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

- JULY 2014 -

CLIENTS:

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and

Highways Department

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CERTIFIED BY:

Raymond Dai
Environmental Team Leader

DATE:

14 August 2014

ENVIRON

Ref.: AACWBIECEM00_0_5563L.14

14 August 2014

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 (July 2014)
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 July 2014 received by e-mail on 11 August 2014 and the subsequent revision of the report received by e-mail on 14 August 2014 for our review and comment.

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. Eddy Wu	by Fax: 2714 5289
	CEDD	Mr. Jason Cheung	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 –July 2014 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 June 2014 to July 2014. 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:
- Rock trimmings works

iii. During this reporting period, the major work activities for Contract no. HK/2009/02 included:
- Road works between Expo Drive and Expo Drive East
- Backfilling work
- Defect rectification works in WSD Salt Water Pumping Station
- ABWF Works in Section VIIIA
- E&M Works for instance fire services ducting and cabling works
- Capping beam construction
- Installation of seawall block
- Removal of marine mud and reclamation at WCR2
- Temporary drainage construction
- Concrete decking

iv. During this reporting period, the major work activities for Contract no. HY/2009/15 included:
- EVA construction at Eastern Breakwater
- Reinstatement of Eastern Breakwater
- Removal of Seawall Blocks at TPCWAE & TS4
- Demolition of D-Wall at TS2, TPCWAE & TS4
- Maintenance dredging

v. During this reporting period, the major work activities for Contract no. HK/2010/06.
- Nil

vi. During this reporting period, the major work activities for Contract no. HY/2009/19 included:
- Construction of Dolphin Cap
- Extraction of temporary pile from marine section

vii. During this reporting period, the major work activities for Contract no. HK/2012/08 included:

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation

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

- Rock filling works (works cease on 8th Feb. 2014)
- Dredging works

Noise Monitoring

ix. No exceedance was recorded in this reporting month.

x. 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.

Real-time Noise Monitoring

xi. 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.

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

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

Air Quality Monitoring

xiv. Due to electricity interruption, the following 24hr TSP monitoring events were rescheduled in the reporting month.
24hr TSP monitoring at CMA1b was rescheduled from 28 June 2014 to 30 June 2014.
24hr TSP monitoring at CMA3a was rescheduled from 28 June 2014 to 02 July 2014.
24hr TSP monitoring at CMA5a was rescheduled from 22 July 2014 to 23 July 2014.
1hr TSP monitoring at CMA3a was rescheduled from 30 June 2014 to 02 July 2014.

xv. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 8 and 22 July 2014 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during this reporting month.

xvi. 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.

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

xviii. 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.

Water Quality Monitoring

xix. Due to the hoisting of strong wind signal No. 3 on 18 July 2014, water quality monitoring on 18 July 2014 during both flood and ebb tides were cancelled.

xx. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2014.

xxi. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.

xxii. According to CWB RSS, oil dispersion at the culvert outfall location at SW corner of CBTS was observed on 6, 22, 24 and 28 Feb 2014. An ICC case (ICC ref: 2-92821253) regarding the above issue was lodged by CWB RSS team to request for follow-up action by relevant departments.

xxiii. Oil dispersion at the culvert outfall location at Ex-Cargo handling area was observed on 28 Feb 2014 by CWB RSS. An ICC case (ICC ref: 2-125779508) regarding the above observation was lodged by CWB RSS team to request for follow-up action by relevant departments.

xxiv. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08

xxv. With respect to the commencement of marine dredging works under contract HK/2012/08. The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 since September 2013.

xxvi. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013.

xxvii. 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 and WQM events at monitoring stations C2, C3, C4e and C4w were temporarily suspended since 22 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. 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.

xxxiii. 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.

xxxiv. 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.

xxxv. 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.

xxxvi. 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.

xxxvii. Water quality monitoring at 10 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***.

xxxviii. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.

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	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	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	WSD9	0	0	0	0	0	0	0	0	0	0	0	0

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
	WSD17	0	0	0	0	0	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 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0	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.
- 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.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.

xxxix. No action and limit levels were recorded in the reporting month.

xl. 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	0	0	0	0
	Ex-WPCWA SW	0	4	0	0
	Ex-WPCWA SE	0	4	0	0
Total		0	8	0	0

xli. There were no action level exceedances and 8 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***.

xlii. 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.

xliii. 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

xliv. One environmental complaint under EP-356/2009 was received in the reporting period.

xlv. A public complaint regarding construction noise impact referred by RSS was received by ET on 25 July 2014. The complainant reported that at 00:57hrs on 21 July 2014, the complainant could not sleep due to work and machine at the project site opposite to Ngan Tao Building, where he is staying were still going on and in operation. Noise travelled to his flat despite it was some distance away.

xlvi. ET confirmed with the RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00 on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation.

xlvii. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period.

xlviii. After reviewing the relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0592-14, it was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. “From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14.” According to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting

procedure was incomplete. Under safety and navigation considerations, the completion of diaphragm wall removal was necessary and of imminent need.

xlix. The contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be strictly followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.

l. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1***

Site Inspections and Audit

li. 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

lii. 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

- Rock trimming works

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

- Covered walkway at Expo Drive East
- Road works on Hung Hing Road
- ABWF works at WSD Salt Water Pumping Station
- Backfilling works for Tunnel Portion 1
- ABWF and E&M works at Ferry Pier
- Concreting works and steelworks for Temporary Covered Walkway
- Capping beam construction
- Reclamation at WCR2
- Installation of Bridge 2
- Site haul road construction and commence at-grade road construction

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

- EVA construction at Eastern Breakwater
- Reinstatement of Eastern Breakwater
- Removal of Seawall Blocks at TPCWAE & TS4
- Demolition of D-Wall at TS2, TPCWAE &TS4

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

- Nil

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

- Construction of Dolphin Cap

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

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation
- Dredging

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

- Dredging works

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 June 2014 to July 2014. 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 (Completed)
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 (Completed)
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
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	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 March 2013
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	To be commenced tentatively on 4th quarter in 2014

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Joint Venture Board Representative	Mr. Simon Liu	9304 8355	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	
		Senior Environmental Engineer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Alfred Leung	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	Andy Mak	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	

Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo – CRGL – MBEC_ Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	
		Site Agent	Mr. Eric Yip	252902068	
		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	
Leighton Joint Venture	Contractor under Contract no. HY/2011/08	Project Manager	Paul Evans	2823 1111	21406799
		Site Agent	Colman Wong	9730 0806	
		Environmental Officer	Donald Ip	6461 8635	
		Environmental Supervisor	Penny Yiu	2214 7738	
ENVIRON	Independent	Independent	Mr. David	3465 2888	3465 2899

Party	Role	Post	Name	Contact No.	Contact Fax
Hong Kong Limited	Environmental Checker (IEC)	Environmental Checker (IEC)	Yeung		
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:

- Rock trimming works

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

- Road works between Expo Drive and Expo Drive East
- Backfilling work
- Defect rectification works in WSD Salt Water Pumping Station
- ABWF Works in Section VIIIA
- E&M Works for instance fire services ducting and cabling works
- Capping beam construction
- Installation of seawall block
- Removal of marine mud and reclamation at WCR2
- Temporary drainage construction
- Concrete decking

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

- EVA construction at Eastern Breakwater
- Reinstatement of Eastern Breakwater
- Removal of Seawall Blocks at TPCWAE & TS4
- Demolition of D-Wall at TS2, TPCWAE & TS4
- Maintenance dredging

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

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

- Construction of Dolphin Cap
- Extraction of temporary pile from marine section

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

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation

- Filling for reclamation

2.4.9. For Contract no. HY/2010/08, no principal work activities this reporting month.

- Rock filling works (works cease on 8th Feb. 2014)
- No dredging works

2.4.10. 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

- Rock trimming works

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

- Covered walkway at Expo Drive East
- Road works on Hung Hing Road
- ABWF works at WSD Salt Water Pumping Station
- Backfilling works for Tunnel Portion 1
- ABWF and E&M works at Ferry Pier
- Concreting works and steelworks for Temporary Covered Walkway
- Capping beam construction
- Reclamation at WCR2
- Installation of Bridge 2
- Site haul road construction and commence at-grade road construction

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

- EVA construction at Eastern Breakwater
- Reinstatement of Eastern Breakwater
- Removal of Seawall Blocks at TPCWAE & TS4
- Demolition of D-Wall at TS2, TPCWAE &TS4

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

- Nil

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

- Construction of Dolphin Cap

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

- ELS for box culvert La at Lung King Street
- Filling for seawall rock mound formation
- Filling for reclamation
- Dredging

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

- Dredging works

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	17 Aug 2009	Superseded
Environmental Permit	EP-364/2009/A	4 Aug 2010	Superseded
Environmental Permit	EP-364/2009/B	20 Sep 2012	Superseded
Environmental Permit	EP-364/2009/C	11 Jul 2014	Valid
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
Further Environmental Permit	FEP-11/362/2009/B	2 May 2014	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-RS0111-14	11 Feb 2013	15 Feb 2014 to 14 Aug 2014	Valid
	GW-RS0765-14	30 Jul 2014	15 Aug 2014 to 14 Feb 2015	Valid
	GW-RS0200-14	18 Mar 2014	21 Mar 2014 to 15 Sept 2014	Valid
	GW-RS0317-14	7 Apr 2014	8 Apr 2014 to 7 Oct 2014	Valid
	GW-RS0362-14	17 Apr 2014	20 Apr 2014 to 8 Oct 2014	Valid
	GW-RS0381-14	8 Apr 2014	9 May 2014 to 11 Nov 2014	Valid
	GW-RS0435-14	30 Apr 2014	13 May 2014 to 12 Nov 2014	Valid
	GW-RS0437-14	7 May 2014	8 May 2014 to 7 Nov 2014	Valid
	GW-RS0451-14	5 May 2014	12 May 2014 to 11 Nov 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0462-14	17 Apr 2014	18 Apr 2014 to 17 Oct 2014	Valid
	GW-RS0498-14	22 May 2014	24 May 2014 to 22 Nov 2014	Valid
Discharge Licence	WT00018110-2014	6 Jan 2014	31 Mar 2015	Valid
	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
	WT00009641-2011	24 Jul 2011	31 Jul 2016	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/14-010	24 Apr 2014	01 Jun 2014 to 30 Jun 2014	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

EP Condition	Submission	Date of Submission
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
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	Silt Screen Deployment Plan	10 Jun 2011
Condition 2.18	Landscape Plan	31 Oct 2013

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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS1466-13	24 Dec 2013	17 Jan 2014 to 16 July 2014	Expired
	GW-RS1458-13	24 Dec 2013	2 Jan 2014 to 1 July 2014	Expired
	GW-RS0067-14	29 Jan 2014	15 Feb 2014 to 14 Aug 2014	Valid
	GW-RS0112-14	13 Jan 2014	16 Feb 2014 to 13 Aug 2014	Valid
	GW-RS0161-14	7/3/2014	11 Mar 2014 to 10 Sep 2014	Valid
	GW-RS0162-14	7/3/2014	20 Mar 2014 to 19 Sep 2014	Valid
	GW-RS0233-14	21/3/2014	25 Mar 2014 to 24 Sep 2014	Valid
	GW-RS0269-14	28/3/2014	7 Apr 2014 to 6 Oct 2014	Valid
	GW-RS0319-14	7/4/2014	18 Apr 2014 to 17 Oct 2014	Valid
	GW-RS0407-14	25/4/2014	28 Apr 2014 to 16 Oct 2014	Valid
	GW-RS0421-14	30/4/2014	30 Apr 2014 to 15 Oct 2014	Valid
	GW-RS0460-14	9/5/2014	10 May 2014 to 9 Nov 2014	Valid
	GW-RS0491-14	16/5/2014	17 May 2014 to 16 Nov 2014	Valid
	GW-RS0494-14	16/5/2014	22 May 2014 to 21 Nov 2014	Valid
	GW-RS0482-14	13/5/2014	14 May 2014 to 6 Nov 2014	Valid
	GW-RS0461-14	9/5/2014	10 May 2014 to 9 Nov 2014	Valid
	GW-RS0422-14	30/4/2014	2 May 2014 to 16 Oct 2014	Valid
	GW-RS0515-14	26/5/2014	29 May 2014 to 25 Nov 2014	Valid
	GW-RE0565-14	30/5/2014	30 May 2014 to 29 Nov 2014	Valid
	GW-RS0637-14	26/6/2014	2 Jul 2014 to 25 Nov 2014	Valid
	GW-RS0742-14	25/7/2014	15 Aug 2014 to 14 Feb 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0745-14	25/7/2014	14 Aug 2014 to 13 Feb 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 Apr 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/15-027	21 May 2014	29 May 2014 to 30 Jun 2014	Expired
	EP/MD/15-046	24 Jun 2014	1 Jul 2014 to 31 Dec 2014	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

EP Condition	Submission	Date of Submission
	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
Condition 2.9	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
-----	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 concreting works at Eastern Breakwater of CBTS	GW-RS0095-14	10 Feb 2014	19 Feb 2014 to 18 Aug 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS1437-13	17 Dec 2013	31 Dec 2013 to 30 Jun 2014	Expired
Construction Noise Permit (CNP) for Pre-treatment, ELS and rock breaking works at TS4/ME4	GW-RS0649-14	26 Jun 2014	1 Jul 2014 to 31 Dec 2014	Cancelled
Construction Noise Permit (CNP) for D-wall cutting and seawall removal works at TS4/ME4	GW-RS0721-14	16 Jul 2014	18 Jul 2014 to 15 Jan 2015	Valid
Construction Noise Permit (CNP) for maintenance dredging	GW-RS0368-14	22 Apr 2014	1 May 2014 to 31 Oct 2014	Valid
Construction Noise Permit (CNP) for P3 Mooring	GW-RS0191-14	12 Mar 2014	12 Mar 2014 to 11 Sep 2014	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	27 Mar 2014	17 Apr 2014 to 16 Jul 2014	Expired
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7011761	30 Jun 2014	17 Jul 2014 to 16 Oct 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-122	23 Jan 2014	24 Jan 2014 to 23 Jul 2014	Expired
Dumping Permit (Type 1 – Open Sea Disposal) P3 Mooring	EP/MD/14-123	21 Jan 2014	23 Jan 2014 to 22 Jul 2014	Expired
Dumping Permit (Type 1 – Open Sea Disposal(Dedicated Site) and Type 2 – Confined Marine Disposal)	EP/MD/15-032	11 Jun 2014	13 Jun 2014 to 12 Jul 2014	Expired
	EP/MD/15-055	9 Jul 2014	13 Jul 2014 to 12 Aug 2014	Valid
Dumping Permit (Type 3 – Special Treatment/Disposal contained in Geosynthetic Containers)	EP/MD/15-031	11 Jun 2014	15 Jun 2014 to 14 Jul 2014	Expired
	EP/MD/15-054	11 Jul 2014	15 Jul 2014 to 14 Aug 2014	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 2.20	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**
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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Construction Noise Permit (CNP) for piling equipment	PP-RS0030-13	19 Dec 2013	6 Jan 14 – 5 Jul 14	Valid
Billing Account under Waste Disposal Ordinance	7012338	16 Feb 2011	N/A	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 2.23	Noise Management Plan	11 March 2011
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
	Revised Silt Curtain Deployment Plan	28 January 2013
Condition 2.9	Silt Screen Deployment Plan	11 April 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 Portion Vi Marine)	GW-RS10073-14	06-Feb-14	02-Aug-14	Cancelled
	GW-RS0507-14	23-May-14	14-Nov-14	Valid
Discharge Licence (Land)	WT00010093-2011	17 Aug 2012	30-Sept-16	Valid

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
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	-
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal)	EP/MD/14-128	30 Jan 2014	30 Jun 2014	Expired
	EP/MD/15-035	18 Jun 2014	17 Dec 2014	Valid
Dumping Permit (Tunnel) (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal)	EP/MD/15-036	20 Jun 2014	19 Jul 2014	Valid
	EP/MD/15-072	06 Aug 2014	05 Sep 2014	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
Water Discharge Licence	WT00018223-2014	28 Jan 2014	31 Jan 2019	Valid
Construction Noise Permit	GW-RS1477-13	2 Jan 2014	3 Jan 2014 to 2 Jul 2014	Cancelled
	GW-RS0232-14	21 Mar 2014	23 Mar 2014 to 20 Sep 2014	Valid
	GW-RS1357-13	2 Dec 2013	4 Dec 2013 to 1 Jun 2014	Cancelled
	GW-RS0257-14	26 Mar 2014	28 Mar 2014 to 25 Sep 2014	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0193-14	13 Mar 2014	27 Mar 2014 to 26 Sep 2014	Valid
	GW-RS0293-14	1 Apr 2014	1 Apr 2014 to 30 Sep 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/14-111	1 Jan 2014	30 Jun 2014	Expired
	EP/MD/15-039	1 Jul 2014	31 Dec 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/15-040	20 Jun 2014	24 Jul 2014	Expired
	EP/MD/15-059	15 Jul 2014	24 Aug 2014	Valid

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

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 2)	Generally in order as commented by EPD on 19 Sep 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. 3)	Generally in order as commented by EPD on 31 Oct 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

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
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	WT00016561-2013	9 Jul 2013	31 Jul 2018	Valid*
Dumping Permit (Type 1 – Open Sea Disposal)	EP/MD/15-033	9 Jun 2014	9 Dec 2014	Valid
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	EP/MD/15-034	11 June 2014	14 Jul 2014	Valid
	EP/MD/15-056	15 Jul 2014	14 Aug 2014	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	28 Nov 2013
Condition 2.9	Silt Screen Deployment Plan	29 Nov 2013
Condition 2.23	Noise Management Plan (rev02)	25 Mar 2014
Condition 2.24	Landscape Plan (rev02)	25 Mar 2014
	Landscape Plant (rev03)	5 Aug 2014

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

- *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*

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 4 WSD salt water intakes and 8 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			
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
WSD19	Sheung Wan	833415.0	816771.0
WSD21	Wan Chai	836220.8	815940.1
Cooling Water Intake			
C1	HKCEC Extension	835885.6	816223.0
C7	Windsor House	837193.7	816150.0
P1	HKCEC Phase I	835774.7	816179.4

Station Ref.	Location	Easting	Northing
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]
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 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- Central- 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
- Contract no. HY/2010/08 – Central- Wanchai Bypass Tunnel (Slip Road 8 Section)

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. No exceedance was recorded in this reporting month.

5.1.6. 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.***

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

5.1.7. 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
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

5.1.8. No exceedance was recorded in this reporting month.

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.***

Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

5.1.10. The proposed division of noise monitoring stations are summarized in **Table 5.5** below.

Table 5.5 Noise Monitoring Station for Contract no. HY/2010/08

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

5.1.11. No exceedance was recorded in this reporting month.

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

Table 5.6 Real Time Noise Monitoring Station for Contract no. HY/2009/19

District	Station	Description
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*

5.2.5 Limit level exceedances were recorded at RTN2a-Electric Centre during restricted hours on 27 July 2014 and during daytime on 22 July 2014 in the reporting month. After checking with Contractor, despite socket H-piling was conducted at the concerned location on 22 July 2014 during the recorded period, contractor mitigation measures including erection of temporary noise barrier was in place and the exceedance was considered to be contributed by the adverse weather condition during the hoisting period of rainstorm signal. On 27 July 2014, no construction activity was conducted at the concerned location during the monitoring period. As such, it was considered that the exceedance was considered as non-project related and considered to be contributed by nearby IEC traffic.

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

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
CMA6a	WDII PRE Site Office

5.3.1 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

5.3.4. 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***.

5.3.5. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 8 and 22 July 2014 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 Tunnel (North Point Section) and Island Eastern Corridor Link

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

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

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

5.3.7. 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/2012/08- Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai West

5.3.8. The proposed division of air monitoring stations are summarized in Table 5.11 below. No exceedance was recorded in the reporting month.

Table 5.11 Air Monitoring Stations for Contract no. HY/2012/08

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

5.3.9. 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. HY/2010/08- Central-Wanchai Bypass Tunnel (Slip Road 8 Section)

5.3.10. The proposed division of air monitoring stations are summarized in Table 5.12 below. No exceedance was recorded in the reporting month.

Table 5.12 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA3a	CWB PRE Site Office

5.3.11. 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 hoisting of strong wind signal No. 3 on 18 July 2014, water quality monitoring on 18 July 2014 during both flood and ebb tides were cancelled.

5.4.2. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2014.

5.4.3. According to CWB RSS, oil dispersion at the culvert outfall location at SW corner of CBTS was observed on 6, 22, 24 and 28 Feb 2014. An ICC case (ICC ref: 2-92821253) regarding the above issue was lodged by CWB RSS team to request for follow-up action by relevant departments.

5.4.4. Another oil dispersion at the culvert outfall location at Ex-Cargo handling area was observed on 28 Feb 2014 by CWB RSS. An ICC case (ICC ref: 2-125779508) regarding the above observation was lodged by CWB RSS team to request for follow-up action by relevant departments.

5.4.5. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.

5.4.6. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.

5.4.7. 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.

5.4.8. 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.

5.4.9. 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.

5.4.10. 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;

5.4.11. 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.

5.4.12. The water quality monitoring at the respective monitoring station C8 and C9 were temporarily suspended from 30 March 2013.

5.4.13. 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.

5.4.14. 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.

5.4.15. 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.

5.4.16. 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.

5.4.17. 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 5.13 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

5.4.18. 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 5.14*** below.

Table 5.14 Water Monitoring Stations for Contract no. HK/2009/01

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

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 have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

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

5.4.19. 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 5.15*** below.

Table 5.15 Water Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD9	Tai Wan	837921.0	818330.0
WSD17	Quarry Bay	839790.3	817032.2
Cooling Water Intake			
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.

- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014

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

5.4.20. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in ***Table 5.16*** below.

Table 5.16 Water Monitoring Stations for Contract no. HK/2012/08

Station Ref.	Location	Easting	Northing
WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Intake			
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

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

5.4.21. 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.

5.4.22. 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.

5.4.23. 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 5.17 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing
Cooling Water Intake			
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

5.4.24. 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.

5.4.25. 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.

5.4.26. 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.

5.4.27. 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.

5.4.28. 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.

5.4.29. 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.

5.4.30. 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 5.18 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	C1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	WSD19	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	WSD9	0	0	0	0	0	0	0	0	0	0	0	0
	WSD17	0	0	0	0	0	0	0	0	0	0	0	0
Monitoring started on 29 July 2013	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0	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.
- 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
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.

5.4.31. No action and limit levels were recorded in the reporting month.

5.4.32. 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 5.19***.

Table 5.19 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	0	0	0	0
	Ex-WPCWA SW	0	4	0	0
	Ex-WPCWA SE	0	4	0	0
Total		0	8	0	0

5.4.33. There were no action level exceedances and 8 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***.

5.4.34. 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***.

5.4.35. 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

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5.5 Waste Monitoring Results

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

5.5.1. No inert C&D waste and non- inert C&D waste disposed 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/2009/01

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	62116.405	TKO137, TM38
Inert C&D materials recycled, m^3	NIL	5856.5	N/A
Non-inert C&D materials disposed, m^3	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL (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	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	NIL (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. No Inert C&D waste and Non-inert C&D waste 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. HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	263704.45	TKO137 / TM 38
Inert C&D materials recycled, m^3	NIL	18161	N/A
Non-inert C&D materials disposed, m^3	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m^3	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL	186070* (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	NIL	129320 (Bulk volume)	East of Sha Chau

*Remarks: Contractor clarified the quantity of marine sediment – type 1 open sea disposal for May and June reporting month were 907 and 996 respectively, hence the cumulative quantity is updated in July reporting month.

5.5.4. There was no Marine Sediment disposed 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 disposed of in this reporting month. Details of the waste flow table are summarized in ***Table 5.22***

Table 5.22 Details of Waste Disposal for Contract no. HY/2009/15

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m^3	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m^3	NIL	304	ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m^3	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL (Bulk Volume)	100208 (Bulk Volume)	Cheung Chau South	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m^3	13600 (Bulk Volume)	243945 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m^3	3860 (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m^3	NIL	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers) , m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

5.5.6. There were marine sediment Type 2 – Confined Marine Disposal and marine sediment Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers disposed 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 5.23.***

Table 5.23 Details of Waste Disposal for Contract no. HK/2010/06

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

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 disposed in this reporting month.

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

5.5.9. No inert C&D waste and non-inert C&D waste 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. HY/2009/19

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m^3	NIL	355921.04	TM38
Inert C&D materials recycled, m^3	NIL	59367	N/A
Non-inert C&D materials disposed, m^3	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m^3	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	

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. No 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 5.25.***

Table 5.25 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	NIL	1247	TM38
Inert C&D materials recycled, m^3	NIL	NIL	N/A
Non-inert C&D materials disposed, m^3	NIL	315*	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m^3	NIL (Bulk volume)	31674* (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL (Bulk volume)	108485* (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)

*Remarks: Contractor clarified the cumulative quantity of Non-inert C&D material and marine sediment in July reporting month.

5.5.12. There were no Marine Sediment Type 1 – Open Sea Disposal and marine sediment Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal 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 disposed in this reporting month. Details of the waste flow table are summarized in ***Table 5.26***

Table 5.26 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
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Dumping Permit (Type 1 – Open Sea Disposal)	3270	16130	South Cheung Chau
Dumping Permit (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	17820	Brothers Island

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

6. Compliance Audit

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

6.1 Noise Monitoring

Contract no. 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 No exceedance was recorded in the reporting month.

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. Limit level exceedances were recorded at RTN2a-Electric Centre during restricted hours on 27 July 2014 and during daytime on 22 July 2014 in the reporting month. After checking with Contractor, despite socket H-piling was conducted at the concerned location on 22 July 2014 during the recorded period, contractor mitigation measures including erection of temporary noise barrier was in place and the exceedance was considered to be contributed by the adverse weather condition during the hoisting period of rainstorm warning signal and thunderstorm warning signal. On 27 July 2014, no construction activity was conducted at the concerned location during the monitoring period. As such, it was considered that the exceedance was considered to be contributed by nearby IEC traffic and non-project related.

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.

6.3.3 No Action and Limit Level was recorded for odour patrol during this reporting month.

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

6.3.4 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 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.

6.4.2 No exceedance was recorded in this reporting month.

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

6.4.3 No exceedance was recorded in this reporting month

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

6.4.4 There were occasionally DO exceedances at Ex-WPCWA SW and Ex-WPCWA SW recorded on 7, 14, 21 and 25 July 2014. No odour nuisance was noted during DO monitoring.

6.4.5 After checking with Contractor, there was no marine work undertaken at Ex-WPCWA on 7 July 2014 that the exceedance was possible in relation to the accumulation of organic particles discharge from culvert near monitoring station and considered not related to the Project works.

6.4.6 Despite temporary reclamation removal works were conducted during on the monitoring dates on 14, 21 and 25 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective that the exceedances were possible in relation to upstream discharge at the concerned location. In view that exceedances were not continuous and the DO level was restored to normal level during subsequent monitoring on the 14, 23 and 28 July 2014, it was considered the exceedances were not related to Project.

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

6.4.7 No exceedance was recorded in this reporting month.

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

6.4.8 No 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

6.4.9 No exceedance was recorded in this reporting month.

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

6.4.10 No exceedance was recorded in this reporting month.

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 non-compliances 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 Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and 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 Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, Diaphragm wall construction and pipe pile wall construction were performed in July 2014 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.

7.0.4. 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, tunnel works at Wan Chai East and filling works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were backfilling works at TS4 and TPCWAE. Bridge construction and tunnel works at Central Interchange, ELS, segment launching works and tunnel works at North Point area. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Marine-based construction activities were filling works at WanChai West and removal of temporary reclamation at TS4, TS2 and EX-PCWA at Wan Chai East in the reporting month.

7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project-related exceedances were recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) 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. Four site inspections for Contract no. HK/2009/01 were conducted on 2, 9, 17 and 23 July 2014 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
140709_01	9-Jul-14	Chemical cans should be placed on a drip tray.	Drip tray was provided for chemicals cans.	Completion as observed on 17 July 2014
140723_01	23-Jul-14	Drip tray should be provided for oil cans.	Drip tray was provided for oil cans.	Completion as observed on 30 July 2014

8.0.3. Four site inspections for Contract no. HK/2009/02 were carried out on 3, 10, 16 and 24 July 2014 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
140703_01	3-Jul-14	Silt curtain should be properly deployed and maintained (WCR2)	Double silt curtain are maintained and are properly deployed.	Completion as observed on 10 July 2014
140703_2	3-Jul-14	Cover of stockpile should be improved.	Additional covers were placed above the stockpile and barriers were placed between the stockpile and the shore. The size of stockpile was reduced.	Completion as observed on 10 July 2014
140710_1	10-Jul-14	Drip tray should be provided for used oil cans.	Drip tray was provided for oil cans.	Completion as observed on 14 July 2014
140716_01	16-Jul-14	Drip tray should be provided for air compressor	Drip tray was provided for air compressor.	Completion as observed on 24 July 2014.
140716_02	16-Jul-14	Hole of drip tray should be covered under the air compressor.	The hole of drip tray was covered under the air compressor.	Completion as observed on 24 July 2014.

Item	Date	Observations	Action taken by Contractor	Outcome
140724_01	24-Jul-14	The wheel washing facility should be improve such that no particulates washed out to the silt boundary (Gate 2)	A channel at the wheel wash facility site was added for better runoff to soak away drainage and a stop line for vehicle at the site boundary was added.	Completion as observed on 31 July 2014
140716_02	24-Jul-14	Stockpile should be properly handle and covered (WCR1)	Stockpile was regularly sprayed by water during active phase, and inactive stockpile was covered.	Completion as observed on 31 July 2014

8.0.4. Four site inspections for Contract no. HY/2009/15 were carried out on 2, 8, 15 and 22 July 2014 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
140702_01	2/7/2014	Review the wastewater treatment procedure to prevent milky discharge (EX-PCWA)	No further milky discharge observed	Completion as observed on 8 July 2014
140702_02	2/7/2014	Provide proper chemical waste collection point for chemical waste	Chemical waste container was removed.	Completion as observed on 8 July 2014
140715_01	15/7/2014	Clear the floating refuse/scum accumulated with site boundary (EX-PCWA)	Floating scum and refuses have been removed.	Completion as observed on 22 July 2014
140715_02	15/7/2014	Provide acoustic screen to breakers (EX-PCWA,TS4)	Acoustic screen have been provided to breaker.	Completion as observed on 22 July 2014
140722_02	22/7/2014	Collect the floating refuse and scum layer trapped within the silt formation EX-PCWA)	Floating scum and refuses have been removed.	Completion as observed on 29 July 2014

8.0.5. Four site inspections for Contract no. HK/2010/06 were carried out on 30 June 2014, 7, 14 and 21 July 2014 in reporting month. No particular finding was observed in this reporting month.

8.0.6. Four site inspections for Contract no. HY/2009/19 were carried out on 2, 9, 16 and 23 July 2014 in reporting month. No particular finding was observed in this reporting month.

8.0.7. Four site inspections for Contract no. HK/2012/08 were carried out on 2, 8, 14 and 22 July 2014 in this reporting period. The results of these inspections and outcomes are summarized in ***Table 8.4***.

Table 8.4 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
140702_01	2-Jul-14	Drip tray should be provided to oil containers.	Drip tray was provided.	Completion as observed on 8 July 2014

8.0.8. Four site inspections for Contract no. HY/2010/08 were carried out on 4, 10, 17 and 24 July 2014 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. HY/2010/08

Item	Date	Observations	Action taken by Contractor	Outcome
140704_01	4-Jul-14	Improve the protection at shoreline to mitigate seepage of muddy water during land piling works (Victoria Park Road)	Protection for mitigation of seepage of muddy water have been improved	Completion as observed on 17 Aug 2014
140710_01	10-Jul-14	Chemical container shall be cleared or provided with drip tray (Victoria Park)	Chemical waste container have been removed	Completion as observed on 17 Aug 2014
140717_01	17-Jul-14	Clear the mud/ silt deposit at public area (Victoria Park/ Victoria Park Road)	Mud/ silt deposit at Victoria Park Road have been removed	Completion as observed on 24 Aug 2014
140717_02	17-Jul-14	Provide watering to haul road (Victoria Park)	Watering to haul road was provided	Completion as observed on 24 Aug 2014
140724_01	24-Jul-14	Rectify and repair the damaged silt screen and clear the floating refuse trapped within (Windsor House)	Damaged silt screen have been repaired and the floating refuses have been collected	Completion as observed on 31 July 2014
140724_02	24-Jul-14	Clear the chemical waste container (Victoria Road)	Chemical waste container have been removed	Completion as observed on 31 July 2014

9. Complaints, Notification of Summons and Prosecution

9.0.1. One environmental complaint under EP-356/2009 was received in the reporting period.

9.0.2. A public complaint regarding construction noise impact referred by RSS was received by ET on 25 July 2014. The complainant reported that at 00:57hrs on 21 July 2014, the complainant could not sleep due to work and machine at the project site opposite to Ngan Tao Building, where he is staying were still going on and in operation. Noise travelled to his flat despite it was some distance away.

9.0.3. ET confirmed with the RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00 on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation.

9.0.4. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period.

9.0.5. After reviewing the relevant records and information verified by RSS and the Construction Noise Permit (CNP) no. GW-RS0592-14, it was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. “From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14.” According to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation considerations, the completion of diaphragm wall removal was necessary and of imminent need.

9.0.6. The contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.

9.0.7. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1***

9.0.8. 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	29
July 2014	1
Total	**30**

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***.

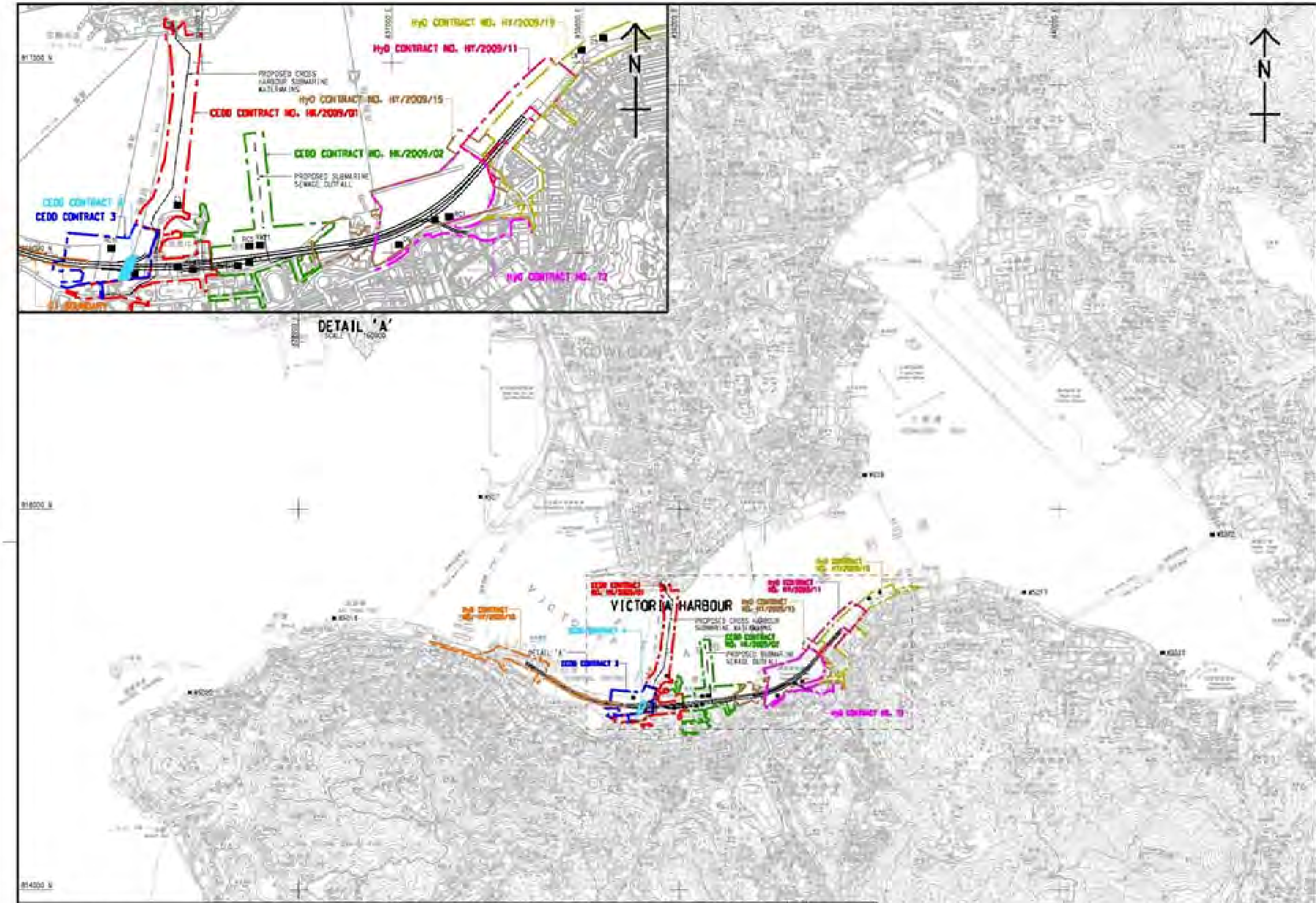
Table 10.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/01	• Rock trimming works	• To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance and dark smoke emission
HK/2009/02	• Covered walkway at Expo Drive East • Road works on Hung Hing Road • ABWF works at WSD Salt Water Pumping Station • Backfilling works for Tunnel Portion 1 • ABWF and E&M works at Ferry Pier • Concreting works and steelworks for Temporary Covered Walkway • Capping beam construction • Reclamation at WCR2 • Installation of Bridge 2 • Site haul road construction and commence at-grade road construction	• To cover the dusty material or stockpile by impervious sheet; • 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 EPD.

Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/15	• EVA construction at Eastern Breakwater • Reinstatement of Eastern Breakwater • Removal of Seawall Blocks at TPCWAE & TS4 • Demolition of D-Wall at TS2, TPCWAE &TS4	• Daily visual inspection of silt screen and silt curtain to ensure its operation properly • Implement silt curtain in accordance with the associated plans submitted to EPD.
HK/2010/06	• Nil	• Nil
HY/2009/19	• Construction of Dolphin Cap	• To space out noisy equipment and position as far as possible from sensitive receiver.
HK/2012/08	• ELS for box culvert La at Lung King Street • Filling for seawall rock mound formation • Filling for reclamation • Dredging	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • To space out noisy equipment and position as far as possible from sensitive receiver. • Daily visual inspection of silt screen and silt curtain to ensure its operation properly
HY/2010/08	• Dredging works	• To conform the installation and setting as in the silt screen and silt curtain deployment plan • Daily visual inspection of silt screen and silt curtain to ensure its operation properly

Figure 2.1

Project Layout



LEGEND:

■ WATER QUALITY MONITORING STATIONS

COOLING WATER INTAKES

C1	HONG KONG CONVENTION AND EXHIBITION CENTRE EXTENSION
C2	TELEVISION HOUSE/HK ACADEMY FOR PERFORMING ARTS / SHUI ON CENTRE
C3	HONG KONG CONVENTION AND EXHIBITION CENTRE PHASE I
C4	WAN CHAI TOWER AND GREAT EAGLE CENTRE
C5	SUN HUNG KAI CENTRE
C6	PROPOSED EXHIBITION STATION / WORLD TRADE CENTRE
C7	WINDSOR HOUSE
C8	CITY GARDEN
C9	PROVIDENT CENTRE
RC1	PROPOSED HKAPA EXTENSION
RC5	SUN HUNG KAI CENTRE (REPROVISION)
RC7	WINDSOR HOUSE (TEMPORARY REPROVISION)

WSD SALT WATER INTAKE

WSD21	WAN CHAI
[illegible]	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 - 376/2009
DP3, DP5 AND DP6 ARE COVERED BY EP - 290/2008

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 2011
CEDD CONTRACT 5	DP3	2011
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 12	DP1, DP2	MID 2011

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)

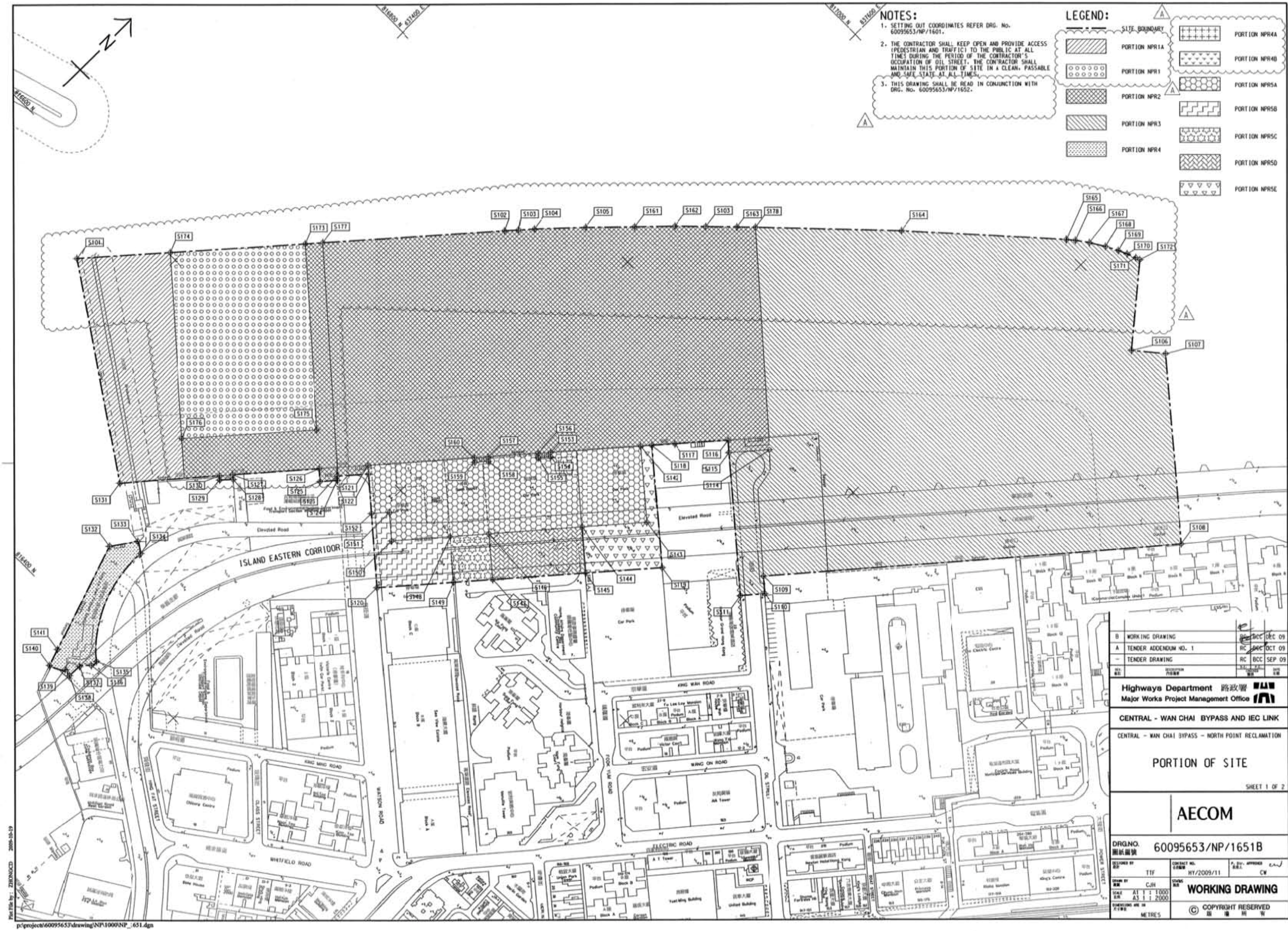
LOCATIONS OF WATER QUALITY MONITORING STATIONS

AECOM

DRG NO. 60041297/C5/SK001

SCALE A1 1:20000

DIMENSIONS 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

REV.	DESCRIPTION	CHECKED		DATE
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

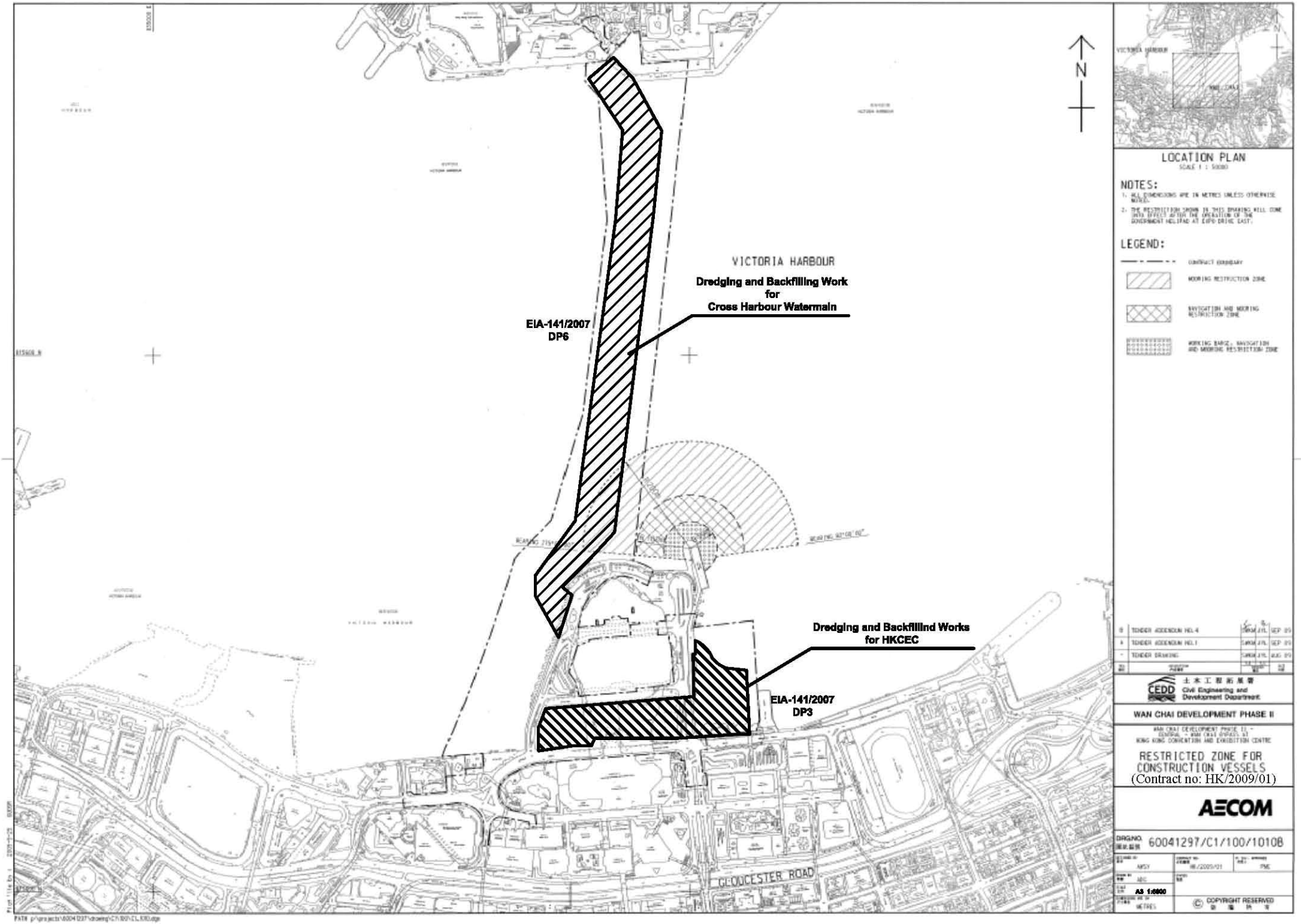
SHEET 1 OF 2

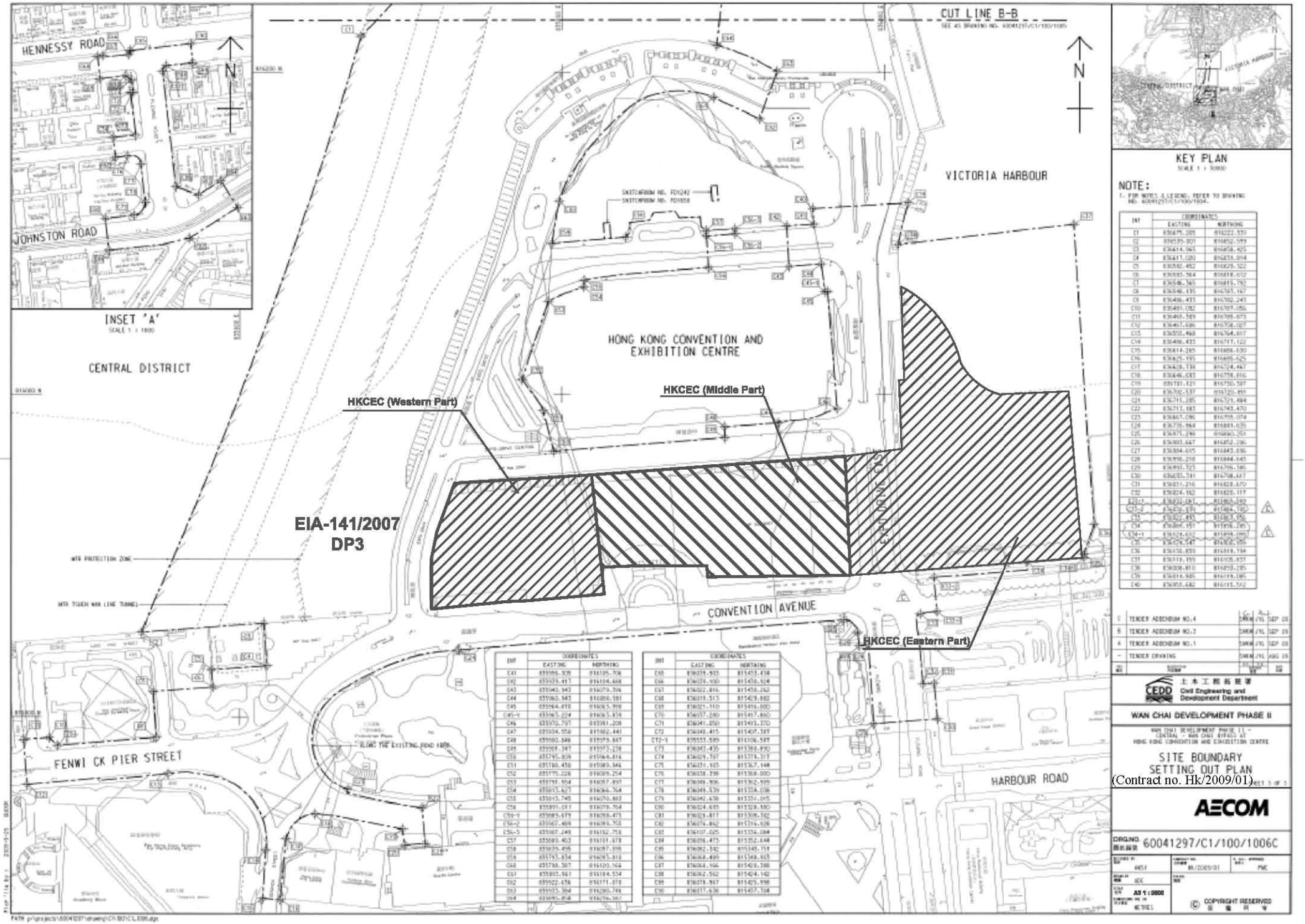
AECOM

DRG.NO. 60095653/NP/1651B

DESIGNED BY: TTF	CONTRACT NO.: HY/2009/11	APPROVED: CW
DRAWN BY: CJH	STATUS: WORKING DRAWING	
SCALE: A1 1 : 1000, A3 1 : 2000		
DIMENSIONS ARE IN: METRES		

