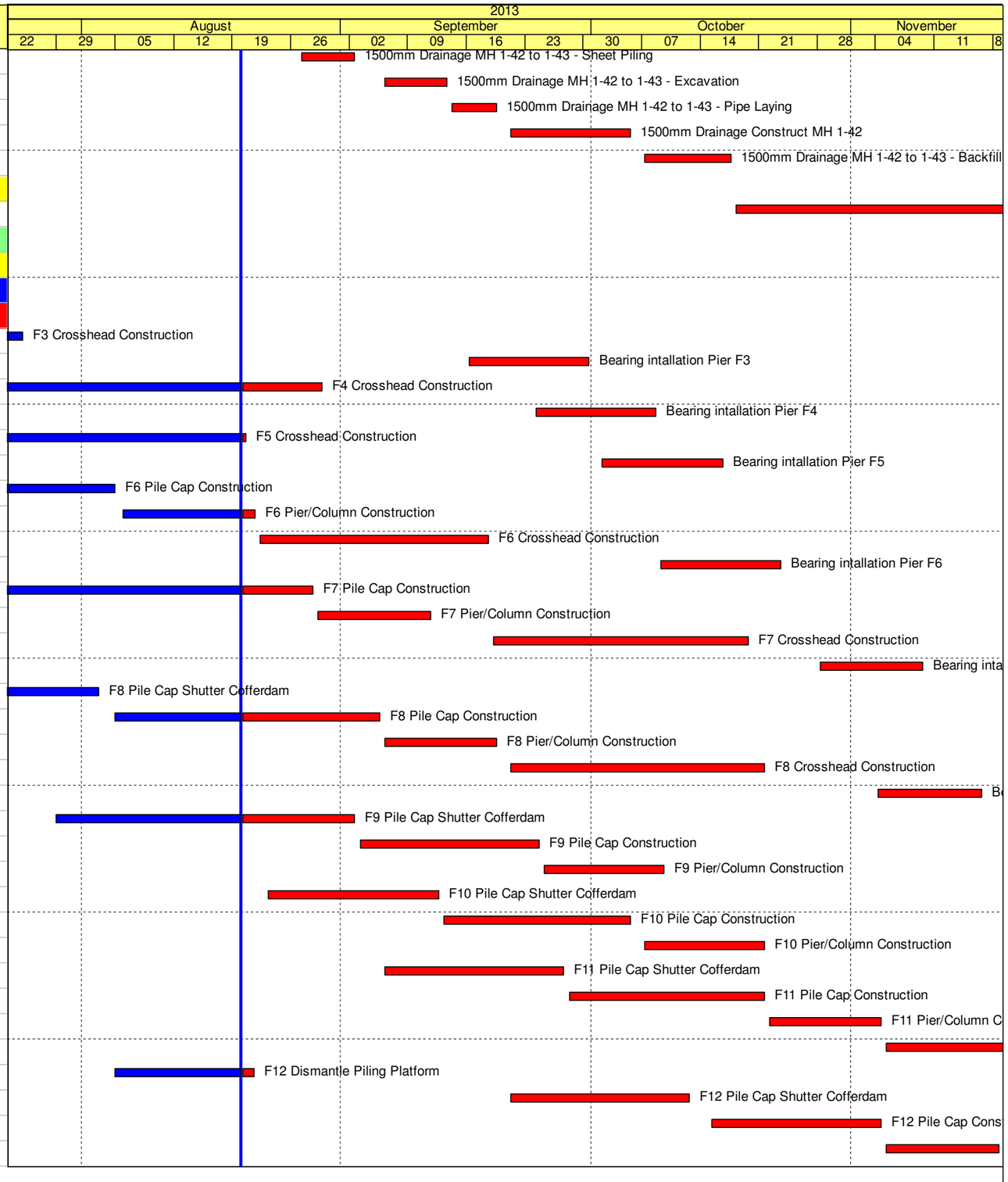
Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