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 CEASE TO HAVE EFFECT AFTER THE OPERATION OF THE GOVERNMENT HELIPAD AT EASTERN DRIVE EAST.
LEGEND:
CONTRACT BOUNDARY
MOORING RESTRICTION ZONE
NAVIGATION AND MOORING RESTRICTION ZONE
WORKING BARGE, NAVIGATION AND MOORING RESTRICTION ZONE
B TENDER ADDENDUM NO.4 SEP 09
A TENDER ADDENDUM NO.1 SEP 09
- TENDER DRAWING AUG 09
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


HENNESSY ROAD
JOHNSTON ROAD
INSET 'A'
SCALE 1 : 1000
CENTRAL DISTRICT
CUT LINE B-B
SEE A3 DRAWING NO. 60041297/C1/100/1005
VICTORIA HARBOUR
HONG KONG CONVENTION AND EXHIBITION CENTRE
HKCEC (Western Part)
HKCEC (Middle Part)
HKCEC (Eastern Part)
EIA-141/2007
DP3
MTR PROTECTION ZONE
MTR TSUEN WAN LINE TUNNEL
CONVENTION AVENUE
FENWI CK PIER STREET
HARBOUR ROAD
KEY PLAN
SCALE 1 : 50000
NOTE:
1. FOR NOTES & LEGEND, REFER TO DRAWING NO. 60041297/C1/100/1004.
WAN CHAI DEVELOPMENT PHASE II
WAN CHAI DEVELOPMENT PHASE II - CENTRAL - WAN CHAI BYPASS AT HONG KONG CONVENTION AND EXHIBITION CENTRE
SITE BOUNDARY SETTING OUT PLAN
(Contract no. Hk/2009/01)
Civil Engineering and Development Department
AECOM
DRG.NO. 60041297/C1/100/1006C
AS 1:2000
METRES
© COPYRIGHT RESERVED

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)	C 146	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 816230

N 816030

N 815830

GOLDEN BAUHINIA SQUARE

VICTORIA HARBOUR

RECLAMATION WORKS BY OTHERS

TUNNEL WORKS BY OTHERS

35m CLEAR SPACE

P7 P8 P9

EXISTING WATER INTAKES

DIRECTION OF TUNNEL WORKS

DRAINAGE DIVERSION OF 1800 PIPE

EXISTING SUBMARINE OUTFALL (SEWAGE)

EXISTING DISCHARGE

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

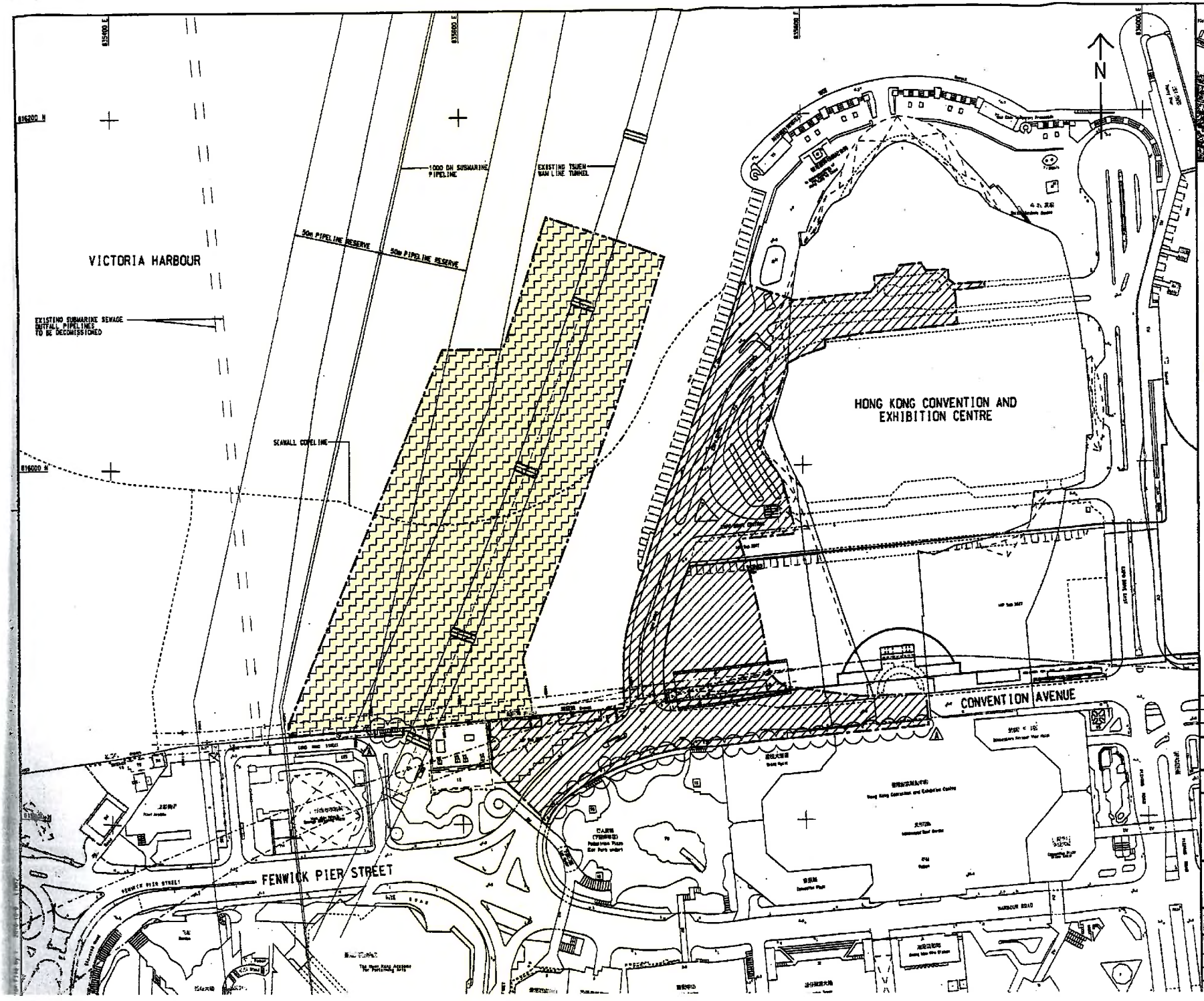
TCBR1W

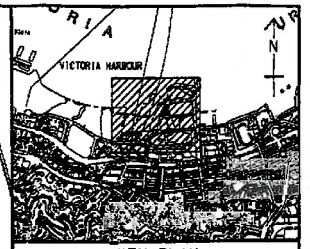
TPCWAW

TPCWAE

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 1:1000 @ A0	STATUS
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	CHK'D BY TKH
DRAWN BY ADC	SCALE	
DATE	AS SHOWN	

Figure 2.2

Project Organization Chart

Project Organization Chart

Project Proponent

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Fax: 2577 5040

Project Proponent

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Senior Engineer
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Mr. Raymond Lai
Environmental Protection Officer
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Fax: 25910558

Engineer's Representative for WDII

AECOM

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Principal Resident Engineer
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Engineer's Representative for CWB

AECOM

Mr. Peter Poon
Principal Resident Engineer
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Fax: 3529 2829

Independent Environmental Checker

ENVIRON Hong Kong Limited

Mr. David Yeung
Independent Environmental Checker
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HK/2009/02 Contractor

Chun Wo – CRGL JV

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Site Agent
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HK/2010/06 Contractor

Gamme – Leader JV

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HK/2012/08 Contractor

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Chun Wo- CRGL JV

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HY/2010/08 Contractor

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Mr. Chan Ying Lun
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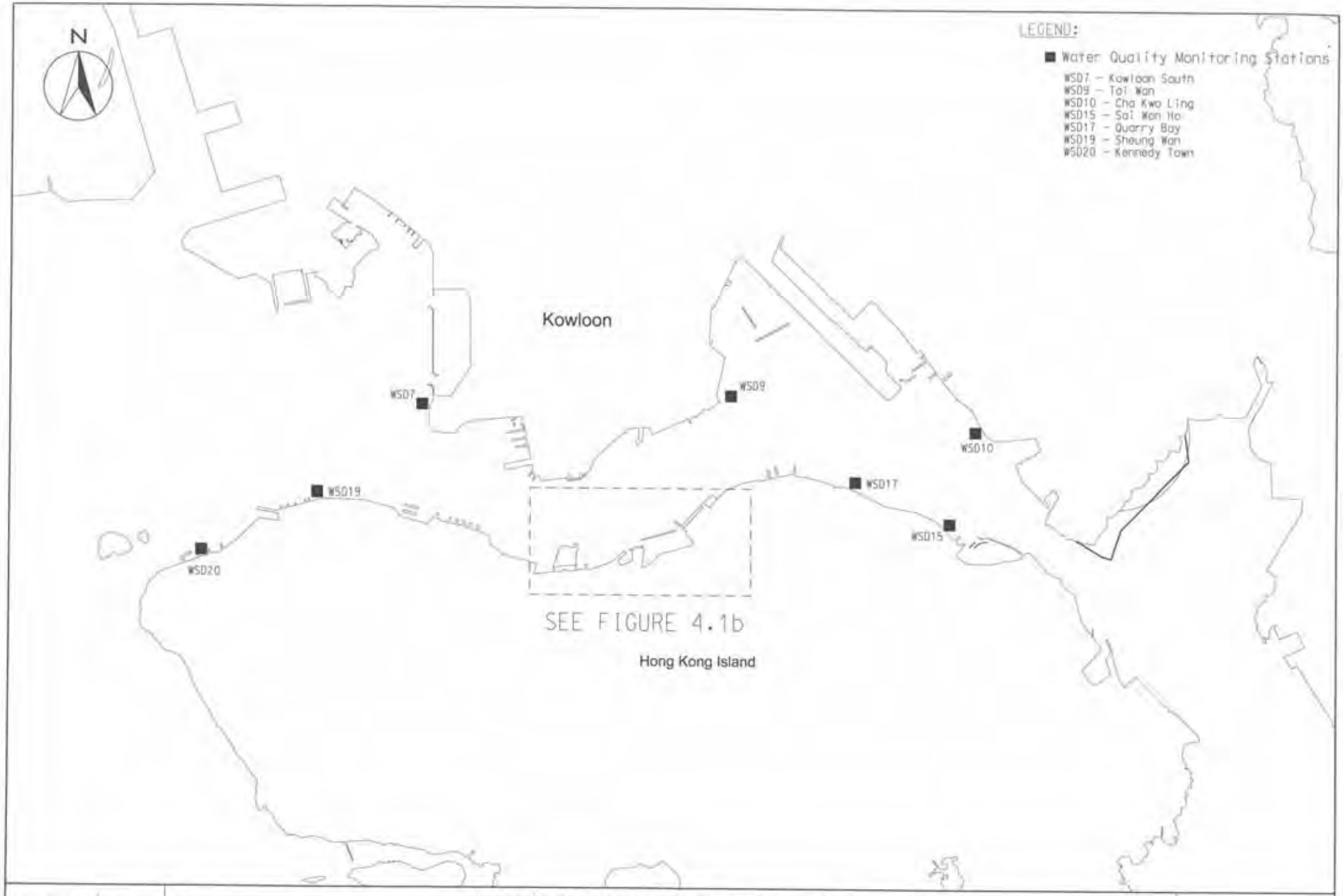
Environmental Team

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

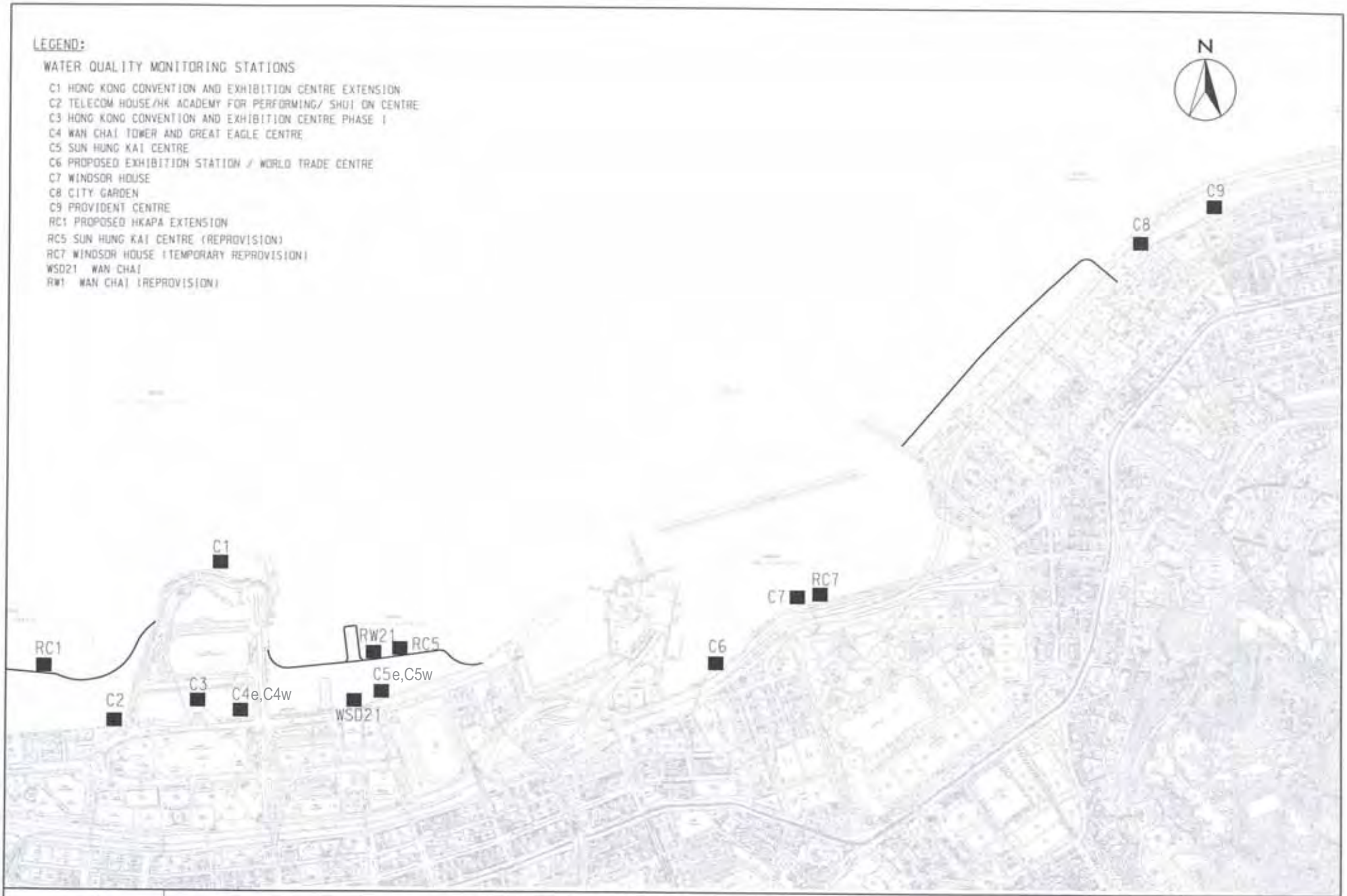
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

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

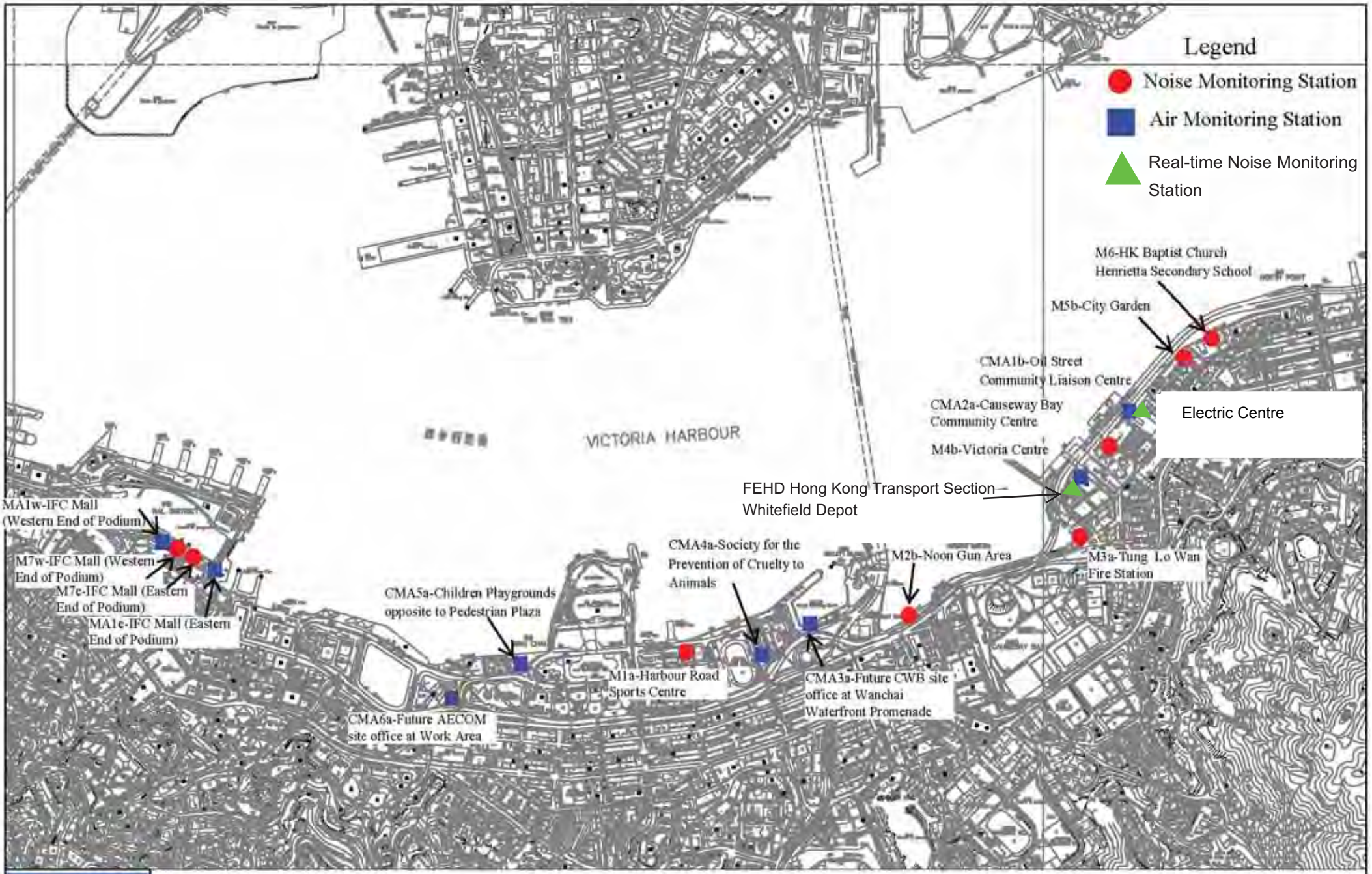
WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

LOCATIONS OF WATER QUALITY MONITORING STATIONS

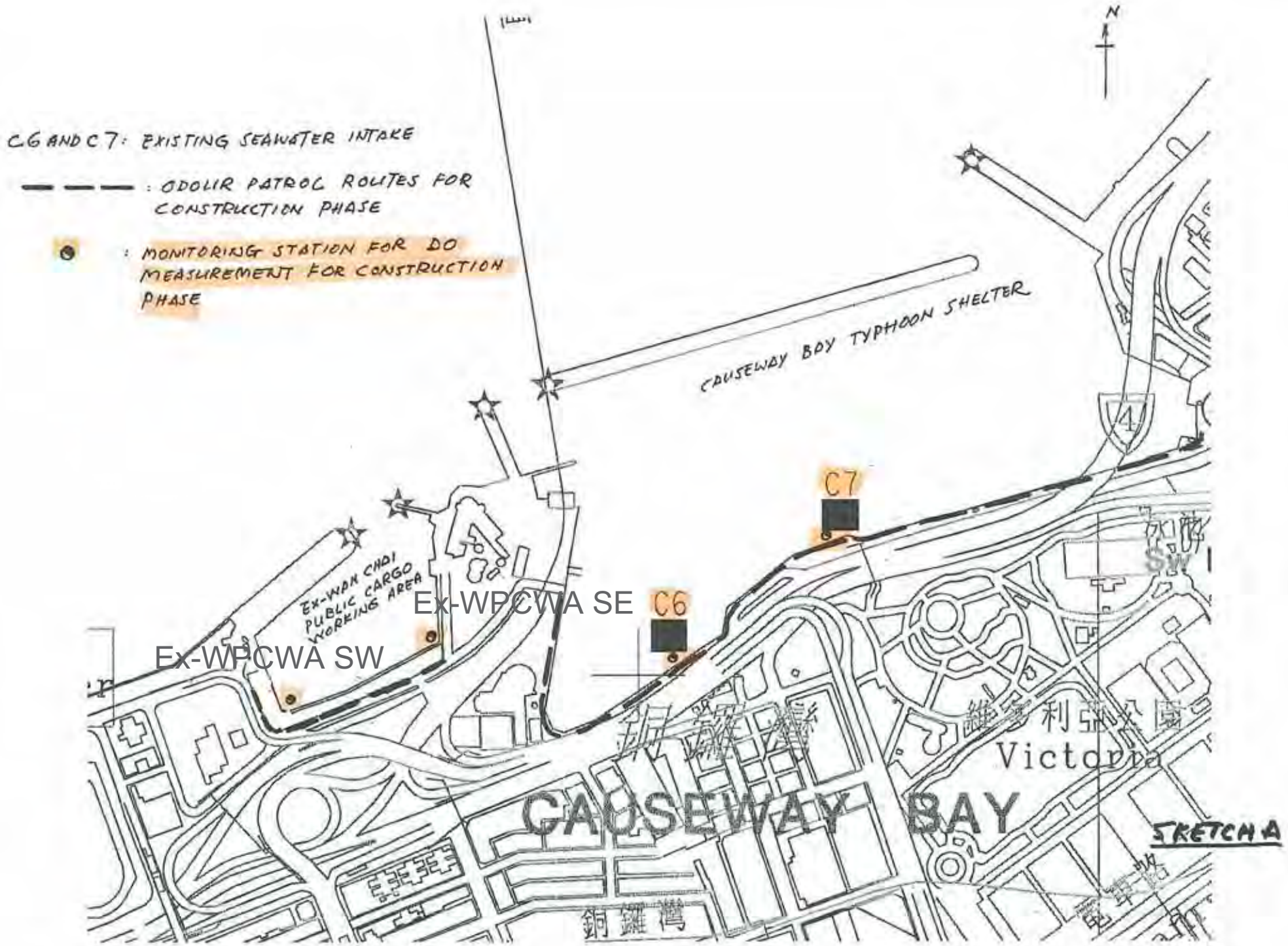
(SHEET 2 OF 2)

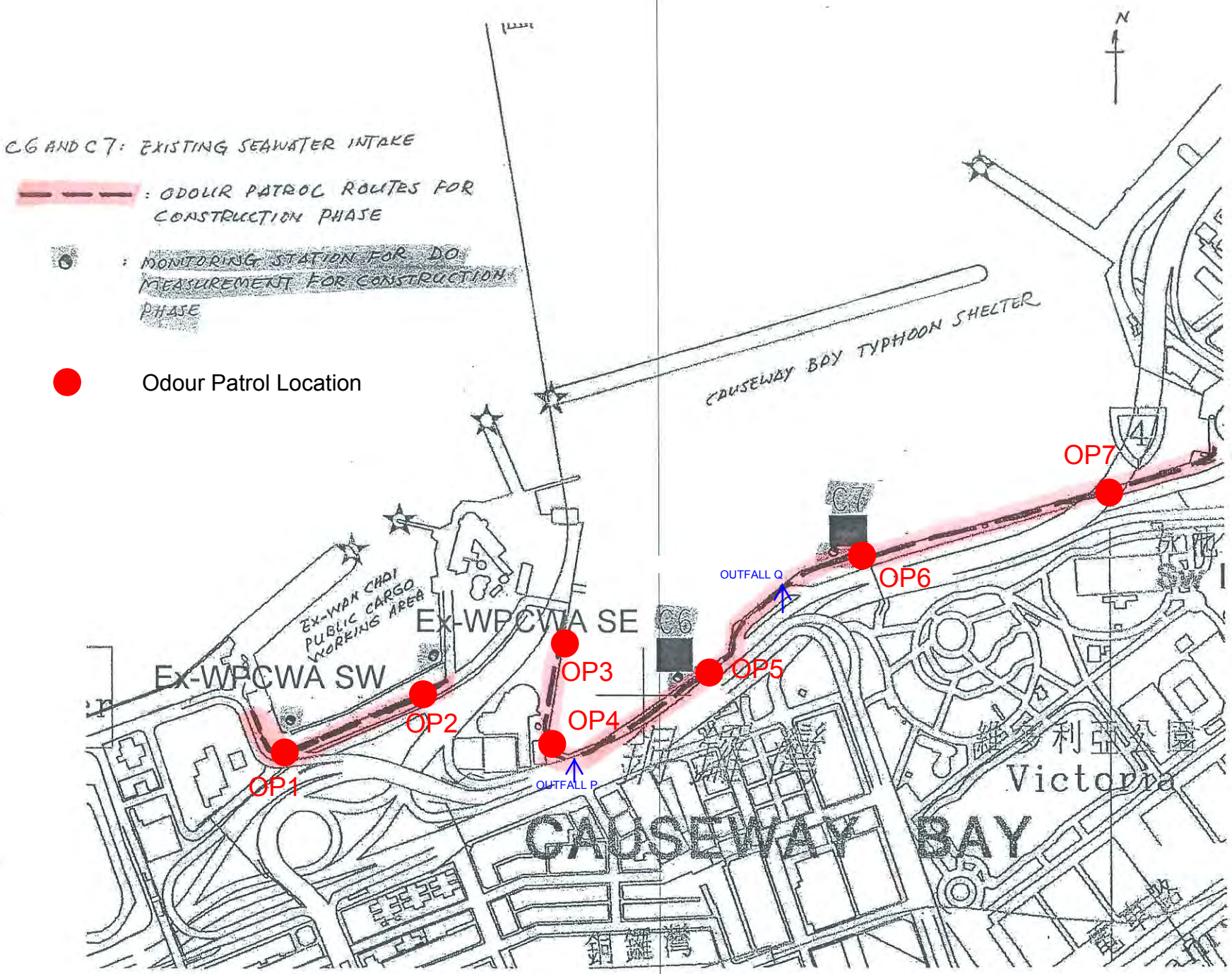
FIGURE 4.1b

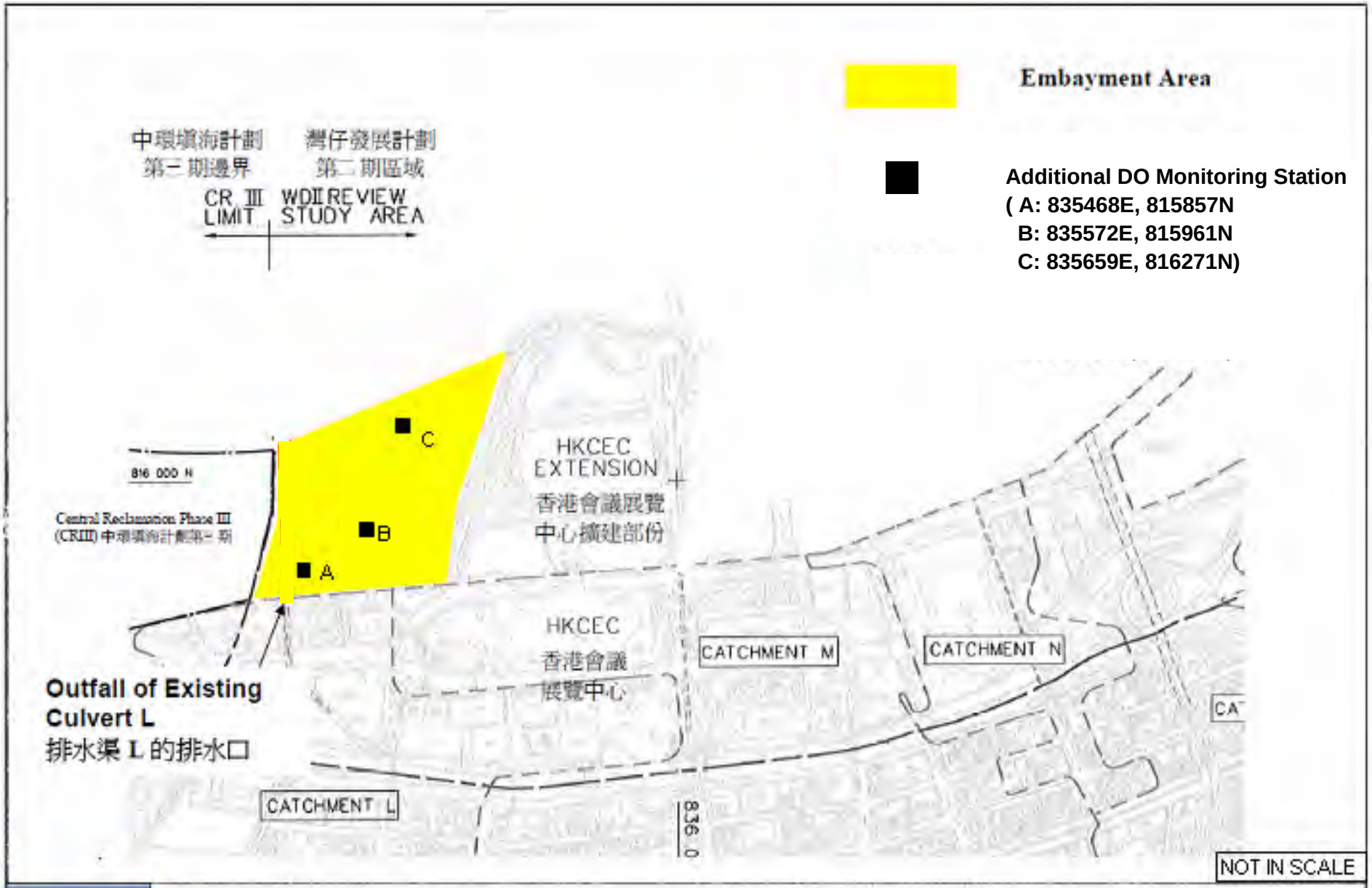
P:/6001719J/REPORT/DRAWINGS/EM&A-0708/WQ/4.1B.DGN SCALE 1:8000 (A3)



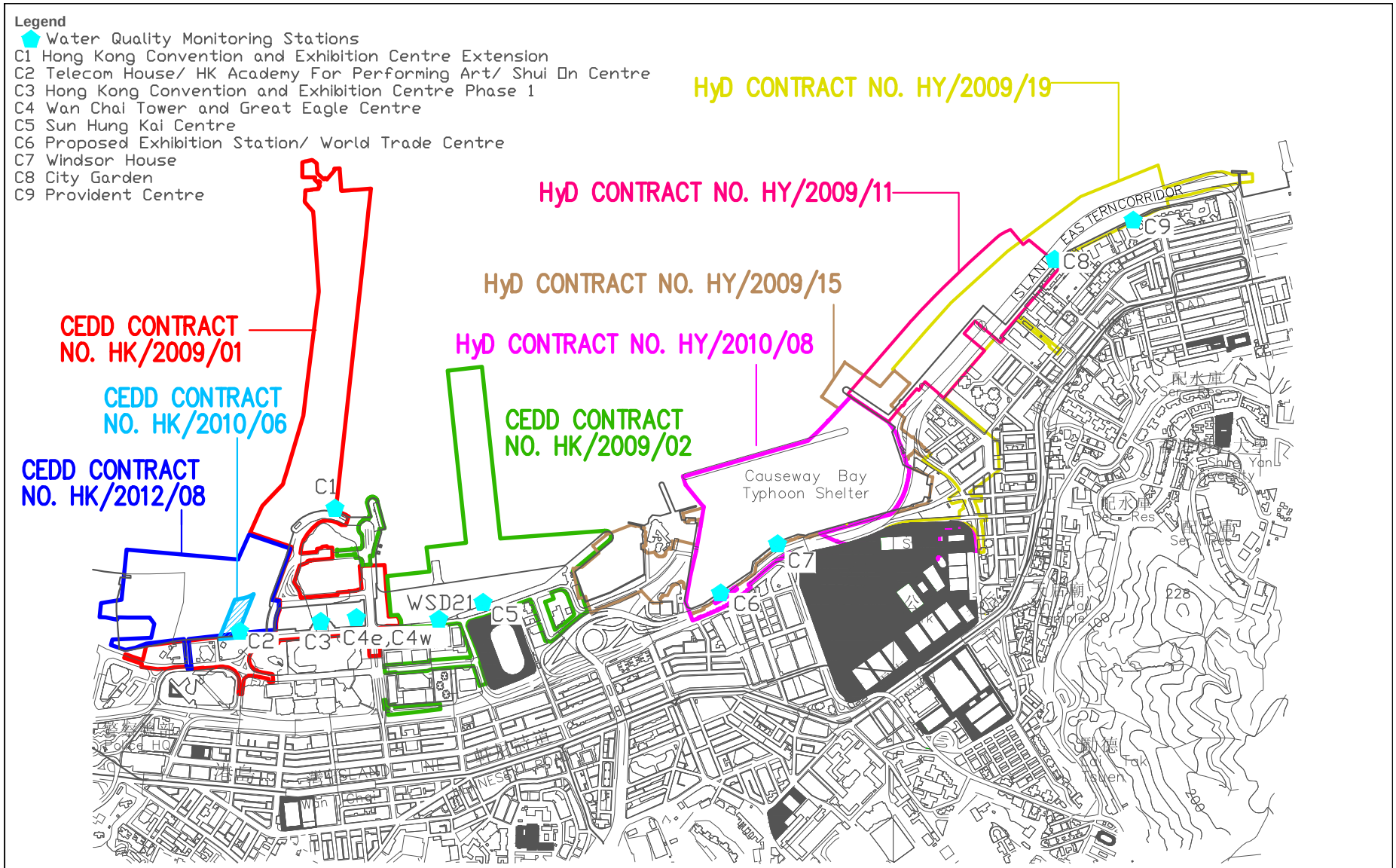
Location plan of Environmental Monitoring Stations


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
銅鑼灣
Victoria
SKETCH A

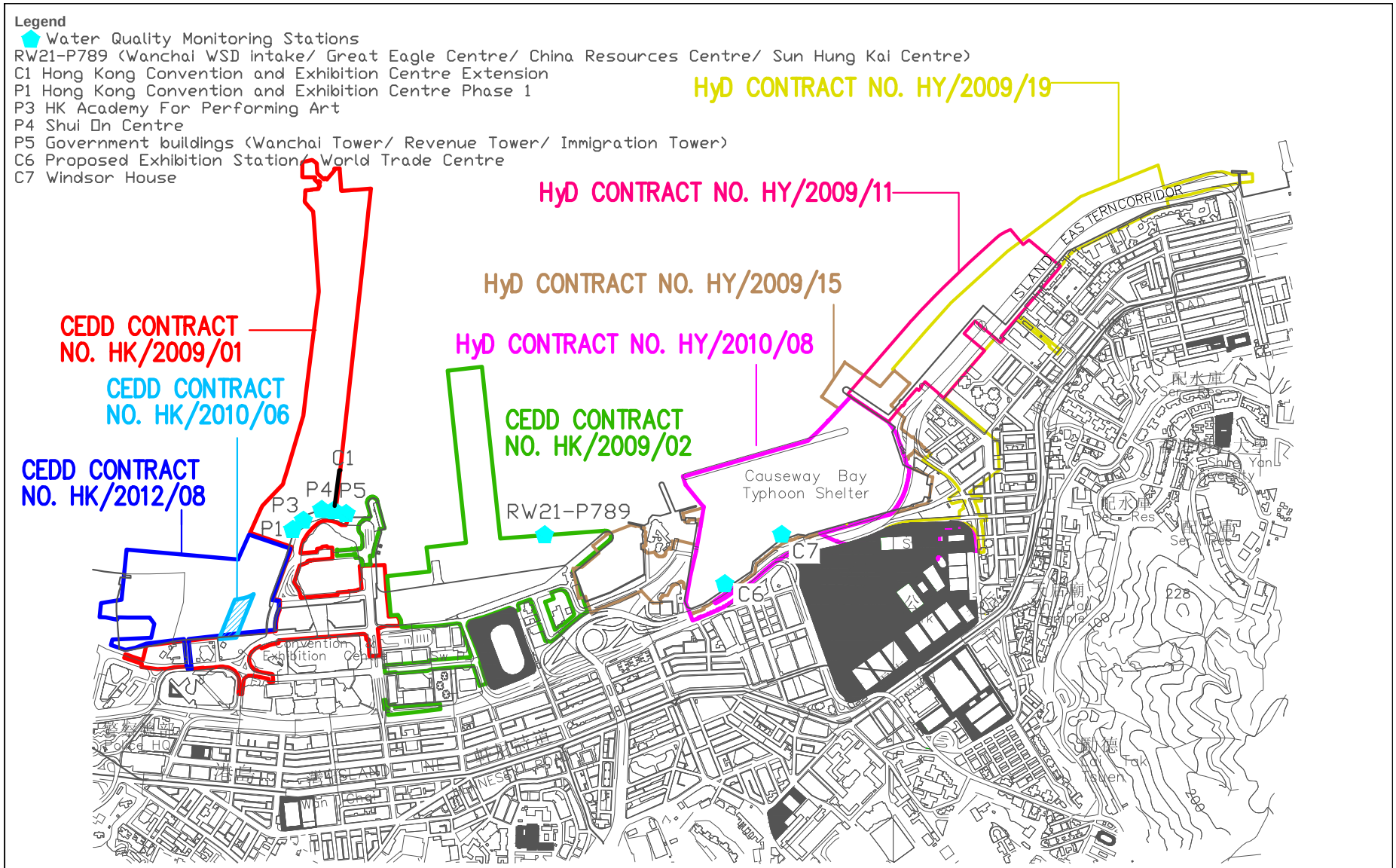

C6 AND C7: EXISTING SEAWATER INTAKE
: ODOUR PATROL ROUTES FOR CONSTRUCTION PHASE
: MONITORING STATION FOR DO MEASUREMENT FOR CONSTRUCTION PHASE
Odour Patrol Location
N
CAUSEWAY BAY TYPHOON SHELTER
EX-WAN CHAI PUBLIC CARGO WORKING AREA
Ex-WPCWA SE
Ex-WPCWA SW
OP1
OP2
OP3
OP4
OP5
OP6
OP7
OUTFALL P
OUTFALL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



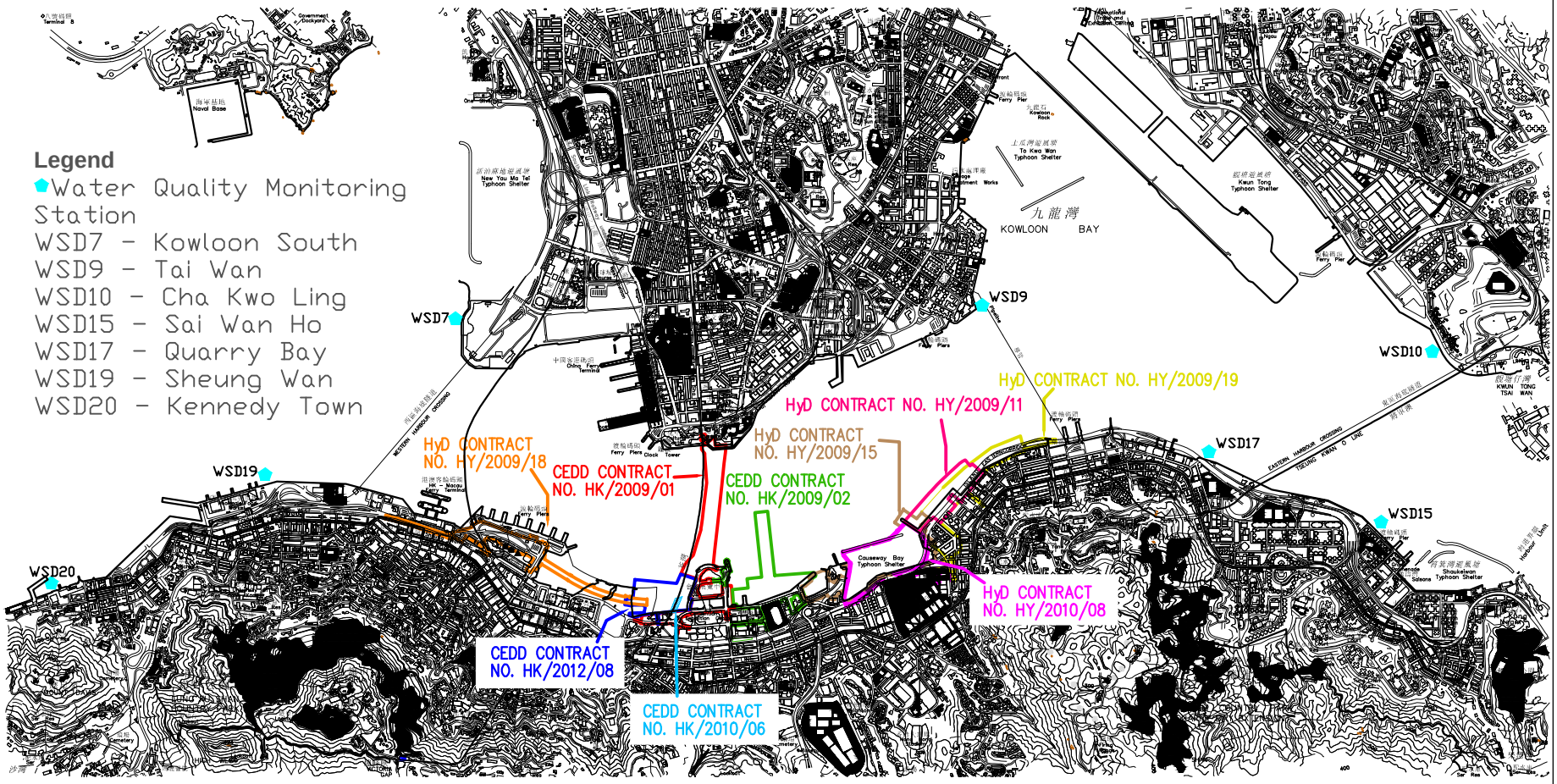
Location Plan of Additional Dissolved Oxygen Monitoring Stations for Culvert L Water Discharge Flow



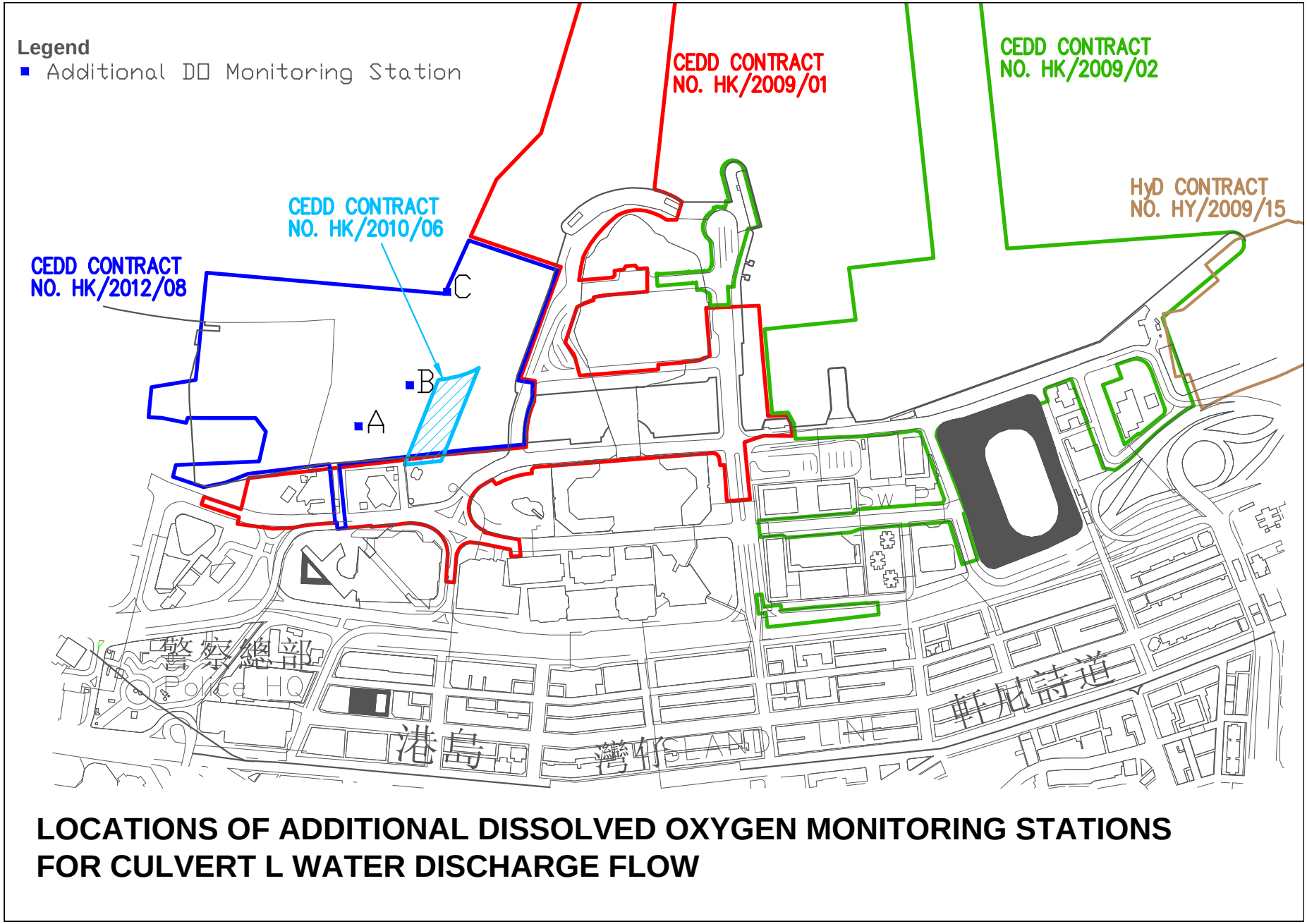
LOCATIONS OF WATER QUALITY MONITORING STATIONS



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

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.	Work site / During the construction period	Contractor		√			EIAO-TM, WPCO

Reclamation Area		Maximum Dredging Rate		Maximum Dredging Rate (m^3 per week)
		m^3 per day	m^3 per hour (for 16 hrs per day)	
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

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

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				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.

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				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

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. Tel : (852) 2873 6860
香港黃竹坑道37號利達中心地下，9樓，12樓，13樓及20樓 Fax : (852) 2555 7533
E-mail: smec@cigismec.com Website: www.cigismec.com

HOKLAS 028

CERTIFICATE OF CALIBRATION

Certificate No.: 14CA0529 01-01 **Page** 1 **of** 2

Item tested

Description:	Sound Level Meter (Type 1)	,	Microphone
Manufacturer:	B & K	,	B & K
Type/Model No.:	2236	,	4188
Serial/Equipment No.:	2100736	,	2157055
Adaptors used:	-	,	-

Item submitted by

Customer Name:	Lam Geotechnics Limited
Address of Customer:	-
Request No.:	-
Date of receipt:	29-May-2014

Date of test: 29-May-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Multi function sound calibrator	B&K 4226	2288444	22-Jun-2014	CIGISMEC
Signal generator	DS 360	33873	09-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1000 ± 10 hPa

Test specifications

1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.

3, The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 30-May-2014 **Company Chop:**

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. Tel : (852) 2873 6860
香港黃竹坑道37號利達中心地下、9樓、12樓、13樓及20樓 Fax : (852) 2555 7533
E-mail: smec@cigismec.com Website: www.cigismec.com

HOKLAS 028

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 14CA0529 01-01 **Page** 2 **of** 2

1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertainty (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
	C	Pass	1.0	2.1
	Lin	Pass	2.0	2.2
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
	C	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100μs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor $1/10^3$ at 4kHz	Pass	0.3	
	1 ms burst duty factor $1/10^4$ at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertainty (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip **Date:** 29-May-2014

Checked by: Lam Tze Wai **Date:** 30-May-2014

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

綜合試驗有限公司
SOILS & MATERIALS ENGINEERING CO., LTD.
G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong.
香港黃竹坑道37號利達中心地下、9樓、12樓、13樓及20樓
E-mail: smec@cigismec.com Website: www.cigismec.com
Tel : (852) 2873 6860
Fax : (852) 2555 7533
A CIGIS GROUP COMPANY

Sound level meter type: 2236 Serial No. 2100736 Date 29-May-2014
Microphone type: 4188 Serial No. 2157055
Report: 14CA0529 01-01

7943.0	94.0	91.0	90.9	1.5	3.0	-0.1
12590.0	94.0	87.8	87.7	3.0	6.0	-0.1

Frequency weighting Lin:

Frequency	Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
Hz	dB	dB	dB	+	-	dB
1000.0	94.0	94.0	94.0	0.0	0.0	0.0
31.6	94.0	94.0	94.0	1.5	1.5	0.0
63.1	94.0	94.0	93.9	1.5	1.5	-0.1
125.9	94.0	94.0	94.0	1.0	1.0	0.0
251.2	94.0	94.0	94.0	1.0	1.0	0.0
501.2	94.0	94.0	94.0	1.0	1.0	0.0
1995.0	94.0	94.0	94.0	1.0	1.0	0.0
3981.0	94.0	94.0	94.0	1.0	1.0	0.0
7943.0	94.0	94.0	94.1	1.5	3.0	0.1
12590.0	94.0	94.0	94.1	3.0	6.0	0.1

TIME WEIGHTING FAST TEST

Time weighting F is tested on the reference range with a single sinusoidal burst of duration 200 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
109.0	108.0	108.0	1.0	1.0	0.0

TIME WEIGHTING SLOW TEST

Time weighting S is tested on the reference range with a single sinusoidal burst of duration 500 ms at a frequency 2000 Hz and an amplitude which produces an indication 4 dB below the upper limit of the primary indicator range when the signal is continuous. (Weight A, Maximum hold)

Ref. level	Expected level	Actual level	Tolerance(dB)		Deviation
dB	dB	dB	+	-	dB
109.0	104.9	105.2	1.0	1.0	0.3

PEAK RESPONSE TEST

The onset time of the peak detector is tested on the reference range by comparing the response to a 100 us rectangular test pulse with the response to a 10 ms reference pulse of the same amplitude. The amplitude of the 10 ms reference pulse is such as to produce an indication 1 dB below the upper limit of the primary indicator range.

Positive polarities: (Weighting C, set the generator signal to single, Lcpmax)

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
112.0	112.0	111.7	2.0	-0.3

Negative polarities:

Ref. level	Response to 10 ms	Response to 100 us	Tolerance	Deviation
dB	dB	dB	+/- dB	dB
112.0	112.0	111.7	2.0	-0.3

RMS ACCURACY TEST

The RMS detector accuracy is tested on the reference range for a crest factor of 3.

Test frequency: 2000 Hz
Amplitude: 2 dB below the upper limit of the primary indicator range.

綜合試驗有限公司
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Fax : (852) 2555 7533
A CIGIS GROUP COMPANY

Test Data for Sound Level Meter

Sound level meter type: 2236 Serial No. 2100736 Date 29-May-2014
Microphone type: 4188 Serial No. 2157055
Report: 14CA0529 01-01

Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz. (Set to INT)

	Ref. Level	Expected level	Tone burst signal	Tolerance	Deviation
Time wighting	dB	dB	indication(dB)	+/- dB	dB
Slow	111.0+6.6	111.0	110.8	0.5	-0.2

TIME WEIGHTING IMPULSE TEST

Time weighting I is tested on the reference range (Set the SLM to LAImax)
Test frequency: 2000 Hz
Amplitude: The upper limit of the primary indicator range.