3MRP

3MRP - Aug 2013 to Nov 2013

Activity ID	Activity Name	Rem Dur	Start	Finish
0620-2620	1500mm Drainage MH 1-42 to 1-43 - Sheet Piling	6	27-Aug-13	02-Sep-13
0620-2630	1500mm Drainage MH 1-42 to 1-43 - Excavation	7	06-Sep-13	13-Sep-13
0620-2640	1500mm Drainage MH 1-42 to 1-43 - Pipe Laying	5	14-Sep-13	19-Sep-13
0620-2650	1500mm Drainage Construct MH 1-42	12	21-Sep-13	05-Oct-13
0620-2660	1500mm Drainage MH 1-42 to 1-43 - Backfill + Extract Sheet Pile	9	07-Oct-13	17-Oct-13
06.3 - Admin Building				
0630-3100	Predrill for Adm Building (55 no) (4 set)	54	18-Oct-13	19-Dec-13
10 - SECTION X OF THE WORKS				
10.1 - E/B Bridges (Bridge D, E and F)				
10.1.1 - Marine Pier Construction				
Pier F03 to F15				
1011-2170	F3 Crosshead Construction	0	01-Jun-13 A	25-Jul-13 A
1011-2175	Bearing intallation Pier F3	12	16-Sep-13*	30-Sep-13
1011-2200	F4 Crosshead Construction	9	18-Jun-13 A	29-Aug-13
1011-2205	Bearing intallation Pier F4	12	24-Sep-13	08-Oct-13
1011-2230	F5 Crosshead Construction	1	13-May-13 A	20-Aug-13
1011-2235	Bearing intallation Pier F5	12	02-Oct-13	16-Oct-13
1011-2245	F6 Pile Cap Construction	0	13-May-13 A	05-Aug-13 A
1011-2250	F6 Pier/Column Construction	2	06-Aug-13 A	21-Aug-13
1011-2260	F6 Crosshead Construction	24	22-Aug-13	18-Sep-13
1011-2261	Bearing intallation Pier F6	12	09-Oct-13	23-Oct-13
1011-2275	F7 Pile Cap Construction	8	20-Jun-13 A	28-Aug-13
1011-2280	F7 Pier/Column Construction	12	29-Aug-13	11-Sep-13
1011-2290	F7 Crosshead Construction	24	19-Sep-13	19-Oct-13
1011-2291	Bearing intallation Pier F7	12	28-Oct-13	09-Nov-13
1011-2300	F8 Pile Cap Shutter Cofferdam	0	10-Jun-13 A	03-Aug-13 A
1011-2305	F8 Pile Cap Construction	15	05-Aug-13 A	05-Sep-13
1011-2310	F8 Pier/Column Construction	12	06-Sep-13	19-Sep-13
1011-2320	F8 Crosshead Construction	24	21-Sep-13	21-Oct-13
1011-2345	Bearing intallation Pier F8	12	04-Nov-13	16-Nov-13
1011-2380	F9 Pile Cap Shutter Cofferdam	12	29-Jul-13 A	02-Sep-13
1011-3115	F9 Pile Cap Construction	18	03-Sep-13	24-Sep-13
1011-2390	F9 Pier/Column Construction	12	25-Sep-13	09-Oct-13
1011-2410	F10 Pile Cap Shutter Cofferdam	18	23-Aug-13	12-Sep-13
1011-3125	F10 Pile Cap Construction	18	13-Sep-13	05-Oct-13
1011-2420	F10 Pier/Column Construction	12	07-Oct-13	21-Oct-13
1011-2350	F11 Pile Cap Shutter Cofferdam	18	06-Sep-13	27-Sep-13
1011-3135	F11 Pile Cap Construction	18	28-Sep-13	21-Oct-13
1011-2360	F11 Pier/Column Construction	12	22-Oct-13	04-Nov-13
1011-2370	F11 Crosshead Construction	24	05-Nov-13	02-Dec-13
1011-2075	F12 Dismantle Piling Platform	2	05-Aug-13 A	21-Aug-13
1011-2440	F12 Pile Cap Shutter Cofferdam	18	21-Sep-13*	12-Oct-13
1011-3145	F12 Pile Cap Construction	18	15-Oct-13*	04-Nov-13
1011-2450	F12 Pier/Column Construction	12	05-Nov-13	18-Nov-13