Single sinusoidal burst of duration 5 ms:

Ref. Level	Single burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
113.0	104.2	104.2	2.0	0.0

Repeated at 100 Hz

Ref. Level	Repeated burst indication		Tolerance	Deviation
dB	Expected (dB)	Actual (dB)	+/- dB	dB
113.0	110.3	110.3	1.0	0.0

TIME AVERAGING TEST

This test compares the SLM reading for continuous sine signals with readings obtained from a sine tone burst sequence having the same RMS level. The test level is 30 dB below the upper limit of the linearity range and repeated for Type 1 SLM with 40 dB below the upper limit of the linearity.

Frequency of tone burst: 4000 Hz
Duration of tone burst: 1 ms

Repetition Time	Level of tone burst	Expected Leq	Actual Leq	Tolerance	Deviation	Remarks
msec	dB	dB	dB	+/- dB	dB	
1000	83.0	83.0	82.7	1.0	-0.3	60s integ.
10000	73.0	73.0	72.7	1.0	-0.3	6min. integ.

PULSE RANGE AND SOUND EXPOSURE LEVEL TEST

The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range

Test frequency: 4000 Hz
Integration time: 10 sec
The integrating sound level meter set to Leq:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10	116.0	86.0	85.8	1.7	-0.2

The integrating sound level meter set to SEL:

Duration	Rms level of	Expected	Actual	Tolerance	Deviation
msec	tone burst (dB)	dB	dB	+/- dB	dB
10.0	116.0	96.0	95.9	1.7	-0.1

OVERLOAD INDICATION TEST

For SLM capable of operating in a non-integrating mode.
Test frequency: 2000 Hz

綜合試驗有限公司
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E-mail: smec@cigismec.com Website: www.cigismec.com
Tel : (852) 2873 6860
Fax : (852) 2555 7533
A CIGIS GROUP COMPANY

Sound level meter type: 2236 Serial No. 2100736 Date 29-May-2014
Microphone type: 4188 Serial No. 2157055
Report: 14CA0529 01-01

Amplitude: 2 dB below the upper limit of the primary indicator range.
Burst repetition frequency: 40 Hz
Tone burst signal: 11 cycles of a sine wave of frequency 2000 Hz.

Level	Level reduced by	Further reduced	Difference	Tolerance	Deviation
at overload (dB)	1 dB	3 dB	dB	dB	dB
126.7	125.7	122.7	3.0	1.0	0.0

For integrating SLM, with the instrument indicating Leq.
For integrating SLM, with the instrument indicating Leq and set to the reference range. The test signal as following:
The test tone burst signal is superimposed on a baseline signal corresponding to the lower limit of reference range
Test frequency: 4000 Hz
Integration time: 10 sec
Single burst duration: 1 msec

Rms level	Level reduced by	Expected level	Actual level	Tolerance	Deviation
at overload (dB)	1 dB	dB	dB	dB	dB
130.6	129.6	89.6	89.4	2.2	-0.2

ACOUSTIC TEST

The acoustic test of the complete SLM is tested at the frequency 125 Hz and 8000 Hz using a B&K type 4226 Multifunction Acoustic Calibrator. The test is performed in A weighting.

Frequency	Expected level	Actual level	Tolerance (dB)		Deviation
Hz	dB	Measured (dB)	+	-	dB
1000	94.0	94.0	0.0	0.0	0.0
125	77.9	78.2	1.0	1.0	0.3
8000	92.9	92.8	1.5	3.0	-0.1

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

綜合試驗有限公司
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E-mail: smec@cigismec.com Website: www.cigismec.com

CERTIFICATE OF CALIBRATION

Certificate No.: 14CA0529 01-02 **Page:** 1 **of** 2

Item tested

Description:	Acoustical Calibrator (Class 1)
Manufacturer:	Rion Co., Ltd.
Type/Model No.:	NC-73
Serial/Equipment No.:	10465798
Adaptors used:	-

Item submitted by

Curstomer:	Lam Geotechnics Limited
Address of Customer:	-
Request No.:	-
Date of receipt:	29-May-2014

Date of test: 30-May-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	13-May-2015	SCL
Preamplifier	B&K 2673	2239857	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	17-Dec-2014	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	60 ± 10 %
Air pressure:	1000 ± 10 hPa

Test specifications

1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.

2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.

3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

Details of the performed measurements are presented on **page 2** of this certificate.

Approved Signatory: Huang Jian Min/Feng Jun Qi **Date:** 30-May-2014 **Company Chop:**

Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

綜合試驗有限公司
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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.: 14CA0529 01-02 **Page:** 2 **of** 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 μPa)

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.57	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz **STF = 0.001 dB**

Estimated expanded uncertainty 0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz **Actual Frequency = 965.6 Hz**

Estimated expanded uncertainty 0.1 Hz Coverage factor k = 2.2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz **TND = 0.9 %**

Estimated expanded uncertainty 0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

- End -

Calibrated by: Fung Chi Yip **Date:** 30-May-2014

Checked by: Lam Tze Wai **Date:** 30-May-2014

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: **DEREK LO** **WORK ORDER:** **HK1410093**

CLIENT: **LAM GEOTECHNICS LIMITED**

DATE RECEIVED: **23/05/2014**

DATE OF ISSUE: **30/05/2014**

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:	28 May, 2014

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: HK1410093
DATE OF ISSUE: 28th May, 2014
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203010
Equipment No.:	--
Date of Calibration:	28 May, 2014
Date of next Calibration:	28 August, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	4.16	+4.0
10	9.80	-2.0
40	38.5	-3.75
100	104	+4.0
400	420	+5.0
1000	970	-3.0
	Tolerance Limit (±%)	10.0

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1410074

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 30/04/2014

DATE OF ISSUE: 04/05/2014

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:	04 May, 2014

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1410074

DATE OF ISSUE: 04th May, 2014

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203016
Equipment No.:	--
Date of Calibration:	04 May, 2014
Date of next Calibration:	04 August, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	3.90	-2.5
10	10.1	+1.0
40	41.0	+2.5
100	96.0	-4.0
400	414	+3.5
1000	970	-3.0
	Tolerance Limit (±%)	10.0

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Information supplied by customer:

CONTACT: DEREK LO **WORK ORDER:** HK1410073

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 30/04/2014

DATE OF ISSUE: 04/05/2014

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.:	1203025
Equipment No.:	--
Date of Calibration:	04 May, 2014

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

WORK ORDER: HK1410073
DATE OF ISSUE: 04th May, 2014
CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter
Brand Name:	Xin Rui
Model No.:	WGZ-3B
Serial No.:	1203025
Equipment No.:	--
Date of Calibration:	04 May, 2014
Date of next Calibration:	04 August, 2014

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	---
4	3.86	-3.5
10	10.3	+3.0
40	42.0	+5.0
100	97.0	-3.0
400	406	+1.5
1000	975	-2.5
	Tolerance Limit (±%)	10.0

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS PAULINE WONG	**WORK ORDER:**	HK1412271
CLIENT:	LAM ENVIRONMENTAL SERVICES LTD	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	22/04/2014
		DATE OF ISSUE:	02/05/2014
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 acceptance criteria of ALS will be followed.

Scope of Test:	Dissolved Oxygen, pH, Salinity and Temperature
Description:	Mulitmeter
Brand Name:	YSI
Model No.:	PROFESSIONAL PLUS
Serial No.:	11F100597
Equipment No.:	--
Date of Calibration:	29 April, 2014

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.

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

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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}

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1412271
Date of Issue: 02/05/2014
Client: LAM ENVIRONMENTAL SERVICES LTD

Description: Mulitmeter
Brand Name: YSI
Model No.: PROFESSIONAL PLUS
Serial No.: 11F100597
Equipment No.: --
Date of Calibration: 29 April, 2014 Date of next Calibration: 29 July, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.94	3.88	-0.06
6.10	5.90	-0.20
7.98	7.89	-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	4.16	+0.16
7.0	7.13	+0.13
10.0	10.06	+0.06
	Tolerance Limit (pH Unit)	±0.20

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	9.12	-8.8
20	18.80	-6.0
30	27.70	-7.7
	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.**

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
10.5	10.2	-0.3
25.5	25.3	-0.2
37.5	37.5	0.0
	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 -
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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS PAULINE WONG	**WORK ORDER:**	HK1411576
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	14/04/2014
		DATE OF ISSUE:	17/04/2014
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 acceptance criteria of ALS will be followed.

Scope of Test:	pH, Temperature, Salinity and Dissolved Oxygen
Description:	Multimeter
Brand Name:	YSI
Model No.:	Professional Plus
Serial No.:	11F100420
Equipment No.:	--
Date of Calibration:	17 April, 2014

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.

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1411576
Date of Issue: 17/04/2014
Client: LAM GEOTECHNICS LIMITED

Description: Multimeter
Brand Name: YSI
Model No.: Professional Plus
Serial No.: 11F100420
Equipment No.: --
Date of Calibration: 17 April, 2014 Date of next Calibration: 17 July, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.86	3.79	-0.07
5.65	5.76	+0.11
8.02	8.12	+0.10
	Tolerance Limit (mg/L)	±0.20

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.97	-0.03
7.0	6.92	-0.08
10.0	9.97	-0.03
	Tolerance Limit (pH Unit)	±0.20

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	9.57	-4.3
20	18.85	-5.7
30	30.14	+0.5
	Tolerance Limit (%)	±10.0

Temperature **Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.**

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
9.5	9.9	+0.4
22.0	22.1	+0.1
39.0	39.3	+0.3
	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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	MS PAULINE WONG	**WORK ORDER:**	HK1418648
CLIENT:	LAM GEOTECHNICS LIMITED	**LABORATORY:**	HONG KONG
ADDRESS:	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG	**DATE RECEIVED:**	13/06/2014
		DATE OF ISSUE:	24/06/2014
PROJECT:	--		

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.
The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test:	pH, Temperature, Salinity and Dissolved Oxygen
Description:	Multimeter
Brand Name:	YSI
Model No.:	Professional Plus
Serial No.:	13A100242
Equipment No.:	--
Date of Calibration:	19 June, 2014

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.

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK1418648
Date of Issue: 24/06/2014
Client: LAM GEOTECHNICS LIMITED

Description: Multimeter
Brand Name: YSI
Model No.: Professional Plus
Serial No.: 13A100242
Equipment No.: --
Date of Calibration: 19 June, 2014 Date of next Calibration: 19 September, 2014

Parameters:

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
4.38	4.52	+0.14
6.42	6.46	+0.04
7.95	7.87	-0.08
	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	4.07	+0.07
7.0	7.02	+0.02
10.0	10.13	+0.13
	Tolerance Limit (pH Unit)	±0.20

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	--
10	9.40	-6.0
20	18.81	-6.0
30	28.28	-5.7
	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.**

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
12.2	12.1	-0.1
24.4	24.2	-0.2
33.7	33.6	-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

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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**	:	13-May-14
Equipment no.	:	EL452	**Calbration Due Dat**	:	13-Jul-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	300 Kelvin	**Pressure, P_a**	1007 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 TSP						
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	1.7459	61	60.6070
2	5.1	5.1	10.2	1.5847	51	50.6715
3	4.1	4.1	8.2	1.4223	43	42.7230
4	2.5	2.5	5.0	1.1136	27	26.8261
5	1.4	1.4	2.8	0.8368	14	13.9098

By Linear Regression of Y on X

Slope, m	=	50.9704	Intercept, b	=	-29.3862
Correlation Coefficient*	=	0.9991			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Derek Lo
Date	:	13-May-14	**Date**	:	13-May-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	**Calbration Date**	:	2-Jul-14
Equipment no.	:	EL452	**Calbration Due Dat**	:	2-Sep-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1009	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 TSP						
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	6.3	6.3	12.6	1.7557	60	59.4747
2	5.0	5.0	10.0	1.5656	49	48.5710
3	4.0	4.0	8.0	1.4018	40	39.6498
4	2.7	2.7	5.4	1.1541	26	25.7724
5	1.2	1.2	2.4	0.7739	12	11.8949

By Linear Regression of Y on X

Slope, m	=	48.8251	Intercept, b	=	-27.8761
Correlation Coefficient*	=	0.9947			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Pauline Wong
Date	:	2-Jul-14	**Date**	:	2-Jul-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	13-May-14
Equipment no.	:	EL449	**Calbration Due Dat**	:	13-Jul-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	300	Kelvin	**Pressure, P_a**	1007	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 TSP

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	1.7319	61	60.6070
2	5.2	5.2	10.4	1.6000	53	52.6586
3	4.0	4.0	8.0	1.4050	43	42.7230
4	2.4	2.4	4.8	1.0914	26	25.8325
5	1.4	1.4	2.8	0.8368	14	13.9098

By Linear Regression of Y on X

Slope, m	=	52.1379	Intercept, b	=	-30.3543
Correlation Coefficient*	=	0.9995			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Derek Lo
Date	:	13-May-14	**Date**	:	13-May-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA2a	**Calbration Date**	:	2-Jul-14
Equipment no.	:	EL449	**Calbration Due Dat**	:	2-Sep-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1009	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 TSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.1	6.1	12.2	1.7279	60	59.4747
2	4.7	4.7	9.4	1.5183	54	53.5273
3	3.7	3.7	7.4	1.3487	48	47.5798
4	2.3	2.3	4.6	1.0662	40	39.6498
5	1.4	1.4	2.8	0.8349	30	29.7374

By Linear Regression of Y on X

Slope, m	=	32.7993	Intercept, b	=	3.3810
Correlation Coefficient*	=	0.9971			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Pauline Wong
Date	:	2-Jul-14	**Date**	:	2-Jul-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA3a	**Calbration Date**	:	21-Jun-14
Equipment no.	:	EL333	**Calbration Due Dat**	:	21-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1003	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 TSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	5.5	5.5	11.0	1.6392	61	60.3860
2	4.4	4.4	8.8	1.4676	52	51.4766
3	3.7	3.7	7.4	1.3469	43	42.5672
4	2.4	2.4	4.8	1.0874	26	25.7383
5	1.5	1.5	3.0	0.8626	14	13.8591

By Linear Regression of Y on X

Slope, m = 61.3367 Intercept, b = -39.7515

Correlation Coefficient* = 0.9987

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	21-Jun-14	**Date**	:	21-Jun-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	13-May-14
Equipment no.	:	EL390	**Calbration Due Dat**	:	13-Jul-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	300 Kelvin	**Pressure, P_a**	1007 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 TSP

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	6.0	6.0	12.0	1.7177	62	61.6006
2	5.1	5.1	10.2	1.5847	53	52.6586
3	4.0	4.0	8.0	1.4050	43	42.7230
4	2.6	2.6	5.2	1.1354	27	26.8261
5	1.5	1.5	3.0	0.8657	13	12.9163

By Linear Regression of Y on X

Slope, m	=	56.9672	Intercept, b	=	-37.0880
Correlation Coefficient*	=	0.9993			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Derek Lo
Date	:	13-May-14	**Date**	:	13-May-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA4a	**Calbration Date**	:	2-Jul-14
Equipment no.	:	EL390	**Calbration Due Dat**	:	2-Sep-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1009	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 TSP

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	6.2	6.2	12.4	1.7419	60	59.4747
2	5.3	5.3	10.6	1.6115	52	51.5448
3	4.1	4.1	8.2	1.4190	43	42.6236
4	2.7	2.7	5.4	1.1541	24	23.7899
5	1.4	1.4	2.8	0.8349	12	11.8949

By Linear Regression of Y on X

Slope, m	=	53.7477	Intercept, b	=	-34.8156
Correlation Coefficient*	=	0.9945			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	2-Jul-14	**Date**	:	2-Jul-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA5a	**Calbration Date**	:	21-Jun-14
Equipment no.	:	EL380	**Calbration Due Dat**	:	21-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1003	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 TSP						
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	5.6	5.6	11.2	1.6539	61	60.3860
2	4.8	4.8	9.6	1.5323	52	51.4766
3	3.5	3.5	7.0	1.3104	42	41.5772
4	2.3	2.3	4.6	1.0648	26	25.7383
5	1.2	1.2	2.4	0.7729	13	12.8691

By Linear Regression of Y on X

Slope, m	=	53.8279	Intercept, b	=	-29.7835
Correlation Coefficient*	=	0.9974			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	21-Jun-14	**Date**	:	21-Jun-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	13-May-14
Equipment no.	:	EL448	**Calbration Due Dat**	:	13-Jul-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	300	Kelvin	**Pressure, P_a**	1007	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 TSP						
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	1.7319	62	61.6006
2	5.0	5.0	10.0	1.5692	52	51.6650
3	4.0	4.0	8.0	1.4050	42	41.7294
4	2.4	2.4	4.8	1.0914	25	24.8389
5	1.5	1.5	3.0	0.8657	13	12.9163

By Linear Regression of Y on X

Slope, m = 55.9776 Intercept, b = -36.0474

Correlation Coefficient* = 0.9995

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks :

Calibrated by	:	Felix Li	**Checked by**	:	Derek Lo
Date	:	13-May-14	**Date**	:	13-May-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA6a	**Calbration Date**	:	2-Jul-14
Equipment no.	:	EL448	**Calbration Due Dat**	:	2-Sep-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	302	Kelvin	**Pressure, P_a**	1009	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 TSP						
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	6.2	6.2	12.4	1.7419	60	59.4747
2	5.1	5.1	10.2	1.5811	52	51.5448
3	4.3	4.3	8.6	1.4529	42	41.6323
4	2.3	2.3	4.6	1.0662	23	22.7986
5	1.6	1.6	3.2	0.8916	12	11.8949

By Linear Regression of Y on X

Slope, m	=	55.4756	Intercept, b	=	-37.2410
Correlation Coefficient*	=	0.9984			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Henry Lau	**Checked by**	:	Pauline Wong
Date	:	2-Jul-14	**Date**	:	2-Jul-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	MA1e	**Calbration Date**	:	13-May-14
Equipment no.	:	EL455	**Calbration Due Dat**	:	13-Jul-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	300	Kelvin	**Pressure, P_a**	1007	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 TSP						
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	1.7459	62	61.6006
2	5.1	5.1	10.2	1.5847	52	51.6650
3	4.1	4.1	8.2	1.4223	43	42.7230
4	2.5	2.5	5.0	1.1136	26	25.8325
5	1.6	1.6	3.2	0.8936	15	14.9034

By Linear Regression of Y on X

Slope, m	=	54.6458	Intercept, b	=	-34.5374
Correlation Coefficient*	=	0.9995			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Derek Lo
Date	:	13-May-14	**Date**	:	13-May-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	MA1e	**Calbration Date**	:	21-Jun-14
Equipment no.	:	EL455	**Calbration Due Dat**	:	21-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1003	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 TSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.5	6.5	13.0	1.7808	57	56.4262
2	4.2	4.2	8.4	1.4342	48	47.5168
3	3.3	3.3	6.6	1.2728	42	41.5772
4	2.1	2.1	4.2	1.0181	32	31.6779
5	1.4	1.4	2.8	0.8338	28	27.7182

By Linear Regression of Y on X

Slope, m = 31.5589 Intercept, b = 0.9687

Correlation Coefficient* = 0.9958

Calibration Accepted = Yes/~~No~~**

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	21-Jun-14	**Date**	:	21-Jun-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	MA1w	**Calbration Date**	:	21-Jun-14
Equipment no.	:	EL080	**Calbration Due Dat**	:	21-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1003	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 TSP						
Calibration Point	**Manometer Reading H (inches of water)** (up)	(down)	(difference)	**Q_{std}** (m^3 / min.) **X-axis**	**Continuous Flow Recorder, W** (CFM)	**IC** $(W(P_a/1013.3x298/T_a)^{1/2}/35.31)$ **Y-axis**
1	6.3	6.3	12.6	1.7534	53	52.4665
2	5.1	5.1	10.2	1.5790	48	47.5168
3	4.2	4.2	8.4	1.4342	40	39.5974
4	2.6	2.6	5.2	1.1313	30	29.6980
5	1.8	1.8	3.6	0.9436	24	23.7584

By Linear Regression of Y on X

Slope, m	=	36.2029	Intercept, b	=	-10.9288
Correlation Coefficient*	=	0.9965			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	21-Jun-14	**Date**	:	21-Jun-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL1	**Calbration Date**	:	21-Jun-14
Equipment no.	:	EL222	**Calbration Due Dat**	:	21-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	301	Kelvin	**Pressure, P_a**	1003	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 TSP						
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	5.8	5.8	11.6	1.6830	56	55.4363
2	4.4	4.4	8.8	1.4676	48	47.5168
3	3.7	3.7	7.4	1.3469	43	42.5672
4	2.2	2.2	4.4	1.0417	34	33.6578
5	1.5	1.5	3.0	0.8626	26	25.7383

By Linear Regression of Y on X

Slope, m	=	35.2472	Intercept, b	=	-4.1457
Correlation Coefficient*	=	0.9981			
Calibration Accepted	=	Yes/~~No~~**			

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

** Delete as appropriate.

Remarks : _____

Calibrated by	:	Felix Li	**Checked by**	:	Pauline Wong
Date	:	21-Jun-14	**Date**	:	21-Jun-14

Lam Geotechincs Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	ACL2a	**Calbration Date**	:	3-Jun-14
Equipment no.	:	EL111	**Calbration Due Dat**	:	3-Aug-14

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition					
Temperature, T_a	303	Kelvin	**Pressure, P_a**	1004	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 TSP						
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	6.2	6.2	12.4	1.7347	61	60.2164
2	5.1	5.1	10.2	1.5746	53	52.3191
3	4.2	4.2	8.4	1.4302	46	45.4091
4	2.6	2.6	5.2	1.1282	33	32.5761
5	1.6	1.6	3.2	0.8879	23	22.7045

By Linear Regression of Y on X

Slope, m	=	44.0592	Intercept, b	=	-16.8841
Correlation Coefficient*	=	0.9993			
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	:	3-Jun-14	**Date**	:	3-Jun-14

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
July 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						28-Jun 24hr TSP
29-Jun	30-Jun 24hr TSP (CMA1b) 1hr TSP Impact WQM Mid-flood 7:16 Mid-ebb 14:14	1-Jul	2-Jul 24hr TSP (CMA3a) 1hr TSP (CMA3a) Noise (Daytime) (M1a, M3a) Impact WQM Mid-flood 8:23 Mid-ebb 15:13	3-Jul Noise (Daytime) (M4b, M5b, M6)	4-Jul 24hr TSP Noise (Daytime) (M2b) Impact WQM Mid-flood 9:39 Mid-ebb 16:14	5-Jul 1hr TSP
6-Jul	7-Jul Noise (Daytime) (M1a) Impact WQM Mid-flood 1:08 Mid-ebb 7:54	8-Jul Noise (Daytime) (M2b, M3a, M4b, M5b, M6)	9-Jul Impact WQM Mid-ebb 9:45 Mid-flood 16:47	10-Jul 24hr TSP	11-Jul 1hr TSP Impact WQM Mid-ebb 11:17 Mid-flood 18:28	12-Jul
13-Jul	14-Jul Impact WQM Mid-flood 6:56 Mid-ebb 13:41	15-Jul Noise (Daytime) (M1a, M2b, M3a, M4	16-Jul 24hr TSP Impact WQM Mid-flood 8:40 Mid-ebb 15:13	17-Jul 1hr TSP Noise (Daytime) (M5b, M6)	18-Jul Impact WQM Mid-flood 10:36 Mid-ebb 16:52	19-Jul
20-Jul	21-Jul Noise (Daytime) (M1a, M2b, M3a) Impact WQM Mid-flood 1:15 Mid-ebb 8:34	22-Jul 24hr TSP Noise (Daytime) (M4b, M5b, M6)	23-Jul 24hr TSP (CMA5a) 1hr TSP Impact WQM Mid-ebb 10:23 Mid-flood 17:26	24-Jul	25-Jul Impact WQM Mid-ebb 11:40 Mid-flood 18:40	26-Jul

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
August 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Jul	28-Jul 24hr TSP Noise (Daytime) Impact WQM Mid-ebb 13:19 Mid-flood 20:01	29-Jul 1hr TSP Noise (Daytime)	30-Jul Impact WQM Mid-ebb 14:21 Mid-flood 20:56	31-Jul	1-Aug Impact WQM Mid-ebb 15:25 Mid-flood 22:04	2-Aug 24hr TSP
3-Aug Impact WQM Mid-flood 23:25	4-Aug 1hr TSP Noise (Daytime) Impact WQM Mid-ebb 6:00	5-Aug Noise (Daytime)	6-Aug Impact WQM Mid-flood 0:58 Mid-ebb 8:22	7-Aug	8-Aug 24hr TSP Impact WQM Mid-ebb 10:12 Mid-flood 17:30	9-Aug 1hr TSP
10-Aug	11-Aug Noise (Daytime) Impact WQM Mid-ebb 12:38 Mid-flood 19:28	12-Aug Noise (Daytime)	13-Aug Impact WQM Mid-ebb 13:24 Mid-flood 20:06	14-Aug 24hr TSP	15-Aug 1hr TSP Impact WQM Mid-flood 9:24 Mid-ebb 15:34	16-Aug
17-Aug Impact WQM Mid-flood 23:37	18-Aug Noise (Daytime) Impact WQM Mid-ebb 6:50	19-Aug Noise (Daytime)	20-Aug 24hr TSP Impact WQM Mid-ebb 9:12 Mid-flood 16:39	21-Aug 1hr TSP	22-Aug Impact WQM Mid-ebb 10:42 Mid-flood 17:45	23-Aug
24-Aug	25-Aug Noise (Daytime) Impact WQM Mid-ebb 12:24 Mid-flood 18:56	26-Aug 24hr TSP Noise (Daytime)	27-Aug 1hr TSP Impact WQM Mid-ebb 13:26 Mid-flood 19:43	28-Aug	29-Aug Impact WQM Mid-ebb 14:32 Mid-flood 20:41	30-Aug

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)					
02/07/14	14:42	Fine	72.1	74.5	67.0	72	72	75
07/07/14	13:04	Fine	72.5	74.5	68.0	72	61	75
15/07/14	14:05	Fine	72.4	75.0	68.0	72	59	75
21/7/2014	14:10	Fine	72.9	75.0	68.5	72	65	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)					
04/07/14	11:20	Fine	69.5	74.6	66.0	68	65	75
08/07/14	9:20	Fine	73.8	76.5	69.5	68	73	75
15/07/14	16:54	Fine	75.4	78.0	69.0	68	75	75
21/7/2014	9:00	Fine	75.4	78.5	69.0	68	75	75

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)					
02/07/14	16:41	Fine	66.7	68.0	65.0	69	67	75
08/07/14	10:04	Fine	67.6	69.0	65.5	69	68	75
15/07/14	15:49	Fine	66.4	67.5	65.0	69	66	75
21/07/14	15:40	Sunny	68.1	69.5	66.0	69	68	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)					
03/07/14	9:21	Fine	67.6	68.5	66.0	67	56	75
08/07/14	10:45	Fine	69.6	71.0	67.5	67	66	75
15/07/14	15:03	Fine	70.9	73.0	67.5	67	68	75
22/07/14	13:07	Fine	67.6	68.5	66.0	67	56	75

Location: M5b - City Garden

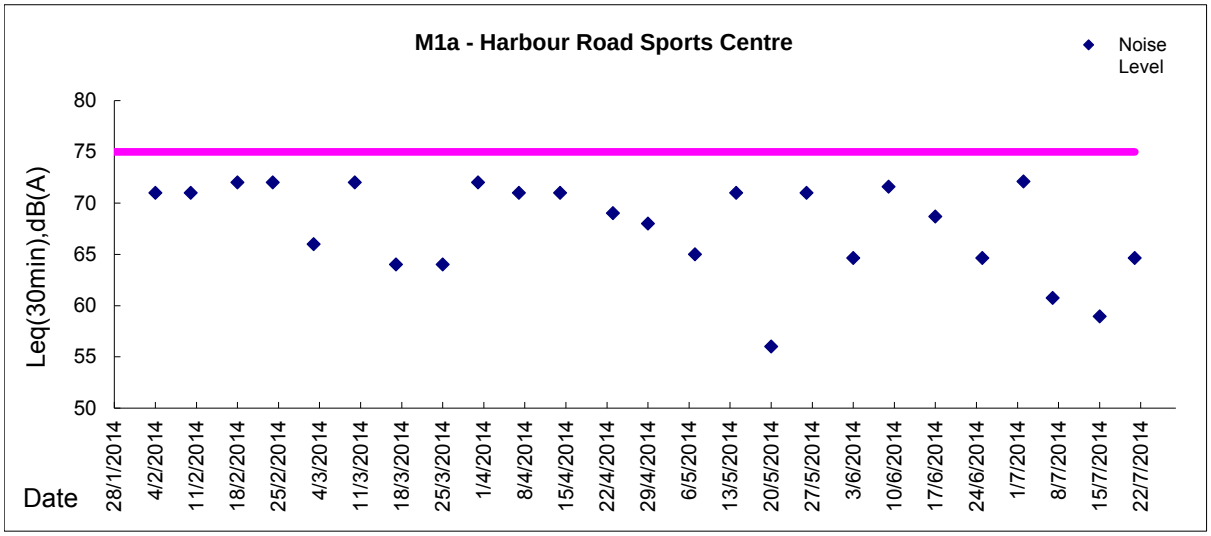
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30min)					
03/07/14	10:48	Fine	71.2	73.5	68.5	68	68	75
08/07/14	13:03	Fine	70.6	72.0	68.5	68	67	75
17/07/14	15:28	Fine	70.1	71.0	68.5	68	66	75
22/07/14	9:54	Fine	71.8	73.5	69.0	68	69	75

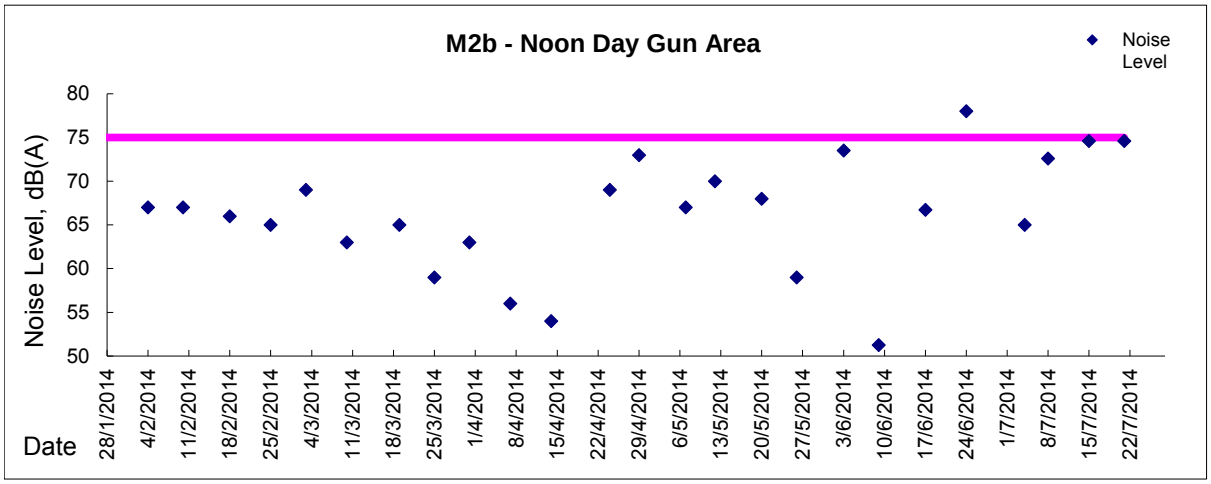
Location: M6 - HK Baptist Church Henrietta Secondary School

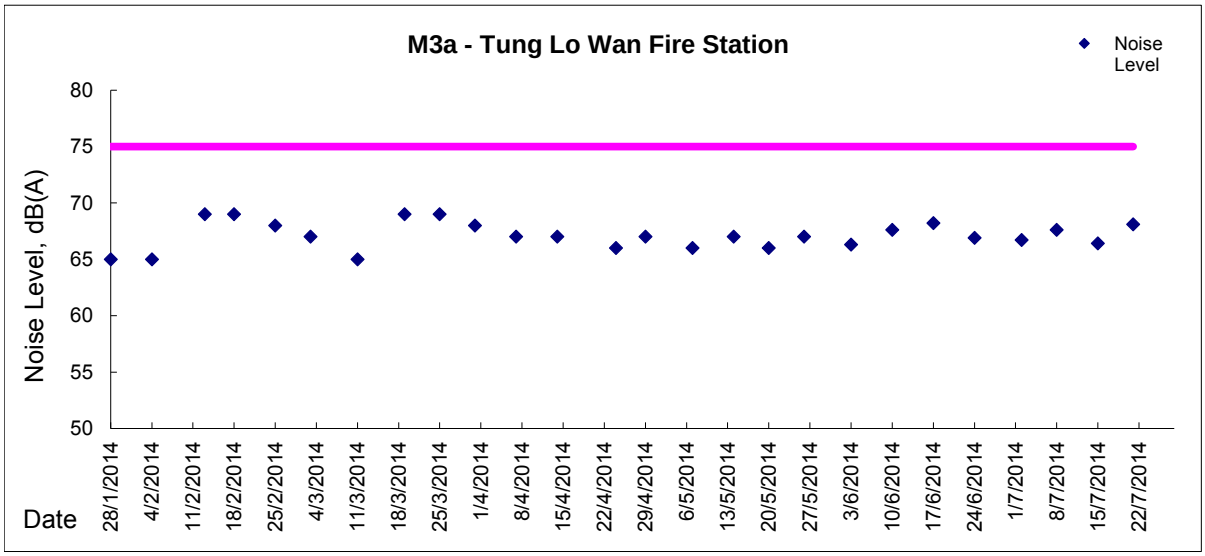
Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
			Unit: dB(A), (30-min)					
03/07/14	10:10	Fine	71.0	72.0	69.0	71	59	65
08/07/14	14:04	Fine	72.9	74.0	71.0	71	69	70
17/07/14	16:47	Fine	73.6	75.0	71.5	71	70	70
22/07/14	10:49	Fine	71.5	73.0	68.5	71	64	70

Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

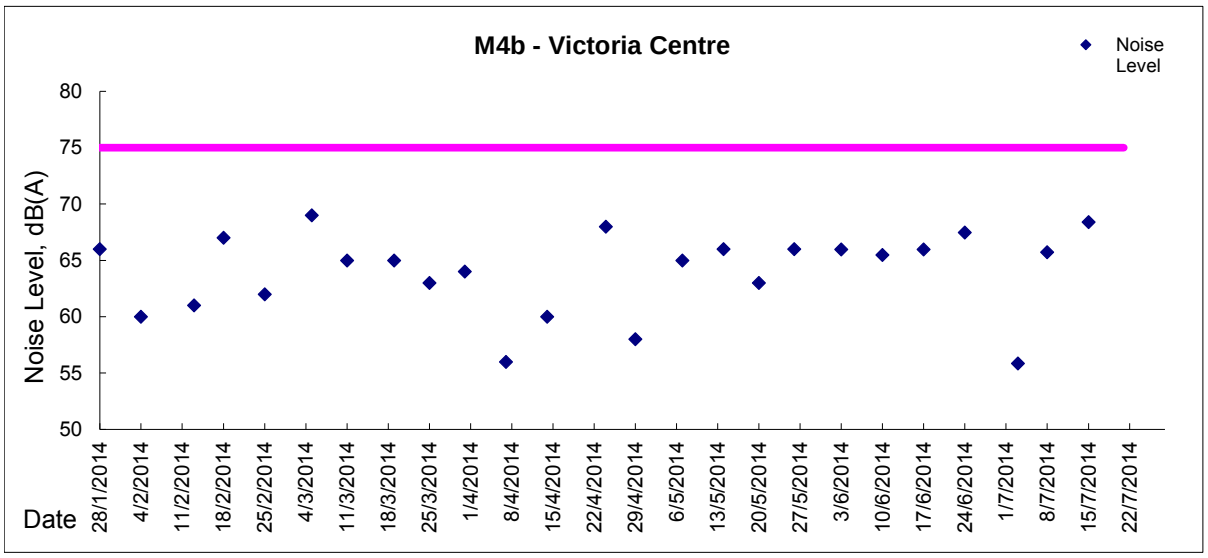


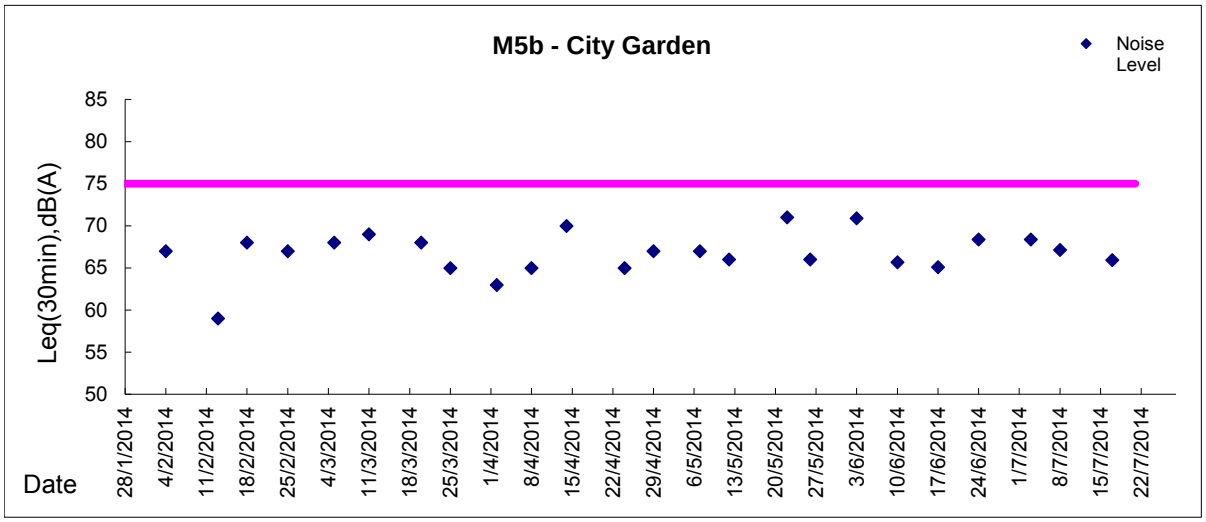


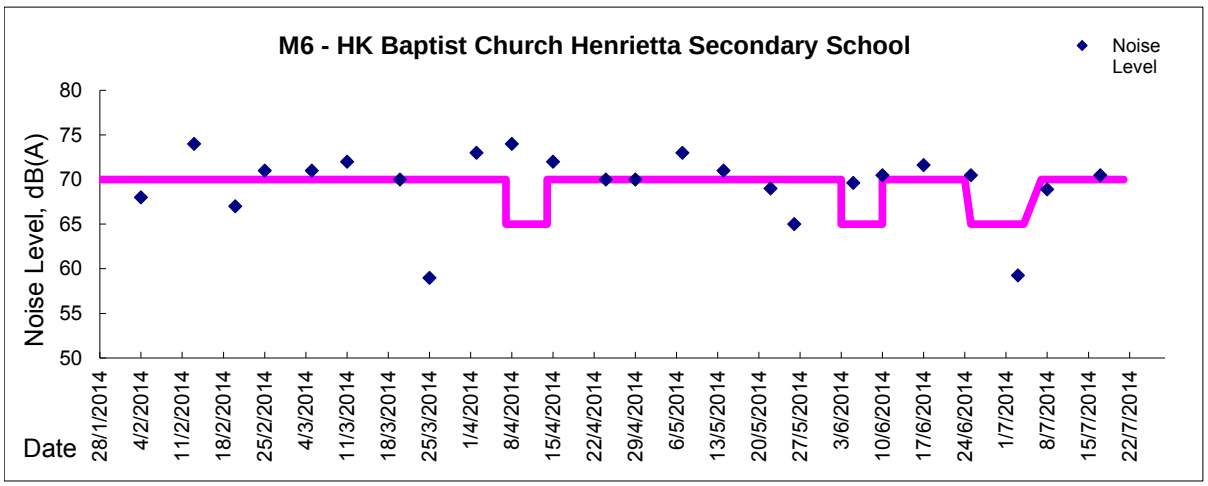


Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)







Appendix 5.3

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

Location: CMA1b - Oil 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-Jun-14	11:23	Rainy	009099	2.8131	2.9004	4788.86	4812.86	24.00	1.38	1.38	1.38	1987	44
4-Jul-14	8:00	Fine	009126	2.8668	2.9631	4812.86	4836.86	24.00	1.38	1.38	1.38	1981	49
10-Jul-14	8:00	Rainy	009135	2.8548	2.9473	4839.87	4863.87	24.00	1.38	1.38	1.38	1984	47
16-Jul-14	8:00	Rainy	009112	2.8215	2.9487	4866.88	4890.88	24.00	1.41	1.41	1.41	2028	63
22-Jul-14	8:00	Rainy	009242	2.8569	3.1129	4893.88	4917.88	24.00	1.35	1.35	1.35	1940	132

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 28 June 2014 to 30 June 2014.

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		
30-Jun-14	8:00	Rainy	008996	2.8250	2.8312	4785.86	4786.86	1.00	1.32	1.32	1.32	79	78
30-Jun-14	9:07	Rainy	008916	2.8426	2.8441	4786.86	4787.86	1.00	1.32	1.32	1.32	79	19
30-Jun-14	10:15	Rainy	009097	2.8132	2.8174	4787.86	4788.86	1.00	1.32	1.32	1.32	79	53
5-Jul-14	8:09	Rainy	009130	2.8581	2.8657	4836.86	4837.86	1.00	1.38	1.38	1.38	83	92
5-Jul-14	9:17	Rainy	009132	2.8466	2.8559	4837.86	4838.86	1.00	1.38	1.38	1.38	83	113
5-Jul-14	10:26	Rainy	009134	2.8555	2.8625	4838.86	4839.86	1.00	1.38	1.38	1.38	83	85
11-Jul-14	10:30	Rainy	009141	2.8611	2.8711	4863.87	4864.87	1.00	1.38	1.38	1.38	83	121
11-Jul-14	13:00	Rainy	009108	2.8116	2.8171	4864.87	4865.87	1.00	1.38	1.38	1.38	83	66
11-Jul-14	14:10	Rainy	009110	2.8192	2.8243	4865.87	4866.87	1.00	1.38	1.38	1.38	83	62
17-Jul-14	9:05	Rainy	009268	2.8320	2.8535	4890.88	4891.88	1.00	1.41	1.41	1.41	84	254
17-Jul-14	10:16	Rainy	009270	2.8301	2.8528	4891.88	4892.88	1.00	1.41	1.41	1.41	84	269
17-Jul-14	13:00	Rainy	009272	2.8401	2.8663	4892.88	4893.88	1.00	1.41	1.41	1.41	84	310
23-Jul-14	10:20	Fine	009361	2.8417	2.8518	4917.88	4918.88	1.00	1.40	1.40	1.40	84	120
23-Jul-14	13:00	Fine	009363	2.8624	2.8756	4918.88	4919.88	1.00	1.40	1.40	1.40	84	157
23-Jul-14	14:10	Fine	009365	2.8773	2.8906	4919.88	4920.88	1.00	1.40	1.40	1.40	84	158

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		
28-Jun-14	8:00	Fine	008995	2.8315	2.9456	14496.37	14520.37	24.00	1.36	1.37	1.37	1966	58
4-Jul-14	8:00	Fine	009100	2.8155	2.8862	14523.37	14547.37	24.00	1.36	1.27	1.32	1898	37
10-Jul-14	8:00	Rainy	009136	2.8441	2.9253	14550.37	14574.37	24.00	1.36	1.27	1.32	1900	43
16-Jul-14	8:00	Rainy	009113	2.8255	2.9432	14577.37	14601.37	24.00	1.14	1.14	1.14	1646	71
22-Jul-14	8:00	Rainy	009241	2.8471	3.0224	14604.37	14628.37	24.00	1.14	1.02	1.08	1557	113

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		
30-Jun-14	8:07	Rainy	009026	2.8453	2.8509	14520.37	14521.37	1.00	1.28	1.28	1.28	77	73
30-Jun-14	9:13	Rainy	009096	2.8278	2.8362	14521.37	14522.37	1.00	1.28	1.28	1.28	77	110
30-Jun-14	10:17	Rainy	009098	2.8074	2.8153	14522.37	14523.37	1.00	1.28	1.28	1.28	77	103
5-Jul-14	8:07	Rainy	009129	2.8569	2.8661	14547.37	14548.37	1.00	1.36	1.36	1.36	82	112
5-Jul-14	9:13	Rainy	009131	2.8366	2.8491	14548.37	14549.37	1.00	1.36	1.36	1.36	82	153
5-Jul-14	10:17	Rainy	009133	2.8405	2.8523	14549.37	14550.37	1.00	1.36	1.36	1.36	82	144
11-Jul-14	10:40	Rainy	009107	2.8311	2.8368	14574.37	14575.37	1.00	1.27	1.27	1.27	76	75
11-Jul-14	13:00	Rainy	009109	2.8175	2.8229	14575.37	14576.37	1.00	1.31	1.29	1.30	78	69
11-Jul-14	14:05	Rainy	009111	2.8243	2.8324	14576.37	14577.37	1.00	1.29	1.29	1.29	78	104
17-Jul-14	8:50	Rainy	009267	2.8403	2.8465	14601.37	14602.37	1.00	1.06	1.03	1.04	63	99
17-Jul-14	9:54	Rainy	009269	2.8381	2.8453	14602.37	14603.37	1.00	1.03	1.03	1.03	62	116
17-Jul-14	13:00	Rainy	009271	2.8342	2.8414	14603.37	14604.37	1.00	1.03	1.03	1.03	62	117
23-Jul-14	10:30	Fine	009362	2.8663	2.8771	14828.37	14829.37	1.00	1.14	1.14	1.14	68	158
23-Jul-14	13:00	Fine	009364	2.8677	2.8799	14829.37	14830.37	1.00	1.14	1.14	1.14	68	179
23-Jul-14	14:10	Fine	009366	2.8577	2.8710	14830.37	14831.37	1.00	1.14	1.14	1.14	68	195

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		
2-Jul-14	15:37	Rainy	009204	2.8457	2.9621	1918.39	1942.39	24.00	1.29	1.32	1.30	1876	62
4-Jul-14	8:00	Fine	009128	2.8579	3.0430	1942.39	1966.39	24.00	1.37	1.37	1.37	1971	94
10-Jul-14	8:00	Rainy	009288	2.8445	2.9638	1969.38	1993.38	24.00	1.37	1.37	1.37	1973	60
16-Jul-14	8:00	Rainy	009191	2.8607	2.9931	1996.38	2020.38	24.00	1.41	1.41	1.41	2028	65
22-Jul-14	8:00	Rainy	009234	2.8531	3.0795	2023.38	2047.38	24.00	1.41	1.40	1.41	2024	112

Remarks: Due to interruption of electricity, the 24hr was rescheduled from 28 June 2014 to 2 July 2014.

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		
2-Jul-14	10:00	Rainy	009145	2.8647	2.8827	1915.39	1916.39	1.00	1.31	1.31	1.31	79	228
2-Jul-14	13:00	Rainy	009127	2.8545	2.8678	1916.39	1917.39	1.00	1.31	1.31	1.31	79	169
2-Jul-14	14:18	Rainy	009203	2.8579	2.8627	1917.39	1918.39	1.00	1.24	1.27	1.25	75	64
5-Jul-14	9:15	Rainy	008971	2.8237	2.8337	1966.39	1967.39	1.00	1.31	1.31	1.31	79	127
5-Jul-14	10:20	Rainy	009291	2.8337	2.8381	1967.39	1968.39	1.00	1.31	1.31	1.31	79	56
5-Jul-14	13:00	Rainy	009289	2.8507	2.8575	1968.39	1969.39	1.00	1.31	1.31	1.31	79	86
11-Jul-14	10:25	Rainy	009285	2.8413	2.8480	1993.38	1994.38	1.00	1.31	1.31	1.31	79	85
11-Jul-14	13:00	Rainy	009188	2.8511	2.8580	1994.38	1995.38	1.00	1.31	1.31	1.31	79	87
11-Jul-14	14:10	Rainy	009190	2.8442	2.8508	1995.38	1996.38	1.00	1.31	1.31	1.31	79	84
17-Jul-14	8:50	Rainy	009193	2.8516	2.8581	2020.38	2021.38	1.00	1.31	1.31	1.31	79	82
17-Jul-14	9:57	Rainy	009236	2.8473	2.8561	2021.38	2022.38	1.00	1.31	1.31	1.31	79	112
17-Jul-14	13:00	Rainy	009238	2.8636	2.8725	2022.38	2023.38	1.00	1.31	1.31	1.31	79	113
23-Jul-14	9:45	Fine	009218	2.8546	2.8621	2047.38	2048.38	1.00	1.31	1.31	1.31	79	95
23-Jul-14	10:55	Fine	009250	2.8732	2.8834	2048.38	2049.38	1.00	1.31	1.31	1.31	79	130
23-Jul-14	13:00	Fine	009253	2.8574	2.8673	2049.38	2050.38	1.00	1.31	1.31	1.31	79	126

Remarks: Due to interruption of electricity, the 24hr was rescheduled from 30 June 2014 to 2 July 2014.

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		
28-Jun-14	8:00	Fine	009092	2.8199	2.9067	18722.99	18746.99	24.00	1.32	1.32	1.32	1901	46
4-Jul-14	8:00	Fine	009152	2.8515	2.9195	18749.98	18773.98	24.00	1.32	1.32	1.32	1899	36
10-Jul-14	8:00	Rainy	009287	2.8477	2.9019	18776.98	18800.98	24.00	1.29	1.29	1.29	1853	29
16-Jul-14	8:00	Rainy	009192	2.8593	2.9383	18803.98	18827.98	24.00	1.32	1.32	1.32	1901	42
22-Jul-14	8:00	Rainy	009194	2.8528	3.0105	18830.98	18854.98	24.00	1.32	1.32	1.32	1898	83

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		
30-Jun-14	13:00	Rainy	009148	2.8534	2.8618	18746.99	18747.99	1.00	1.32	1.32	1.32	79	106
30-Jun-14	14:09	Rainy	009149	2.8539	2.8625	18747.99	18748.99	1.00	1.32	1.32	1.32	79	108
30-Jun-14	15:15	Rainy	009150	2.8563	2.8641	18748.99	18749.99	1.00	1.32	1.32	1.32	79	98
5-Jul-14	9:05	Rainy	008970	2.8186	2.8252	18773.98	18774.98	1.00	1.29	1.29	1.29	77	86
5-Jul-14	10:13	Rainy	009292	2.8477	2.8507	18774.98	18775.98	1.00	1.29	1.29	1.29	77	39
5-Jul-14	13:00	Rainy	009290	2.8335	2.8365	18775.98	18776.98	1.00	1.29	1.29	1.29	77	39
11-Jul-14	10:10	Rainy	009286	2.8503	2.8533	18800.98	18801.98	1.00	1.29	1.29	1.29	77	39
11-Jul-14	13:00	Rainy	009219	2.8447	2.8486	18801.98	18802.98	1.00	1.29	1.29	1.29	77	50
11-Jul-14	14:15	Rainy	009189	2.8494	2.8531	18802.98	18803.98	1.00	1.29	1.29	1.29	77	48
17-Jul-14	8:40	Rainy	009233	2.8549	2.8586	18827.98	18828.98	1.00	1.32	1.32	1.32	79	47
17-Jul-14	9:46	Rainy	009235	2.8390	2.8464	18828.98	18829.98	1.00	1.32	1.32	1.32	79	93
17-Jul-14	11:00	Rainy	009237	2.8518	2.8604	18829.98	18830.98	1.00	1.32	1.32	1.32	79	109
23-Jul-14	9:55	Fine	009217	2.8418	2.8498	18854.98	18855.98	1.00	1.32	1.32	1.32	79	101
23-Jul-14	11:00	Fine	009249	2.8462	2.8550	18855.95	18856.98	1.03	1.32	1.32	1.32	81	108
23-Jul-14	13:00	Fine	009252	2.8548	2.8644	18856.98	18857.98	1.00	1.32	1.32	1.32	79	122

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		
28-Jun-14	8:00	Fine	009001	2.8301	2.9728	19704.04	19728.04	24.00	1.38	1.38	1.38	1990	72
4-Jul-14	8:00	Fine	009151	2.8460	2.9525	19731.03	19755.03	24.00	1.29	1.29	1.29	1863	57
10-Jul-14	8:00	Rainy	009282	2.8603	2.9462	19758.03	19782.03	24.00	1.26	1.26	1.26	1813	47
16-Jul-14	8:00	Rainy	009266	2.8378	2.9760	19785.03	19809.03	24.00	1.26	1.26	1.26	1814	76
23-Jul-14	16:10	Fine	009404	2.8574	2.9761	19823.88	19847.88	24.00	1.31	1.31	1.31	1885	63

Remarks: Due to interruption of electricity, the 24hr was rescheduled from 22 July 2014 to 23 July 2014.

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		
30-Jun-14	8:26	Rainy	008550	2.8546	2.8627	19728.04	19729.04	1.00	1.38	1.38	1.38	83	98
30-Jun-14	9:36	Rainy	009012	2.8310	2.8400	19729.04	19730.04	1.00	1.38	1.38	1.38	83	108
30-Jun-14	10:45	Rainy	009013	2.8206	2.8284	19730.04	19731.04	1.00	1.38	1.38	1.38	83	94
5-Jul-14	8:36	Rainy	009153	2.8513	2.8612	19755.03	19756.03	1.00	1.38	1.38	1.38	83	120
5-Jul-14	9:40	Rainy	009154	2.8428	2.8512	19756.03	19757.03	1.00	1.38	1.38	1.38	83	101
5-Jul-14	10:44	Rainy	009147	2.8654	2.8762	19757.03	19758.03	1.00	1.38	1.38	1.38	83	130
11-Jul-14	9:29	Rainy	009182	2.8528	2.8637	19782.03	19783.03	1.00	1.26	1.26	1.26	76	144
11-Jul-14	10:58	Rainy	009185	2.8496	2.8554	19783.03	19784.03	1.00	1.26	1.26	1.26	76	77
11-Jul-14	13:00	Rainy	009263	2.8662	2.8730	19784.03	19785.03	1.00	1.26	1.26	1.26	76	90
17-Jul-14	9:45	Rainy	009116	2.8599	2.8740	19809.03	19810.03	1.00	1.31	1.31	1.31	79	179
17-Jul-14	10:45	Rainy	009119	2.8512	2.8670	19810.03	19811.03	1.00	1.31	1.31	1.31	79	201
17-Jul-14	13:00	Rainy	009122	2.8591	2.8686	19811.03	19812.03	1.00	1.31	1.31	1.31	79	121
23-Jul-14	9:58	Fine	009374	2.8539	2.8621	19820.88	19821.88	1.00	1.31	1.31	1.31	79	104
23-Jul-14	13:00	Fine	009376	2.8517	2.8616	19821.88	19822.88	1.00	1.31	1.31	1.31	79	126
23-Jul-14	14:41	Fine	009380	2.8575	2.8667	19822.88	19823.88	1.00	1.31	1.31	1.31	79	117

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		
28-Jun-14	8:00	Fine	009003	2.8314	2.9335	18055.62	18079.62	24.00	1.33	1.33	1.33	1915	53
4-Jul-14	8:00	Fine	009146	2.8636	2.9656	18082.61	18106.61	24.00	1.35	1.35	1.35	1938	53
10-Jul-14	8:00	Rainy	009283	2.8423	2.9358	18109.61	18133.61	24.00	1.32	1.34	1.33	1917	49
16-Jul-14	8:00	Rainy	009264	2.8523	2.9745	18136.61	18160.61	24.00	1.34	1.34	1.34	1929	63
22-Jul-14	8:00	Rainy	009123	2.8533	3.0321	18163.61	18187.61	24.00	1.41	1.40	1.41	2024	88

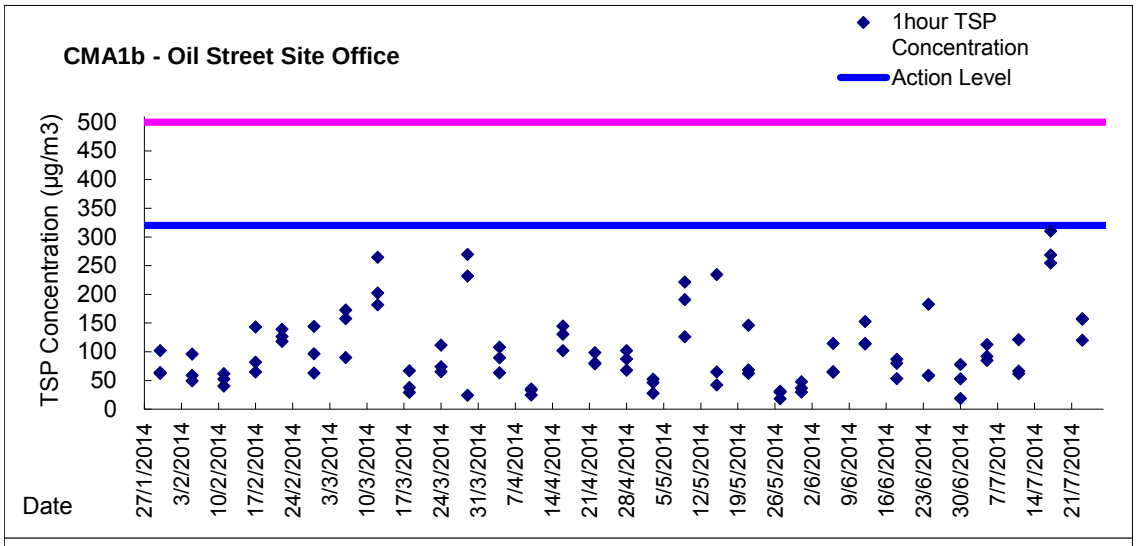
Report on 1-hour TSP monitoring

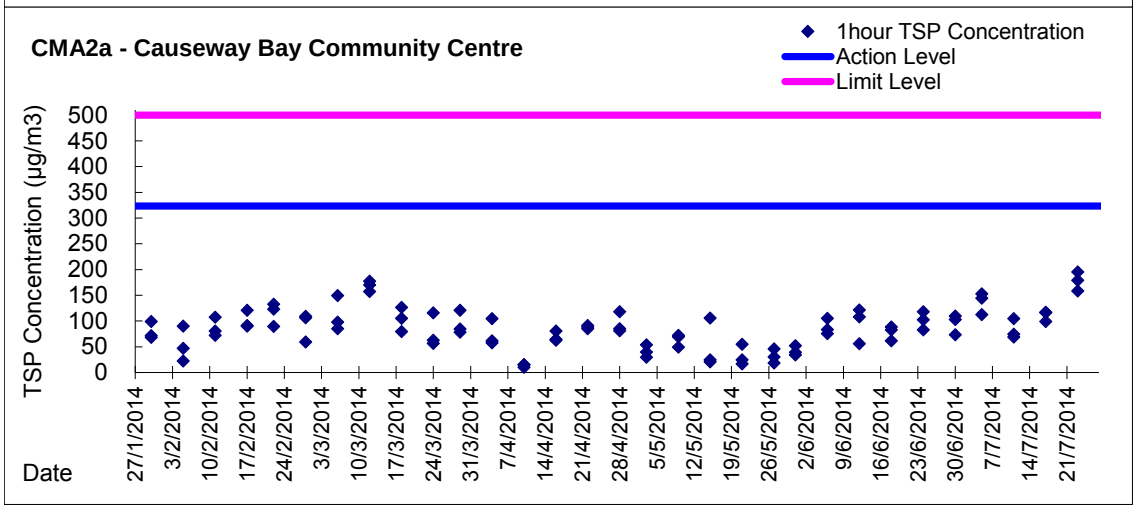
Action Level - 300.1 μ g/m^3

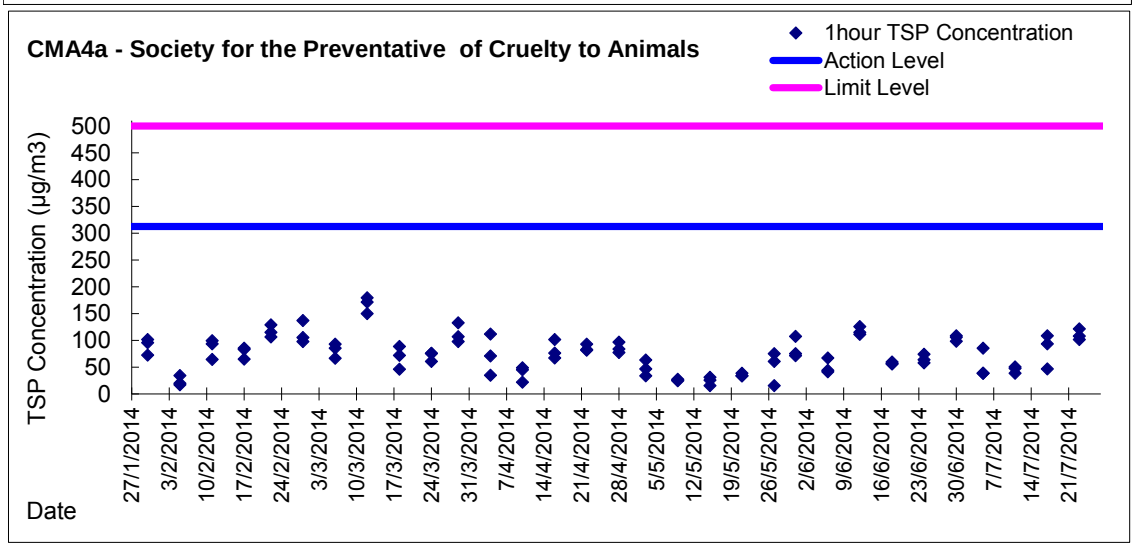
Limit Level - 500 μ g/m3

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		
30-Jun-14	8:46	Rainy	008552	2.8492	2.8589	18079.62	18080.62	1.00	1.36	1.32	1.34	80	121
30-Jun-14	9:50	Rainy	009143	2.8709	2.8813	18080.62	18081.62	1.00	1.32	1.32	1.32	79	131
30-Jun-14	10:54	Rainy	009144	2.8522	2.8615	18081.62	18082.62	1.00	1.32	1.29	1.31	78	119
5-Jul-14	8:50	Rainy	009169	2.8476	2.8570	18106.61	18107.61	1.00	1.32	1.32	1.32	79	119
5-Jul-14	9:54	Rainy	009170	2.8444	2.8533	18107.61	18108.61	1.00	1.32	1.32	1.32	79	112
5-Jul-14	10:58	Rainy	009171	2.8536	2.8626	18108.61	18109.61	1.00	1.37	1.37	1.37	82	109
11-Jul-14	9:10	Rainy	009180	2.8388	2.8481	18133.61	18134.61	1.00	1.32	1.32	1.32	79	117
11-Jul-14	10:30	Rainy	009183	2.8497	2.8571	18134.61	18135.61	1.00	1.29	1.29	1.29	77	96
11-Jul-14	13:00	Rainy	009186	2.8460	2.8502	18135.61	18136.61	1.00	1.29	1.29	1.29	77	54
17-Jul-14	9:30	Rainy	009114	2.8626	2.8800	18160.61	18161.61	1.00	1.36	1.36	1.36	81	214
17-Jul-14	10:36	Rainy	009117	2.8665	2.8753	18161.61	18162.61	1.00	1.36	1.36	1.36	81	108
17-Jul-14	13:00	Rainy	009120	2.8484	2.8561	18162.61	18163.61	1.00	1.36	1.36	1.36	81	95
23-Jul-14	9:38	Fine	009247	2.8546	2.8703	18187.61	18188.61	1.00	1.37	1.37	1.37	82	191
23-Jul-14	13:00	Fine	009375	2.8523	2.8613	18188.61	18189.61	1.00	1.34	1.34	1.34	80	112
23-Jul-14	14:27	Fine	009378	2.8518	2.8603	18189.61	18190.61	1.00	1.35	1.35	1.35	81	105

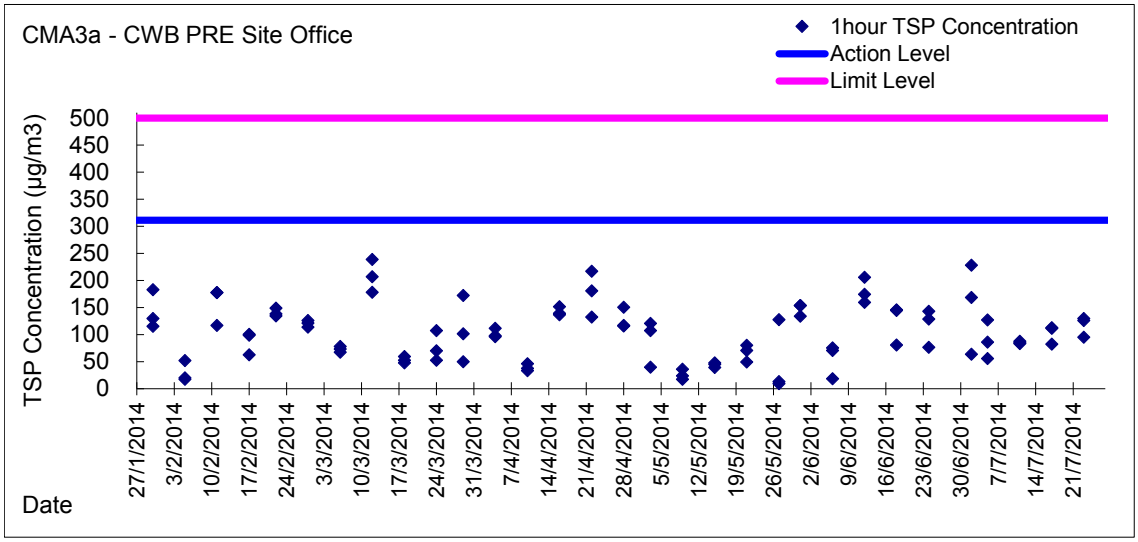
Graphic Presentation of 1 hour TSP Result

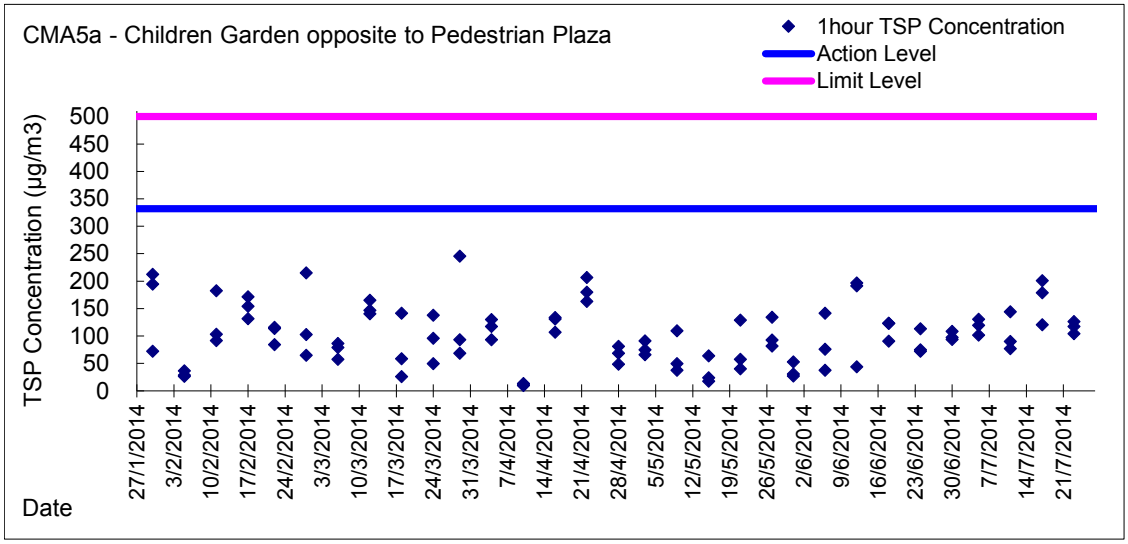


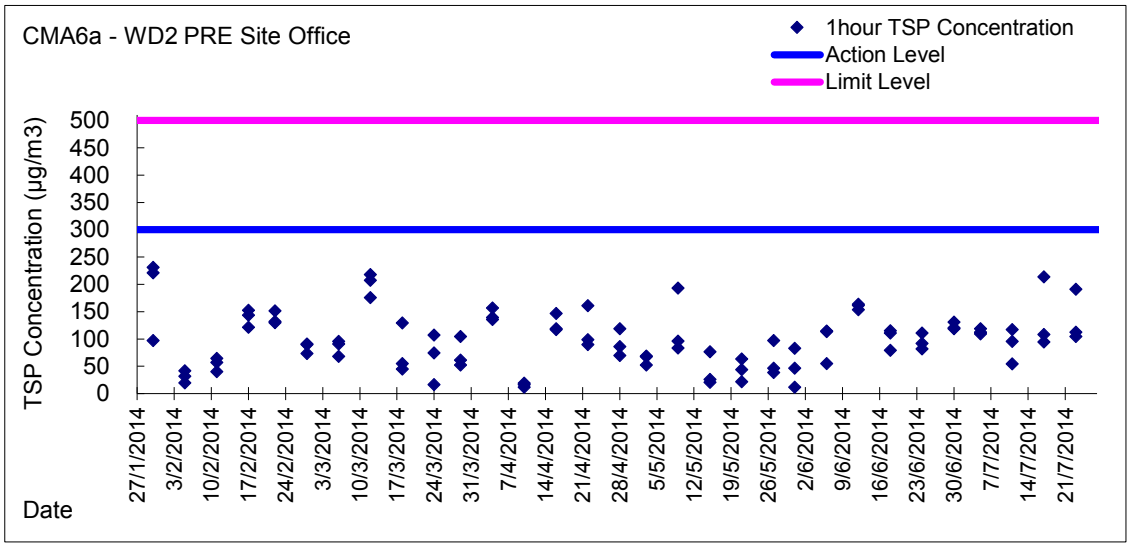




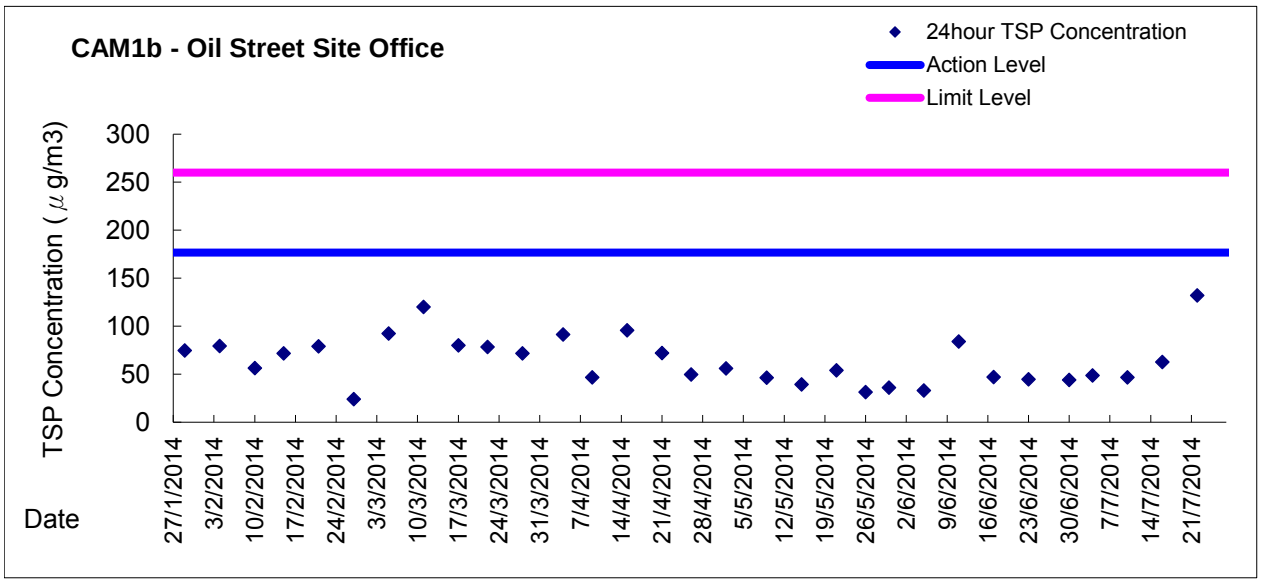
Graphic Presentation of 1 hour TSP Result

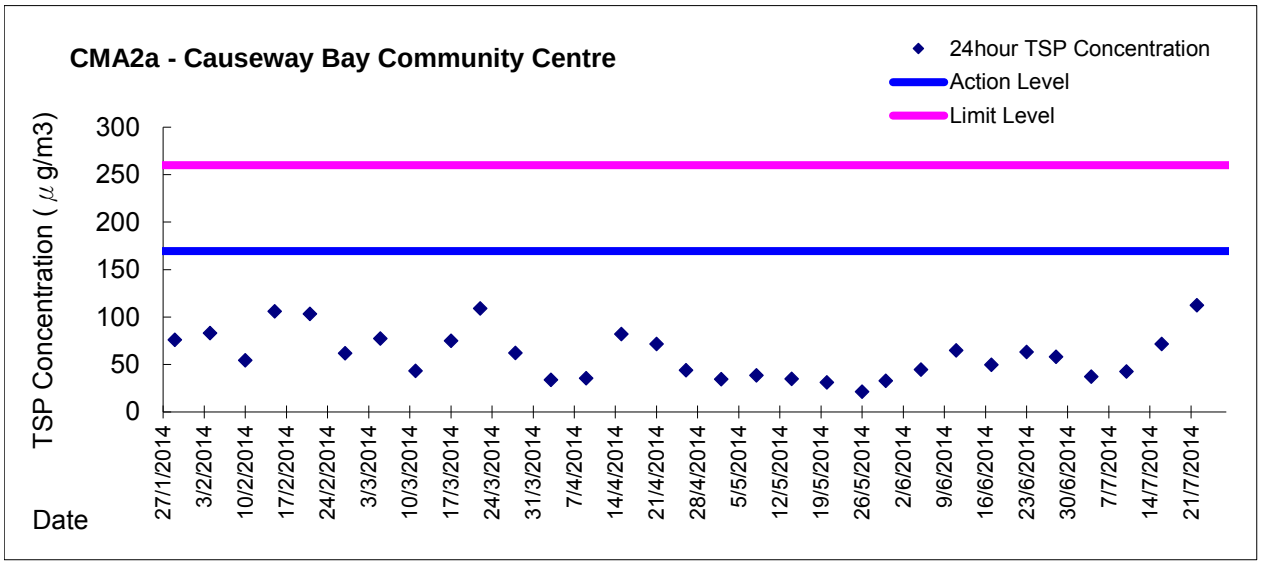


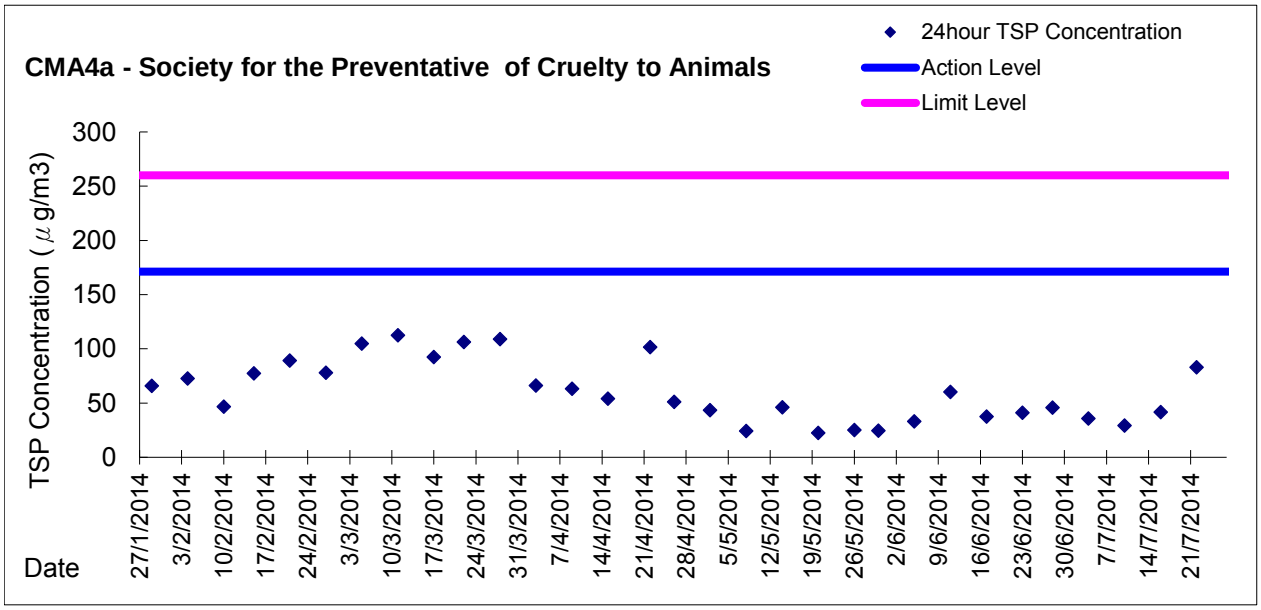




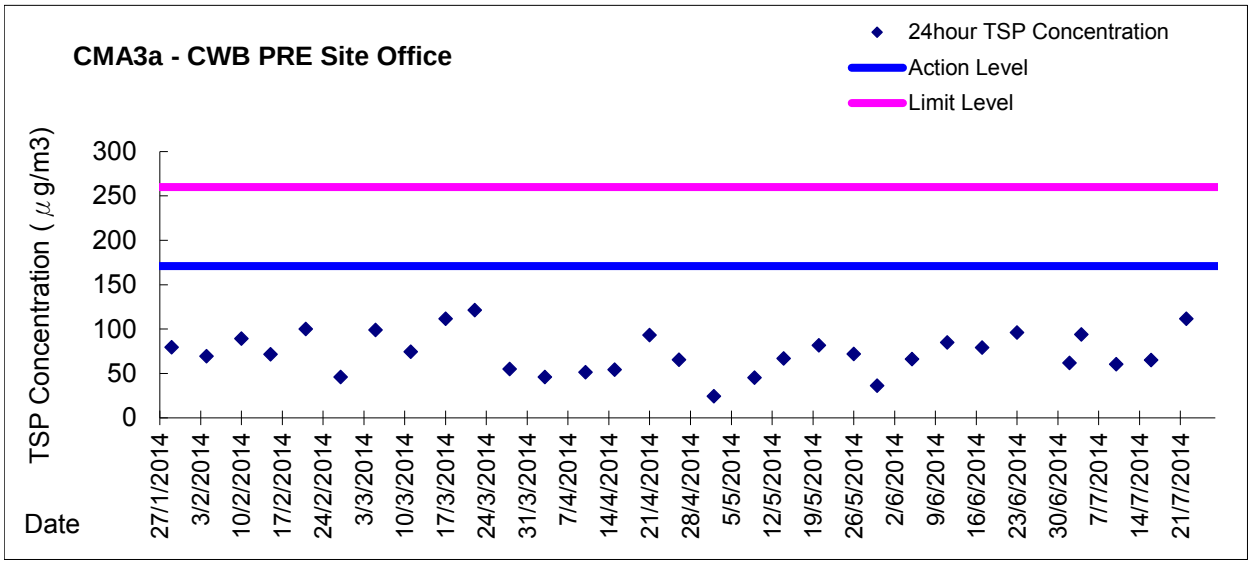
Graphic Presentation of 24 hour TSP Result

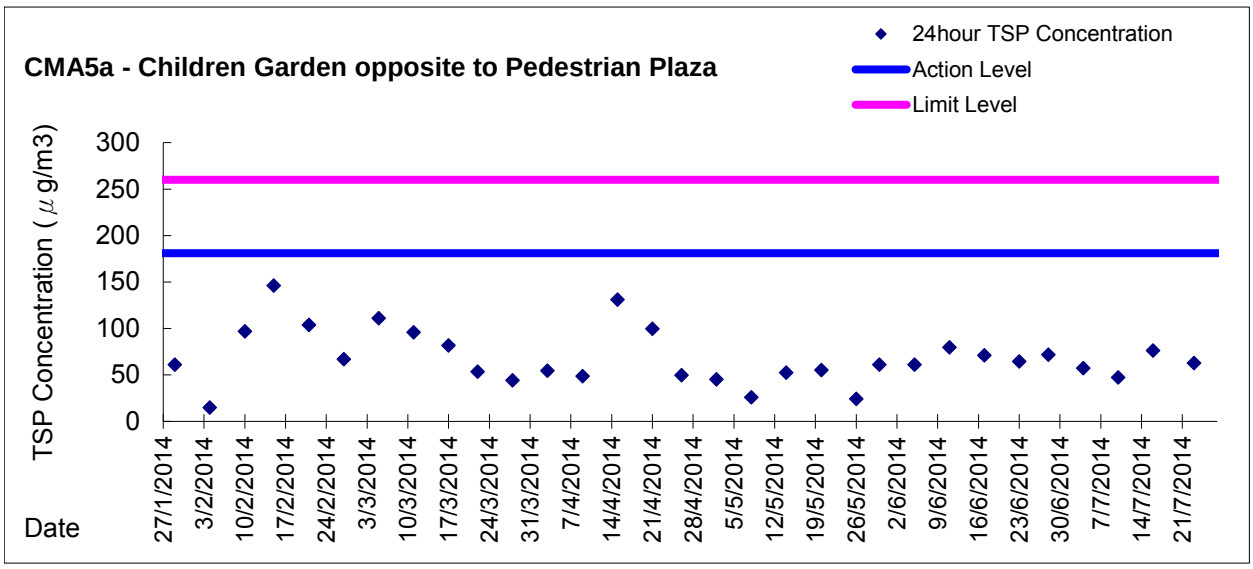


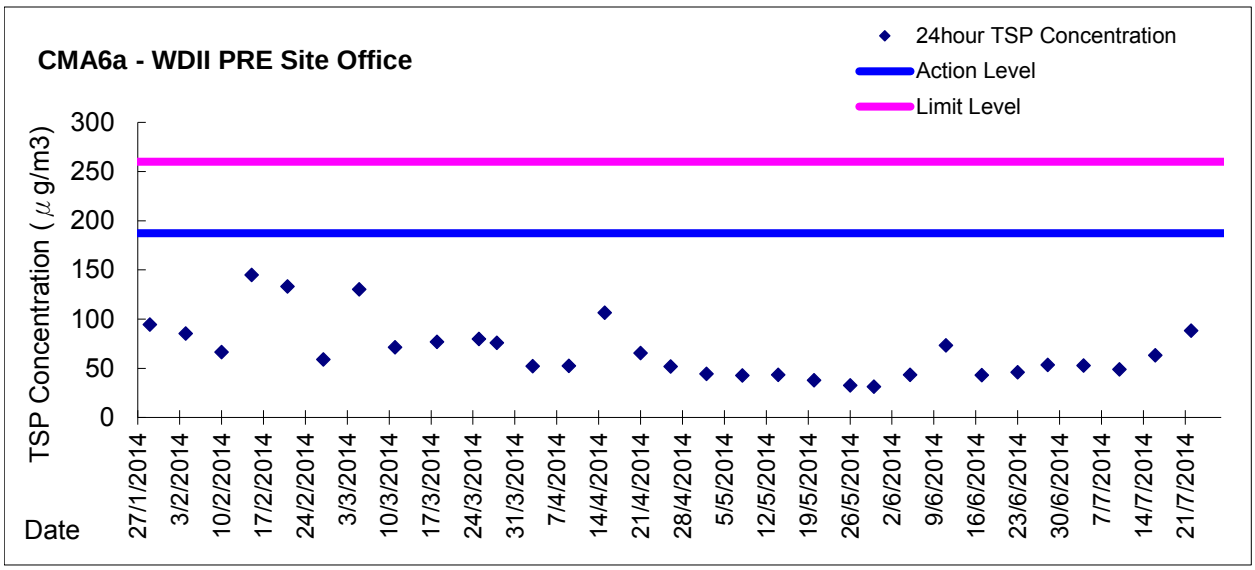




Graphic Presentation of 24 hour TSP Result







Field Data Record Sheet

Monitoring Date: 8 July 2014 **Weather Condition:** Sunny **Tidal Condition:** Ebb

Temperature: 36.7°C – 32.4°C **Relative Humidity:** 52.4%-72.6%

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:33	32.4	72.6	0-1	Culvert Discharge	Sea	Persistent	2.4	NW	
OP6	13:41	33.4	69.1	0-1	Culvert Discharge	Sea	Persistent	1.6	NW	
OP5	14:00	32.8	67.7	0-1	Barge exhaust	Barge	Intermittent	2.9	W	
OP4	13:54	36.7	59.2	0	/	/	/	2.0	NW	
OP3	14:07	35.4	52.4	0	/	/	/	1.0	ENE	
OP2	14:12	36.6	54.9	0-1	Seawater	Sea	Persistent	0.8	NNW	
OP1	14:17	33.8	61.6	0-1	Culvert Discharge	Sea	Persistent	1.6	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

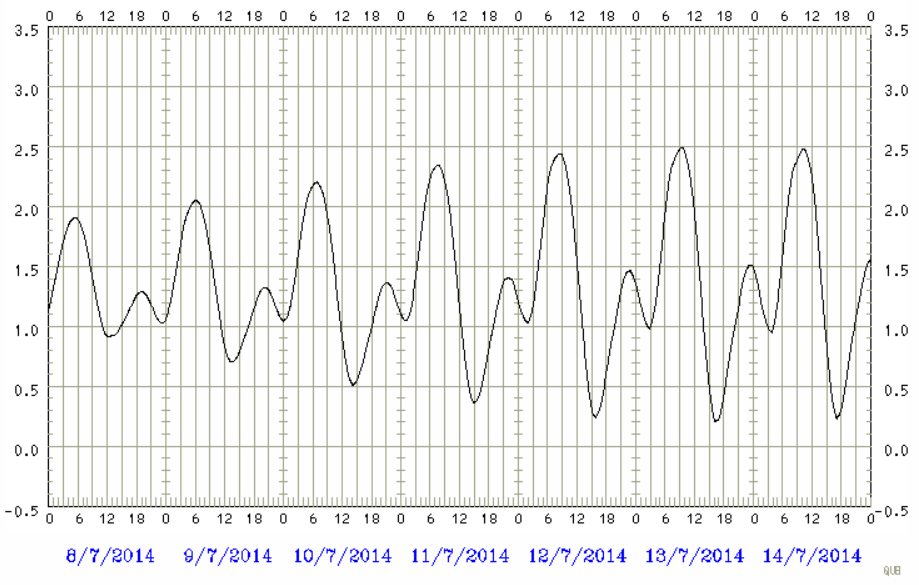
Meteorological Conditions on 08 July 2014

- **Hong Kong Observatory Weather Station at Hong Kong Observatory**
  Air Temperature: **28.0-33.0** ℃ Relative humidity: **65-90%**

- **Hong Kong Observatory Weather Station at Hong Kong Park**
  Air Temperature: **33.0** ℃

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

Tide Time	Tide Height (m)
05:24	1.9
12:25	0.9
18:57	1.3
23:14	1.0



Field Data Record Sheet

Monitoring Date: 22 July 2014 **Weather Condition:** Sunny **Tidal Condition:** Flood

Temperature: 31.9°C – 36.2°C **Relative Humidity:** 51.9% - 68.7%

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:23	31.9	68.7	0	/	/	/	1.8	NNW	
OP6	13:30	33.1	64.4	0	/	/	/	2.4	NW	
OP5	13:34	32.8	63.2	0	/	/	/	3.7	W	
OP4	13:37	36.2	53.6	0	/	/	/	2.3	WNW	
OP3	13:43	34.7	59.1	0-1	Sea water	Site	Intermittent	1.9	N	
OP2	13:47	36.1	51.9	0	/	/	/	1.5	WNW	
OP1	13:51	34.0	60.8	0-1	Culvert discharge	Sea	Intermittent	0.8	NNE	

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

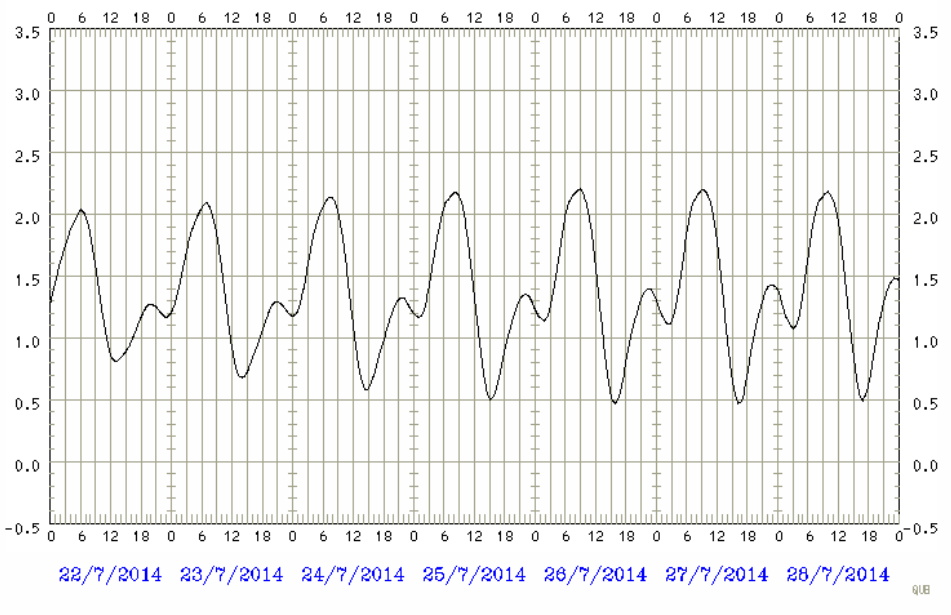
Meteorological Conditions on 22 July 2014

- **Hong Kong Observatory Weather Station at Hong Kong Observatory**
  Air Temperature: **27.5-33.6** ℃ Relative humidity: **71%**

- **Hong Kong Observatory Weather Station at Hong Kong Park**
  Air Temperature: **32.0** ℃

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

Tide Time	Tide Height (m)
06:11	2.0
13:00	0.8
19:57	1.3
22:58	1.2



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
30/6/2014	4:15	Cloudy	Middle	2.0	29.00	29.00	29.00	7.93	7.93	7.93	30.70	30.72	30.71	84.9	83.5	83.6	5.54	5.42	5.42	2.73	2.78	2.77	4	3.50
	4:16		Middle	2.0	29.00	29.00		7.94	7.93		30.70	30.72		83.1	82.8		5.33	5.37		2.65	2.92		3	
2/7/2014	7:10	Fine	Middle	3.0	28.50	28.50	28.50	8.32	8.32	8.35	27.17	27.17	27.17	85.3	86.5	85.6	5.69	5.78	5.70	2.42	2.43	2.48	5	4.50
	7:12		Middle	3.0	28.50	28.50		8.37	8.37		27.17	27.17		84.4	86.0		5.64	5.70		2.51	2.56		4	
4/7/2014	8:50	Fine	Middle	2.5	29.00	29.00	29.10	8.32	8.32	8.32	27.25	27.25	27.26	108.5	108.7	107.2	7.16	7.18	7.10	3.72	3.72	3.73	3	3.00
	8:52		Middle	2.5	29.20	29.20		8.32	8.32		27.26	27.26		107.1	104.4		7.07	6.98		3.73	3.74		3	
7/7/2014	0:23	Cloudy	Middle	2.5	28.90	28.90	28.80	8.18	8.18	8.20	27.99	27.99	27.99	93.7	94.3	93.5	6.20	6.24	6.19	5.08	5.06	5.07	6	6.00
	0:24		Middle	2.5	28.70	28.70		8.22	8.22		27.98	27.98		92.8	93.1		6.14	6.16		5.10	5.02		6	
9/7/2014	17:05	Fine	Middle	2.5	29.30	29.30	29.35	8.21	8.21	8.22	28.84	28.84	28.86	100.0	100.2	100.4	6.54	6.55	6.56	4.00	4.00	4.02	5	4.50
	17:07		Middle	2.5	29.40	29.40		8.23	8.23		28.87	28.87		100.2	101.0		6.55	6.59		4.02	4.04		4	
11/7/2014	18:41	Fine	Middle	2.5	27.40	27.40	27.45	8.25	8.25	8.27	30.11	30.11	30.11	86.2	84.6	85.7	5.80	5.69	5.76	4.14	4.14	4.15	5	5.00
	18:43		Middle	2.5	27.50	27.50		8.28	8.28		30.11	30.11		85.9	86.1		5.77	5.79		4.15	4.17		5	
14/7/2014	5:00	Cloudy	Middle	2.0	27.60	27.60	27.55	7.99	7.99	7.99	30.54	30.54	30.55	71.0	72.0	71.4	4.81	4.88	4.84	2.07	2.09	2.04	5	4.50
	5:01		Middle	2.0	27.50	27.50		7.99	7.99		30.56	30.56		70.1	72.3		4.75	4.90		2.02	1.98		4	
16/7/2014	7:17	Fine	Middle	2.5	27.10	27.10	27.10	8.24	8.24	8.24	30.12	30.12	30.16	77.8	78.3	77.2	5.22	5.25	5.17	1.99	1.98	1.99	5	5.00
	7:19		Middle	2.5	27.10	27.10		8.24	8.24		30.20	30.20		77.9	74.8		5.19	5.01		1.99	1.98		5	
21/7/2014	0:02	Fine	Middle	2.5	28.20	28.20	28.25	7.94	7.94	7.94	30.69	30.69	30.69	78.7	78.5	78.3	5.17	5.16	5.14	2.88	2.90	2.85	6	5.00
	0:03		Middle	2.5	28.30	28.30		7.94	7.94		30.69	30.69		77.9	78.0		5.11	5.12		2.84	2.77		4	
23/7/2014	17:40	Fine	Middle	3.0	29.20	29.20	29.20	8.26	8.26	8.26	28.22	28.22	28.46	80.1	80.2	79.7	5.22	5.23	5.21	1.61	1.61	1.61	0	0.00
	17:42		Middle	3.0	29.20	29.20		8.25	8.25		28.69	28.69		78.5	80.1		5.15	5.22		1.62	1.60		0	
25/7/2014	18:00	Cloudy	Middle	2.0	27.30	27.30	27.30	7.84	7.84	7.85	30.68	30.68	30.79	80.2	81.3	81.0	5.44	5.52	5.50	2.97	2.70	2.79	0	0.00
	18:01		Middle	2.0	27.30	27.30		7.85	7.85		30.90	30.90		81.4	81.2		5.52	5.51		2.73	2.75		0	

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

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
30/6/2014	6:52	Cloudy	Middle	3.5	29.50	29.50	29.50	8.11	8.11	8.11	30.14	30.17	30.12	70.7	71.1	70.7	4.76	4.77	4.79	7.32	7.21	7.26	3	3.50
	6:53		Middle	3.5	29.50	29.50		8.11	8.11		30.09	30.09		70.4	70.5		4.74	4.87		7.19	7.30		4	
2/7/2014	9:00	Fine	Middle	2.5	28.70	28.70	28.80	8.34	8.34	8.36	26.72	26.72	26.71	85.9	85.8	85.7	5.72	5.71	5.71	2.03	2.03	2.02	3	3.50
	9:02		Middle	2.5	28.90	28.90		8.38	8.38		26.70	26.70		84.3	86.9		5.61	5.78		2.01	2.00		4	
4/7/2014	10:00	Fine	Middle	3.0	29.10	29.10	29.20	8.43	8.43	8.45	26.80	26.80	26.80	108.8	112.0	109.7	7.19	7.40	7.25	3.10	3.09	3.08	4	3.50
	10:02		Middle	3.0	29.30	29.30		8.47	8.47		26.79	26.79		109.1	108.8		7.21	7.18		3.08	3.06		3	
7/7/2014	4:20	Cloudy	Middle	3.5	28.70	28.70	28.60	7.92	7.92	7.93	26.49	26.49	26.50	86.3	87.9	86.9	5.78	5.89	5.82	7.91	8.02	8.06	4	4.00
	4:21		Middle	3.5	28.50	28.50		7.94	7.94		26.50	26.50		86.5	86.7		5.80	5.81		8.11	8.19		4	
9/7/2014	15:25	Fine	Middle	2.5	28.80	28.80	28.90	8.40	8.40	8.40	27.73	27.73	27.73	136.8	134.5	134.5	9.04	8.89	8.89	3.50	3.50	3.52	3	3.50
	15:27		Middle	2.5	29.00	29.00		8.40	8.40		27.73	27.73		133.7	133.1		8.83	8.79		3.50	3.56		4	
11/7/2014	15:20	Fine	Middle	2.5	27.90	27.90	27.90	8.25	8.25	8.26	29.99	29.99	30.00	82.5	84.1	82.7	5.48	5.59	5.50	3.72	3.77	3.77	7	6.50
	15:22		Middle	2.5	27.90	27.90		8.26	8.26		30.00	30.00		82.2	82.1		5.46	5.45		3.79	3.81		6	
14/7/2014	7:28	Cloudy	Middle	3.5	27.90	27.90	27.85	7.79	7.79	7.81	30.41	30.41	30.42	71.8	73.0	72.2	4.84	4.92	4.87	4.96	5.00	4.93	6	6.00
	7:29		Middle	3.5	27.80	27.80		7.82	7.82		30.43	30.43		72.7	71.1		4.90	4.80		4.80	4.94		6	
16/7/2014	7:55	Fine	Middle	2.5	27.70	27.70	27.90	8.24	8.24	8.24	29.06	29.06	29.05	91.4	93.8	91.8	6.09	6.25	6.12	2.10	2.12	2.12	6	5.50
	7:57		Middle	2.5	28.10	28.10		8.23	8.23		29.04	29.04		91.3	90.8		6.08	6.04		2.12	2.14		5	
21/7/2014	4:21	Fine	Middle	3.5	27.90	27.90	27.90	8.09	8.09	8.09	30.52	30.52	30.53	73.5	73.6	72.6	4.85	4.87	4.80	3.00	2.98	3.10	4	4.00
	4:22		Middle	3.5	27.90	27.90		8.09	8.09		30.53	30.53		72.3	71.1		4.78	4.69		3.21	3.19		4	
23/7/2014	14:40	Fine	Middle	2.5	30.30	30.30	30.40	8.21	8.21	8.21	29.35	29.35	29.34	91.6	90.3	90.9	5.85	5.77	5.80	2.49	2.44	2.44	0	0.00
	14:42		Middle	2.5	30.50	30.50		8.21	8.21		29.33	29.33		90.1	91.4		5.75	5.82		2.42	2.40		0	
25/7/2014	19:03	Cloudy	Middle	3.0	27.50	27.50	27.45	7.95	7.95	7.96	31.32	31.32	31.32	80.7	79.4	79.3	5.45	5.37	5.35	1.22	1.20	1.25	0	0.00
	19:04		Middle	3.0	27.40	27.40		7.96	7.96		31.32	31.32		79.1	77.8		5.32	5.26		1.26	1.31		0	

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

Water Monitoring Result at C7 - Windsor House
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
30/6/2014	6:23	Cloudy	Middle	1.5	29.30	29.30	29.30	8.11	8.11	8.11	28.68	28.68	28.68	63.6	62.6	62.9	4.16	4.09	4.11	1.74	1.67	1.71	3	3.00
	6:24		Middle	1.5	29.30	29.30		8.10	8.10		28.67	28.67		61.2	64.2		4.00	4.19		1.65	1.76		3	
2/7/2014	11:00	Fine	Middle	1.5	29.30	29.30	29.40	8.28	8.28	8.28	26.18	26.18	26.18	60.0	60.3	60.5	3.97	3.99	4.00	1.79	1.79	1.78	4	3.50
	11:02		Middle	1.5	29.50	29.50		8.27	8.27		26.17	26.17		61.2	60.3		4.05	3.99		1.79	1.74		3	
4/7/2014	11:27	Fine	Middle	1.5	29.80	29.80	29.80	8.41	8.41	8.41	25.80	25.80	25.81	91.5	91.8	91.0	6.04	6.04	6.02	3.01	3.02	3.02	3	3.00
	11:29		Middle	1.5	29.80	29.80		8.41	8.41		25.81	25.81		91.1	89.7		6.00	5.98		3.02	3.02		3	
7/7/2014	4:00	Cloudy	Middle	1.5	29.00	28.90	28.93	8.06	8.06	8.06	26.19	26.19	26.19	75.9	76.0	75.4	5.07	5.07	5.03	1.44	1.75	1.55	3	3.50
	4:01		Middle	1.5	28.90	28.90		8.06	8.06		26.19	26.19		74.3	75.3		4.96	5.03		1.46	1.56		4	
9/7/2014	15:09	Fine	Middle	1.5	28.80	28.80	28.85	8.32	8.32	8.32	27.03	27.03	27.03	74.8	79.8	77.7	4.97	5.30	5.16	4.35	4.42	4.36	6	6.00
	15:11		Middle	1.5	28.90	28.90		8.31	8.31		27.03	27.03		78.3	77.9		5.20	5.17		4.33	4.35		6	
11/7/2014	17:12	Fine	Middle	1.5	28.40	28.40	28.40	8.31	8.31	8.31	27.43	27.43	27.43	70.1	70.7	70.2	4.68	4.72	4.69	5.33	5.38	5.36	4	4.50
	17:14		Middle	1.5	28.40	28.40		8.31	8.31		27.43	27.43		70.6	69.3		4.71	4.63		5.37	5.35		5	
14/7/2014	7:10	Cloudy	Middle	1.5	27.70	27.70	27.70	8.05	8.05	8.05	28.32	28.32	28.32	72.0	72.6	71.8	5.06	5.09	5.03	1.51	1.55	1.49	2	2.50
	7:11		Middle	1.5	27.70	27.70		8.04	8.04		28.32	28.32		71.7	70.9		5.02	4.93		1.47	1.44		3	
16/7/2014	9:52	Fine	Middle	1.5	27.00	27.00	27.00	8.15	8.15	8.14	28.09	28.09	28.09	58.1	59.0	56.5	3.90	3.96	3.96	5.19	5.17	5.16	6	6.00
	9:54		Middle	1.5	27.00	27.00		8.13	8.13		28.08	28.08		50.1	58.6		4.03	3.93		5.15	5.13		6	
21/7/2014	3:40	Fine	Middle	1.5	27.70	27.70	27.75	8.09	8.09	8.09	29.86	29.85	29.86	52.0	52.3	51.8	3.46	3.48	3.45	1.27	1.13	1.16	5	4.50
	3:41		Middle	1.5	27.80	27.80		8.08	8.08		29.86	29.86		52.0	51.0		3.46	3.39		1.09	1.16		4	
23/7/2014	16:27	Fine	Middle	1.5	29.70	29.70	29.70	8.11	8.11	8.11	27.36	27.36	27.36	64.1	64.5	64.7	4.19	4.21	4.23	2.51	2.63	2.63	0	0.00
	16:29		Middle	1.5	29.70	29.70		8.10	8.10		27.36	27.36		64.9	65.2		4.24	4.26		2.70	2.66		0	
25/7/2014	18:36	Cloudy	Middle	1.0	27.40	27.40	27.35	8.01	8.01	8.01	28.80	28.80	28.80	75.4	76.4	75.6	5.17	5.25	5.19	1.26	1.06	1.16	0	0.00
	18:37		Middle	1.0	27.30	27.30		8.00	8.00		28.79	28.79		75.6	74.9		5.19	5.15		1.19	1.12		0	