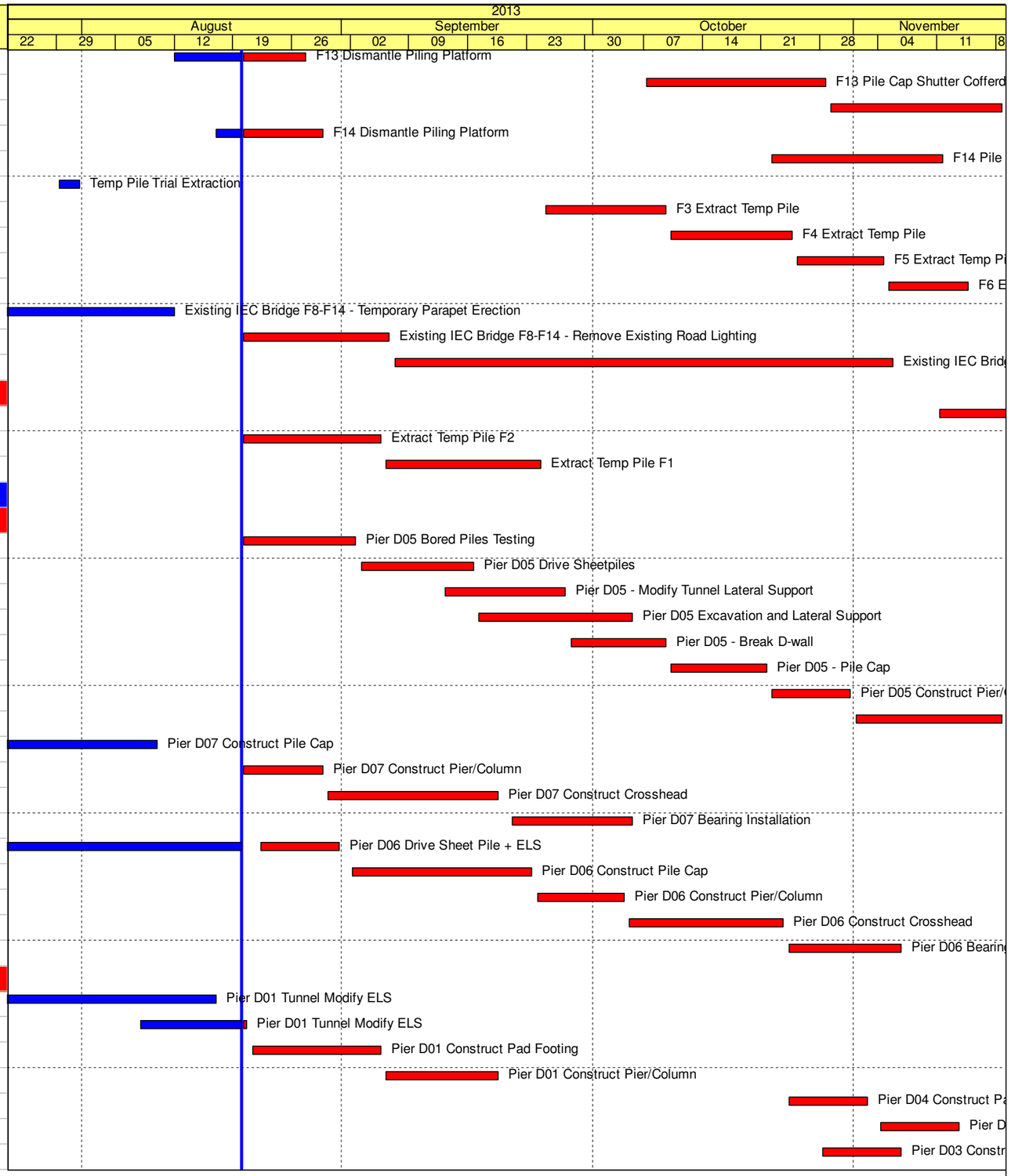


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
1011-2080	F13 Dismantle Piling Platform	7	12-Aug-13 A	27-Aug-13
1011-2470	F13 Pile Cap Shutter Cofferdam	18	07-Oct-13	28-Oct-13
1011-3155	F13 Pile Cap Construction	18	29-Oct-13	18-Nov-13
1011-2085	F14 Dismantle Piling Platform	9	17-Aug-13 A	29-Aug-13
1011-2500	F14 Pile Cap Shutter Cofferdam	18	22-Oct-13*	11-Nov-13
1011-2295	Temp Pile Trial Extraction	0	29-Jul-13 A	31-Jul-13 A
1011-2975	F3 Extract Temp Pile	12	25-Sep-13	09-Oct-13
1011-2985	F4 Extract Temp Pile	12	10-Oct-13	24-Oct-13
1011-3105	F5 Extract Temp Pile	9	25-Oct-13	04-Nov-13
1011-2265	F6 Extract Temp Pile	9	05-Nov-13	14-Nov-13
1011-3085	Existing IEC Bridge F8-F14 - Temporary Parapet Erection	0	05-Jul-13 A	12-Aug-13 A
1011-3075	Existing IEC Bridge F8-F14 - Remove Existing Road Lighting	18	20-Aug-13	06-Sep-13
1011-3095	Existing IEC Bridge F8-F14 - Demolish Existing Parapet	60	07-Sep-13	05-Nov-13
Pier F01 to F02				
1011-2890	F1B Pile Cap Shutter Cofferdam	18	11-Nov-13*	30-Nov-13
1011-2963	Extract Temp Pile F2	15	20-Aug-13	05-Sep-13
1011-2965	Extract Temp Pile F1	15	06-Sep-13	24-Sep-13
10.1.2 - Land Pier Construction				
Pier D05 to D07				
1012-1300	Pier D05 Bored Piles Testing	12	20-Aug-13	02-Sep-13
1012-1495	Pier D05 Drive Sheetpiles	12	03-Sep-13	16-Sep-13
1012-1590	Pier D05 - Modify Tunnel Lateral Support	12	13-Sep-13	27-Sep-13
1012-1500	Pier D05 Excavation and Lateral Support	15	17-Sep-13	05-Oct-13
1012-1600	Pier D05 - Break D-wall	9	28-Sep-13	09-Oct-13
1012-1610	Pier D05 - Pile Cap	9	10-Oct-13	21-Oct-13
1012-1620	Pier D05 Construct Pier/Column	9	22-Oct-13	31-Oct-13
1012-1630	Pier D05 Construct Crosshead	15	01-Nov-13	18-Nov-13
1012-1340	Pier D07 Construct Pile Cap	0	08-Jul-13 A	10-Aug-13 A
1012-1350	Pier D07 Construct Pier/Column	9	20-Aug-13	29-Aug-13
1012-1360	Pier D07 Construct Crosshead	18	30-Aug-13	19-Sep-13
1012-1365	Pier D07 Bearing Installation	12	21-Sep-13	05-Oct-13
1012-1305	Pier D06 Drive Sheet Pile + ELS	9	08-Jul-13 A	31-Aug-13
1012-1310	Pier D06 Construct Pile Cap	18	02-Sep-13	23-Sep-13
1012-1320	Pier D06 Construct Pier/Column	9	24-Sep-13	04-Oct-13
1012-1330	Pier D06 Construct Crosshead	15	05-Oct-13	23-Oct-13
1012-1370	Pier D06 Bearing Installation	12	24-Oct-13	06-Nov-13
Pier D01 to D04				
1012-1375	Pier D01 Tunnel Modify ELS	0	15-Jul-13 A	17-Aug-13 A
1012-1378	Pier D01 Tunnel Modify ELS	1	08-Aug-13 A	20-Aug-13
1012-1380	Pier D01 Construct Pad Footing	14	21-Aug-13	05-Sep-13
1012-1390	Pier D01 Construct Pier/Column	12	06-Sep-13	19-Sep-13
1012-1470	Pier D04 Construct Pad Footing	9	24-Oct-13	02-Nov-13
1012-1480	Pier D04 Construct Pier/Column	9	04-Nov-13	13-Nov-13
1012-1440	Pier D03 Construct Pad Footing	9	28-Oct-13	06-Nov-13

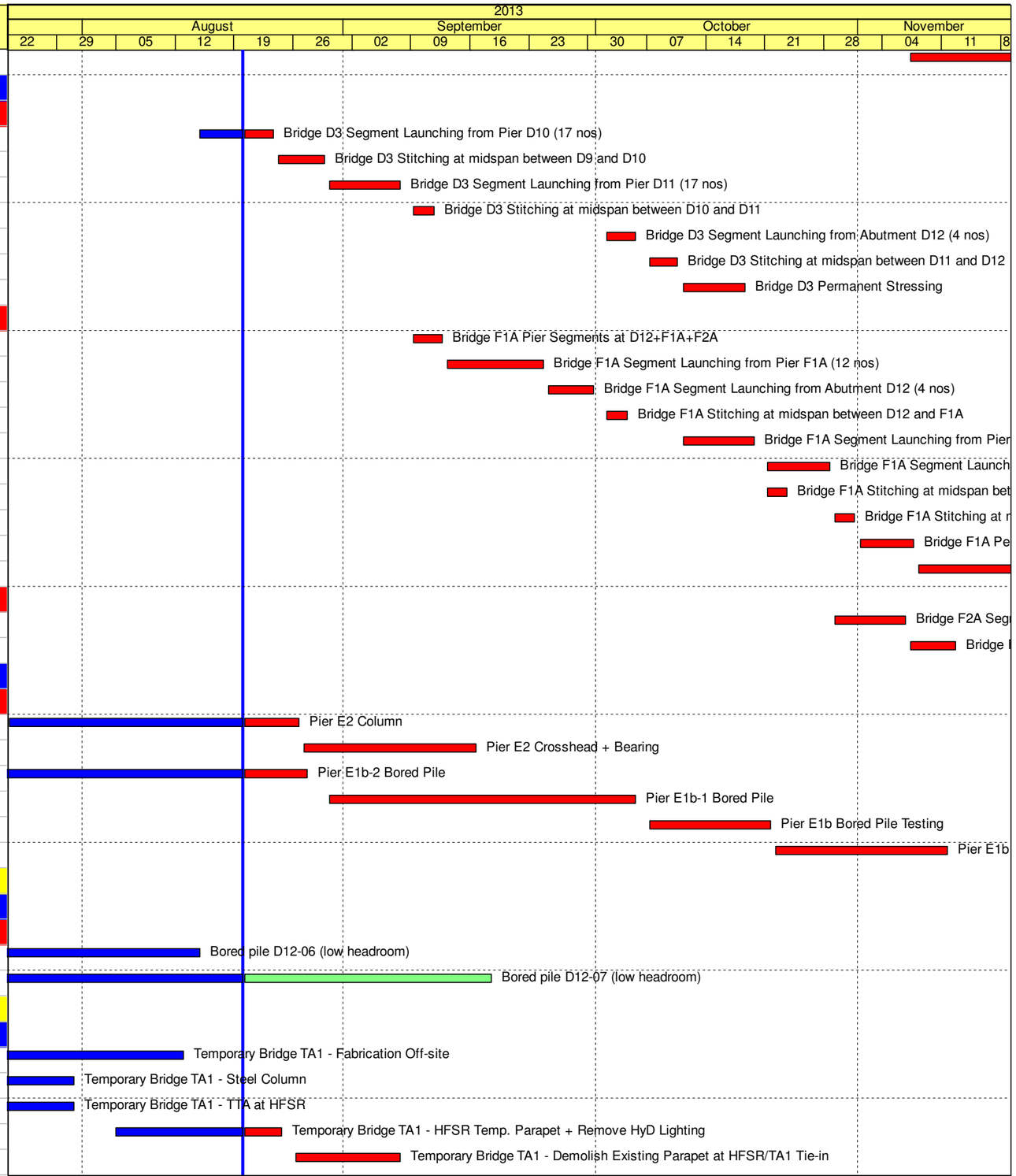


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

Activity ID	Activity Name	Rem Dur	Start	Finish
1012-1450	Pier D03 Construct Pier/Column	12	07-Nov-13	20-Nov-13
10.1.3 - E/B Bridge Construction				
Bridge D3				
1013-1060	Bridge D3 Segment Launching from Pier D10 (17 nos)	4	15-Aug-13 A	23-Aug-13
1013-1100	Bridge D3 Stitching at midspan between D9 and D10	5	24-Aug-13	29-Aug-13
1013-1070	Bridge D3 Segment Launching from Pier D11 (17 nos)	8	30-Aug-13	07-Sep-13
1013-1110	Bridge D3 Stitching at midspan between D10 and D11	3	09-Sep-13	11-Sep-13
1013-1080	Bridge D3 Segment Launching from Abutment D12 (4 nos)	4	02-Oct-13	05-Oct-13
1013-1120	Bridge D3 Stitching at midspan between D11 and D12	4	07-Oct-13	10-Oct-13
1013-1130	Bridge D3 Permanent Stressing	6	11-Oct-13	18-Oct-13
Bridge F1A				
1013-1155	Bridge F1A Pier Segments at D12+F1A+F2A	4	09-Sep-13	12-Sep-13
1013-1170	Bridge F1A Segment Launching from Pier F1A (12 nos)	9	13-Sep-13	24-Sep-13
1013-1160	Bridge F1A Segment Launching from Abutment D12 (4 nos)	5	25-Sep-13	30-Sep-13
1013-1200	Bridge F1A Stitching at midspan between D12 and F1A	3	02-Oct-13	04-Oct-13
1013-1180	Bridge F1A Segment Launching from Pier F2A (11 nos)	7	11-Oct-13	19-Oct-13
1013-1190	Bridge F1A Segment Launching from Pier F3 (6 nos)	7	21-Oct-13	28-Oct-13
1013-1210	Bridge F1A Stitching at midspan between F1A and F2A	3	21-Oct-13	23-Oct-13
1013-1220	Bridge F1A Stitching at midspan between F2A and F3	3	29-Oct-13	31-Oct-13