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

Water Monitoring Result at C1 - HKCEC Extension
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
30/6/2014	7:23	Cloudy	Middle	2.5	29.40	29.40	29.35	8.12	8.12	8.12	26.74	26.74	26.74	75.8	76.7	75.4	4.84	4.90	4.82	2.08	1.85	1.92	3	3.00
	7:24		Middle	2.5	29.30	29.30		8.12	8.12		26.74	26.74		74.7	74.5		4.78	4.76		1.87	1.89		3	
2/7/2014	9:32	Fine	Middle	3.0	28.40	28.40	28.40	7.93	7.93	7.93	26.92	26.92	26.92	73.4	70.6	71.3	4.92	4.72	4.77	1.85	1.84	1.85	3	3.50
	9:34		Middle	3.0	28.40	28.40		7.93	7.93		26.92	26.92		70.4	70.6		4.71	4.72		1.85	1.84		4	
4/7/2014	10:58	Fine	Middle	3.0	28.70	28.70	28.75	8.40	8.40	8.40	26.45	26.45	26.44	75.4	72.9	74.3	5.03	4.87	4.95	2.84	2.83	2.84	3	3.00
	11:00		Middle	3.0	28.80	28.80		8.39	8.39		26.42	26.42		74.4	74.3		4.96	4.95		2.84	2.83		3	
7/7/2014	2:51	Cloudy	Middle	2.5	28.80	28.80	28.75	8.24	8.24	8.24	27.83	27.83	27.83	79.1	81.4	80.5	5.25	5.40	5.33	3.48	3.39	3.64	4	5.00
	2:52		Middle	2.5	28.70	28.70		8.24	8.24		27.82	27.82		80.4	80.9		5.32	5.33		3.80	3.88		6	
9/7/2014	15:51	Fine	Middle	2.5	27.80	27.80	27.75	8.57	8.57	8.52	27.73	27.73	27.74	86.0	84.0	83.8	5.79	5.66	5.65	4.97	4.96	4.88	4	4.00
	15:53		Middle	2.5	27.70	27.70		8.47	8.47		27.75	27.75		82.4	82.9		5.55	5.58		4.81	4.76		4	
11/7/2014	16:34	Fine	Middle	2.5	27.90	27.90	27.90	8.32	8.32	8.32	27.90	27.89	27.90	77.2	77.5	76.9	5.18	5.22	5.17	5.33	5.34	5.34	4	4.00
	16:36		Middle	2.5	27.90	27.90		8.32	8.32		27.89	27.90		77.2	75.6		5.19	5.07		5.34	5.33		4	
14/7/2014	6:55	Cloudy	Middle	2.5	27.40	27.40	27.40	7.96	7.96	7.97	30.42	30.42	30.43	72.8	71.1	72.0	4.95	4.84	4.89	1.84	1.81	1.83	3	3.00
	6:56		Middle	2.5	27.40	27.40		7.97	7.97		30.43	30.43		72.5	71.6		4.93	4.85		1.86	1.79		3	
16/7/2014	10:29	Fine	Middle	3.0	27.60	27.60	27.60	8.32	8.32	8.27	27.66	27.66	27.66	54.6	52.9	52.5	3.69	3.57	3.54	2.71	2.72	2.75	4	4.50
	10:31		Middle	3.0	27.60	27.60		8.22	8.22		27.66	27.66		51.5	51.1		3.47	3.44		2.72	2.83		5	
21/7/2014	2:47	Fine	Middle	2.5	27.90	27.90	27.90	8.02	8.02	8.02	30.75	30.75	30.75	70.5	71.3	70.7	4.66	4.70	4.67	1.30	1.19	1.20	3	3.50
	2:48		Middle	2.5	27.90	27.90		8.02	8.02		30.75	30.75		70.8	70.3		4.67	4.64		1.25	1.06		4	
23/7/2014	16:21	Fine	Middle	2.5	28.60	28.60	28.60	8.33	8.33	8.31	28.19	28.19	28.19	66.4	64.3	64.0	4.40	4.26	4.24	1.42	1.34	1.36	0	0.00
	16:23		Middle	2.5	28.60	28.60		8.29	8.29		28.19	28.19		63.4	62.0		4.19	4.10		1.34	1.34		0	
25/7/2014	16:28	Cloudy	Middle	2.0	29.20	29.20	29.20	8.29	8.29	8.29	26.60	26.60	26.61	68.0	70.1	69.4	4.50	4.64	4.60	1.09	1.09	1.09	0	0.00
	16:30		Middle	2.0	29.20	29.20		8.28	8.28		26.62	26.62		72.4	66.9		4.79	4.45		1.09	1.09		0	

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

Water Monitoring Result at P1 - HKCEC Phase I
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
30/6/2014	8:21	Cloudy	Middle	2.5	29.40	29.40	29.40	7.91	7.91	7.93	25.54	25.54	25.55	82.9	83.6	83.3	5.33	5.37	5.35	3.73	3.60	3.57	4	3.50
	8:22		Middle	2.5	29.40	29.40		7.95	7.95		25.55	25.55		83.0	83.7		5.33	5.38		3.50	3.46		3	
2/7/2014	10:07	Fine	Middle	3.0	29.70	29.70	29.70	8.30	8.30	8.30	26.69	26.69	26.69	75.8	79.0	78.0	4.97	5.18	5.12	2.87	2.89	2.88	3	3.00
	10:09		Middle	3.0	29.70	29.70		8.30	8.30		26.69	26.69		78.6	78.7		5.15	5.16		2.88	2.88		3	
4/7/2014	11:19	Fine	Middle	3.0	30.10	30.10	30.10	8.44	8.44	8.45	25.94	25.94	25.93	79.4	78.7	78.4	5.20	5.15	5.13	4.64	4.53	4.48	3	3.00
	11:21		Middle	3.0	30.10	30.10		8.45	8.45		25.92	25.92		78.1	77.4		5.11	5.06		4.39	4.35		3	
7/7/2014	2:05	Cloudy	Middle	2.5	28.60	28.60	28.50	8.26	8.26	8.27	27.05	27.05	27.05	89.2	92.0	91.5	5.97	6.14	6.12	5.12	4.83	4.90	4	4.00
	2:06		Middle	2.5	28.40	28.40		8.28	8.28		27.04	27.04		92.5	92.2		6.20	6.18		4.80	4.85		4	
9/7/2014	16:26	Fine	Middle	2.5	29.00	29.00	29.00	8.44	8.44	8.45	27.40	27.40	27.42	88.9	90.9	89.7	5.88	6.01	5.94	8.12	8.10	8.11	5	5.50
	16:28		Middle	2.5	29.00	29.00		8.45	8.45		27.43	27.43		89.3	89.6		5.90	5.96		8.10	8.10		6	
11/7/2014	17:15	Fine	Middle	2.5	28.50	28.50	28.50	8.35	8.35	8.35	28.03	28.03	28.03	82.2	81.1	81.7	5.48	5.38	5.44	4.61	4.63	4.63	5	4.50
	17:17		Middle	2.5	28.50	28.50		8.35	8.35		28.03	28.03		81.3	82.1		5.40	5.48		4.64	4.62		4	
14/7/2014	6:02	Cloudy	Middle	2.5	27.50	27.50	27.50	7.90	7.90	7.90	29.70	29.70	29.71	75.4	76.0	75.1	5.14	5.12	5.10	2.67	2.87	2.53	6	6.00
	6:03		Middle	2.5	27.50	27.50		7.90	7.90		29.72	29.72		74.8	74.1		5.09	5.05		2.27	2.30		6	
16/7/2014	11:00	Fine	Middle	3.0	27.40	27.40	27.45	8.15	8.15	8.14	29.27	29.27	29.28	54.5	51.2	50.4	3.66	3.44	3.38	7.02	7.08	7.09	5	4.50
	11:02		Middle	3.0	27.50	27.50		8.12	8.12		29.28	29.28		47.3	48.6		3.17	3.26		7.12	7.12		4	
21/7/2014	1:51	Fine	Middle	2.5	28.40	28.40	28.40	8.01	8.01	8.01	30.64	30.64	30.64	66.9	72.3	70.7	4.39	4.74	4.64	1.96	1.86	1.82	3	3.50
	1:52		Middle	2.5	28.40	28.40		8.01	8.01		30.64	30.64		72.5	71.1		4.76	4.66		1.77	1.67		4	
23/7/2014	16:54	Fine	Middle	2.5	29.30	29.30	29.30	8.24	8.24	8.24	28.17	28.17	28.18	73.3	73.7	72.9	4.80	4.83	4.78	1.02	1.06	1.06	0	0.00
	16:56		Middle	2.5	29.30	29.30		8.24	8.24		28.18	28.18		72.6	72.1		4.75	4.72		1.08	1.09		0	
25/7/2014	16:51	Cloudy	Middle	2.0	29.60	29.60	29.65	8.27	8.27	8.28	26.57	26.57	26.55	73.2	72.3	73.5	4.81	4.77	4.84	1.98	1.93	1.90	0	0.00
	16:53		Middle	2.0	29.70	29.70		8.28	8.28		26.53	26.53		73.7	74.9		4.84	4.92		1.89	1.81		0	

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

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
30/6/2014	8:06	Cloudy	Middle	2.5	29.40	29.40	29.35	8.05	8.05	8.05	25.72	25.72	25.79	78.8	80.1	78.9	5.05	5.13	5.05	2.08	2.27	2.13	3	3.50
	8:07		Middle	2.5	29.30	29.30		8.05	8.05		25.86	25.86		78.7	77.9		5.04	4.99		2.10	2.06		4	
2/7/2014	9:57	Fine	Middle	3.0	29.10	29.10	29.10	8.29	8.29	8.29	26.59	26.59	26.59	76.0	77.1	76.9	5.03	5.10	5.09	2.82	2.83	2.83	3	3.00
	9:59		Middle	3.0	29.10	29.10		8.29	8.29		26.58	26.58		77.1	77.2		5.11	5.11		2.82	2.83		3	
4/7/2014	11:09	Fine	Middle	3.0	29.40	29.40	29.45	8.41	8.41	8.43	25.70	25.70	25.72	79.1	81.6	80.0	5.23	5.40	5.29	2.93	2.93	2.94	4	3.50
	11:11		Middle	3.0	29.50	29.50		8.44	8.44		25.74	25.74		80.2	79.0		5.30	5.22		2.97	2.93		3	
7/7/2014	2:14	Cloudy	Middle	2.5	28.50	28.50	28.45	8.28	8.28	8.28	28.15	28.15	28.15	84.3	83.1	83.1	5.61	5.53	5.55	4.71	4.63	4.73	3	3.00
	2:15		Middle	2.5	28.40	28.40		8.28	8.28		28.15	28.15		81.4	83.5		5.42	5.62		4.60	4.97		3	
9/7/2014	16:16	Fine	Middle	2.5	28.50	28.50	28.50	8.44	8.44	8.44	27.74	27.74	27.74	78.5	78.9	78.0	5.22	5.25	5.19	6.46	6.44	6.30	6	5.00
	16:18		Middle	2.5	28.50	28.50		8.43	8.43		27.73	27.73		77.8	76.9		5.18	5.11		6.15	6.15		4	
11/7/2014	17:06	Fine	Middle	2.5	28.30	28.30	28.30	8.35	8.35	8.35	28.14	28.14	28.14	73.4	73.1	73.1	4.90	4.86	4.87	3.42	3.44	3.44	5	5.50
	17:08		Middle	2.5	28.30	28.30		8.35	8.35		28.14	28.14		73.2	72.5		4.87	4.83		3.45	3.43		6	
14/7/2014	6:16	Cloudy	Middle	2.5	27.70	27.70	27.70	7.92	7.92	7.92	30.13	30.13	30.14	72.4	71.8	71.7	4.90	4.86	4.85	1.93	1.85	1.86	4	3.50
	6:17		Middle	2.5	27.70	27.70		7.92	7.93		30.14	30.14		71.9	70.6		4.87	4.78		1.88	1.76		3	
16/7/2014	10:52	Fine	Middle	3.0	26.90	26.90	26.95	8.16	8.16	8.15	28.83	28.83	28.84	56.9	54.7	54.0	3.85	3.71	3.66	4.77	4.73	4.72	3	3.50
	10:54		Middle	3.0	27.00	27.00		8.14	8.14		28.85	28.85		53.0	51.5		3.59	3.49		4.70	4.68		4	
21/7/2014	2:02	Fine	Middle	2.5	28.00	28.00	28.00	8.03	8.03	8.03	30.74	30.74	30.74	69.7	70.7	69.2	4.59	4.66	4.56	1.08	1.06	1.10	5	5.00
	2:03		Middle	2.5	28.00	28.00		8.03	8.03		30.74	30.74		66.9	69.6		4.41	4.59		1.10	1.14		5	
23/7/2014	16:46	Fine	Middle	2.5	28.80	28.80	28.80	8.28	8.25	8.25	28.39	28.39	28.37	64.3	63.5	62.8	4.25	4.20	4.15	0.85	0.82	0.79	0	0.00
	16:48		Middle	2.5	28.80	28.80		8.23	8.23		28.34	28.34		61.5	61.8		4.07	4.08		0.75	0.74		0	
25/7/2014	16:46	Cloudy	Middle	2.0	29.10	29.10	29.15	8.26	8.26	8.26	26.62	26.62	26.63	73.2	71.3	71.5	4.85	4.72	4.74	0.95	0.95	0.96	0	0.00
	16:48		Middle	2.0	29.20	29.20		8.26	8.26		26.64	26.64		70.5	71.0		4.67	4.72		0.96	0.96		0	

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

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
30/6/2014	7:46	Cloudy	Middle	2.5	29.10	29.10	29.10	8.09	8.09	8.09	26.49	26.49	26.55	81.6	82.7	81.8	5.22	5.30	5.24	2.73	2.88	2.86	3	3.00
	7:47		Middle	2.5	29.10	29.10		8.09	8.09		26.60	26.60		81.5	81.2		5.22	5.20		2.96	2.85		3	
2/7/2014	9:47	Fine	Middle	3.0	28.70	28.70	28.70	8.28	8.28	8.28	26.92	26.92	26.92	75.2	72.6	74.3	5.00	4.83	4.91	2.83	2.82	2.83	3	3.00
	9:49		Middle	3.0	28.70	28.70		8.28	8.28		26.92	26.92		74.7	74.7		4.90	4.91		2.82	2.83		3	
4/7/2014	10:50	Fine	Middle	3.0	28.40	28.40	28.45	8.39	8.39	8.40	26.20	26.20	26.23	80.0	77.5	77.7	5.37	5.20	5.21	2.84	2.84	2.87	4	3.00
	10:52		Middle	3.0	28.50	28.50		8.40	8.40		26.25	26.25		76.4	76.7		5.12	5.15		2.88	2.91		2	
7/7/2014	2:26	Cloudy	Middle	2.5	28.50	28.50	28.40	8.28	8.28	8.29	27.83	27.83	27.83	83.5	85.3	84.6	5.56	5.67	5.63	4.70	4.80	4.94	4	4.00
	2:27		Middle	2.5	28.30	28.30		8.29	8.29		27.83	27.83		85.0	84.4		5.66	5.63		5.11	5.13		4	
9/7/2014	16:05	Fine	Middle	2.5	28.10	28.10	28.15	8.45	8.45	8.45	27.86	27.86	27.86	87.2	87.0	84.5	5.83	5.82	5.65	5.72	5.65	5.67	5	4.50
	16:07		Middle	2.5	28.20	28.20		8.45	8.45		27.85	27.85		83.4	80.2		5.57	5.36		5.68	5.61		4	
11/7/2014	16:56	Fine	Middle	2.5	28.10	28.10	28.10	8.36	8.36	8.36	28.11	28.10	28.11	79.4	79.6	79.2	5.29	5.30	5.27	5.15	5.16	5.16	4	5.00
	16:58		Middle	2.5	28.10	28.10		8.36	8.36		28.10	28.11		79.5	78.4		5.29	5.21		5.16	5.15		6	
14/7/2014	6:29	Cloudy	Middle	2.5	27.60	27.60	27.55	7.95	7.95	7.95	29.98	29.97	29.97	72.6	72.4	71.7	4.93	4.92	4.89	1.97	2.04	1.98	4	4.00
	6:30		Middle	2.5	27.50	27.50		7.95	7.95		29.97	29.97		70.8	71.1		4.86	4.84		1.99	1.91		4	
16/7/2014	10:43	Fine	Middle	3.0	27.20	27.20	27.25	8.18	8.18	8.17	28.18	28.18	28.19	51.9	50.2	49.6	3.51	3.40	3.36	2.48	2.47	2.44	6	5.50
	10:45		Middle	3.0	27.30	27.30		8.15	8.15		28.20	28.20		48.0	48.3		3.25	3.27		2.43	2.38		5	
21/7/2014	2:25	Fine	Middle	2.5	28.10	28.10	28.10	8.03	8.03	8.03	30.79	30.79	30.79	63.0	64.6	63.4	4.15	4.25	4.17	1.49	1.37	1.30	4	3.50
	2:26		Middle	2.5	28.10	28.10		8.03	8.03		30.79	30.79		63.6	62.3		4.19	4.10		1.19	1.16		3	
23/7/2014	16:36	Fine	Middle	2.5	28.60	28.60	28.65	8.25	8.25	8.25	28.39	28.39	28.38	62.1	62.1	62.2	4.10	4.10	4.11	0.89	0.94	0.94	0	0.00
	16:38		Middle	2.5	28.70	28.70		8.24	8.24		28.37	28.37		62.4	62.3		4.13	4.12		0.97	0.97		0	
25/7/2014	16:40	Cloudy	Middle	2.0	29.20	29.20	29.20	8.29	8.29	8.29	26.81	26.81	26.81	68.1	68.0	67.8	4.50	4.50	4.48	1.54	1.62	1.71	0	0.00
	16:42		Middle	2.0	29.20	29.20		8.28	8.28		26.81	26.81		69.8	65.4		4.61	4.32		1.84	1.85		0	

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

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
30/6/2014	7:31	Cloudy	Middle	2.5	29.20	29.20	29.20	8.11	8.11	8.11	26.77	26.77	26.96	89.6	89.2	89.2	5.73	5.70	5.70	2.57	2.67	2.67	4	3.50
	7:32		Middle	2.5	29.20	29.20		8.11	8.11		27.15	27.15		89.4	88.4		5.71	5.65		2.71	2.73		3	
2/7/2014	9:42	Fine	Middle	3.0	29.00	29.00	29.00	8.23	8.23	8.23	26.79	26.79	26.79	75.7	79.1	77.6	5.01	5.23	5.13	2.32	2.33	2.33	3	3.00
	9:44		Middle	3.0	29.00	29.00		8.23	8.23		26.79	26.79		78.0	77.5		5.16	5.13		2.33	2.32		3	
4/7/2014	10:46	Fine	Middle	3.0	28.50	28.50	28.45	8.37	8.37	8.39	25.80	25.80	25.81	79.8	79.8	79.8	5.37	5.37	5.37	3.36	3.37	3.43	3	3.00
	10:48		Middle	3.0	28.40	28.40		8.40	8.40		25.82	25.82		81.0	78.7		5.45	5.30		3.53	3.44		3	
7/7/2014	2:38	Cloudy	Middle	2.5	28.30	28.30	28.30	8.29	8.29	8.29	27.82	27.82	27.82	84.2	86.2	84.4	5.63	5.77	5.65	5.76	5.62	5.68	6	5.50
	2:39		Middle	2.5	28.30	28.30		8.29	8.29		27.82	27.82		83.0	84.3		5.56	5.64		5.64	5.70		5	
9/7/2014	16:01	Fine	Middle	2.5	28.20	28.20	28.25	8.43	8.43	8.43	27.82	27.82	27.82	78.6	77.2	77.5	5.24	5.15	5.17	4.66	4.64	4.63	4	4.00
	16:03		Middle	2.5	28.30	28.30		8.43	8.43		27.81	27.81		77.0	77.0		5.14	5.14		4.61	4.59		4	
11/7/2014	16:50	Fine	Middle	2.5	28.00	28.00	28.00	8.34	8.34	8.34	28.23	28.23	28.24	70.0	72.1	70.9	4.68	4.82	4.74	4.58	4.58	4.58	7	7.00
	16:52		Middle	2.5	28.00	28.00		8.34	8.34		28.24	28.24		71.1	70.3		4.75	4.70		4.57	4.57		7	
14/7/2014	6:42	Cloudy	Middle	2.5	27.80	27.80	27.75	7.95	7.95	7.95	30.23	30.23	30.24	80.9	82.8	82.2	5.47	5.60	5.54	2.15	2.04	2.09	4	4.50
	6:43		Middle	2.5	27.70	27.70		7.95	7.95		30.24	30.24		82.7	82.2		5.60	5.48		2.08	2.09		5	
16/7/2014	10:38	Fine	Middle	3.0	26.90	26.90	26.95	8.23	8.23	8.21	28.98	28.98	28.98	57.2	55.3	54.1	3.88	3.75	3.67	3.66	3.64	3.62	6	6.00
	10:40		Middle	3.0	27.00	27.00		8.18	8.18		28.98	28.98		53.0	51.0		3.59	3.45		3.53	3.63		6	
21/7/2014	2:36	Fine	Middle	2.5	28.00	28.00	28.00	8.01	8.01	8.01	30.77	30.77	30.77	76.8	77.0	76.0	5.06	5.03	5.00	1.76	1.85	1.72	3	3.50
	2:37		Middle	2.5	28.00	28.00		8.01	8.01		30.76	30.76		75.9	74.4		5.00	4.90		1.62	1.66		4	
23/7/2014	16:31	Fine	Middle	2.5	28.70	28.70	28.75	8.28	8.28	8.27	28.32	28.32	28.31	61.6	59.0	58.6	4.07	3.90	3.87	1.31	1.29	1.27	0	0.00
	16:33		Middle	2.5	28.80	28.80		8.26	8.26		28.30	28.30		54.5	59.4		3.60	3.92		1.25	1.24		0	
25/7/2014	16:36	Cloudy	Middle	2.0	29.00	29.00	29.00	8.25	8.25	8.27	26.86	26.86	26.87	61.5	60.5	59.8	4.08	4.01	3.97	1.24	1.41	1.38	0	0.00
	16:38		Middle	2.0	29.00	29.00		8.28	8.28		26.88	26.88		59.1	58.1		3.92	3.85		1.42	1.44		0	

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

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
30/6/2014	5:50	Cloudy	Middle	3.0	29.30	29.30	29.30	8.22	8.22	8.22	30.17	30.11	30.12	81.0	81.6	80.5	5.34	5.34	5.31	2.67	2.69	2.71	3	3.00
	5:51		Middle	3.0	29.30	29.30		8.22	8.22		30.08	30.11		78.7	80.7		5.25	5.30		2.72	2.76		3	
2/7/2014	10:15	Fine	Middle	3.5	29.10	29.10	29.20	8.32	8.32	6.33	27.14	27.14	27.13	80.2	79.5	79.2	5.30	5.26	5.23	2.44	2.42	2.43	4	3.50
	10:17		Middle	3.5	29.30	29.30		8.34	0.34		27.11	27.11		79.1	78.1		5.22	5.15		2.42	2.42		3	
4/7/2014	10:50	Fine	Middle	3.5	28.90	28.90	28.95	8.41	8.41	8.42	27.08	27.08	27.08	97.1	98.8	97.5	6.44	6.55	6.47	4.13	4.11	4.13	3	3.50
	10:52		Middle	3.5	29.00	29.00		8.43	8.43		27.08	27.08		97.6	96.6		6.47	6.40		4.14	4.14		4	
7/7/2014	3:25	Cloudy	Middle	3.5	28.30	28.30	28.25	8.30	8.30	8.30	27.54	27.54	27.54	87.1	86.9	87.0	5.83	5.82	5.83	4.11	4.56	4.44	5	5.00
	3:26		Middle	3.5	28.20	28.20		8.30	8.30		27.53	27.53		85.6	88.4		5.74	5.93		4.60	4.50		5	
9/7/2014	14:32	Fine	Middle	3.0	29.50	29.50	29.60	8.35	8.35	8.38	27.87	27.87	27.87	111.4	115.0	114.4	7.47	7.50	7.51	4.98	4.81	4.91	4	4.00
	14:35		Middle	3.0	29.70	29.70		8.41	8.41		27.87	27.87		115.4	115.6		7.54	7.54		4.85	4.99		4	
11/7/2014	16:35	Fine	Middle	3.0	28.10	28.10	28.15	8.38	8.38	8.40	28.29	28.29	28.30	99.5	99.2	101.2	6.64	6.62	6.75	5.26	5.27	5.30	6	6.00
	16:37		Middle	3.0	28.20	28.20		8.41	8.41		28.30	28.30		103.6	102.5		6.91	6.83		5.32	5.35		6	
14/7/2014	7:46	Cloudy	Middle	3.5	27.80	27.80	27.80	8.06	8.06	8.06	30.15	30.15	30.17	78.4	78.6	77.8	5.31	5.31	5.25	1.57	1.41	1.34	4	3.50
	7:47		Middle	3.5	27.80	27.80		8.06	8.06		30.17	30.22		76.9	77.1		5.12	5.24		1.16	1.20		3	
16/7/2014	9:15	Fine	Middle	3.5	27.40	27.40	27.50	8.18	8.18	8.18	28.70	28.70	28.70	76.1	74.5	74.7	5.12	5.01	5.02	3.41	3.42	3.42	6	6.00
	9:17		Middle	3.5	27.60	27.60		8.17	8.17		28.69	28.69		75.0	73.1		5.04	4.91		3.42	3.42		6	
21/7/2014	3:10	Fine	Middle	3.5	27.80	27.80	27.85	7.83	7.83	7.84	30.59	30.59	30.59	70.5	70.1	70.3	4.67	4.64	4.66	1.85	1.86	1.82	5	5.00
	3:11		Middle	3.5	27.90	27.90		7.85	7.85		30.59	30.59		70.3	70.4		4.65	4.66		1.76	1.82		5	
23/7/2014	15:45	Fine	Middle	3.0	30.10	30.10	30.25	8.17	8.17	8.18	28.87	28.87	28.87	90.9	93.3	91.9	5.84	5.99	5.90	2.03	2.06	2.03	0	0.00
	15:47		Middle	3.0	30.40	30.40		8.19	8.19		28.86	28.86		90.7	92.7		5.82	5.94		2.03	2.01		0	
25/7/2014	19:25	Cloudy	Middle	3.5	27.30	27.30	27.30	7.98	7.98	7.98	30.21	30.21	30.21	75.1	74.3	73.8	5.12	5.07	5.03	1.09	1.16	1.11	0	0.00
	19:26		Middle	3.5	27.30	27.30		7.98	7.98		30.21	30.21		73.3	72.3		5.00	4.93		1.11	1.08		0	

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

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
30/6/2014	5:18	Cloudy	Middle	1.5	29.10	29.10	29.15	8.09	8.09	8.09	28.47	28.67	28.63	81.3	82.3	81.5	5.38	5.45	5.38	2.44	2.14	2.14	4	4.00
	5:19		Middle	1.5	29.20	29.20		8.09	8.09		28.68	28.68		81.3	81.1		5.37	5.32		1.97	2.02		4	
2/7/2014	9:50	Fine	Middle	3.0	29.10	29.10	28.45	8.27	8.27	8.30	26.84	26.84	26.84	86.8	88.2	89.0	5.73	5.82	5.87	2.64	2.65	2.66	3	3.00
	9:52		Middle	3.0	26.30	29.30		8.33	8.33		26.84	26.84		90.2	90.7		5.95	5.99		2.68	2.67		3	
4/7/2014	10:30	Fine	Middle	3.0	29.50	29.50	29.60	8.43	8.43	8.43	26.25	26.25	26.26	92.1	92.4	91.2	6.07	6.08	6.00	3.52	3.47	3.48	3	3.00
	10:32		Middle	3.0	29.70	29.70		8.43	8.43		26.26	26.26		90.3	89.9		5.94	5.91		3.45	3.48		3	
7/7/2014	4:34	Cloudy	Middle	2.5	28.50	28.50	28.45	8.12	8.12	8.13	25.63	25.63	25.63	88.7	87.4	88.6	5.98	5.90	5.98	5.84	5.76	5.69	6	5.00
	4:35		Middle	2.5	28.40	28.40		8.13	8.13		25.63	25.63		89.3	88.8		6.03	6.00		5.59	5.55		4	
9/7/2014	14:10	Fine	Middle	2.5	30.10	30.10	30.30	8.23	8.23	8.25	28.01	28.01	28.01	94.4	94.4	92.9	6.09	6.08	5.98	9.52	9.33	9.24	3	3.50
	14:12		Middle	2.5	30.50	30.50		8.26	8.26		28.01	28.01		91.4	91.3		5.88	5.87		9.13	8.99		4	
11/7/2014	16:15	Fine	Middle	2.5	28.20	28.20	28.30	8.34	8.34	8.34	28.66	28.66	28.66	88.7	89.5	87.5	5.88	5.94	5.81	6.94	6.93	6.92	6	6.50
	16:17		Middle	2.5	28.40	28.40		8.34	8.34		28.66	28.66		86.9	85.0		5.76	5.64		6.91	6.90		7	
14/7/2014	5:40	Cloudy	Middle	2.5	27.50	27.50	27.40	8.02	8.02	8.02	29.17	29.17	29.17	76.5	76.9	76.1	5.25	5.26	5.21	1.72	1.76	1.61	3	4.00
	5:41		Middle	2.5	27.30	27.30		8.02	8.02		29.16	29.16		76.3	74.8		5.22	5.12		1.52	1.43		5	
16/7/2014	8:50	Fine	Middle	3.0	28.00	28.00	28.15	8.20	8.20	8.19	27.81	27.81	27.81	63.5	63.3	63.3	4.25	4.23	4.23	3.09	3.04	3.04	5	4.50
	8:52		Middle	3.0	28.30	28.30		8.17	8.17		27.81	27.81		62.1	64.2		4.17	4.28		3.02	3.00		4	
21/7/2014	1:30	Fine	Middle	2.5	28.00	28.00	28.00	7.98	7.98	7.98	30.53	30.53	30.53	72.3	73.5	72.6	4.77	4.85	4.79	1.97	2.03	1.96	5	4.50
	1:31		Middle	2.5	28.00	28.00		7.98	7.98		30.53	30.53		70.9	73.8		4.68	4.87		1.90	1.92		4	
23/7/2014	15:07	Fine	Middle	3.0	30.20	30.20	30.28	8.17	8.17	8.18	28.95	28.95	28.94	83.3	84.9	85.0	5.34	5.45	5.45	3.51	3.72	3.62	0	0.00
	15:09		Middle	3.0	30.30	30.40		8.18	8.18		28.93	28.93		85.5	86.1		5.48	5.52		3.64	3.62		0	
25/7/2014	20:20	Cloudy	Middle	2.5	27.60	27.60	27.60	8.04	8.04	8.04	28.93	28.93	28.97	75.0	74.9	74.9	5.10	5.08	5.08	2.92	2.73	2.81	0	0.00
	20:21		Middle	2.5	27.60	27.60		8.04	8.04		28.92	29.08		74.3	75.2		5.03	5.09		2.76	2.81		0	

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

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
30/6/2014	17:10	Cloudy	Middle	2.0	29.10	29.10	29.10	8.37	8.37	8.41	27.26	27.26	27.26	102.5	103.8	101.6	6.77	6.85	6.71	4.02	4.01	3.93	2	2.50
	17:12		Middle	2.0	29.10	29.10		8.44	8.44		27.26	27.26		100.7	99.3		6.65	6.55		3.81	3.88		3	
2/7/2014	16:35	Fine	Middle	2.5	29.50	29.50	29.70	8.38	8.38	8.39	27.37	27.37	27.27	85.4	83.7	81.1	5.70	5.58	5.41	2.45	2.43	2.43	3	3.50
	16:37		Middle	2.5	29.90	29.90		8.39	8.39		27.17	27.17		77.8	77.5		5.19	5.18		2.42	2.41		4	
4/7/2014	17:15	Fine	Middle	2.5	30.10	30.10	30.15	8.40	8.40	8.41	27.26	27.26	27.28	71.8	70.5	70.2	4.73	4.63	4.62	3.42	3.43	3.42	2	2.00
	17:17		Middle	2.5	30.20	30.20		8.42	8.42		27.30	27.30		69.4	69.2		4.57	4.56		3.41	3.43		2	
7/7/2014	7:10	Fine	Middle	3.0	28.50	28.50	28.50	8.50	8.50	8.53	26.23	26.23	26.24	112.5	115.0	114.9	7.54	7.71	7.70	3.58	3.58	3.54	4	4.00
	7:12		Middle	3.0	28.50	28.50		8.55	8.55		26.25	26.25		115.4	116.8		7.74	7.82		3.52	3.48		4	
9/7/2014	9:05	Fine	Middle	3.0	28.70	28.70	28.80	8.16	8.16	8.21	28.72	28.72	28.72	100.2	102.6	101.3	6.59	6.74	6.66	4.19	3.92	3.99	4	4.00
	9:07		Middle	3.0	28.90	28.90		8.25	8.25		28.72	28.72		100.2	102.3		6.58	6.71		3.91	3.95		4	
11/7/2014	9:15	Cloudy	Middle	3.0	27.00	27.00	27.00	8.20	8.20	8.22	30.11	30.11	30.11	85.6	86.1	85.5	5.76	5.79	5.75	3.91	3.91	3.90	5	5.50
	9:17		Middle	3.0	27.00	27.00		8.24	8.24		30.11	30.11		84.9	85.3		5.72	5.74		3.90	3.89		6	
14/7/2014	10:35	Fine	Middle	3.0	26.10	26.10	26.20	8.28	8.28	8.28	31.59	31.59	31.59	75.9	78.4	77.2	5.14	5.30	5.22	4.15	4.15	4.14	4	4.50
	10:37		Middle	3.0	26.30	26.30		8.28	8.28		31.59	31.59		78.6	75.9		5.32	5.13		4.17	4.09		5	
16/7/2014	17:15	Sunny	Middle	2.5	28.30	28.30	28.30	8.24	8.24	8.25	30.22	30.22	30.21	74.8	76.1	75.8	5.01	5.10	5.08	1.79	1.79	1.79	5	5.50
	17:17		Middle	2.5	28.30	28.30		8.25	8.25		30.20	30.20		76.4	75.9		5.11	5.08		1.78	1.78		6	
21/7/2014	7:11	Fine	Middle	2.5	27.30	27.30	27.30	8.44	8.44	8.44	29.03	29.03	29.03	82.4	82.8	83.1	5.51	5.53	5.55	3.10	3.10	3.13	4	3.50
	7:13		Middle	2.5	27.30	27.30		8.44	8.44		29.03	29.03		83.4	83.7		5.57	5.59		3.16	3.14		3	
23/7/2014	9:00	Sunny	Middle	3.0	28.80	28.80	28.80	8.27	8.27	8.27	28.08	28.08	28.08	79.2	79.1	77.6	5.28	5.27	5.15	2.01	2.04	2.03	0	0.00
	9:02		Middle	3.0	28.80	28.80		8.27	8.27		28.08	28.08		75.8	76.2		5.02	5.01		2.04	2.03		0	
25/7/2014	9:25	Cloudy	Middle	3.0	27.70	27.70	27.75	8.28	8.28	8.29	29.05	29.05	29.05	86.5	87.6	87.0	5.78	5.86	5.82	2.60	2.60	2.61	0	0.00
	9:27		Middle	3.0	27.80	27.80		8.29	8.29		29.05	29.05		86.5	87.4		5.78	5.84		2.61	2.64		0	

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

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
30/6/2014	11:04	Cloudy	Middle	3	28.90	28.90	29.00	8.23	8.23	8.26	30.11	30.11	30.11	89.0	88.9	88.4	5.80	5.79	5.76	3.22	3.22	3.24	4	3.00
	11:07		Middle	3	29.10	29.10		8.28	8.28		30.10	30.10		87.7	88.0		5.71	5.72		3.21	3.30		2	
2/7/2014	15:50	Fine	Middle	3	29.00	29.00	29.05	8.29	8.29	8.30	27.93	27.93	27.93	78.3	78.3	78.4	5.15	5.15	5.16	2.90	2.96	2.95	4	3.50
	15:52		Middle	3	29.10	29.10		8.31	8.31		27.93	27.93		78.5	78.4		5.16	5.16		2.97	2.97		3	
4/7/2014	15:35	Fine	Middle	3	29.10	29.10	29.20	8.40	8.40	8.42	28.66	28.66	28.66	91.7	85.1	84.1	5.99	5.56	5.49	3.32	3.42	3.40	3	3.50
	15:37		Middle	3	29.30	29.30		8.43	8.43		28.65	28.65		81.7	77.7		5.34	5.07		3.43	3.43		4	
7/7/2014	8:00	Fine	Middle	3	27.90	27.90	28.85	8.44	8.44	8.46	26.84	26.84	26.87	98.9	99.8	98.7	6.68	6.74	6.67	3.31	3.42	3.36	4	4.50
	8:02		Middle	3	29.80	29.80		8.47	8.47		26.90	26.90		99.8	96.1		6.74	6.50		3.42	3.30		5	
9/7/2014	10:00	Fine	Middle	3	27.20	27.20	27.30	8.26	8.26	8.27	29.37	29.37	29.37	83.1	84.6	83.7	5.59	5.68	5.63	3.11	3.10	3.11	3	3.00
	10:02		Middle	3	27.40	27.40		8.28	8.28		29.37	29.37		84.5	82.6		5.68	5.55		3.10	3.11		3	
11/7/2014	10:00	Cloudy	Middle	3	26.60	26.60	26.55	8.26	8.26	8.27	30.37	30.37	30.38	82.7	81.8	82.1	5.60	5.55	5.57	3.27	3.30	3.30	6	5.50
	10:02		Middle	3	26.50	26.50		8.28	8.28		30.39	30.39		82.4	81.6		5.58	5.53		3.31	3.32		5	
14/7/2014	11:02	Fine	Middle	3	26.20	26.20	26.25	8.28	8.28	8.28	29.76	29.76	29.76	70.7	68.1	69.6	4.83	4.65	4.75	5.13	5.15	5.15	4	4.50
	11:04		Middle	3	26.30	26.30		8.27	8.27		29.75	29.75		69.3	70.3		4.73	4.80		5.15	5.15		5	
16/7/2014	15:15	Sunny	Middle	3	28.40	28.40	28.50	8.12	8.12	8.14	30.34	30.34	30.33	97.0	98.2	96.9	6.37	6.44	6.35	3.10	3.10	3.15	3	3.50
	15:17		Middle	3	28.60	28.60		8.15	8.15		30.31	30.31		94.9	97.5		6.22	6.35		3.18	3.20		4	
21/7/2014	7:42	Fine	Middle	3	27.80	27.80	27.85	8.37	8.37	8.37	29.26	29.26	29.26	72.8	75.8	75.7	4.86	5.05	5.05	3.18	3.20	3.20	3	4.00
	7:44		Middle	3	27.90	27.90		8.36	8.36		29.26	29.26		77.9	76.2		5.19	5.08		3.21	3.21		5	
23/7/2014	10:02	Sunny	Middle	3	28.90	28.90	29.05	8.26	8.26	8.26	28.63	28.63	28.63	76.9	79.8	78.3	5.05	5.23	5.13	1.79	1.79	1.76	0	0.00
	10:04		Middle	3	29.20	29.20		8.25	8.25		28.62	28.62		79.1	77.4		5.18	5.07		1.72	1.73		0	
25/7/2014	10:35	Cloudy	Middle	3	27.00	27.00	27.05	8.27	8.27	8.27	29.90	29.90	29.90	72.6	73.8	72.7	4.89	4.97	4.90	2.17	2.19	2.20	0	0.00
	10:37		Middle	3	27.10	27.10		8.27	8.27		29.90	29.90		72.7	71.7		4.89	4.83		2.20	2.22		0	

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

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
30/6/2014	14:47	Cloudy	Middle	2	29.30	29.30	29.35	8.39	8.39	8.40	27.37	27.37	27.37	88.6	89.4	89.3	5.82	5.97	5.94	6.18	6.17	6.19	4	4.50
	14:49		Middle	2	29.40	29.40		8.40	8.40		27.37	27.37		89.3	89.7		5.97	5.99		6.17	6.25		5	
2/7/2014	15:32	Fine	Middle	2	29.40	29.40	29.40	8.28	8.28	8.28	26.26	26.26	26.26	64.9	66.4	66.0	4.29	4.39	4.36	3.05	3.07	3.10	5	4.50
	15:34		Middle	2	29.40	29.40		8.27	8.27		26.26	26.26		66.6	66.0		4.40	4.36		3.09	3.17		4	
4/7/2014	15:22	Fine	Middle	2	30.10	30.10	30.15	8.46	8.46	8.47	25.98	25.98	25.96	97.0	88.2	95.4	6.34	6.42	6.40	5.05	5.03	5.01	4	3.50
	15:25		Middle	2	30.20	30.20		8.47	8.47		25.94	25.94		98.0	98.4		6.40	6.43		5.00	4.97		3	
7/7/2014	10:07	Fine	Middle	2	29.10	29.10	29.10	8.43	8.43	8.43	24.56	24.56	24.56	87.9	87.3	88.2	5.90	5.83	5.90	3.42	3.43	3.43	4	4.00
	10:09		Middle	2	29.10	29.10		8.43	8.43		24.56	24.56		89.9	87.5		6.00	5.87		3.42	3.43		4	
9/7/2014	11:17	Fine	Middle	2	28.20	28.20	28.30	8.25	8.25	8.25	27.14	27.14	27.14	71.8	71.2	72.3	4.80	4.76	4.73	2.55	2.56	2.56	3	3.00
	11:19		Middle	2	28.40	28.40		8.24	8.24		27.14	27.14		76.5	69.7		4.71	4.66		2.56	2.55		3	
11/7/2014	11:58	Cloudy	Middle	2	28.20	28.20	28.25	8.27	8.27	8.27	26.85	26.85	26.85	60.4	61.5	60.9	4.06	4.13	4.09	2.91	2.91	2.91	5	4.50
	12:00		Middle	2	28.30	28.30		8.27	8.27		26.85	26.85		61.4	60.3		4.12	4.05		2.91	2.91		4	
14/7/2014	14:17	Fine	Middle	2	28.90	28.90	28.95	8.21	8.21	8.20	26.04	26.04	26.04	65.1	67.0	65.7	4.34	4.46	4.38	3.24	3.31	3.24	3	3.00
	14:19		Middle	2	29.00	29.00		8.19	8.19		26.04	26.04		65.3	65.4		4.36	4.36		3.32	3.10		3	
16/7/2014	14:47	Sunny	Middle	2	28.50	28.50	28.65	8.15	8.15	8.15	28.42	28.42	28.42	67.2	68.3	67.5	4.44	4.52	4.46	3.50	3.47	3.46	4	4.50
	14:49		Middle	2	28.80	28.80		8.14	8.14		28.41	28.41		67.6	66.8		4.46	4.41		3.44	3.43		5	
21/7/2014	9:32	Fine	Middle	2	28.00	28.00	28.00	8.14	8.14	8.13	27.74	27.74	27.75	63.0	66.2	64.5	4.23	4.44	4.33	2.51	2.51	2.52	4	4.00
	9:34		Middle	2	28.00	28.00		8.12	8.12		27.75	27.75		64.1	64.7		4.30	4.34		2.54	2.51		4	
23/7/2014	11:52	Sunny	Middle	2	29.30	29.30	29.35	8.10	8.10	8.10	27.79	27.79	27.79	54.0	55.8	54.7	3.54	3.66	3.59	3.51	3.51	3.54	0	0.00
	11:54		Middle	2	29.40	29.40		8.09	8.09		27.79	27.79		55.2	53.9		3.62	3.53		3.55	3.57		0	
25/7/2014	12:04	Cloudy	Middle	2	28.90	28.90	28.90	8.16	8.16	8.16	27.02	27.02	27.02	62.1	63.3	63.8	4.12	4.20	4.23	2.11	2.11	2.11	0	0.00
	12:06		Middle	2	28.90	28.90		8.15	8.15		27.02	27.02		65.0	64.6		4.31	4.28		2.11	2.11		0	

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

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
30/6/2014	14:50	Cloudy	Middle	2.5	28.10	28.10	28.20	8.57	8.51	8.56	24.62	24.61	24.59	85.3	85.5	84.9	5.78	5.79	5.75	3.63	3.54	3.57	3	3.00
	14:52		Middle	2.5	28.30	28.30		8.58	8.58		24.57	24.57		84.8	84.0		5.74	5.68		3.54	3.55		3	
2/7/2014	14:55	Fine	Middle	2.5	28.70	28.70	28.70	8.47	8.47	8.47	25.71	25.71	25.71	92.5	91.8	93.7	6.17	6.09	6.43	2.61	2.62	2.62	4	3.50
	14:57		Middle	2.5	28.70	28.70		8.47	8.47		25.71	25.71		95.9	94.6		6.93	6.51		2.62	2.61		3	
4/7/2014	15:33	Fine	Middle	3.0	29.50	29.50	29.50	8.41	8.41	8.42	25.73	25.73	25.74	104.1	102.1	101.6	6.88	6.75	6.72	4.58	4.58	4.59	3	3.50
	15:35		Middle	3.0	29.50	29.50		8.42	8.42		25.75	25.75		100.1	100.1		6.62	6.62		4.59	4.59		4	
7/7/2014	9:19	Fine	Middle	2.5	28.90	28.90	28.90	8.75	8.75	8.75	23.81	23.81	23.81	69.4	69.4	68.9	4.70	4.71	4.67	3.80	3.79	3.80	4	4.00
	9:21		Middle	2.5	28.90	28.90		8.75	8.75		23.81	23.81		68.9	68.0		4.65	4.62		3.79	3.80		4	
9/7/2014	10:48	Fine	Middle	2.5	28.20	28.20	28.10	8.38	8.38	8.39	26.67	26.67	26.69	81.5	84.7	82.8	5.49	5.71	5.58	3.45	3.70	3.83	3	3.50
	10:50		Middle	2.5	28.00	28.00		8.40	8.40		26.70	26.70		83.4	81.6		5.63	5.50		3.94	4.23		4	
11/7/2014	11:51	Cloudy	Middle	2.5	28.00	28.00	27.90	8.23	8.23	8.25	27.30	27.30	27.33	71.7	72.8	72.0	4.83	4.91	4.85	2.95	3.02	3.02	6	5.50
	11:53		Middle	2.5	27.80	27.80		8.26	8.26		27.36	27.36		72.3	71.0		4.87	4.78		3.04	3.05		5	
14/7/2014	14:19	Fine	Middle	2.5	28.50	28.50	28.50	8.16	8.16	8.16	26.36	26.36	26.36	79.4	79.0	78.4	5.41	5.32	5.29	3.90	3.91	3.91	6	6.00
	14:21		Middle	2.5	28.50	28.50		8.16	8.16		26.36	26.36		77.7	77.6		5.23	5.20		3.91	3.92		6	
16/7/2014	15:29	Sunny	Middle	3.0	27.70	27.70	27.70	8.20	8.20	8.20	27.09	27.09	27.10	65.7	64.8	63.4	4.44	4.31	4.27	4.48	4.90	4.66	5	6.00
	15:31		Middle	3.0	27.70	27.70		8.20	8.20		27.10	27.10		61.5	61.5		4.16	4.16		4.65	4.59		7	
21/7/2014	10:01	Fine	Middle	2.5	27.90	27.90	27.90	8.17	8.17	8.15	27.47	27.47	27.50	61.5	61.3	60.9	4.14	4.13	4.10	1.95	1.93	1.92	6	5.50
	10:03		Middle	2.5	27.90	27.90		8.12	8.12		27.52	27.52		60.9	60.0		4.10	4.03		1.91	1.90		5	
23/7/2014	11:02	Sunny	Middle	2.5	28.50	28.50	28.55	8.13	8.13	8.13	27.63	27.63	27.64	65.7	62.7	63.4	4.37	4.17	4.22	1.09	1.09	1.09	0	0.00
	11:04		Middle	2.5	28.60	28.60		8.12	8.12		27.65	27.65		62.2	62.9		4.14	4.18		1.09	1.09		0	
25/7/2014	11:03	Cloudy	Middle	3.0	28.80	28.80	28.90	8.21	8.21	8.21	26.36	26.36	26.36	69.0	68.6	69.7	4.60	4.57	4.64	0.75	0.73	0.72	0	0.00
	11:05		Middle	3.0	29.00	29.00		8.20	8.20		26.35	26.35		71.2	70.0		4.74	4.65		0.71	0.70		0	

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

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
30/6/2014	15:31	Cloudy	Middle	2.5	29.50	29.50	29.50	8.63	8.63	8.64	24.30	24.30	24.29	91.0	90.8	91.0	6.07	6.06	6.07	2.43	2.42	2.41	4	4.00
	15:33		Middle	2.5	29.50	29.50		8.65	8.65		24.27	24.27		91.5	90.7		6.11	6.05		2.41	2.39		4	
2/7/2014	15:31	Fine	Middle	3.0	28.80	28.80	28.80	8.51	8.51	8.51	25.90	25.90	25.90	96.1	97.8	96.9	6.45	6.48	6.47	2.47	2.48	2.47	3	3.00
	15:33		Middle	3.0	28.80	28.80		8.51	8.51		25.90	25.90		95.8	97.9		6.46	6.50		2.47	2.46		3	
4/7/2014	16:08	Fine	Middle	3.0	29.50	29.50	29.55	8.64	8.64	8.65	25.56	25.56	25.57	112.2	114.0	116.6	7.42	7.55	7.71	3.63	3.67	3.63	3	3.00
	16:10		Middle	3.0	29.60	29.60		8.65	8.65		25.58	25.58		119.5	120.5		7.90	7.97		3.62	3.59		3	
7/7/2014	10:02	Fine	Middle	2.5	29.30	29.30	29.30	8.68	8.68	8.68	23.62	23.63	23.63	86.4	84.9	84.5	6.01	5.71	5.76	3.79	3.80	3.79	5	5.00
	10:04		Middle	2.5	29.30	29.30		8.68	8.68		23.63	23.62		83.9	82.8		5.67	5.63		3.78	3.79		5	
9/7/2014	11:35	Fine	Middle	2.5	28.30	28.30	28.30	8.46	8.45	8.44	27.40	27.40	27.39	82.9	83.1	83.0	5.53	5.55	5.54	3.29	3.27	3.28	3	3.50
	11:37		Middle	2.5	28.30	28.30		8.42	8.42		27.37	27.37		83.0	83.0		5.54	5.54		3.28	3.29		4	
11/7/2014	12:19	Cloudy	Middle	2.5	28.30	28.30	28.30	8.39	8.39	8.40	27.32	27.32	27.32	80.0	77.7	76.4	5.35	5.20	5.11	3.89	3.93	3.96	5	5.00
	12:21		Middle	2.5	28.30	28.30		8.40	8.40		27.31	27.31		75.0	72.7		5.01	4.87		3.94	4.07		5	
14/7/2014	14:57	Fine	Middle	2.5	28.30	28.30	28.30	8.24	8.24	8.24	27.07	27.08	27.08	74.7	76.1	75.6	5.05	5.09	5.08	4.30	4.32	4.31	5	5.00
	14:59		Middle	2.5	28.30	28.30		8.24	8.24		27.08	27.07		75.2	76.2		5.08	5.09		4.30	4.32		5	
16/7/2014	15:57	Sunny	Middle	2.5	28.00	28.00	28.05	8.25	8.25	8.25	27.50	27.50	27.49	70.0	67.7	67.0	4.70	4.55	4.50	3.15	3.17	3.13	4	4.50
	15:59		Middle	2.5	28.10	28.10		8.24	8.24		27.48	27.48		65.4	65.0		4.39	4.36		3.13	3.08		5	
21/7/2014	10:32	Fine	Middle	2.5	28.50	28.50	28.50	8.13	8.13	8.13	27.61	27.61	27.61	65.3	62.7	62.7	4.35	4.17	4.17	1.39	1.41	1.39	5	5.00
	10:34		Middle	2.5	28.50	28.50		8.12	8.12		27.60	27.60		62.0	60.7		4.11	4.04		1.40	1.37		5	
23/7/2014	11:36	Sunny	Middle	2.5	29.30	29.30	29.35	8.16	8.16	8.16	27.05	27.05	27.06	70.4	70.5	70.6	4.61	4.61	4.63	0.76	0.74	0.74	0	0.00
	11:38		Middle	2.5	29.40	29.40		8.16	8.16		27.06	27.06		70.9	70.6		4.65	4.63		0.73	0.74		0	
25/7/2014	11:37	Cloudy	Middle	3.0	28.50	28.50	28.60	8.11	8.11	8.13	26.49	26.49	26.49	75.5	76.0	75.1	5.05	5.08	5.02	0.56	0.53	0.53	0	0.00
	11:39		Middle	3.0	28.70	28.70		8.14	8.14		26.48	26.48		75.4	73.4		5.04	4.90		0.52	0.52		0	