1013-1230	Bridge F1A Permanent Stressing	6	01-Nov-13	07-Nov-13
1013-1240	Bridge F1A Construct Parapet (111/6m - 4sets @ 2d)	28	08-Nov-13	10-Dec-13
Bridge F2A				
1013-1270	Bridge F2A Segment Launching from Pier F4 (13 nos)	8	29-Oct-13	06-Nov-13
1013-1260	Bridge F2A Segment Launching from Pier F3 (5 nos)	5	07-Nov-13	12-Nov-13
10.1.4 - Bridge E / Hing Fat Slip Road				
Pier Construction				
1014-1086	Pier E2 Column	6	23-Jul-13 A	26-Aug-13
1014-1087	Pier E2 Crosshead + Bearing	18	27-Aug-13	16-Sep-13
1014-1230	Pier E1b-2 Bored Pile	7	24-Jun-13 A	27-Aug-13
1014-1240	Pier E1b-1 Bored Pile	30	30-Aug-13	05-Oct-13
1014-1020	Pier E1b Bored Pile Testing	12	07-Oct-13	21-Oct-13
1014-1030	Pier E1b Construct Cap & Pier	18	22-Oct-13	11-Nov-13
10.3 - Middle Bridge (Bridge F)				
10.3.1 - Pier Construction				
Abutment D12				
1031-1380	Bored pile D12-06 (low headroom)	0	04-Jun-13 A	15-Aug-13 A
1031-1400	Bored pile D12-07 (low headroom)	26	30-May-13 A	18-Sep-13
10.5 - Temporary Bridge				
10.5.1 - Temporary Bridge 'TA'				
1051-1009	Temporary Bridge TA1 - Fabrication Off-site	0	20-May-13 A	13-Aug-13 A
1051-1012	Temporary Bridge TA1 - Steel Column	0	22-Jul-13 A	31-Jul-13 A
1051-1013	Temporary Bridge TA1 - TTA at HFSR	0	22-Jul-13 A	31-Jul-13 A
1051-1014	Temporary Bridge TA1 - HFSR Temp. Parapet + Remove HyD Lighting	5	05-Aug-13 A	24-Aug-13
1051-1015	Temporary Bridge TA1 - Demolish Existing Parapet at HFSR/TA1 Tie-in	12	26-Aug-13	07-Sep-13

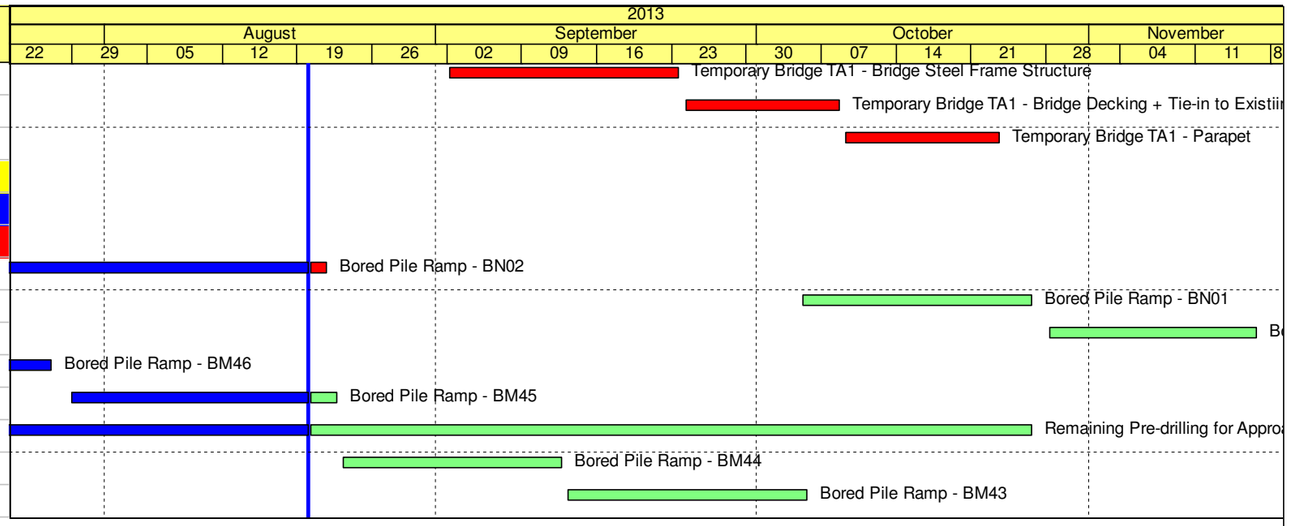


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Aug 2013 to 19 Nov 2013)

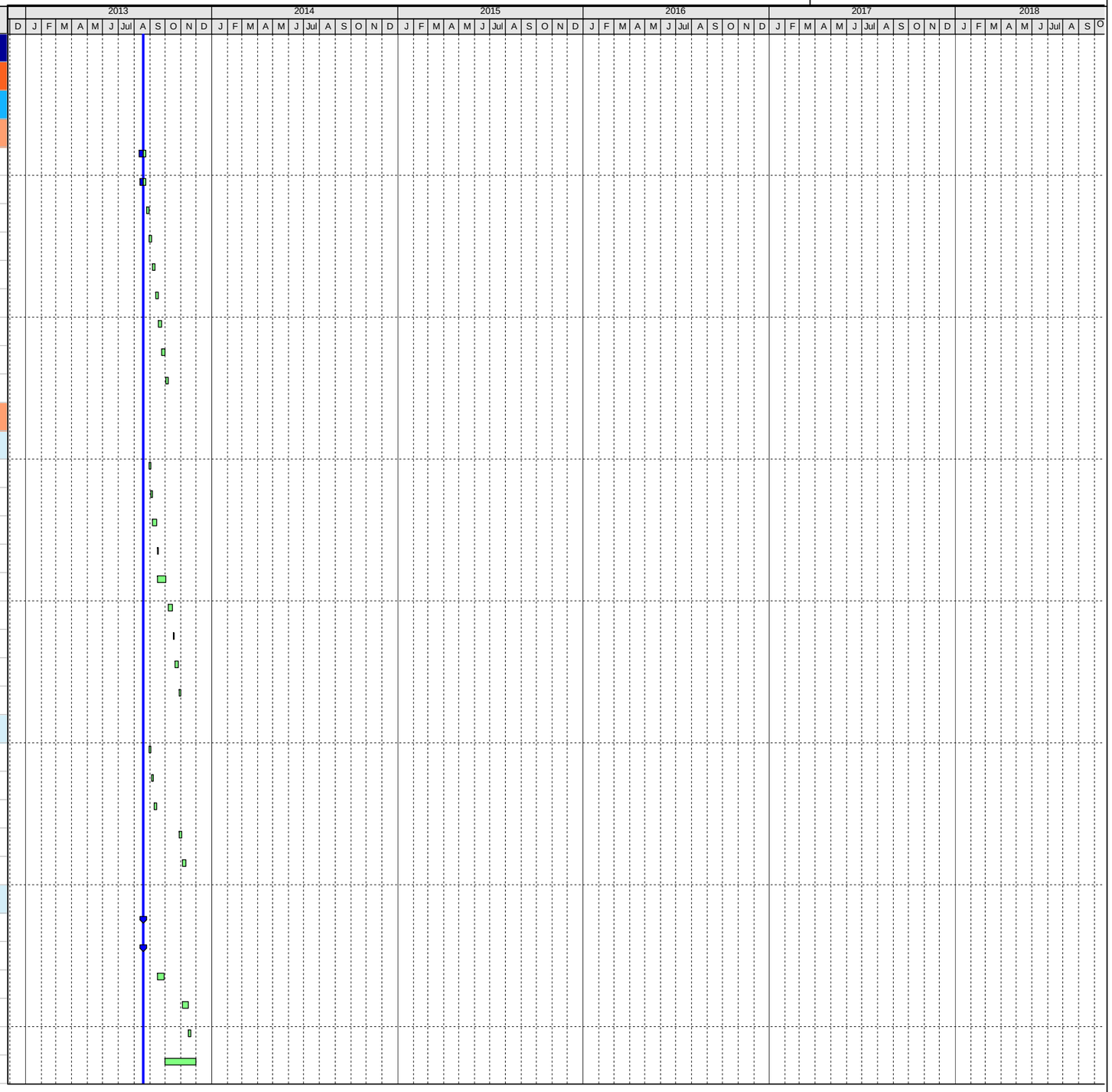
Activity ID	Activity Name	Rem Dur	Start	Finish
1051-1016	Temporary Bridge TA1 - Bridge Steel Frame Structure	18	02-Sep-13	23-Sep-13
1051-1017	Temporary Bridge TA1 - Bridge Decking + Tie-in to Existiing HFSR	12	24-Sep-13	08-Oct-13
1051-1018	Temporary Bridge TA1 - Parapet	12	09-Oct-13	23-Oct-13
10.6 - Tunnel Approach Ramp				
10.6.1 - Approach Ramp (Excluding Portion IIB)				
Bored Piles				
1061-1570	Bored Pile Ramp - BN02	2	16-Jul-13 A	21-Aug-13
1061-1580	Bored Pile Ramp - BN01	18	05-Oct-13	26-Oct-13
1061-1590	Bored Pile Ramp - BN013	18	28-Oct-13	16-Nov-13
1061-1630	Bored Pile Ramp - BM46	0	12-Jul-13 A	27-Jul-13 A
1061-1640	Bored Pile Ramp - BM45	3	29-Jul-13 A	22-Aug-13
1061-1670	Remaining Pre-drilling for Approach Ramp Bored Piles	56	19-Jul-13 A	26-Oct-13
1061-1650	Bored Pile Ramp - BM44	18	23-Aug-13	12-Sep-13
1061-1660	Bored Pile Ramp - BM43	18	13-Sep-13	05-Oct-13