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

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
30/6/2014	15:22	Cloudy	Middle	2.5	29.50	29.50	29.40	8.65	8.65	8.66	24.22	24.22	24.22	82.3	83.2	81.9	5.49	5.88	5.55	2.75	2.72	2.74	3	3.00
	15:24		Middle	2.5	29.30	29.30		8.66	8.66		24.21	24.21		82.1	80.1		5.47	5.34		2.77	2.73		3	
2/7/2014	15:22	Fine	Middle	2.5	28.90	28.90	28.90	8.52	8.52	8.52	25.76	25.76	25.76	95.9	97.5	97.4	6.41	6.57	6.51	2.28	2.27	2.28	3	3.00
	15:24		Middle	2.5	28.90	28.90		8.52	8.52		25.76	25.76		98.6	97.6		6.58	6.48		2.28	2.27		3	
4/7/2014	16:00	Fine	Middle	2.5	29.60	29.60	29.75	8.65	8.65	8.67	25.53	25.53	25.52	124.7	124.2	124.6	8.23	8.20	8.22	3.70	3.66	3.60	3	3.50
	16:02		Middle	2.5	29.90	29.90		8.68	8.68		25.50	25.50		125.5	123.9		8.29	8.17		3.52	3.51		4	
7/7/2014	9:54	Fine	Middle	2.5	29.10	29.10	29.10	8.68	8.68	8.68	23.89	23.90	23.90	90.6	89.7	89.4	6.11	6.04	6.03	3.70	3.71	3.72	5	4.50
	9:56		Middle	2.5	29.10	29.10		8.68	8.68		23.90	23.89		88.5	88.6		5.98	5.99		3.72	3.73		4	
9/7/2014	11:21	Fine	Middle	2.5	28.30	28.30	28.35	8.45	8.45	8.46	26.99	26.99	26.97	82.0	80.3	79.6	5.50	5.38	5.33	3.29	3.31	3.27	3	3.50
	11:23		Middle	2.5	28.40	28.40		8.46	8.46		26.95	26.95		78.6	77.4		5.26	5.19		3.30	3.19		4	
11/7/2014	12:11	Cloudy	Middle	2.5	28.10	28.10	28.15	8.39	8.39	8.39	27.50	27.52	27.50	71.8	75.2	73.9	4.81	5.04	4.95	3.29	3.47	3.36	6	6.00
	12:13		Middle	2.5	28.20	28.20		8.39	8.39		27.48	27.48		74.9	73.6		5.01	4.93		3.52	3.17		6	
14/7/2014	14:45	Fine	Middle	2.5	28.10	28.10	28.10	8.24	8.24	8.24	26.73	26.73	26.73	75.2	75.6	76.3	5.06	5.08	5.12	3.18	3.18	3.18	5	4.50
	14:47		Middle	2.5	28.10	28.10		8.24	8.24		26.73	26.73		76.5	77.7		5.14	5.19		3.18	3.18		4	
16/7/2014	15:49	Sunny	Middle	2.5	27.90	27.90	27.95	8.24	8.24	8.24	27.34	27.34	27.35	68.9	68.0	68.4	4.64	4.58	4.61	3.05	2.93	2.85	4	4.50
	15:51		Middle	2.5	28.00	28.00		8.23	8.23		27.35	27.35		68.2	68.5		4.59	4.61		2.72	2.70		5	
21/7/2014	10:24	Fine	Middle	2.5	27.80	27.80	27.85	8.13	8.13	8.13	27.56	27.56	27.55	65.9	66.8	66.7	4.44	4.50	4.49	1.54	1.64	1.63	4	3.50
	10:26		Middle	2.5	27.90	27.90		8.12	8.12		27.54	27.54		67.2	67.0		4.52	4.51		1.67	1.67		3	
23/7/2014	11:26	Sunny	Middle	2.5	28.80	28.80	28.90	8.15	8.15	8.15	27.93	27.93	27.92	70.9	70.7	69.8	4.67	4.67	4.60	0.91	0.85	0.88	0	0.00
	11:28		Middle	2.5	29.00	29.00		8.14	8.14		27.90	27.90		69.4	68.0		4.57	4.48		0.84	0.91		0	
25/7/2014	11:29	Cloudy	Middle	3.0	28.60	28.60	28.70	8.24	8.24	8.23	26.39	26.39	26.38	72.5	71.9	71.8	4.85	4.80	4.80	0.70	0.70	0.69	0	0.00
	11:31		Middle	3.0	28.80	28.80		8.22	8.22		26.37	26.37		70.1	72.8		4.67	4.86		0.69	0.68		0	

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

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
30/6/2014	15:06	Cloudy	Middle	2.5	29.20	29.20	29.25	8.58	8.58	8.61	24.31	24.31	24.32	89.3	87.7	87.9	5.98	5.87	5.88	3.04	3.04	3.01	2	2.50
	15:08		Middle	2.5	29.30	29.30		8.63	8.63		24.32	24.32		86.9	87.6		5.81	5.86		3.00	2.94		3	
2/7/2014	15:12	Fine	Middle	2.5	29.10	29.10	29.10	8.50	8.50	8.50	25.75	25.75	25.75	95.0	95.2	96.9	6.32	6.33	6.45	1.97	1.96	1.97	4	3.50
	15:14		Middle	2.5	29.10	29.10		8.50	8.50		25.75	25.75		97.5	99.8		6.49	6.65		1.97	1.96		3	
4/7/2014	15:48	Fine	Middle	2.5	29.90	29.90	29.85	8.64	8.64	8.66	25.43	25.43	25.44	127.8	126.0	125.4	8.43	8.31	8.27	3.33	3.31	3.18	3	3.00
	15:50		Middle	2.5	29.80	29.80		8.67	8.67		25.45	25.45		124.6	123.1		8.21	8.11		3.02	3.07		3	
7/7/2014	9:42	Fine	Middle	2.5	28.90	28.90	28.90	8.59	8.59	8.59	23.69	23.69	23.69	71.0	74.2	71.9	4.81	4.81	4.81	3.60	3.61	3.61	5	4.50
	9:44		Middle	2.5	28.90	28.90		8.59	8.59		23.69	23.69		70.9	71.6		4.79	4.84		3.61	3.60		4	
9/7/2014	11:12	Fine	Middle	2.5	28.50	28.50	28.50	8.45	8.45	8.46	26.85	26.85	26.83	82.3	79.3	79.2	5.50	5.30	5.29	3.30	3.37	3.29	4	4.00
	11:14		Middle	2.5	28.50	28.50		8.46	8.46		26.81	26.81		78.2	76.8		5.23	5.13		3.32	3.17		4	
11/7/2014	12:03	Cloudy	Middle	2.5	28.10	28.10	28.15	8.37	8.37	8.38	27.23	27.24	27.23	84.0	83.6	82.3	5.64	5.61	5.52	2.41	2.40	2.39	4	4.00
	12:05		Middle	2.5	28.20	28.20		8.38	8.38		27.23	27.23		81.4	80.2		5.46	5.38		2.38	2.36		4	
14/7/2014	14:35	Fine	Middle	2.5	28.00	28.00	28.00	8.26	8.26	8.26	26.58	26.58	26.58	75.6	73.1	74.8	5.10	4.94	5.05	3.37	3.38	3.38	4	4.50
	14:37		Middle	2.5	28.00	28.00		8.26	8.26		26.58	26.58		75.7	74.9		5.10	5.05		3.37	3.38		5	
16/7/2014	15:41	Sunny	Middle	2.5	27.80	27.80	27.85	8.22	8.22	8.22	27.16	27.16	27.16	64.9	63.7	63.1	4.37	4.29	4.25	3.81	3.98	3.85	4	4.50
	15:43		Middle	2.5	27.90	27.90		8.22	8.22		27.15	27.15		62.5	61.2		4.22	4.13		3.85	3.77		5	
21/7/2014	10:10	Fine	Middle	2.5	27.60	27.60	27.60	8.13	8.13	8.13	27.52	27.52	27.52	59.6	61.0	60.0	4.03	4.12	4.05	3.05	2.92	2.92	3	3.00
	10:12		Middle	2.5	27.60	27.60		8.12	8.12		27.51	27.51		60.0	59.4		4.05	4.01		2.87	2.85		3	
23/7/2014	11:17	Sunny	Middle	2.5	29.00	29.00	28.90	8.14	8.14	8.14	27.86	27.86	27.87	71.3	68.9	68.9	4.72	4.56	4.56	0.71	0.70	0.70	0	0.00
	11:19		Middle	2.5	28.80	28.80		8.13	8.13		27.88	27.88		67.5	67.9		4.46	4.49		0.68	0.69		0	
25/7/2014	11:19	Cloudy	Middle	3.0	28.50	28.50	28.60	8.22	8.22	8.22	26.32	26.32	26.31	71.5	68.5	69.6	4.79	4.58	4.65	1.21	1.22	1.19	0	0.00
	11:21		Middle	3.0	28.70	28.70		8.21	8.21		26.29	26.29		70.0	68.2		4.68	4.56		1.22	1.10		0	

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

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
30/6/2014	15:14	Cloudy	Middle	2.5	28.70	28.70	28.75	8.55	8.55	8.56	24.01	24.01	24.02	95.6	95.6	94.6	6.40	6.40	6.33	3.63	3.50	3.55	4	3.50
	15:16		Middle	2.5	28.80	28.80		8.56	8.56		24.03	24.03		93.7	93.5		6.27	6.26		3.54	3.52		3	
2/7/2014	15:05	Fine	Middle	2.5	29.00	29.00	29.00	8.46	8.46	8.46	25.73	25.73	25.73	93.6	95.8	95.6	6.24	6.39	6.38	2.18	2.18	2.17	3	3.00
	15:07		Middle	2.5	29.00	29.00		8.46	8.46		25.73	25.73		96.6	96.5		6.44	6.43		2.15	2.15		3	
4/7/2014	15:43	Fine	Middle	2.5	29.90	29.90	29.90	8.57	8.57	8.60	25.71	25.71	25.71	111.4	112.2	111.5	7.33	7.38	7.32	3.52	3.39	3.42	4	3.50
	15:45		Middle	2.5	29.90	29.90		8.62	8.62		25.70	25.70		112.7	109.5		7.37	7.20		3.39	3.39		3	
7/7/2014	9:33	Fine	Middle	2.5	28.90	28.90	28.90	8.60	8.60	8.60	23.74	23.76	23.72	57.8	58.0	58.5	3.91	3.92	3.97	3.11	3.10	3.11	4	4.00
	9:35		Middle	2.5	28.90	28.90		8.60	8.60		23.82	23.55		58.7	59.6		4.00	4.04		3.11	3.12		4	
9/7/2014	11:07	Fine	Middle	2.5	28.60	28.60	28.62	8.38	8.38	8.40	26.84	26.84	26.84	90.1	87.5	87.9	6.02	5.84	5.86	2.95	2.94	2.94	3	3.00
	11:09		Middle	2.5	28.60	28.68		8.42	8.42		26.82	26.84		88.1	85.7		5.85	5.72		2.93	2.93		3	
11/7/2014	11:59	Cloudy	Middle	2.5	28.10	28.10	28.10	8.33	8.33	8.34	27.28	27.28	27.28	70.3	68.8	68.6	4.72	4.62	4.61	2.54	2.57	2.60	4	4.50
	11:01		Middle	2.5	28.10	28.10		8.35	8.35		27.27	27.27		67.9	67.2		4.56	4.52		2.61	2.68		5	
14/7/2014	14:30	Fine	Middle	2.5	28.40	28.40	28.40	8.22	8.22	8.22	26.61	26.61	26.61	74.9	76.3	76.7	5.02	5.11	5.12	3.73	3.74	3.74	4	4.00
	14:32		Middle	2.5	28.40	28.40		8.22	8.22		26.61	26.61		77.7	77.7		5.16	5.20		3.74	3.73		4	
16/7/2014	15:37	Sunny	Middle	2.5	27.90	27.90	27.90	8.22	8.22	8.22	26.14	26.14	26.17	66.1	64.8	66.4	4.49	4.39	4.51	3.10	3.09	3.02	5	4.50
	15:39		Middle	2.5	27.90	27.90		8.21	8.21		26.20	26.20		67.7	67.1		4.59	4.55		2.96	2.92		4	
21/7/2014	10:15	Fine	Middle	2.5	27.60	27.60	27.60	8.13	8.13	8.13	27.44	27.44	27.46	60.4	58.4	58.4	4.08	3.95	3.95	1..24	1.23	1.25	5	4.50
	10:17		Middle	2.5	27.60	27.60		8.12	8.12		27.48	27.48		57.4	57.3		3.88	3.88		1.27	1.26		4	
23/7/2014	11:12	Sunny	Middle	2.5	28.60	28.60	28.65	8.13	8.13	8.13	27.87	27.87	27.87	66.9	66.0	65.1	4.43	4.37	4.31	0.85	0.84	0.80	0	0.00
	11:14		Middle	2.5	28.70	28.70		8.13	8.13		27.86	27.86		64.9	62.5		4.30	4.14		0.75	0.75		0	
25/7/2014	11:14	Cloudy	Middle	3.0	28.90	28.90	29.05	8.21	8.21	8.21	26.40	26.40	26.37	65.4	65.7	65.0	4.35	4.37	4.32	0.55	0.54	0.53	0	0.00
	11:16		Middle	3.0	29.20	29.20		8.20	8.20		26.34	26.34		63.2	65.6		4.19	4.36		0.52	0.52		0	

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

Water Monitoring Result at RW21-P789 - Sun Hung Kai Centre
Mid-Ebb 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
30/6/2014	14:05	Cloudy	Middle	3.5	29.40	29.40	29.45	8.47	8.47	8.49	26.47	26.47	26.47	101.9	102.0	102.5	6.71	6.72	6.75	3.84	3.80	3.81	3	3.00
	14:07		Middle	3.5	29.50	29.50		8.50	8.50		26.47	26.47		101.9	104.0		6.72	6.86		3.79	3.79		3	
2/7/2014	14:55	Fine	Middle	3.5	29.40	29.40	29.50	8.39	8.39	8.41	27.01	27.01	27.01	97.6	98.7	98.2	6.14	6.40	6.36	3.00	3.22	3.08	4	4.00
	14:57		Middle	3.5	29.60	29.60		8.42	8.42		27.01	27.01		97.8	98.7		6.42	6.48		3.05	3.03		4	
4/7/2014	14:40	Fine	Middle	3.5	30.60	30.60	30.70	8.50	8.50	8.53	26.88	26.88	26.88	97.9	92.3	91.7	6.70	6.01	6.02	3.57	3.99	3.82	4	3.50
	14:42		Middle	3.5	30.80	30.80		8.55	8.55		26.87	26.87		89.5	87.0		5.76	5.60		3.91	3.81		3	
7/7/2014	9:30	Fine	Middle	3.5	28.60	28.60	28.55	8.46	8.46	8.49	24.90	24.90	24.91	113.0	113.6	111.9	7.63	7.67	7.55	2.78	2.81	2.81	6	5.00
	9:32		Middle	3.5	28.50	28.50		8.52	8.52		24.92	24.92		111.1	109.8		7.50	7.41		2.81	2.83		4	
9/7/2014	10:45	Fine	Middle	3.5	28.00	28.00	28.05	8.37	8.37	8.38	27.67	27.67	27.67	98.2	96.7	97.5	6.58	6.48	6.53	4.02	3.91	3.89	5	5.00
	10:47		Middle	3.5	28.10	28.10		8.39	8.39		27.67	27.67		97.0	98.1		6.50	6.57		3.82	3.81		5	
11/7/2014	11:30	Cloudy	Middle	3.5	27.60	27.60	27.60	8.35	8.35	8.36	28.50	28.50	28.50	96.4	96.0	95.4	6.48	6.45	6.41	5.56	5.53	5.52	5	5.50
	11:32		Middle	3.5	27.60	27.60		8.37	8.37		28.50	28.50		95.0	94.3		6.38	6.34		5.51	5.48		6	
14/7/2014	13:40	Fine	Middle	3.5	28.10	28.10	28.25	8.29	8.29	8.29	27.80	27.80	27.80	84.5	87.3	86.5	5.64	5.82	5.77	5.13	4.95	4.96	6	6.00
	13:42		Middle	3.5	28.40	28.40		8.28	8.28		27.79	27.79		86.3	88.0		5.75	5.87		4.82	4.93		6	
16/7/2014	14:10	Sunny	Middle	3.5	29.00	29.00	29.15	8.26	8.26	8.25	28.82	28.82	28.82	87.3	89.3	89.9	5.72	5.84	5.88	3.24	3.28	3.31	5	5.00
	14:12		Middle	3.5	29.30	29.30		8.24	8.24		28.82	28.82		91.7	91.1		5.99	5.95		3.30	3.42		5	
21/7/2014	8:55	Fine	Middle	3.5	27.90	27.90	27.95	8.24	8.24	8.24	28.89	28.89	28.89	83.9	85.0	84.5	5.59	5.67	5.63	2.19	2.19	2.18	4	3.50
	8:57		Middle	3.5	28.00	28.00		8.23	8.23		28.89	28.89		84.2	84.8		5.61	5.65		2.17	2.17		3	
23/7/2014	11:25	Sunny	Middle	4.0	29.40	29.40	29.55	8.20	8.20	8.20	28.72	28.72	28.72	80.0	82.6	82.7	5.20	5.36	5.37	1.42	1.55	1.56	0	0.00
	11:27		Middle	4.0	29.70	29.70		8.20	8.20		28.71	28.71		83.7	84.5		5.44	5.48		1.58	1.70		0	
25/7/2014	11:25	Cloudy	Middle	3.5	28.60	28.60	28.60	8.28	8.28	8.28	27.49	27.49	27.49	88.9	89.3	89.0	5.91	5.94	5.92	2.29	2.41	2.37	0	0.00
	11:27		Middle	3.5	28.60	28.60		8.28	8.28		27.49	27.49		88.9	88.7		5.91	5.90		2.41	2.37		0	

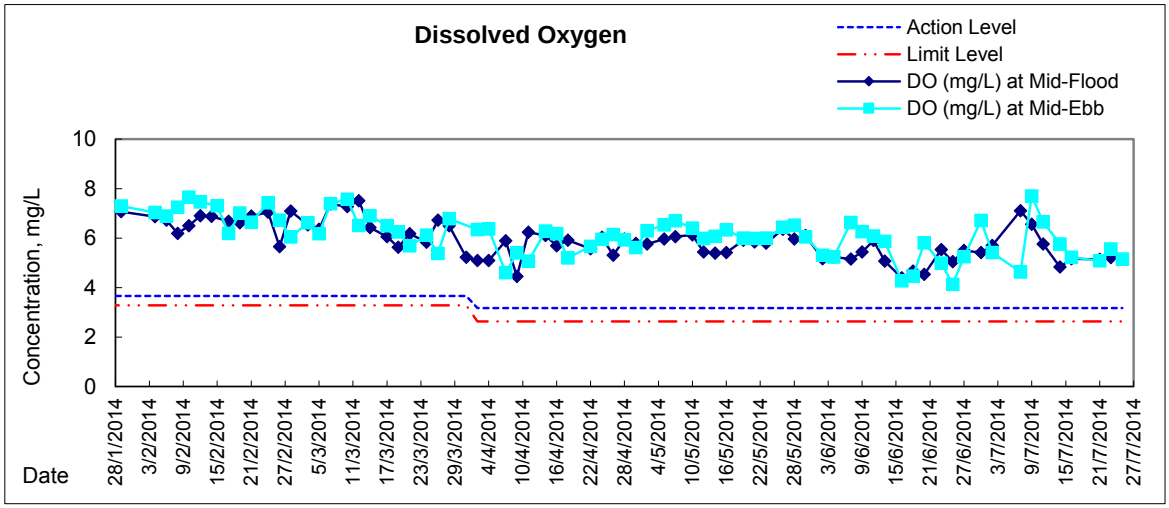
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

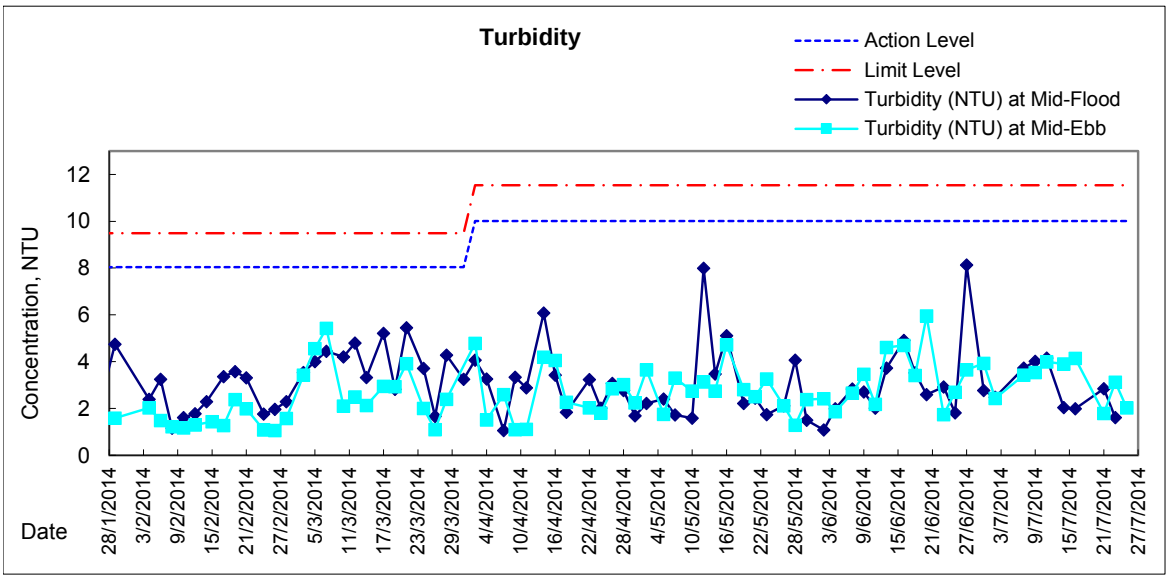
Water Monitoring Result at WSD19 - Sheung Wan
Mid-Ebb Tide

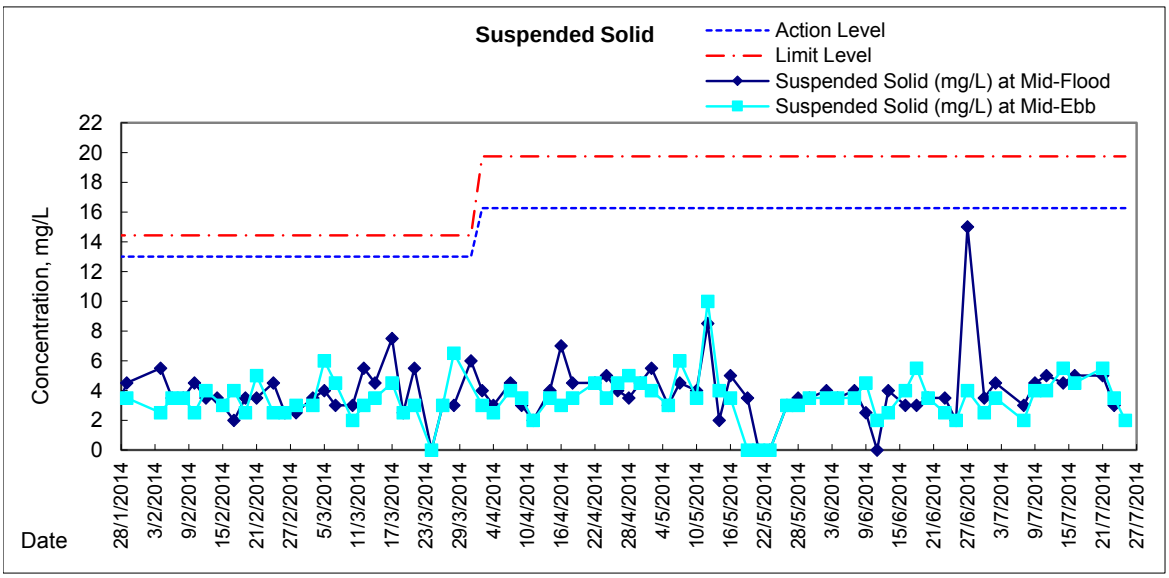
Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO			Turbidity			Suspended Solids	
			m		°C			-			ppt			%			mg/L			NTU			mg/L	
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value		Average	Value	Average
30/6/2014	13:45	Cloudy	Middle	3.0	29.90	29.90	29.90	8.39	8.39	8.42	25.87	25.87	25.87	95.1	95.3	94.0	6.23	6.27	6.16	5.09	5.14	5.15	3	3.00
	13:47		Middle	3.0	29.90	29.90		8.45	8.45		25.87	25.87		94.3	91.1		6.18	5.97		5.13	5.25		3	
2/7/2014	14:30	Fine	Middle	3.0	30.30	30.30	30.40	8.34	8.34	8.37	26.56	26.56	26.56	96.4	100.4	97.9	6.26	6.52	6.36	3.42	3.42	3.43	5	4.50
	14:32		Middle	3.0	30.50	30.50		8.39	8.39		26.55	26.55		100.0	94.8		6.49	6.15		3.41	3.45		4	
4/7/2014	14:20	Fine	Middle	3.0	31.00	31.00	31.00	8.49	8.49	8.52	26.33	26.33	26.33	101.4	97.3	96.8	6.50	6.23	6.19	3.73	3.94	3.73	2	3.00
	14:22		Middle	3.0	31.00	31.00		8.54	8.54		26.33	26.33		94.1	94.4		6.01	6.02		3.62	3.61		4	
7/7/2014	9:15	Fine	Middle	3.0	28.60	28.60	28.60	8.44	8.44	8.45	23.99	23.99	24.00	103.9	105.3	104.7	7.04	7.14	7.09	4.14	4.14	4.14	5	4.50
	9:17		Middle	3.0	28.60	28.60		8.46	8.46		24.00	24.00		105.0	104.7		7.10	7.09		4.14	4.13		4	
9/7/2014	10:30	Fine	Middle	3.0	28.20	28.20	28.25	8.32	8.32	8.35	27.43	27.43	27.44	103.2	103.2	103.8	6.91	6.91	6.95	3.31	3.32	3.40	3	3.00
	10:32		Middle	3.0	28.30	28.30		8.38	8.38		27.44	27.44		104.2	104.5		6.97	6.99		3.40	3.57		3	
11/7/2014	11:15	Cloudy	Middle	3.0	27.90	27.90	27.90	8.33	8.33	8.35	27.69	27.69	27.69	92.4	90.8	91.0	6.21	6.16	6.13	5.39	5.28	5.30	4	5.00
	11:17		Middle	3.0	27.90	27.90		8.36	8.36		27.68	27.68		90.9	89.8		6.11	6.03		5.27	5.27		6	
14/7/2014	11:35	Fine	Middle	3.5	27.30	27.30	27.25	8.32	8.32	8.31	27.82	27.82	27.83	80.6	81.9	81.0	5.46	5.56	5.49	3.48	3.49	3.49	5	4.50
	11:37		Middle	3.5	27.20	27.20		8.30	8.30		27.83	27.83		81.1	80.2		5.51	5.44		3.50	3.50		4	
16/7/2014	13:50	Sunny	Middle	3.0	30.20	30.20	30.35	8.34	8.34	8.33	28.05	28.05	28.05	89.2	93.6	90.4	5.75	6.03	5.82	3.77	3.81	3.79	3	3.50
	13:52		Middle	3.0	30.50	30.50		8.32	8.32		28.05	28.05		88.6	90.0		5.70	5.79		3.80	3.79		4	
21/7/2014	8:35	Fine	Middle	3.5	27.80	27.80	27.85	8.27	8.27	8.26	28.32	28.32	28.33	77.0	78.0	77.8	5.16	5.22	5.21	2.51	2.51	2.50	3	3.50
	8:37		Middle	3.5	27.90	27.90		8.25	8.25		28.33	28.33		79.2	77.1		5.31	5.16		2.52	2.45		4	
23/7/2014	11:00	Sunny	Middle	3.5	29.50	29.50	29.70	8.24	8.24	8.24	28.98	28.98	28.96	88.5	88.1	88.9	5.71	5.70	5.73	2.40	2.50	2.46	0	0.00
	11:02		Middle	3.5	29.90	29.90		8.24	8.24		28.89	28.98		89.1	89.7		5.76	5.73		2.51	2.43		0	
25/7/2014	11:05	Cloudy	Middle	3.0	28.70	28.70	28.75	8.29	8.29	8.29	27.14	27.14	27.14	89.4	89.8	87.9	5.94	5.97	5.84	1.77	1.76	1.76	0	0.00
	11:07		Middle	3.0	28.80	28.80		8.29	8.29		27.14	27.14		87.3	85.0		5.80	5.65		1.76	1.75		0	

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

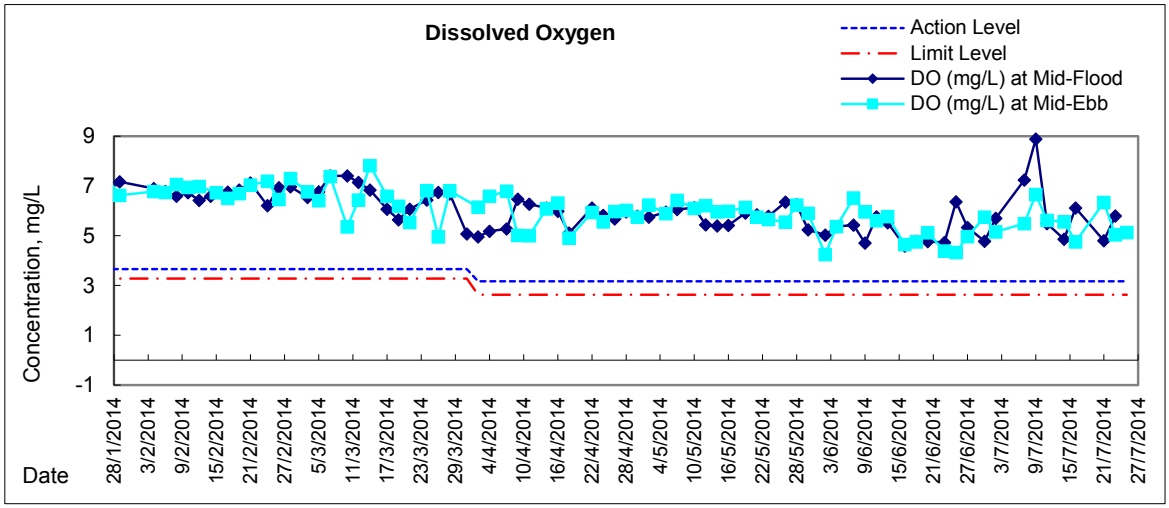
Graphic Presentation of Water Quality Result of WSD9 - Tai Wan

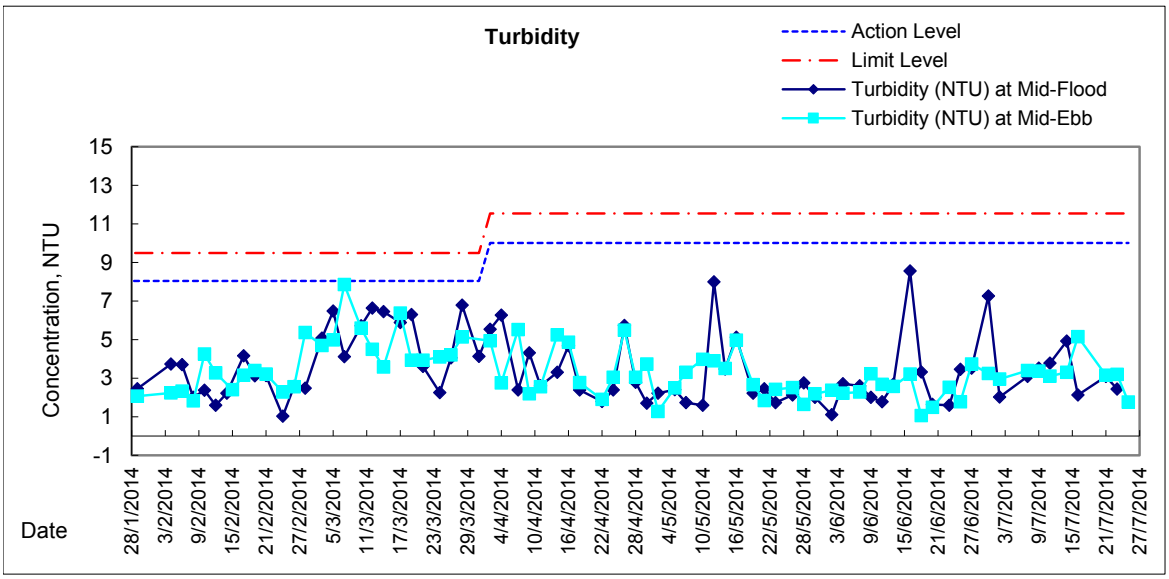


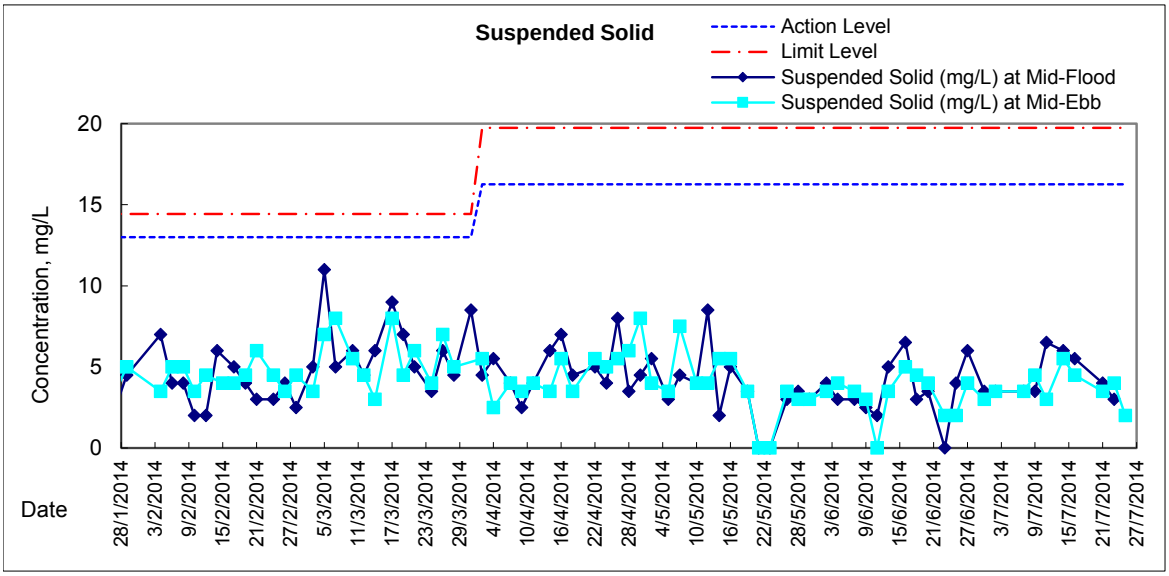




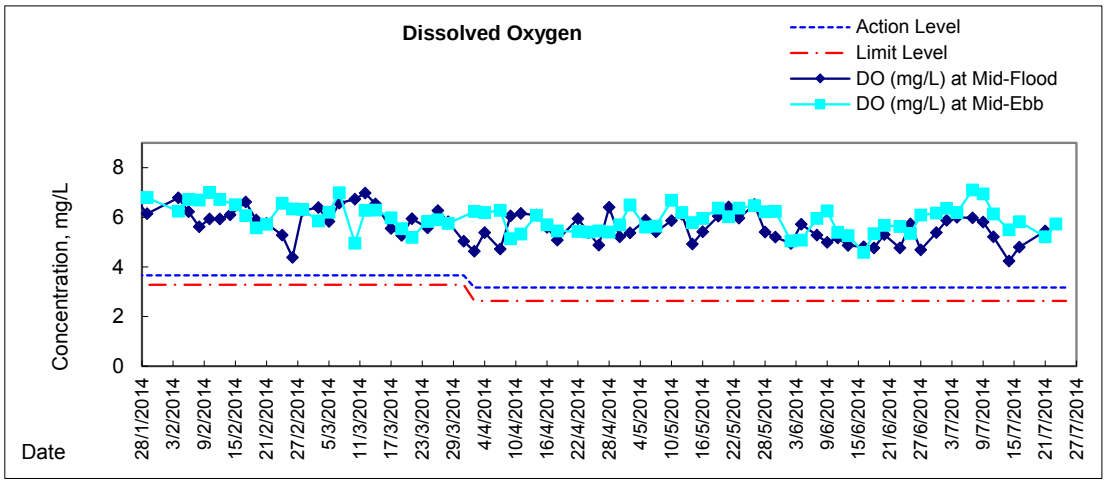
Graphic Presentation of Water Quality Result of WSD17 - Quarry Bay

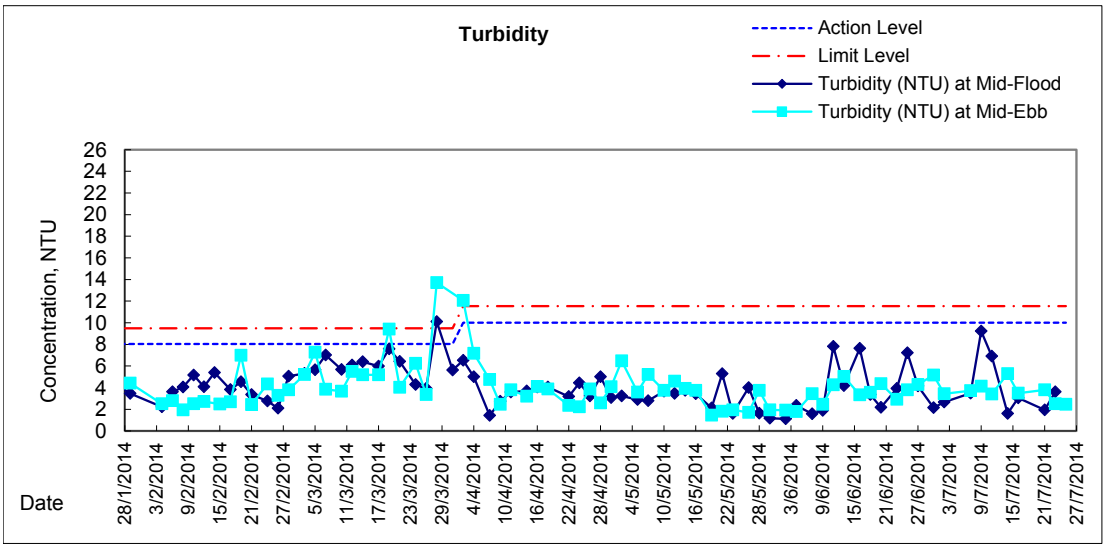


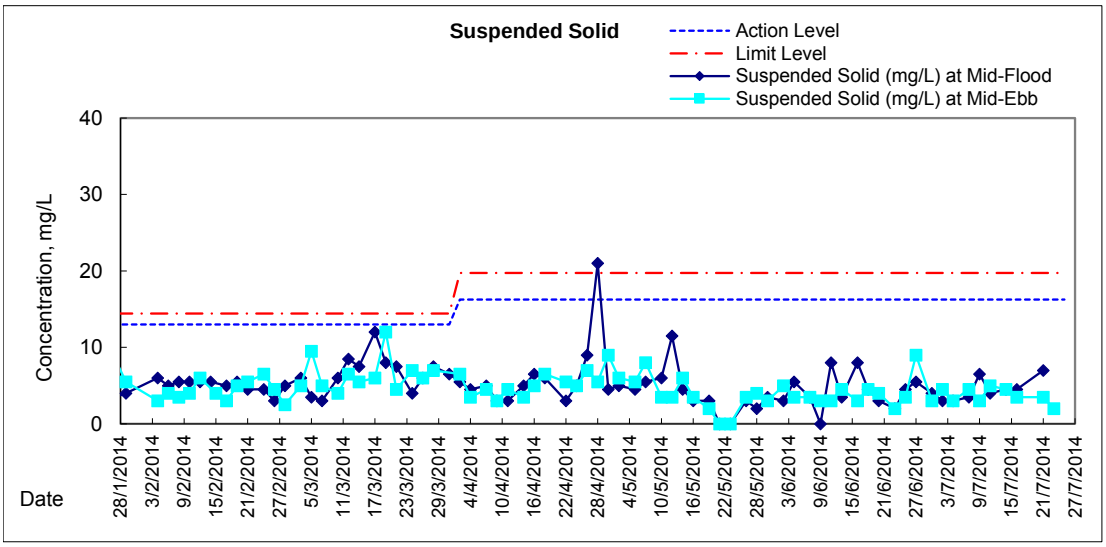




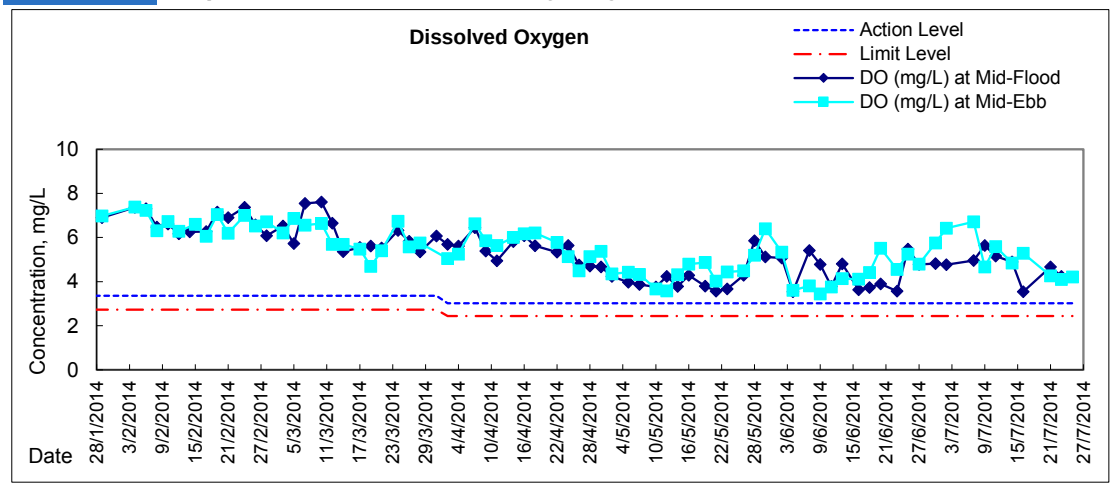
Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

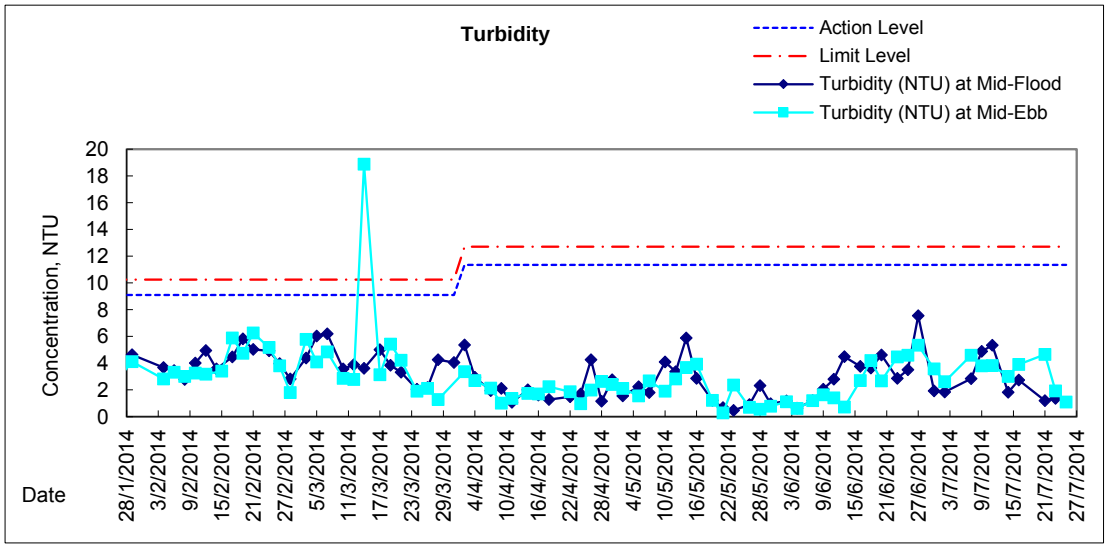


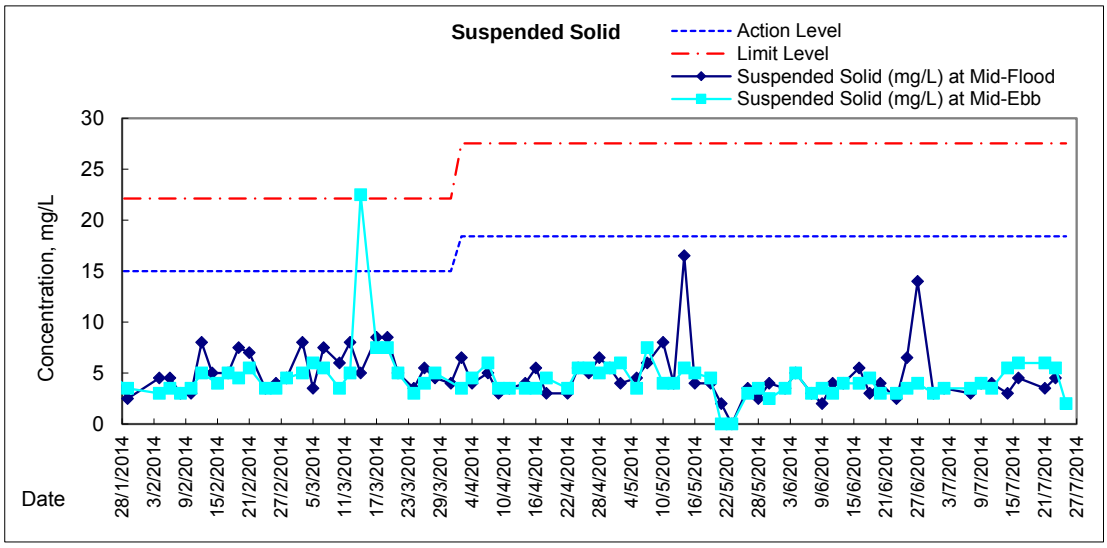




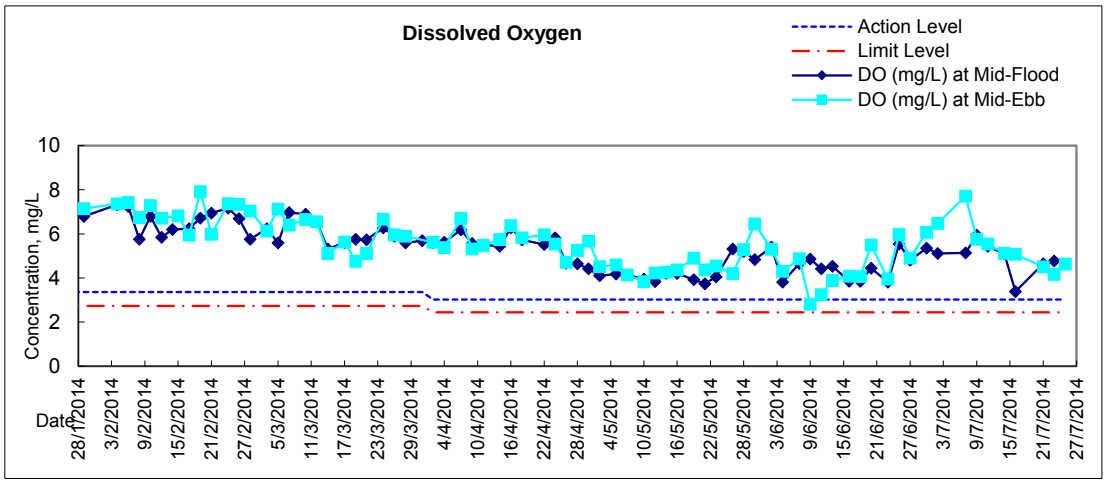
Graphic Presentation of Water Quality Result of C1 - HKCEC