中國建築-利達聯營
CHINA STATE - LEADER JOINT VENTURE

CEDD Contract No. HK/2012/08
Wan Chai Development Phase II
Central - Wan Chai Bypass at Wan Chai West

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
HK/2012/08 Reviewed Works Programme - (Conforming) - Rev.0/1 23 Aug 2013				
Dredging and Reclamation				
Marine Work Construction				
Area C - Demolish Expo Drive West Bridge				
MAR12840	Area C - Expo Drive - saw cut and remove (Bay 3)	5	11-Aug-13 A	24-Aug-13
MAR13220	Area C - Expo Drive - saw cut and remove (Bay 4)	5	13-Aug-13 A	24-Aug-13
MAR13240	Area C - Expo Drive - saw cut and remove (Bay 5)	5	26-Aug-13	30-Aug-13
MAR13260	Area C - Expo Drive - saw cut and remove (Bay 6)	5	31-Aug-13	05-Sep-13
MAR13280	Area C - Expo Drive - saw cut and remove (Bay 7)	5	06-Sep-13	11-Sep-13
MAR13440	Area C - Expo Drive - saw cut and remove (Bay 8)	5	12-Sep-13	17-Sep-13
MAR13480	Area C - Expo Drive - saw cut and remove (Bay 9)	5	18-Sep-13	24-Sep-13
MAR13500	Area C - Expo Drive - saw cut and remove (Bay 10)	5	25-Sep-13	30-Sep-13
MAR13520	Area C - Expo Drive - saw cut and remove ((Bay 11)	5	02-Oct-13	07-Oct-13
Dredging				
Dredging - Zone C				
MAR11340	Zone C - Dredging [R6, R7] (25m control zone / temp seawall)	3	30-Aug-13	02-Sep-13
MAR11350	Zone C - Dredging [R3-R5] (25m control zone)	4	03-Sep-13	06-Sep-13
MAR11360	Zone C - remove existing rock armour [S7-S8] (temp seawall)	7	07-Sep-13	14-Sep-13
MAR11380	Zone C - Final Hydrographic Survey (temp seawall)	3	16-Sep-13	18-Sep-13
MAR11410	Zone C - Dredging [S3-S6, T4-T5]	13	16-Sep-13	02-Oct-13
MAR11460	Zone C - remove exiisting rock armour [T6-T7, U6-U7] (bridge area)	7	08-Oct-13	16-Oct-13
MAR11480	Zone C - Dredging [U4-U7] (bridge area)	3	17-Oct-13	19-Oct-13
MAR11500	Zone C - Dredging [T4-T7] (bridge area)	6	21-Oct-13	26-Oct-13
MAR11580	Zone C - Final Hydrographic Sruvey (bridge area)	4	28-Oct-13	31-Oct-13
Dredging - Zone B				
MAR10900	Zone B - dredging [Q6-Q8] (25m control zone / seawall)	4	30-Aug-13	03-Sep-13
MAR10910	Zone B - dredging [Q2-Q5] (25m control zone)	4	04-Sep-13	07-Sep-13
MAR10920	Zone B - dredging [P6-P8] (seawall)	6	09-Sep-13	14-Sep-13
MAR12100	Zone B - dredging [P2-P5]	6	28-Oct-13	02-Nov-13
MAR12140	Zone B - Final Hydrographic Sruvey	7	04-Nov-13	11-Nov-13
Dredging - Zone A2				
MAR10120	Zone A2 - Complete discommissioning of Submarine Sewage Outfall (conforming by others)	0		20-Aug-13
MAR10140	Zone A2 - Complete discommissioning of Cross Harbour Watermains (conforming by others)	0		20-Aug-13
MAR10160	Zone A2 - dredging [L6-L8, M6-M8] (seawall)	11	16-Sep-13	28-Sep-13
MAR10200	Zone A2 - dredging [M1-M5]	11	04-Nov-13	15-Nov-13
MAR12440	Zone A2 - dredging [L0-L5]	5	16-Nov-13	21-Nov-13
MAR12460	Zone A2 - abandon / remove existing submarine sewage outfall [L2-L5]	52	30-Sep-13	30-Nov-13