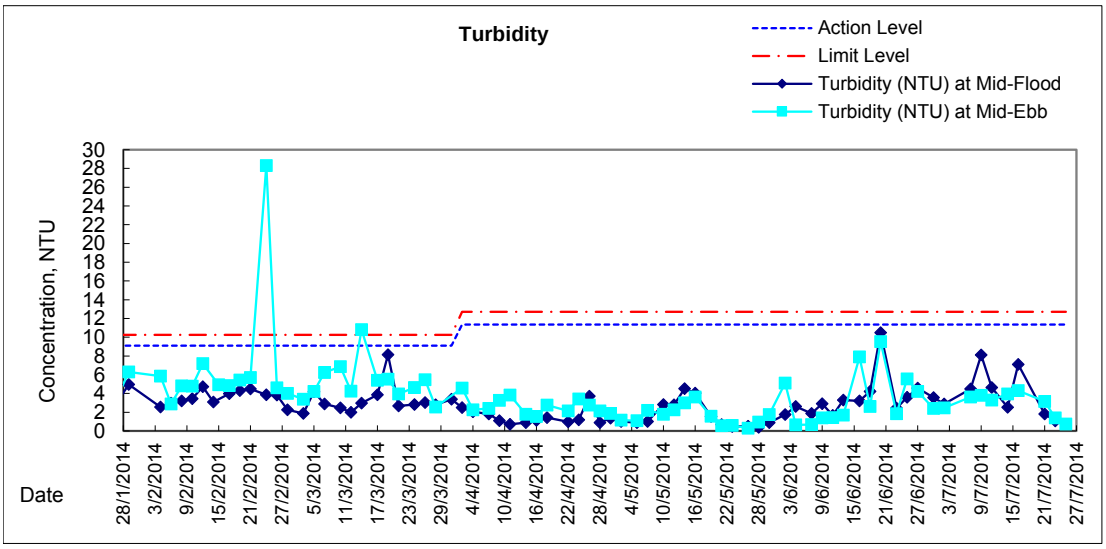


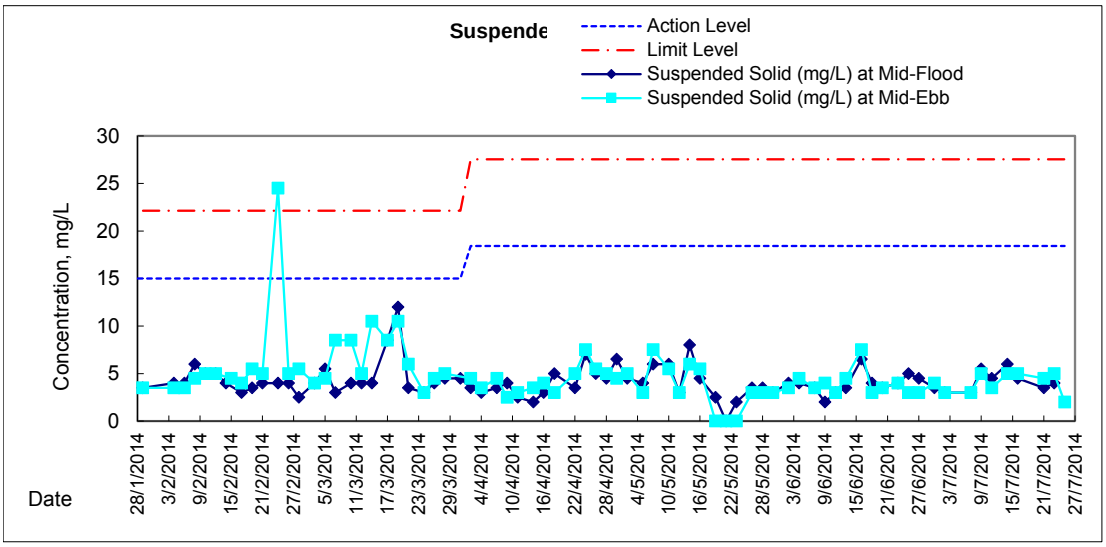




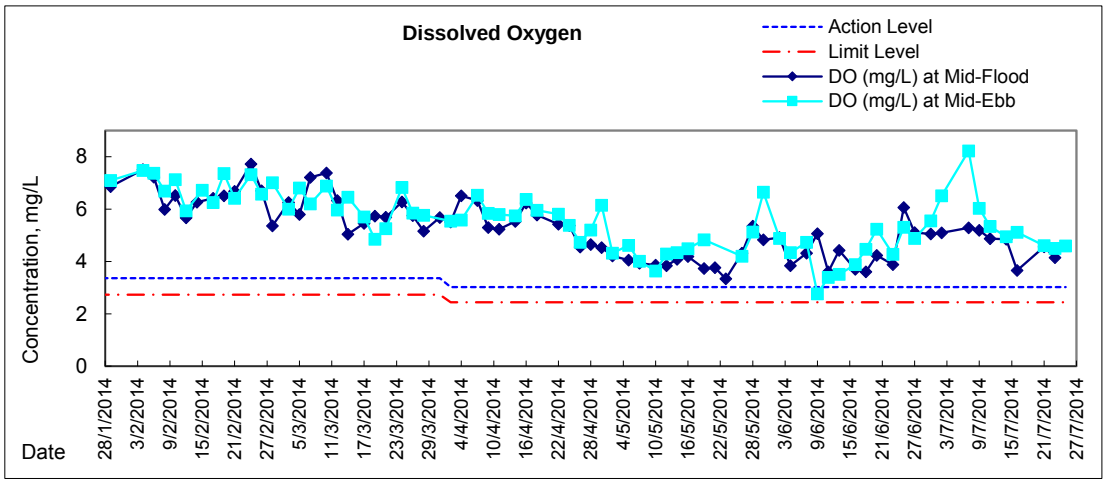
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

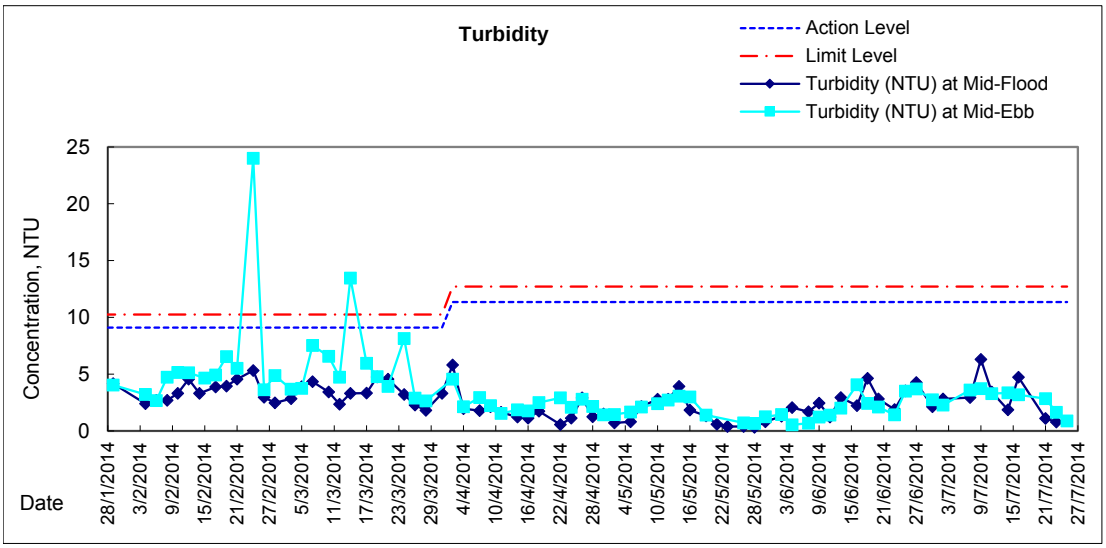


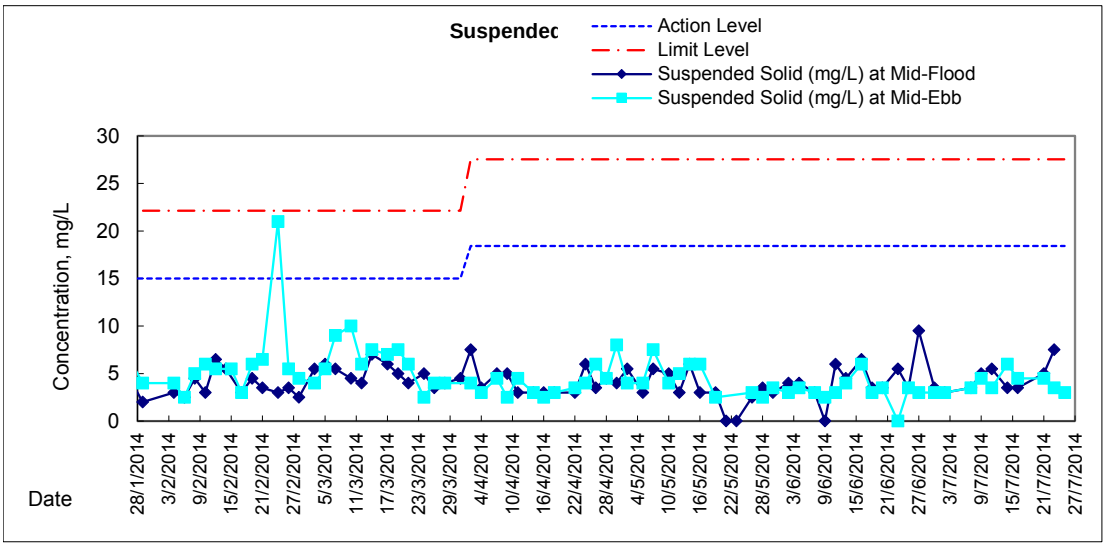




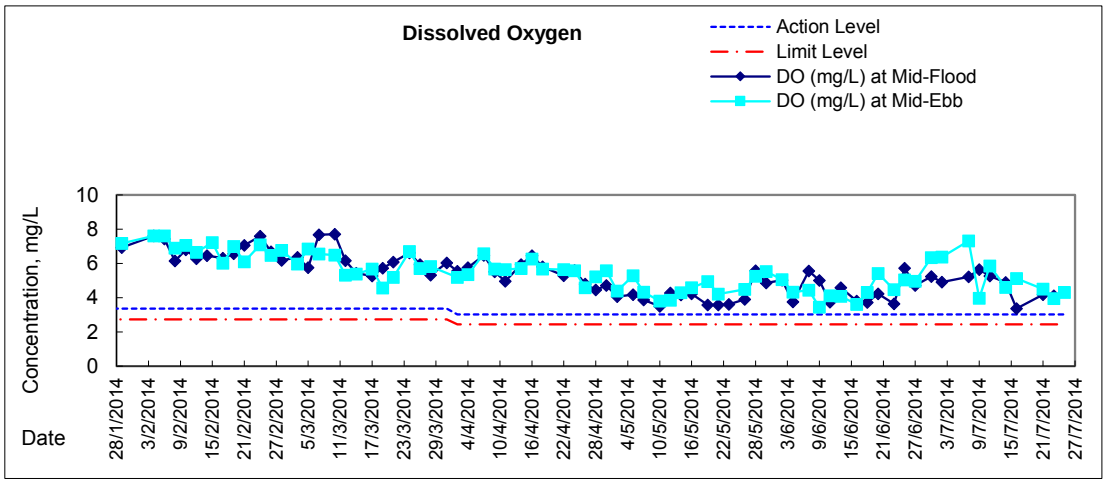
Graphic Presentation of Water Quality Result of P3 - APA

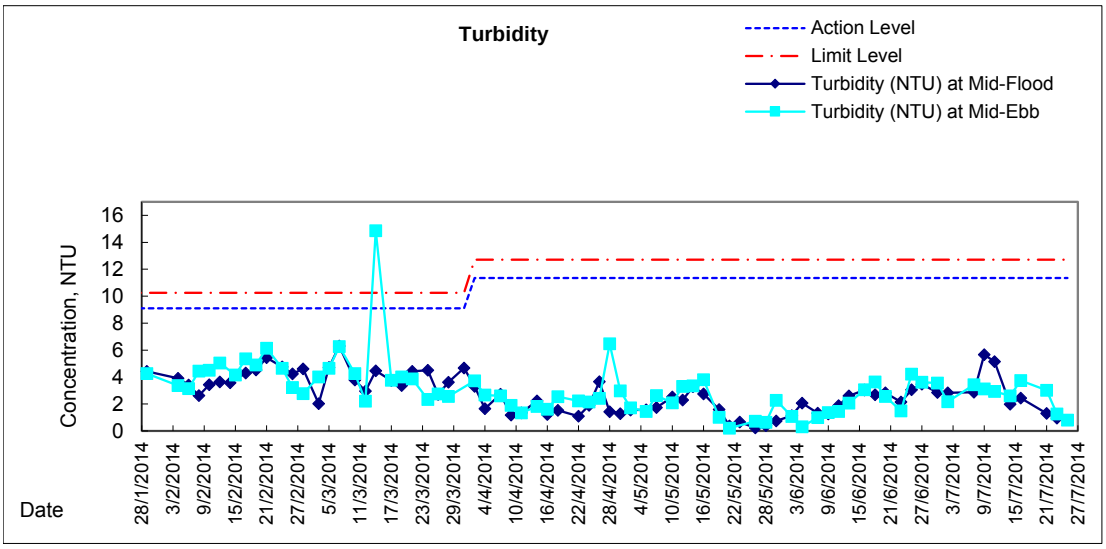


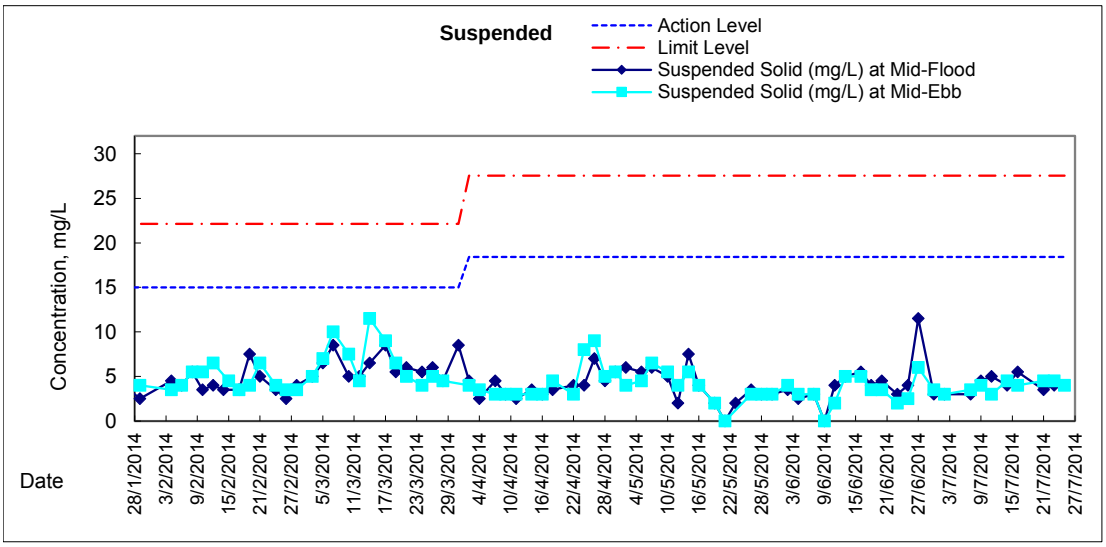




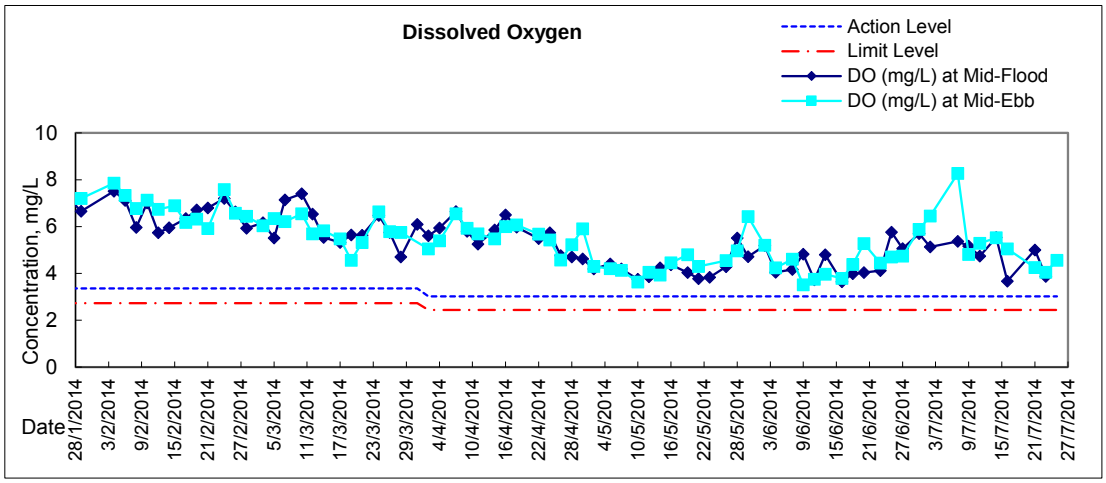
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

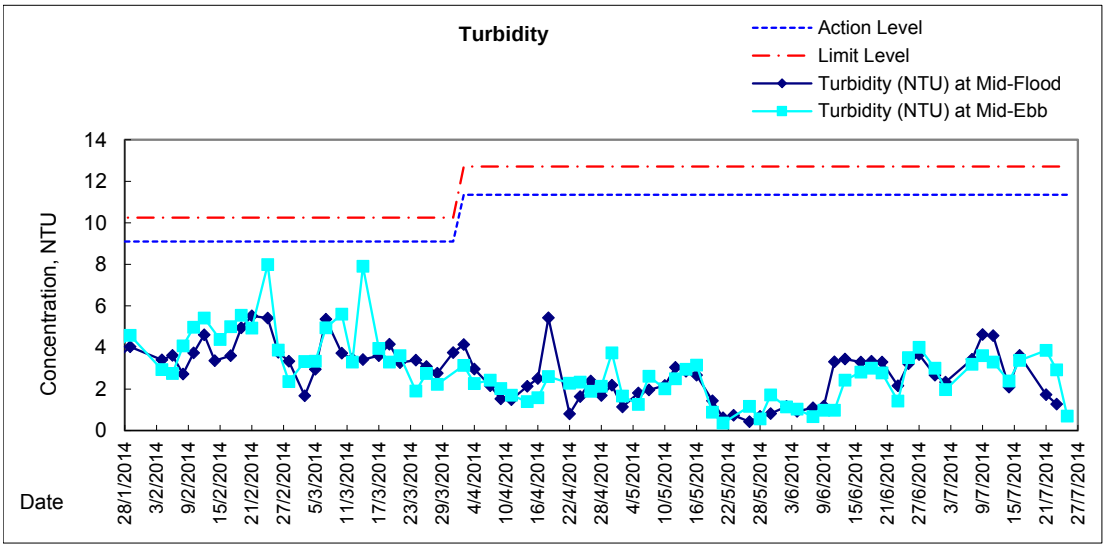


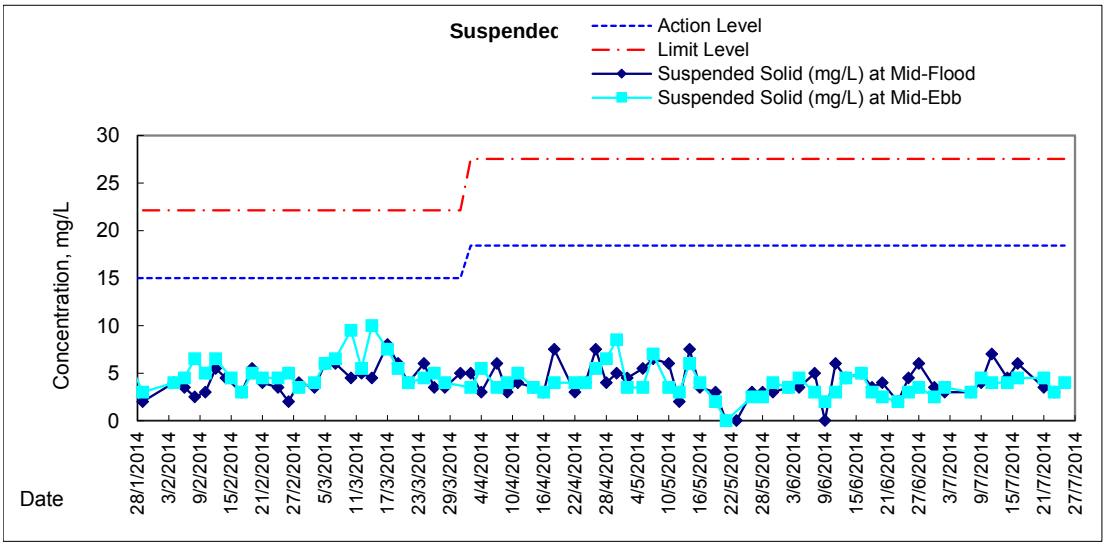




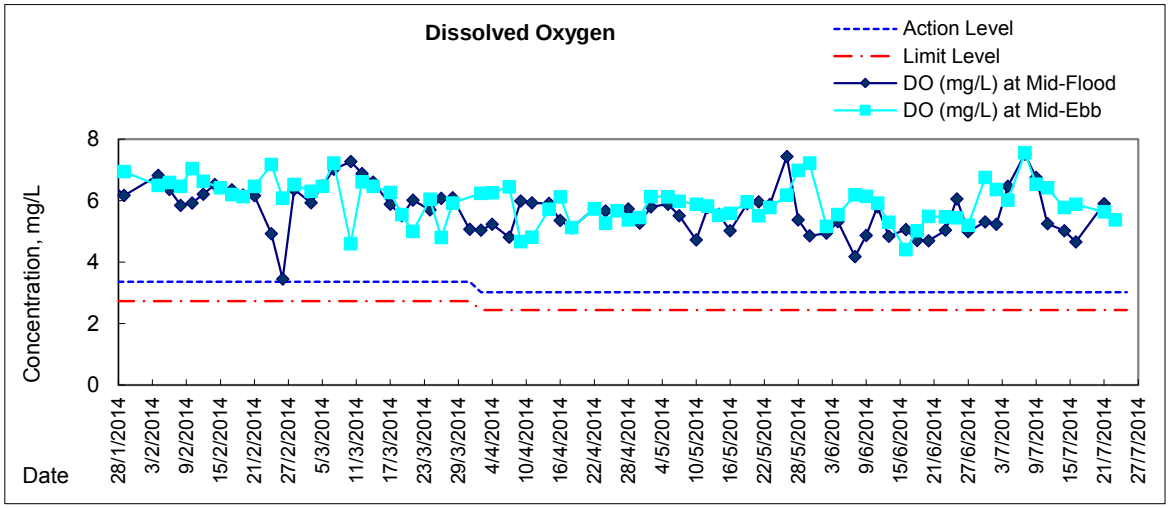
Graphic Presentation of Water Quality Result of P4 - SOC

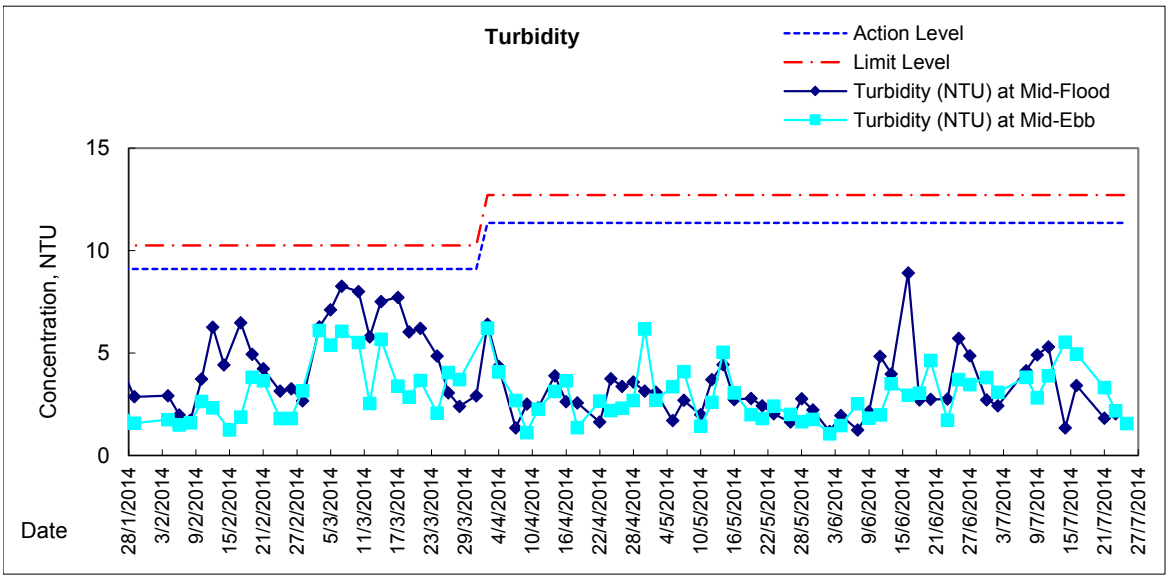


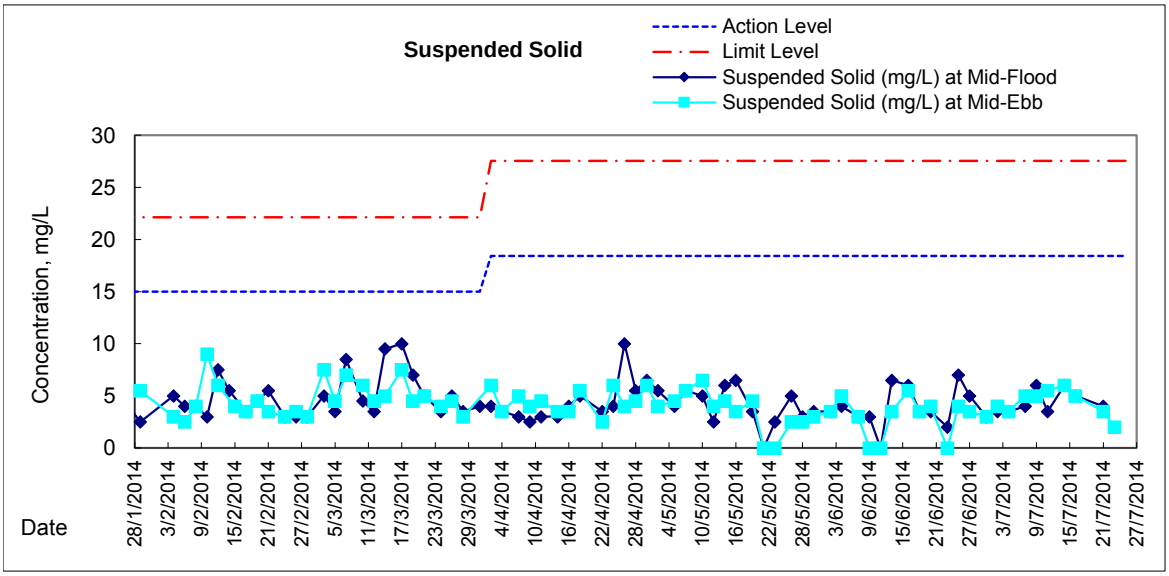




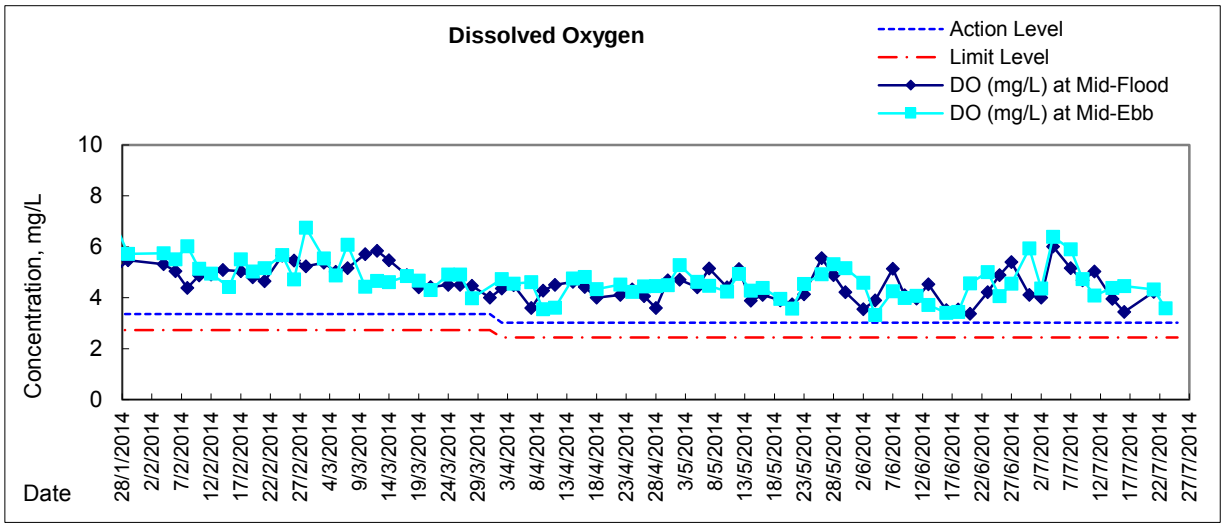
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

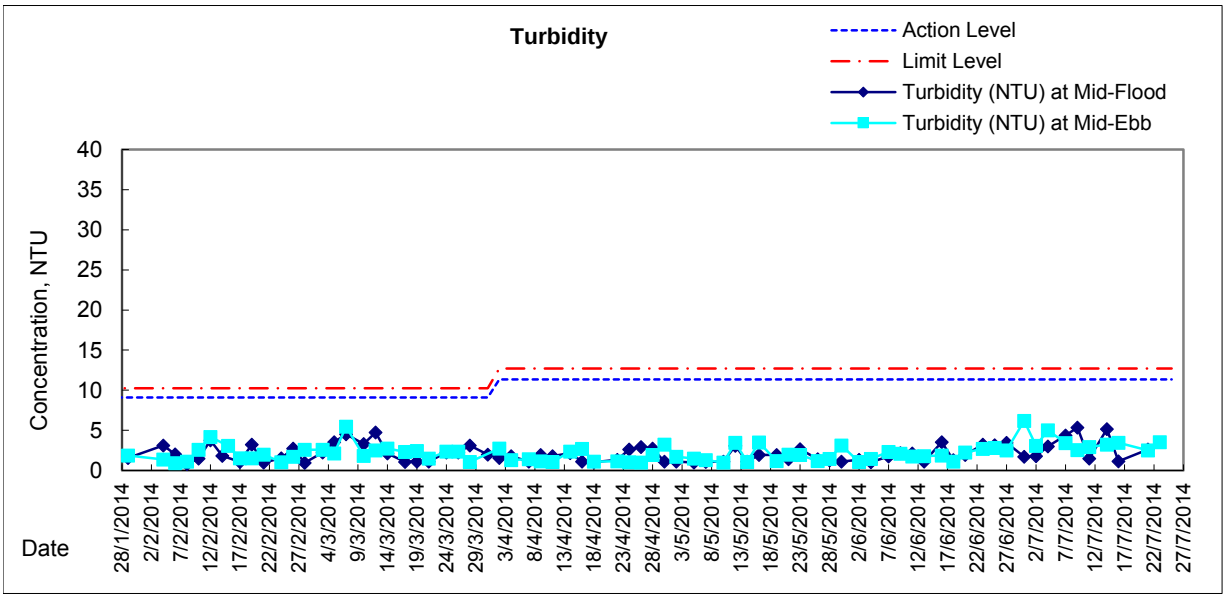


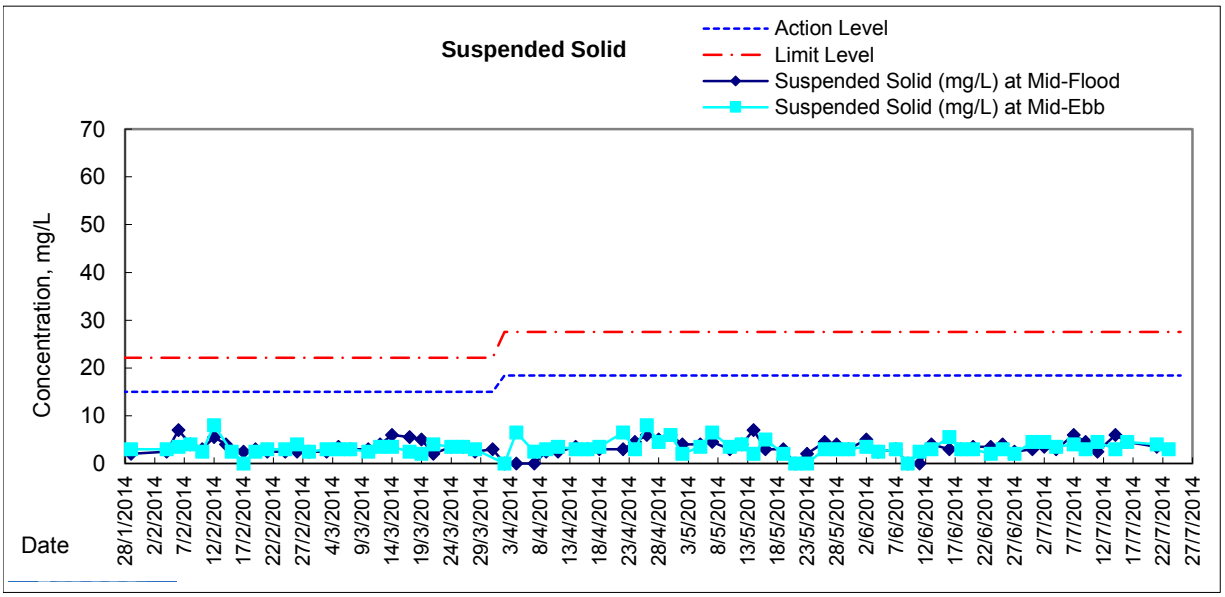




Graphic Presentation of Water Quality Result of C7 - Windsor House







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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:34		Middle	1.5	29.50	29.50	29.5	8.24	8.24	8.2	24.14	24.14	24.1	64.4	65.5	65.0	4.30	4.38	4.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:50		Middle	1.5	29.10	29.10	29.1	8.30	8.30	8.3	26.34	26.34	26.3	72.9	76.1	74.5	4.83	5.05	4.94
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:15		Middle	1.5	29.80	29.80	29.8	8.41	8.41	8.4	26.18	26.18	26.2	94.8	92.1	93.5	6.28	6.10	6.19
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:10		Middle	1.5	28.70	28.70	28.7	7.83	7.83	7.8	23.62	23.63	23.6	55.3	57.2	56.3	3.77	3.90	3.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	28.50	28.50	28.5	8.33	8.33	8.3	27.35	27.35	27.4	87.4	87.6	87.5	5.38	5.39	5.39
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:05		Middle	1.5	28.20	28.20	28.2	8.30	8.30	8.3	27.85	27.85	27.9	65.8	66.1	66.0	4.40	4.41	4.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:17		Middle	1.5	27.60	27.60	27.6	7.98	7.98	8.0	27.85	27.85	27.9	67.4	67.8	67.6	4.64	4.65	4.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:40		Middle	1.5	28.00	28.00	28.0	8.14	8.14	8.1	28.12	28.12	28.1	85.4	84.5	85.0	5.74	5.67	5.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:49		Middle	1.5	27.80	27.80	27.8	8.04	8.04	8.0	29.36	29.36	29.4	54.8	54.4	54.6	3.66	3.63	3.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:20		Middle	1.5	29.60	29.60	29.6	8.13	8.13	8.1	27.93	27.93	27.9	81.7	82.5	82.1	5.22	5.27	5.25
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:46		Middle	1.0	27.50	27.50	27.5	7.95	7.95	8.0	29.19	29.19	29.2	72.5	73.3	72.9	4.95	5.00	4.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:23		Middle	1.5	29.30	29.30	29.3	8.04	8.04	8.0	28.67	28.67	28.7	60.4	62.1	61.3	3.97	4.05	4.01
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:00		Middle	1.5	29.00	29.00	29.0	8.30	8.30	8.3	26.19	26.19	26.2	58.7	60.4	59.6	3.89	4.01	3.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:25		Middle	1.5	29.50	29.50	29.5	8.42	8.42	8.4	25.76	25.76	25.8	88.4	84.1	86.3	5.85	5.54	5.70
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4:00		Middle	1.5	28.80	28.80	28.8	8.07	8.07	8.1	26.18	26.18	26.2	73.5	75.3	74.4	4.91	5.03	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:07		Middle	1.5	28.60	28.60	28.6	8.32	8.32	8.3	27.05	27.05	27.1	75.1	77.2	76.2	5.00	5.13	5.07
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17:10		Middle	1.5	28.30	28.30	28.3	8.32	8.32	8.3	27.43	27.43	27.4	69.8	71.1	70.5	4.66	4.75	4.71
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:10		Middle	1.5	27.60	27.60	27.6	7.99	7.99	8.0	28.14	28.14	28.1	72.0	71.8	71.9	5.13	4.94	5.04
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:50		Middle	1.5	27.70	27.70	27.7	8.17	8.17	8.2	28.10	28.10	28.1	58.1	58.5	58.3	3.91	3.93	3.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:40		Middle	1.5	27.80	27.80	27.8	8.05	8.05	8.1	29.86	29.86	29.9	51.0	51.6	51.3	3.39	3.43	3.41
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:25		Middle	1.5	29.50	29.50	29.5	8.14	8.14	8.1	27.37	27.37	27.4	63.1	65.1	64.1	4.13	4.26	4.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18:36		Middle	1.0	27.30	27.30	27.3	7.99	7.99	8.0	28.79	28.79	28.8	76.7	77.4	77.1	5.27	5.31	5.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:05		Middle	1.5	29.00	29.00	29.0	8.07	8.07	8.1	21.48	21.48	21.5	53.9	55.2	54.6	3.68	3.77	3.73
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:32		Middle	1.5	28.60	28.60	28.6	8.31	8.31	8.3	25.15	25.15	25.2	83.5	82.4	83.0	5.63	5.56	5.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:02		Middle	1.5	28.80	28.80	28.8	8.46	8.46	8.5	24.38	24.38	24.4	97.2	100.7	99.0	6.55	6.79	6.67
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:39		Middle	1.5	28.90	28.90	28.9	8.13	8.13	8.1	18.18	18.18	18.2	15.5	17.5	16.5	1.08	1.22	1.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:52		Middle	1.5	28.10	28.10	28.1	8.36	8.36	8.4	26.07	26.07	26.1	87.8	88.1	88.0	5.94	5.96	5.95
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:57		Middle	1.5	27.60	27.60	27.6	8.34	8.34	8.3	27.14	27.14	27.1	79.7	81.5	80.6	5.40	5.52	5.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7:58		Middle	1.5	27.60	27.60	27.6	8.00	8.00	8.0	23.04	23.04	23.0	26.3	27.4	26.9	1.86	1.93	1.90
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:32		Middle	1.5	27.30	27.30	27.3	8.15	8.15	8.2	27.07	27.07	27.1	89.3	90.2	89.8	6.07	6.13	6.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:22		Middle	1.5	27.70	27.70	27.7	8.05	8.05	8.1	24.91	24.91	24.9	34.0	34.6	34.3	2.33	2.37	2.35
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:02		Middle	1.5	29.30	29.30	29.3	8.15	8.15	8.2	27.51	27.51	27.5	48.8	48.7	48.8	3.20	3.20	3.20
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:36		Middle	1.5	27.40	27.40	27.4	8.13	8.13	8.1	19.35	19.35	19.4	14.2	15.0	14.6	1.02	1.08	1.05
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6:10		Middle	1.5	29.00	29.10	29.1	7.97	7.97	8.0	21.32	21.32	21.3	52.6	54.0	53.3	3.60	3.69	3.65
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:30		Middle	1.5	28.90	28.90	28.9	8.32	8.32	8.3	25.50	25.50	25.5	65.7	65.8	65.8	4.39	4.40	4.40
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:00		Middle	1.5	29.00	29.00	29.0	8.44	8.44	8.4	24.90	24.90	24.9	104.6	103.5	104.1	7.00	6.95	6.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:47		Middle	1.5	28.70	28.70	28.7	7.96	7.96	8.0	17.88	17.88	17.9	15.9	16.2	16.1	1.12	1.14	1.13
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:50		Middle	1.5	28.50	28.50	28.5	8.37	8.37	8.4	25.82	25.82	25.8	90.1	93.0	91.6	6.05	6.24	6.15
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:55		Middle	1.5	27.70	27.70	27.7	8.36	8.36	8.4	27.50	27.50	27.5	74.2	73.6	73.9	5.00	4.96	4.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8:07		Middle	1.5	27.60	27.60	27.6	7.92	7.92	7.9	22.56	22.58	22.6	35.5	35.0	35.3	2.52	2.48	2.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:30		Middle	1.5	27.60	27.60	27.6	8.21	8.21	8.2	25.47	25.47	25.5	73.2	72.1	72.7	4.92	4.81	4.87
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3:29		Middle	1.5	27.80	27.80	27.8	7.89	7.89	7.9	24.76	24.76	24.8	38.5	39.3	38.9	2.63	2.69	2.66
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	16:00		Middle	1.5	29.70	29.70	29.7	8.20	8.20	8.2	27.15	27.15	27.2	74.6	75.2	74.9	4.86	4.90	4.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19:45		Middle	1.5	27.40	27.40	27.4	8.01	8.01	8.0	19.23	19.23	19.2	14.8	15.4	15.1	1.07	1.12	1.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:35		Middle	2	28.90	28.90	28.9	8.34	8.34	8.3	28.28	28.28	28.3	86.6	87.7	87.2	5.70	5.77	5.74
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:25		Middle	2	29.20	29.20	29.2	8.26	8.26	8.3	26.07	26.07	26.1	68.5	67.9	68.2	4.54	4.50	4.52
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:10		Middle	2	30.10	30.10	30.1	8.36	8.36	8.4	25.91	25.91	25.9	82.4	77.4	79.9	5.39	5.06	5.23
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:00		Middle	2	28.90	28.90	28.9	8.40	8.40	8.4	24.51	24.51	24.5	84.7	84.5	84.6	5.68	5.67	5.68
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:10		Middle	2	27.90	27.90	27.9	8.24	8.24	8.2	27.77	27.77	27.8	62.0	63.3	62.7	4.16	4.25	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	2	27.60	27.60	27.6	8.21	8.21	8.2	26.10	26.10	26.1	70.1	69.8	70.0	4.84	4.80	4.82
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:10		Middle	2	28.40	28.40	28.4	8.23	8.23	8.2	26.68	26.68	26.7	83.3	82.8	83.1	5.57	5.53	5.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:35		Middle	2	28.40	28.40	28.4	8.14	8.14	8.1	28.04	28.04	28.0	79.8	80.0	79.9	5.30	5.31	5.31
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:25		Middle	2	27.90	27.90	27.9	8.16	8.16	8.2	28.51	28.51	28.5	87.5	87.3	87.4	5.86	5.84	5.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	0:00	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	2	29.00	29.00	29.0	8.15	8.15	8.2	27.80	27.80	27.8	53.4	52.7	53.1	3.52	3.47	3.50
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12:02		Middle	2	28.40	28.40	28.4	8.21	8.21	8.2	27.15	27.15	27.2	68.1	68.4	68.3	4.54	4.56	4.55
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:27		Middle	1.5	28.70	28.70	28.7	8.41	8.41	8.4	23.14	23.14	23.1	87.7	87.9	87.8	5.97	5.99	5.98
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:17		Middle	1.5	28.60	28.60	28.6	8.40	8.40	8.4	19.47	19.47	19.5	74.7	77.0	75.9	5.20	5.36	5.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:02		Middle	1.5	29.10	29.10	29.1	8.63	8.63	8.6	16.56	16.56	16.6	67.1	61.5	64.3	4.69	4..28	4.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:52		Middle	1.5	28.40	28.40	28.4	8.44	8.44	8.4	23.03	23.03	23.0	91.0	91.4	91.2	6.22	6.25	6.24
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:02		Middle	1.5	27.70	27.70	27.7	8.25	8.25	8.3	24.32	24.32	24.3	85.1	85.4	85.3	5.84	5.85	5.85
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:40		Middle	1.5	27.30	27.30	27.3	8.33	8.33	8.3	25.61	25.61	25.6	82.7	82.6	82.7	5.69	5.69	5.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:02		Middle	1.5	27.90	27.90	27.9	8.23	8.23	8.2	25.63	25.63	25.6	85.5	87.4	86.5	5.81	5.97	5.89
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:27		Middle	1.5	28.20	28.20	28.2	8.26	8.26	8.3	21.70	21.70	21.7	76.0	78.0	77.0	5.27	5.40	5.34
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:17		Middle	1.5	27.80	27.80	27.8	8.22	8.22	8.2	26.85	26.85	26.9	82.6	79.9	81.3	5.60	5.41	5.51
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	0:00	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:42		Middle	1.5	29.50	29.50	29.5	8.18	8.18	8.2	26.43	26.43	26.4	57.5	54.9	56.2	3.78	3.60	3.69
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:47		Middle	1.5	28.50	28.50	28.5	8.23	8.23	8.2	25.74	25.74	25.7	85.7	85.8	85.8	5.77	5.78	5.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Date	Time	Weater Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:45		Middle	2	29.20	29.20	29.2	8.38	8.38	8.4	27.37	27.37	27.4	88.0	90.7	89.4	5.79	5.97	5.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:30		Middle	2	29.30	29.30	29.3	8.29	8.29	8.3	26.27	26.27	26.3	64.5	65.7	65.1	4.27	4.28	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:20		Middle	2	29.90	29.90	29.9	8.45	8.45	8.5	25.94	25.94	25.9	96.1	95.8	96.0	6.29	6.28	6.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10:05		Middle	2	29.10	29.10	29.1	8.43	8.43	8.4	24.55	24.55	24.6	86.6	87.3	87.0	5.81	5.86	5.84
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:15		Middle	2	28.30	28.30	28.3	8.25	8.25	8.3	27.14	27.14	27.1	72.7	73.0	72.9	4.87	4.89	4.88
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:57		Middle	2	28.20	28.20	28.2	8.28	8.28	8.3	26.85	26.85	26.9	58.2	61.9	60.1	3.91	4.15	4.03
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:15		Middle	2	28.80	28.80	28.8	8.23	8.23	8.2	26.05	26.05	26.1	69.1	69.3	69.2	4.61	4.62	4.62
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:45		Middle	2	28.20	28.20	28.2	8.17	8.17	8.2	28.44	28.44	28.4	68.0	68.5	68.3	4.52	4.54	4.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:30		Middle	2	27.90	27.90	27.9	8.18	8.18	8.2	27.75	27.75	27.8	66.1	66.8	66.5	4.43	4.48	4.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	0:00	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:50		Middle	2	29.20	29.20	29.2	8.13	8.13	8.1	27.79	27.79	27.8	53.0	54.5	53.8	3.48	3.58	3.53
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:52		Middle	2	28.90	28.90	28.9	8.18	8.18	8.2	27.02	27.02	27.0	62.9	63.8	63.4	4.18	4.24	4.21
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

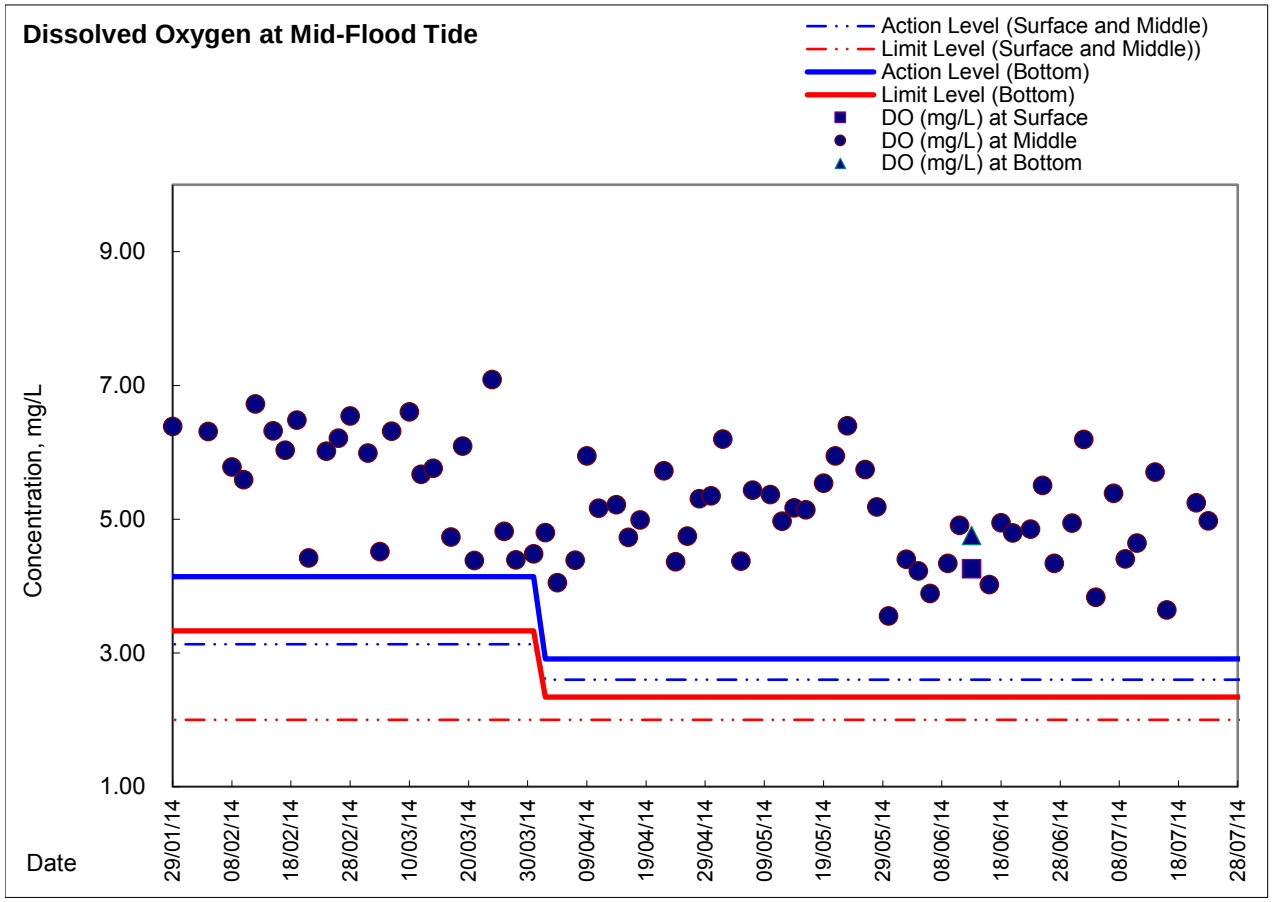
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

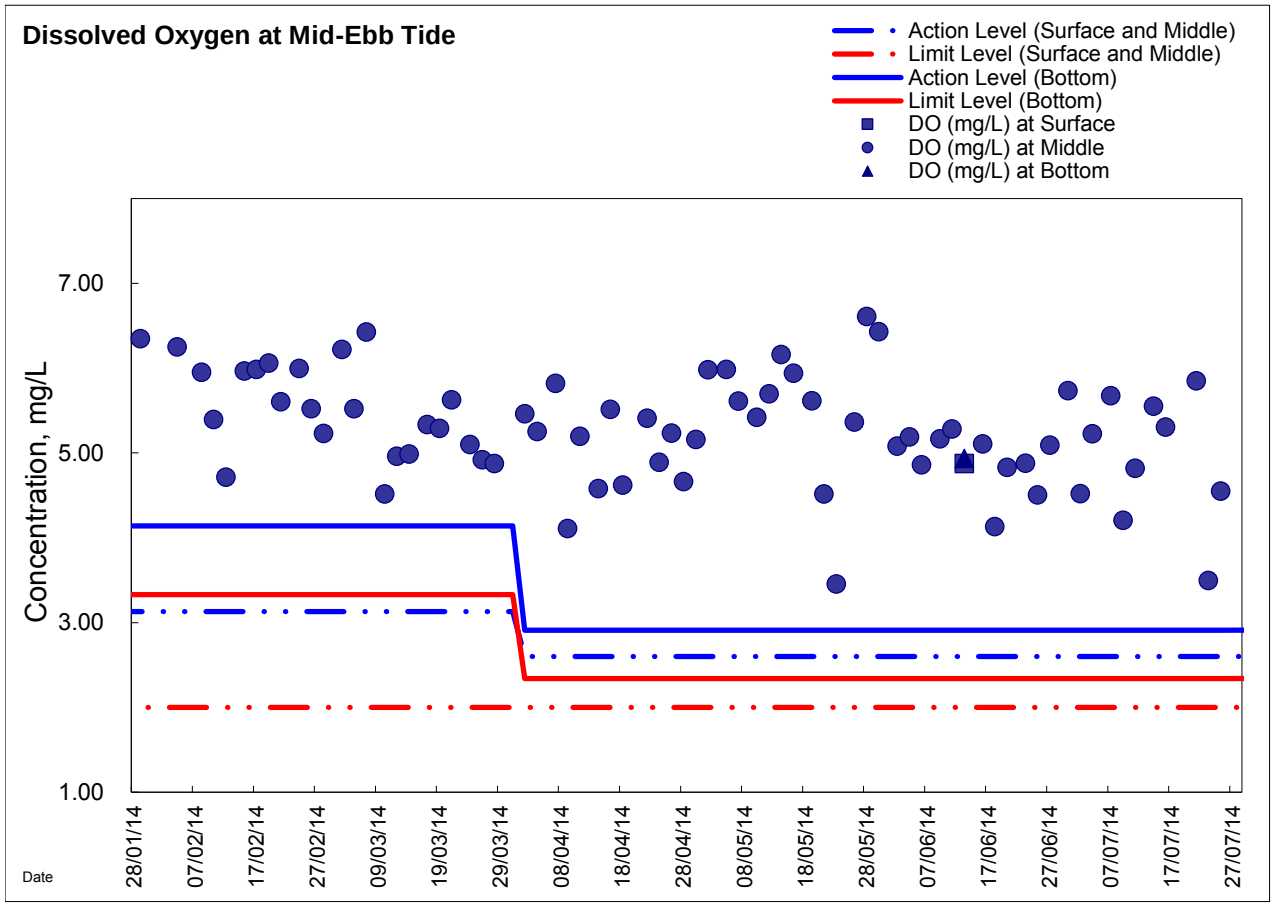
Water Monitoring Result at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area
Mid-Ebb Tide

Date	Time	Weather Condition	Sampling Depth		Water Temperature			pH			Salinity			DO Saturation			DO		
			m		℃			-			ppt			%			mg/L		
					Value		Average	Value		Average	Value		Average	Value		Average	Value		Average
30/6/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:25		Middle	1.5	29.10	29.10	29.1	8.44	8.44	8.4	22.84	22.84	22.8	85.2	86.0	85.6	5.75	5.80	5.78
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:15		Middle	1.5	28.90	28.90	28.9	8.36	8.36	8.4	23.52	23.52	23.5	69.2	67.0	68.1	4.67	4.52	4.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	15:00		Middle	1.5	30.20	30.20	30.2	8.51	8.51	8.5	25.49	25.49	25.5	78.2	77.3	77.8	5.13	5.07	5.10
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:50		Middle	1.5	28.50	28.50	28.5	8.45	8.45	8.5	23.99	23.99	24.0	91.7	93.4	92.6	6.22	6.34	6.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:00		Middle	1.5	27.80	27.80	27.8	8.36	8.36	8.4	21.67	21.67	21.7	63.8	64.2	64.0	4.44	4.47	4.46
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:38		Middle	1.5	27.10	27.10	27.1	8.35	8.35	8.4	25.07	25.07	25.1	63.1	61.0	62.1	4.35	4.20	4.28
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:00		Middle	1.5	28.10	28.10	28.1	8.26	8.26	8.3	25.69	25.69	25.7	72.5	74.2	73.4	4.91	5.02	4.97
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16/7/2014	-	Sunny	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:25		Middle	1.5	29.00	29.00	29.0	8.21	8.21	8.2	26.69	26.69	26.7	86.9	82.4	84.7	5.75	5.44	5.60
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21/7/2014	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9:15		Middle	1.5	27.80	27.80	27.8	8.26	8.26	8.3	27.36	27.36	27.4	85.7	85.2	85.5	5.77	5.73	5.75
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23/7/2014	-	0:00	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:40		Middle	1.5	29.30	29.30	29.3	8.22	8.22	8.2	26.98	26.98	27.0	59.1	60.0	59.6	3.89	3.95	3.92
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25/7/2014	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11:45		Middle	1.5	28.50	28.50	28.5	8.26	8.26	8.3	25.58	25.58	25.6	63.8	63.7	63.8	4.29	4.29	4.29
	-		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

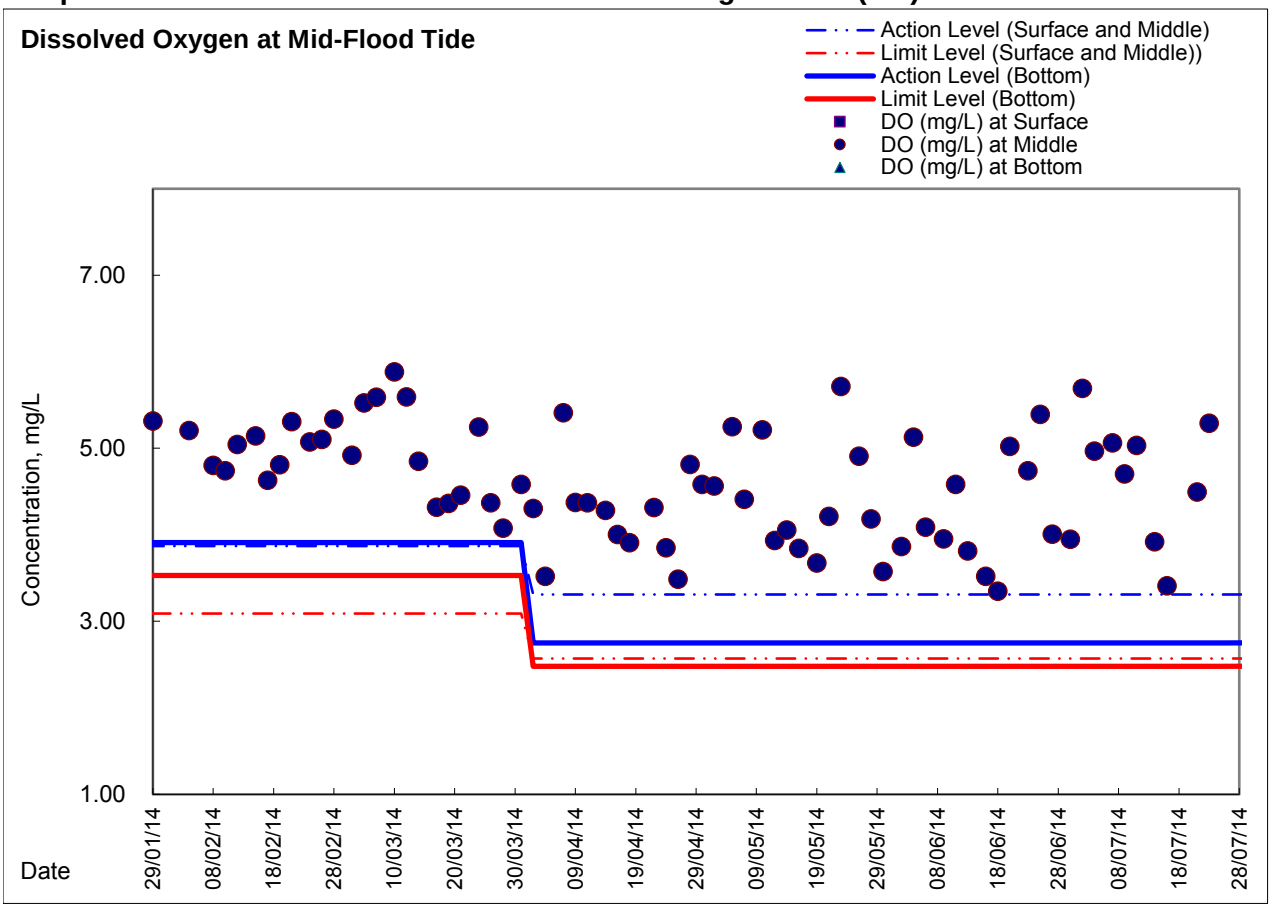
Remarks:
Single underline denotes exceedance over Action Level.
Double underline denotes exceedance over Limit Level.