Data Date:
20-Aug-13

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

3 Months Rolling Programme for Area Outside Zone CRIII

Date	Revision	Checked	Approved
29-Aug-13	Rev. 0/1		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish
MAR12480	Zone A2 - abandon / remove cross harbour watermains [M2-M8]	52	30-Sep-13	30-Nov-13
MAR12500	Zone A2 - Final Hydrographic Sruvey	7	22-Nov-13	29-Nov-13
Dredging - Zone A1				
MAR10240	Zone A1 - dredging [J4-J7, K5-K7] (seawall)	22	30-Sep-13	26-Oct-13
MAR12520	Zone A1 - dredging [J1-J3, K0-K4]	11	22-Nov-13	04-Dec-13
Dredging - Zone D				
MAR11880	Zone D - Remove existing rock armour [S8-S10]	22	28-Oct-13	21-Nov-13
MAR11900	Zone D - dredging [R8-R10]	5	22-Nov-13	27-Nov-13
Seawall Construction				
Seawall Construction - Zone C				
MAR11560	Zone C - temp. seawall - fill rubble mound to -4.0mPD	14	19-Sep-13	07-Oct-13
MAR11570	Zone C - temp. seawall - place temp concrete block to +4.0mPD	10	08-Oct-13	19-Oct-13
MAR11600	Zone C - C4 unit - Grade 75 rockfill along C4 unit	20	21-Oct-13	12-Nov-13
MAR11620	Zone C - WDII Box 1 temp SW - place rock mound	10	13-Nov-13	23-Nov-13
MAR11660	Zone C - WDII Box 1 temp SW - place concrete block	8	25-Nov-13	03-Dec-13
Seawall Construction - Zone B				
MAR10980	Zone B - seawall - fill rubble mound for seawall	18	19-Sep-13	11-Oct-13
MAR10990	Zone B - seawall - install block seawall type 7	7	12-Oct-13	21-Oct-13
MAR11040	Zone B - C4 unit - Grade 75 rockfill along C4 unit	20	21-Oct-13	12-Nov-13
MAR11060	Zone B - WDII Box 1 temp SW - place rock mound	6	13-Nov-13	19-Nov-13
MAR11080	Zone B - WDII Box 1 temp SW - place concrete block	8	20-Nov-13	28-Nov-13
MAR11200	Zone B - seawall - install block seawall type 5	7	01-Nov-13	08-Nov-13
MAR11210	Zone B - seawall - install caisson seawall no. 2N	3	29-Oct-13	31-Oct-13
Seawall Construction - Zone A2				
MAR10720	Zone A2 - seawall - fill rubble mound for seawall	22	12-Oct-13	07-Nov-13
MAR10740	Zone A2 - seawall - install Caisson Seawall no. 2L	4	01-Nov-13	05-Nov-13
Seawall Construction - Zone A1				
MAR10290	Zone A1 - seawall - fill rubble mound for seawall	18	05-Nov-13	25-Nov-13
Filling				
Filling - Zone C				
MAR11700	Zone C - public fill [T4-T7, U4-U7] - (bridge area)	28	01-Nov-13	03-Dec-13
Works for Section Completion				
Construction				
Box Culvert La, L1 & FRP-L Construction				
Sec VI A - Box Culvert La bay 1-3 and Roadwork				
CUL10140	Sec VI A - Area 1 - relocation of kiosks	10	28-Aug-13	07-Sep-13
CUL10160	Sec VI A - Area 1 - Culvert L bay 1-3 - road offset and TTA	30	06-Sep-13	12-Oct-13
CUL10440	Sec VI A - Area 1 - Culvert L bay 1-3 - Sheet pile installation	20	15-Oct-13	06-Nov-13
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	36	07-Nov-13	18-Dec-13