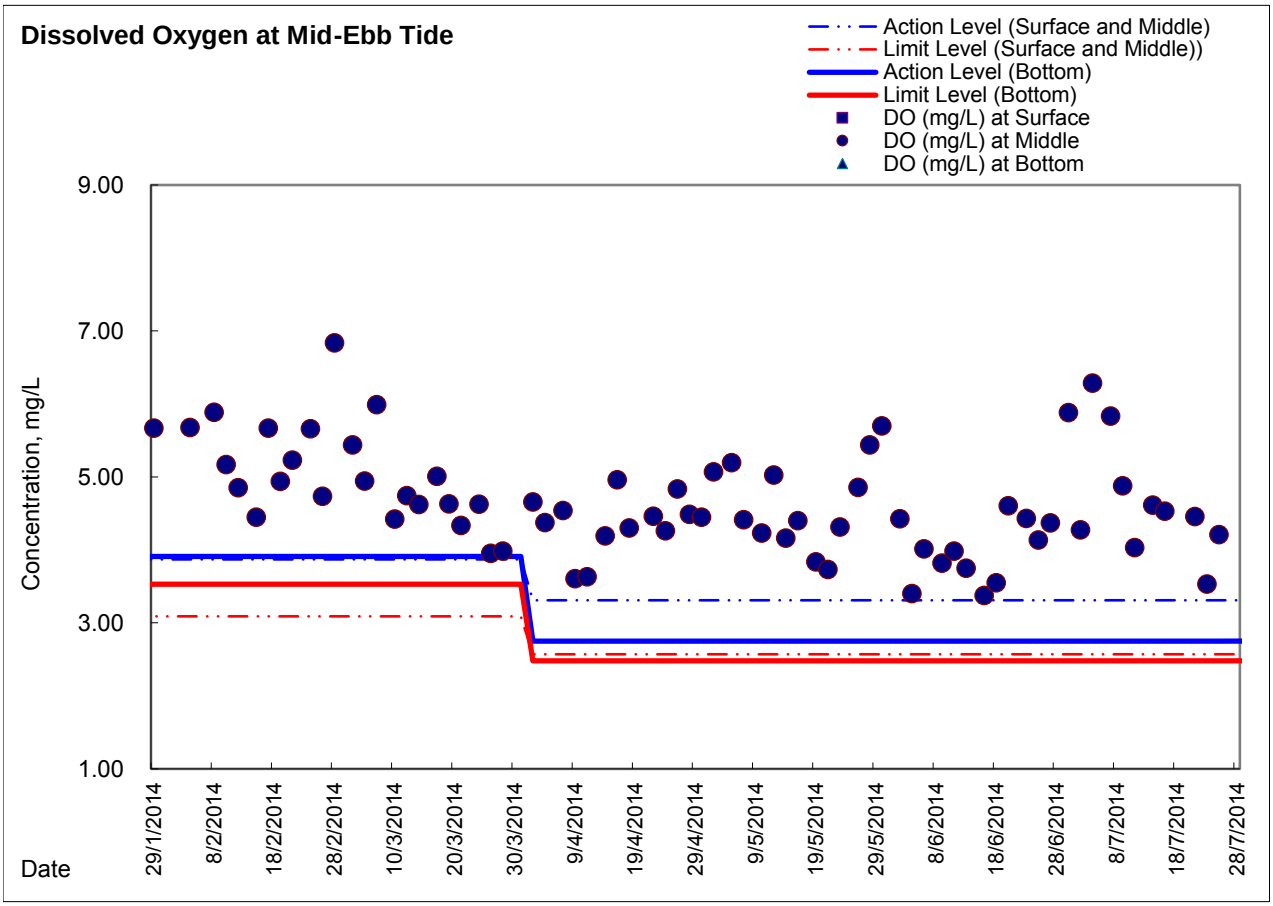
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel



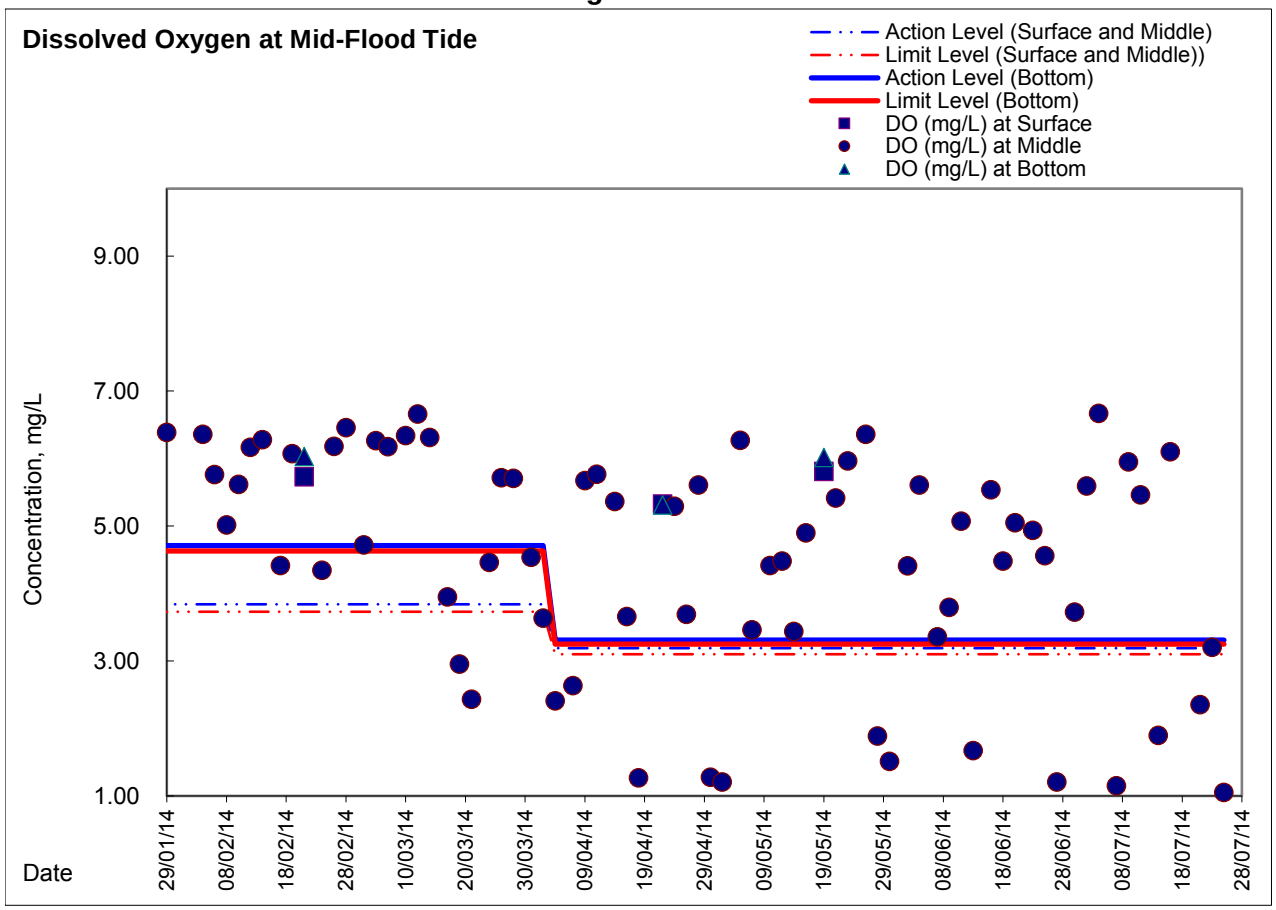


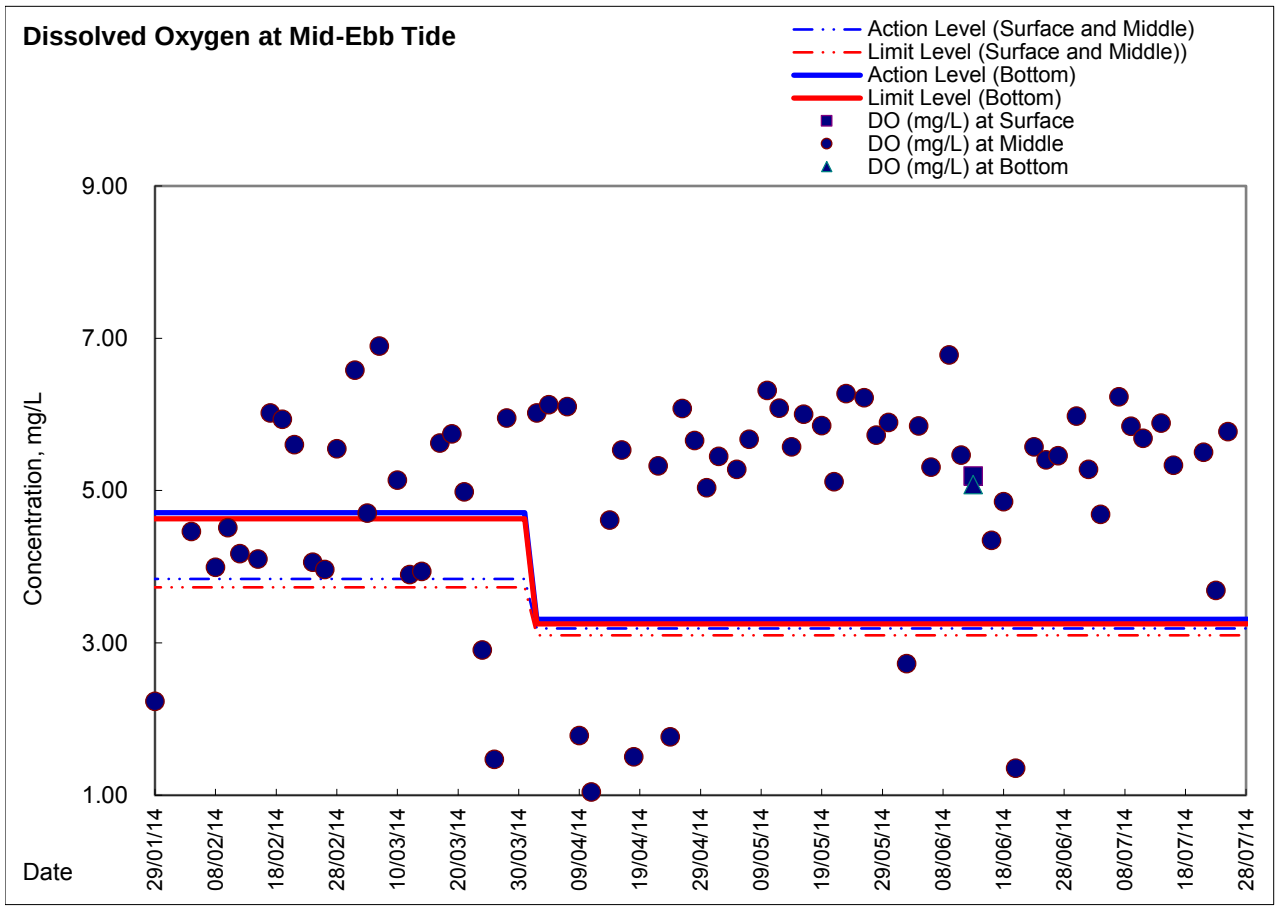
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C7 - Windsor House



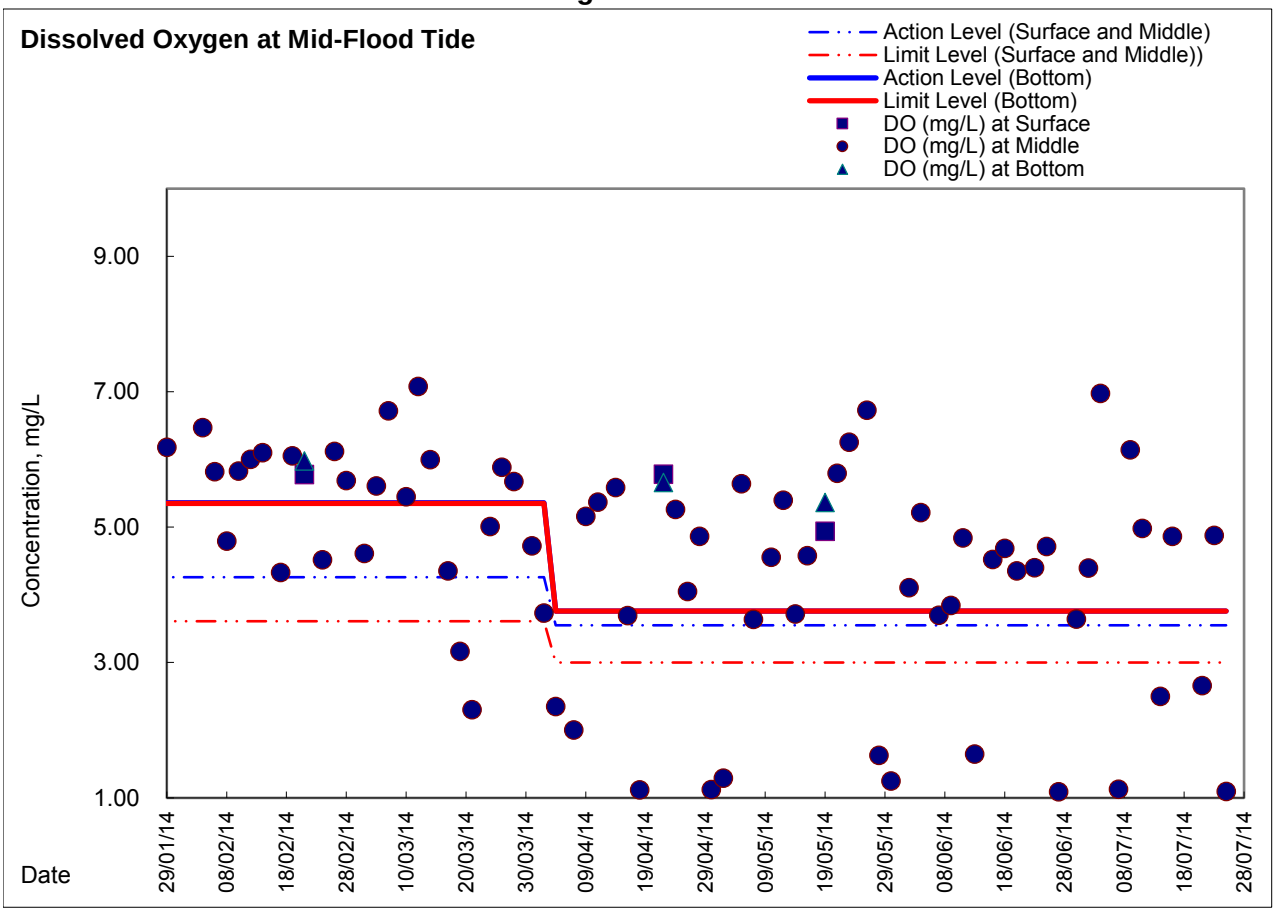


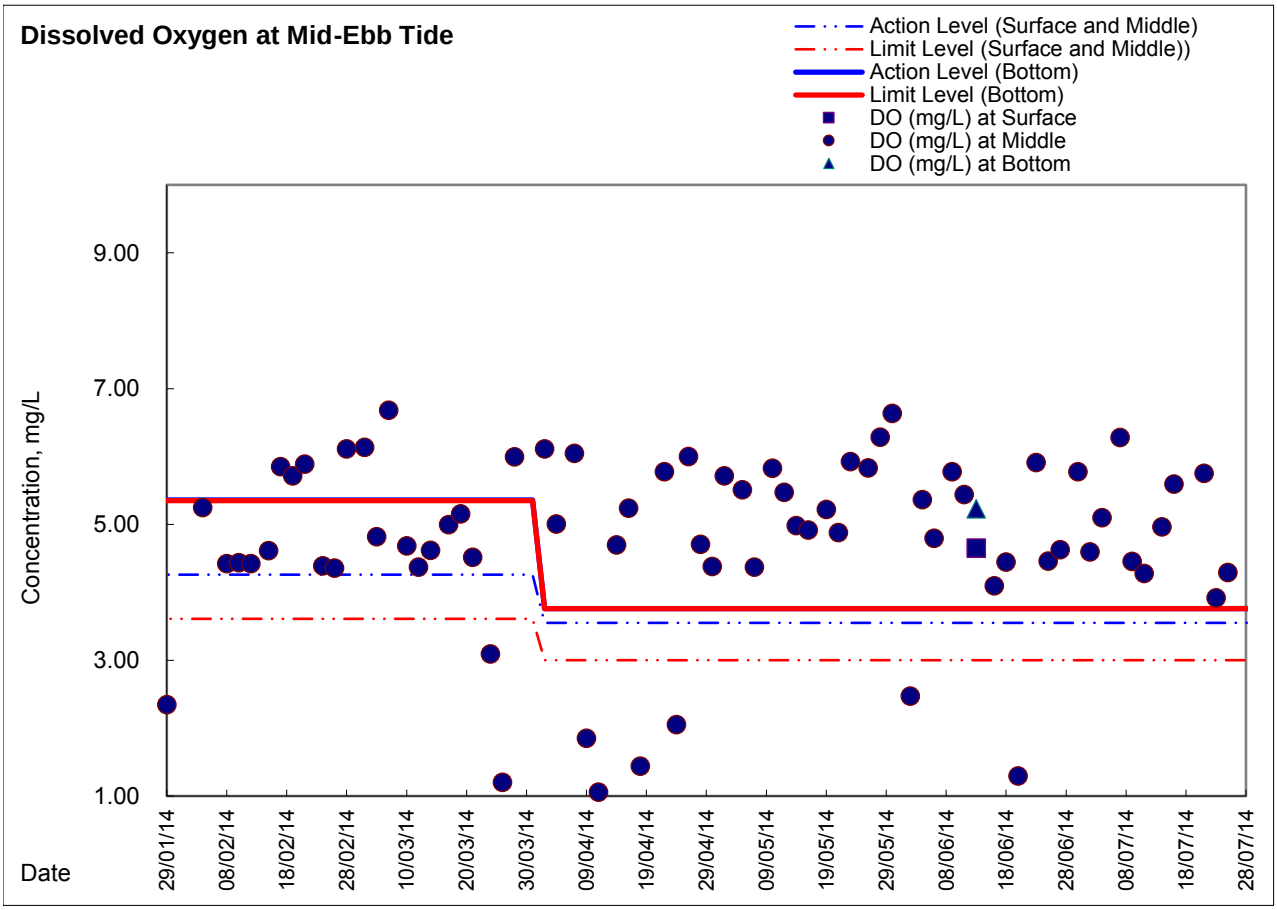
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area





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





Appendix 5.5

Real-time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

Normal Day 07:00-19:00

28/6/2014 7:01	64.1
28/6/2014 7:31	65.3
28/6/2014 8:01	61.8
28/6/2014 8:31	66.6
28/6/2014 9:01	69.5
28/6/2014 9:31	67.9
28/6/2014 10:01	67.7
28/6/2014 10:31	68.2
28/6/2014 11:01	69.5
28/6/2014 11:31	67.2
28/6/2014 12:01	56.1
28/6/2014 12:31	53.3
28/6/2014 13:01	65.4
28/6/2014 13:31	66.7
28/6/2014 14:01	67.4
28/6/2014 14:31	67.0
28/6/2014 15:01	66.5
28/6/2014 15:31	66.8
28/6/2014 16:01	68.4
28/6/2014 16:31	70.7
28/6/2014 17:01	68.8
28/6/2014 17:31	48.7
28/6/2014 18:01	66.8
28/6/2014 18:31	65.8
30/6/2014 7:01	65.7
30/6/2014 7:31	55.5
30/6/2014 8:01	64.7
30/6/2014 8:31	69.1
30/6/2014 9:01	70.2
30/6/2014 9:31	68.5
30/6/2014 10:01	69.7
30/6/2014 10:31	71.5
30/6/2014 11:01	70.1
30/6/2014 11:31	64.7
30/6/2014 12:01	60.2
30/6/2014 12:31	46.6
30/6/2014 13:01	62.3
30/6/2014 13:31	66.0
30/6/2014 14:01	67.6
30/6/2014 14:31	67.8
30/6/2014 15:01	69.7
30/6/2014 15:31	70.1
30/6/2014 16:01	67.2
30/6/2014 16:31	67.8
30/6/2014 17:01	66.3
30/6/2014 17:31	62.6
30/6/2014 18:01	66.7
30/6/2014 18:31	65.9
2/7/2014 7:01	65.5
2/7/2014 7:31	66.6
2/7/2014 8:01	62.8
2/7/2014 8:31	64.7
2/7/2014 9:01	63.7
2/7/2014 9:31	66.7
2/7/2014 10:01	66.1
2/7/2014 10:31	66.3
2/7/2014 11:01	68.4
2/7/2014 11:31	66.0
2/7/2014 12:01	58.7
2/7/2014 12:31	66.6
2/7/2014 13:01	66.7
2/7/2014 13:31	69.6
2/7/2014 14:01	67.5
2/7/2014 14:31	68.6
2/7/2014 15:01	68.5
2/7/2014 15:31	67.5
2/7/2014 16:01	66.7
2/7/2014 16:31	66.6
2/7/2014 17:01	68.1
2/7/2014 17:31	70.0
2/7/2014 18:01	58.3
2/7/2014 18:31	65.2
3/7/2014 7:01	65.3
3/7/2014 7:31	66.5
3/7/2014 8:01	58.7
3/7/2014 8:31	64.9
3/7/2014 9:01	65.9
3/7/2014 9:31	64.1
3/7/2014 10:01	65.9
3/7/2014 10:31	67.9
3/7/2014 11:01	66.9
3/7/2014 11:31	60.7
3/7/2014 12:01	65.9
3/7/2014 12:31	66.1
3/7/2014 13:01	65.1
3/7/2014 13:31	68.0
3/7/2014 14:01	69.0
3/7/2014 14:31	68.9
3/7/2014 15:01	67.3
3/7/2014 15:31	66.7
3/7/2014 16:01	66.6
3/7/2014 16:31	68.4
3/7/2014 17:01	67.2
3/7/2014 17:31	65.7
3/7/2014 18:01	61.8
3/7/2014 18:31	65.6
4/7/2014 7:01	64.7
4/7/2014 7:31	66.2
4/7/2014 8:01	66.7
4/7/2014 8:31	65.8
4/7/2014 9:01	67.1
4/7/2014 9:31	70.6
4/7/2014 10:01	65.6
4/7/2014 10:31	67.4
4/7/2014 11:01	68.0
4/7/2014 11:31	67.8
4/7/2014 12:01	52.3
4/7/2014 12:31	66.9
4/7/2014 13:01	66.6
4/7/2014 13:31	66.9
4/7/2014 14:01	65.9
4/7/2014 14:31	64.7
4/7/2014 15:01	64.9
4/7/2014 15:31	66.0
4/7/2014 16:01	69.0
4/7/2014 16:31	71.4
4/7/2014 17:01	67.4
4/7/2014 17:31	67.7
4/7/2014 18:01	62.0
4/7/2014 18:31	65.6
5/7/2014 7:01	63.6
5/7/2014 7:31	65.1
5/7/2014 8:01	65.7
5/7/2014 8:31	69.8
5/7/2014 9:01	68.4
5/7/2014 9:31	69.8
5/7/2014 10:01	67.7
5/7/2014 10:31	67.7
5/7/2014 11:01	68.8
5/7/2014 11:31	67.6
5/7/2014 12:01	62.0
5/7/2014 12:31	56.0
5/7/2014 13:01	62.3
5/7/2014 13:31	67.0
5/7/2014 14:01	68.5
5/7/2014 14:31	68.7
5/7/2014 15:01	71.9
5/7/2014 15:31	67.3
5/7/2014 16:01	65.3
5/7/2014 16:31	61.1
5/7/2014 17:01	66.6
5/7/2014 17:31	65.7
5/7/2014 18:01	65.5
5/7/2014 18:31	65.0
7/7/2014 7:01	64.8
7/7/2014 7:31	66.4
7/7/2014 8:01	63.2
7/7/2014 8:31	67.2
7/7/2014 9:01	69.2
7/7/2014 9:31	67.4
7/7/2014 10:01	67.9
7/7/2014 10:31	68.7
7/7/2014 11:01	69.0
7/7/2014 11:31	66.3
7/7/2014 12:01	59.2
7/7/2014 12:31	66.5
7/7/2014 13:01	64.1
7/7/2014 13:31	67.2
7/7/2014 14:01	70.7
7/7/2014 14:31	71.5
7/7/2014 15:01	68.1
7/7/2014 15:31	67.9
7/7/2014 16:01	68.0
7/7/2014 16:31	68.4
7/7/2014 17:01	65.9
7/7/2014 17:31	61.9
7/7/2014 18:01	66.7
7/7/2014 18:31	66.0
8/7/2014 7:01	64.5
8/7/2014 7:31	65.5
8/7/2014 8:01	56.3
8/7/2014 8:31	68.0
8/7/2014 9:01	68.3
8/7/2014 9:31	67.9
8/7/2014 10:01	67.9
8/7/2014 10:31	69.9
8/7/2014 11:01	69.5
8/7/2014 11:31	67.7
8/7/2014 12:01	66.2
8/7/2014 12:31	66.3
8/7/2014 13:01	64.4
8/7/2014 13:31	68.2
8/7/2014 14:01	68.0
8/7/2014 14:31	69.0
8/7/2014 15:01	69.0
8/7/2014 15:31	66.8
8/7/2014 16:01	67.8
8/7/2014 16:31	67.9
8/7/2014 17:01	66.7
8/7/2014 17:31	64.4
8/7/2014 18:01	66.7
8/7/2014 18:31	65.5
9/7/2014 7:01	64.3
9/7/2014 7:31	65.7
9/7/2014 8:01	63.8
9/7/2014 8:31	64.7
9/7/2014 9:01	65.7
9/7/2014 9:31	66.3
9/7/2014 10:01	66.0
9/7/2014 10:31	67.1
9/7/2014 11:01	67.9
9/7/2014 11:31	64.7
9/7/2014 12:01	66.9
9/7/2014 12:31	55.6
9/7/2014 13:01	64.1
9/7/2014 13:31	67.7
9/7/2014 14:01	67.5
9/7/2014 14:31	66.1
9/7/2014 15:01	63.4
9/7/2014 15:31	69.2
9/7/2014 16:01	65.2
9/7/2014 16:31	65.2
9/7/2014 17:01	68.8
9/7/2014 17:31	65.1
9/7/2014 18:01	58.3
9/7/2014 18:31	66.0
10/7/2014 7:01	64.4
10/7/2014 7:31	65.2
10/7/2014 8:01	41.4
10/7/2014 8:31	66.8
10/7/2014 9:01	67.1
10/7/2014 9:31	67.2
10/7/2014 10:01	69.0
10/7/2014 10:31	68.9
10/7/2014 11:01	69.1
10/7/2014 11:31	66.5
10/7/2014 12:01	58.1
10/7/2014 12:31	58.6
10/7/2014 13:01	67.0
10/7/2014 13:31	69.3
10/7/2014 14:01	68.3
10/7/2014 14:31	67.7
10/7/2014 15:01	66.7
10/7/2014 15:31	67.9
10/7/2014 16:01	68.3
10/7/2014 16:31	67.9
10/7/2014 17:01	70.4
10/7/2014 17:31	68.0
10/7/2014 18:01	66.2
10/7/2014 18:31	65.2
11/7/2014 7:01	65.5
11/7/2014 7:31	66.4
11/7/2014 8:01	62.9
11/7/2014 8:31	66.6
11/7/2014 9:01	67.2
11/7/2014 9:31	67.1
11/7/2014 10:01	71.6
11/7/2014 10:31	67.9
11/7/2014 11:01	69.5
11/7/2014 11:31	68.5
11/7/2014 12:01	61.6
11/7/2014 12:31	59.3
11/7/2014 13:01	64.9
11/7/2014 13:31	71.1
11/7/2014 14:01	68.1
11/7/2014 14:31	71.2
11/7/2014 15:01	65.6
11/7/2014 15:31	68.1
11/7/2014 16:01	68.3
11/7/2014 16:31	68.0
11/7/2014 17:01	68.2
11/7/2014 17:31	63.2
11/7/2014 18:01	67.0
11/7/2014 18:31	65.6
12/7/2014 7:01	64.6
12/7/2014 7:31	65.9
12/7/2014 8:01	64.6
12/7/2014 8:31	68.2
12/7/2014 9:01	68.7
12/7/2014 9:31	69.9
12/7/2014 10:01	67.7
12/7/2014 10:31	67.3
12/7/2014 11:01	71.0
12/7/2014 11:31	64.6
12/7/2014 12:01	61.8
12/7/2014 12:31	64.4
12/7/2014 13:01	67.7
12/7/2014 13:31	68.3
12/7/2014 14:01	67.0
12/7/2014 14:31	65.8
12/7/2014 15:01	66.0
12/7/2014 15:31	69.6
12/7/2014 16:01	65.0
12/7/2014 16:31	63.9
12/7/2014 17:01	65.2
12/7/2014 17:31	58.2
12/7/2014 18:01	65.6
12/7/2014 18:31	65.5
14/7/2014 7:01	65.6
14/7/2014 7:31	67.1
14/7/2014 8:01	61.3
14/7/2014 8:31	66.3
14/7/2014 9:01	67.2
14/7/2014 9:31	72.2
14/7/2014 10:01	68.7
14/7/2014 10:31	66.7
14/7/2014 11:01	68.5
14/7/2014 11:31	67.1
14/7/2014 12:01	59.9
14/7/2014 12:31	57.4
14/7/2014 13:01	68.0
14/7/2014 13:31	67.5
14/7/2014 14:01	67.7
14/7/2014 14:31	67.7
14/7/2014 15:01	69.2
14/7/2014 15:31	69.0
14/7/2014 16:01	68.8
14/7/2014 16:31	68.3
14/7/2014 17:01	69.5
14/7/2014 17:31	69.5
14/7/2014 18:01	58.8
14/7/2014 18:31	66.4
15/7/2014 7:01	64.8
15/7/2014 7:31	65.9
15/7/2014 8:01	58.3
15/7/2014 8:31	66.4
15/7/2014 9:01	69.6
15/7/2014 9:31	69.9
15/7/2014 10:01	68.1
15/7/2014 10:31	67.9
15/7/2014 11:01	68.4
15/7/2014 11:31	63.9
15/7/2014 12:01	59.6
15/7/2014 12:31	51.5
15/7/2014 13:01	70.0
15/7/2014 13:31	71.1
15/7/2014 14:01	70.7
15/7/2014 14:31	68.8
15/7/2014 15:01	68.2
15/7/2014 15:31	72.1
15/7/2014 16:01	70.8
15/7/2014 16:31	67.4
15/7/2014 17:01	67.9
15/7/2014 17:31	68.4
15/7/2014 18:01	63.9
15/7/2014 18:31	65.9
16/7/2014 7:01	64.5
16/7/2014 7:31	65.9
16/7/2014 8:01	65.0
16/7/2014 8:31	67.1
16/7/2014 9:01	69.4
16/7/2014 9:31	69.5
16/7/2014 10:01	69.9
16/7/2014 10:31	68.7
16/7/2014 11:01	66.7
16/7/2014 11:31	64.5
16/7/2014 12:01	56.7
16/7/2014 12:31	66.8
16/7/2014 13:01	67.7
16/7/2014 13:31	69.2
16/7/2014 14:01	68.8
16/7/2014 14:31	67.7
16/7/2014 15:01	68.9
16/7/2014 15:31	68.0
16/7/2014 16:01	70.7
16/7/2014 16:31	71.3
16/7/2014 17:01	65.0
16/7/2014 17:31	68.5
16/7/2014 18:01	66.9
16/7/2014 18:31	65.8
17/7/2014 7:01	65.6
17/7/2014 7:31	65.8
17/7/2014 8:01	64.8
17/7/2014 8:31	66.8
17/7/2014 9:01	67.7
17/7/2014 9:31	69.0
17/7/2014 10:01	68.1
17/7/2014 10:31	64.3
17/7/2014 11:01	65.5
17/7/2014 11:31	65.3
17/7/2014 12:01	61.1
17/7/2014 12:31	62.5
17/7/2014 13:01	66.9
17/7/2014 13:31	67.9
17/7/2014 14:01	74.5
17/7/2014 14:31	70.4
17/7/2014 15:01	66.9
17/7/2014 15:31	65.7
17/7/2014 16:01	70.0
17/7/2014 16:31	67.2
17/7/2014 17:01	68.0
17/7/2014 17:31	66.3
17/7/2014 18:01	67.1
17/7/2014 18:31	66.9
18/7/2014 7:01	65.4
18/7/2014 7:31	47.4
18/7/2014 8:01	62.5
18/7/2014 8:31	66.7
18/7/2014 9:01	68.2
18/7/2014 9:31	69.0
18/7/2014 10:01	70.3
18/7/2014 10:31	68.7
18/7/2014 11:01	68.7
18/7/2014 11:31	67.0
18/7/2014 12:01	70.1
18/7/2014 12:31	66.4
18/7/2014 13:01	65.3
18/7/2014 13:31	66.6
18/7/2014 14:01	67.0
18/7/2014 14:31	68.2
18/7/2014 15:01	68.4
18/7/2014 15:31	67.1
18/7/2014 16:01	68.2
18/7/2014 16:31	67.1
18/7/2014 17:01	66.6
18/7/2014 17:31	68.1
18/7/2014 18:01	62.2
18/7/2014 18:31	66.2
19/7/2014 7:01	64.6
19/7/2014 7:31	66.0
19/7/2014 8:01	69.9
19/7/2014 8:31	66.3
19/7/2014 9:01	66.9
19/7/2014 9:31	67.2
19/7/2014 10:01	69.2
19/7/2014 10:31	72.7
19/7/2014 11:01	70.2
19/7/2014 11:31	68.2
19/7/2014 12:01	60.3
19/7/2014 12:31	64.6
19/7/2014 13:01	64.2
19/7/2014 13:31	66.7
19/7/2014 14:01	68.0
19/7/2014 14:31	68.6
19/7/2014 15:01	69.6
19/7/2014 15:31	68.8
19/7/2014 16:01	68.6
19/7/2014 16:31	69.6
19/7/2014 17:01	70.5
19/7/2014 17:31	65.1
19/7/2014 18:01	59.4
19/7/2014 18:31	66.4
21/7/2014 7:01	64.8
21/7/2014 7:31	67.1
21/7/2014 8:01	62.6
21/7/2014 8:31	69.1
21/7/2014 9:01	68.2
21/7/2014 9:31	67.1
21/7/2014 10:01	69.9
21/7/2014 10:31	69.3
21/7/2014 11:01	70.3
21/7/2014 11:31	67.9
21/7/2014 12:01	66.4
21/7/2014 12:31	65.8
21/7/2014 13:01	68.4
21/7/2014 13:31	69.8
21/7/2014 14:01	69.8
21/7/2014 14:31	69.6
21/7/2014 15:01	70.1
21/7/2014 15:31	69.8
21/7/2014 16:01	71.1
21/7/2014 16:31	70.9
21/7/2014 17:01	67.8
21/7/2014 17:31	66.0
21/7/2014 18:01	62.4
21/7/2014 18:31	66.0
22/7/2014 7:01	64.4
22/7/2014 7:31	66.6
22/7/2014 8:01	60.9
22/7/2014 8:31	66.8
22/7/2014 9:01	67.8
22/7/2014 9:31	67.8
22/7/2014 10:01	73.1
22/7/2014 10:31	66.2
22/7/2014 11:01	70.0
22/7/2014 11:31	65.7
22/7/2014 12:01	67.1
22/7/2014 12:31	66.9
22/7/2014 13:01	63.9
22/7/2014 13:31	68.7
22/7/2014 14:01	67.0
22/7/2014 14:31	67.3
22/7/2014 15:01	80.5
22/7/2014 15:31	80.4
22/7/2014 16:01	72.0
22/7/2014 16:31	66.7
22/7/2014 17:01	68.7
22/7/2014 17:31	68.1
22/7/2014 18:01	65.6
22/7/2014 18:31	66.5
23/7/2014 7:01	65.0
23/7/2014 7:31	66.1
23/7/2014 8:01	66.0
23/7/2014 8:31	68.7
23/7/2014 9:01	69.2
23/7/2014 9:31	69.3
23/7/2014 10:01	70.0
23/7/2014 10:31	70.9
23/7/2014 11:01	69.2
23/7/2014 11:31	66.9
23/7/2014 12:01	66.9
23/7/2014 12:31	67.1
23/7/2014 13:01	65.4
23/7/2014 13:31	67.5
23/7/2014 14:01	69.7
23/7/2014 14:31	69.3
23/7/2014 15:01	68.7
23/7/2014 15:31	68.7
23/7/2014 16:01	71.1
23/7/2014 16:31	74.4
23/7/2014 17:01	70.5
23/7/2014 17:31	69.5
23/7/2014 18:01	68.1
23/7/2014 18:31	65.9
24/7/2014 7:01	64.8
24/7/2014 7:31	66.7
24/7/2014 8:01	68.0
24/7/2014 8:31	70.5
24/7/2014 9:01	70.6
24/7/2014 9:31	69.8
24/7/2014 10:01	67.3
24/7/2014 10:31	68.0
24/7/2014 11:01	69.9
24/7/2014 11:31	67.9
24/7/2014 12:01	67.2
24/7/2014 12:31	66.9
24/7/2014 13:01	66.7
24/7/2014 13:31	70.9
24/7/2014 14:01	69.8
24/7/2014 14:31	70.6
24/7/2014 15:01	69.6
24/7/2014 15:31	71.0
24/7/2014 16:01	71.5
24/7/2014 16:31	67.1
24/7/2014 17:01	68.0
24/7/2014 17:31	64.7
24/7/2014 18:01	56.3
24/7/2014 18:31	66.2
25/7/2014 7:01	64.7
25/7/2014 7:31	66.3
25/7/2014 8:01	59.0
25/7/2014 8:31	68.6
25/7/2014 9:01	68.7
25/7/2014 9:31	69.9
25/7/2014 10:01	70.8
25/7/2014 10:31	70.3
25/7/2014 11:01	70.8
25/7/2014 11:31	66.5
25/7/2014 12:01	62.0
25/7/2014 12:31	64.2
25/7/2014 13:01	68.0
25/7/2014 13:31	68.9
25/7/2014 14:01	69.8
25/7/2014 14:31	69.9
25/7/2014 15:01	70.0
25/7/2014 15:31	70.1
25/7/2014 16:01	68.0
25/7/2014 16:31	67.2
25/7/2014 17:01	68.6
25/7/2014 17:31	63.7
25/7/2014 18:01	66.2
25/7/2014 18:31	65.4
26/7/2014 7:01	63.7
26/7/2014 7:31	65.9
26/7/2014 8:01	62.2
26/7/2014 8:31	66.4
26/7/2014 9:01	70.3
26/7/2014 9:31	70.0
26/7/2014 10:01	67.0
26/7/2014 10:31	68.1
26/7/2014 11:01	70.2
26/7/2014 11:31	65.2
26/7/2014 12:01	55.5
26/7/2014 12:31	56.9
26/7/2014 13:01	62.8
26/7/2014 13:31	67.7
26/7/2014 14:01	74.5
26/7/2014 14:31	69.6
26/7/2014 15:01	67.7
26/7/2014 15:31	65.0
26/7/2014 16:01	68.7
26/7/2014 16:31	67.2
26/7/2014 17:01	66.0
26/7/2014 17:31	65.9
26/7/2014 18:01	59.3
26/7/2014 18:31	65.4

Normal Day 19:00-23:00, Sunday & Holiday 07:00-23:00

28/6/2014 19:01	63.8
28/6/2014 19:06	62.8
28/6/2014 19:11	62.9
28/6/2014 19:16	62.9
28/6/2014 19:21	62.0
28/6/2014 19:26	63.1
28/6/2014 19:31	61.9
28/6/2014 19:36	62.8
28/6/2014 19:41	62.7
28/6/2014 19:46	62.7
28/6/2014 19:51	62.6
28/6/2014 19:56	62.5
28/6/2014 20:01	64.2
28/6/2014 20:06	62.6
28/6/2014 20:11	61.6
28/6/2014 20:16	61.8
28/6/2014 20:21	61.3
28/6/2014 20:26	62.0
28/6/2014 20:31	61.7
28/6/2014 20:36	61.4
28/6/2014 20:41	61.2
28/6/2014 20:46	61.1
28/6/2014 20:51	61.3
28/6/2014 20:56	60.5
28/6/2014 21:01	61.1
28/6/2014 21:06	61.6
28/6/2014 21:11	61.3
28/6/2014 21:16	62.0
28/6/2014 21:21	61.1
28/6/2014 21:26	61.3
28/6/2014 21:31	61.8
28/6/2014 21:36	61.9
28/6/2014 21:41	63.0
28/6/2014 21:46	60.2
28/6/2014 21:51	61.7
28/6/2014 21:56	61.0
28/6/2014 22:01	61.9
28/6/2014 22:06	61.3
28/6/2014 22:11	61.9
28/6/2014 22:16	60.6
28/6/2014 22:21	61.4
28/6/2014 22:26	61.4
28/6/2014 22:31	61.8
28/6/2014 22:36	60.8
28/6/2014 22:41	65.7
28/6/2014 22:46	61.3
28/6/2014 22:51	61.6
28/6/2014 22:56	60.7
29/6/2014 7:01	53.8
29/6/2014 7:06	55.7
29/6/2014 7:11	52.5
29/6/2014 7:16	55.6
29/6/2014 7:21	56.7
29/6/2014 7:26	63.7
29/6/2014 7:31	58.2
29/6/2014 7:36	60.6
29/6/2014 7:41	55.3
29/6/2014 7:46	58.4
29/6/2014 7:51	59.6
29/6/2014 7:56	60.1
29/6/2014 8:01	58.3
29/6/2014 8:06	60.9
29/6/2014 8:11	67.0
29/6/2014 8:16	61.2
29/6/2014 8:21	59.8
29/6/2014 8:26	58.5
29/6/2014 8:31	60.3
29/6/2014 8:36	59.1
29/6/2014 8:41	59.4
29/6/2014 8:46	60.9

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

29/6/2014 8:51	62.2	29/6/2014 17:56	64.6	1/7/2014 7:01	61.0	1/7/2014 16:06	62.0	2/7/2014 21:11	61.1	4/7/2014 22:16	61.2
29/6/2014 8:56	60.4	29/6/2014 18:01	63.3	1/7/2014 7:06	58.7	1/7/2014 16:11	61.4	2/7/2014 21:16	61.5	4/7/2014 22:21	61.1
29/6/2014 9:01	60.2	29/6/2014 18:06	63.5	1/7/2014 7:11	60.0	1/7/2014 16:16	61.6	2/7/2014 21:21	61.5	4/7/2014 22:26	60.6
29/6/2014 9:06	61.4	29/6/2014 18:11	63.8	1/7/2014 7:16	58.5	1/7/2014 16:21	61.1	2/7/2014 21:26	62.2	4/7/2014 22:31	61.2
29/6/2014 9:11	62.2	29/6/2014 18:16	64.9	1/7/2014 7:21	58.0	1/7/2014 16:26	61.2	2/7/2014 21:31	61.5	4/7/2014 22:36	62.0
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29/6/2014 17:41	64.1	30/6/2014 22:46	61.6	1/7/2014 15:51	61.3	2/7/2014 20:56	60.8	4/7/2014 22:01	62.1	6/7/2014 11:06	62.6
29/6/2014 17:46	63.3	30/6/2014 22:51	61.5	1/7/2014 15:56	60.6	2/7/2014 21:01	61.2	4/7/2014 22:06	60.6	6/7/2014 11:11	62.9
29/6/2014 17:51	64.2	30/6/2014 22:56	62.4	1/7/2014 16:01	61.1	2/7/2014 21:06	62.5	4/7/2014 22:11	61.3	6/7/2014 11:16	63.4

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

6/7/2014 11:21	63.4	6/7/2014 20:26	61.0	8/7/2014 21:31	61.3	10/7/2014 22:36	61.4	13/7/2014 7:41	58.5	13/7/2014 16:46	63.6
6/7/2014 11:26	62.6	6/7/2014 20:31	60.8	8/7/2014 21:36	60.1	10/7/2014 22:41	61.6	13/7/2014 7:46	58.6	13/7/2014 16:51	63.6
6/7/2014 11:31	63.1	6/7/2014 20:36	61.4	8/7/2014 21:41	61.0	10/7/2014 22:46	61.5	13/7/2014 7:51	58.6	13/7/2014 16:56	64.0
6/7/2014 11:36	63.3	6/7/2014 20:41	61.9	8/7/2014 21:46	61.2	10/7/2014 22:51	62.4	13/7/2014 7:56	58.8	13/7/2014 17:01	63.4
6/7/2014 11:41	62.8	6/7/2014 20:46	61.2	8/7/2014 21:51	61.3	10/7/2014 22:56	61.4	13/7/2014 8:01	59.4	13/7/2014 17:06	63.2
6/7/2014 11:46	62.9	6/7/2014 20:51	60.3	8/7/2014 21:56	61.4	11/7/2014 19:01	63.2	13/7/2014 8:06	59.2	13/7/2014 17:11	63.2
6/7/2014 11:51	62.6	6/7/2014 20:56	61.0	8/7/2014 22:01	61.4	11/7/2014 19:06	63.2	13/7/2014 8:11	59.6	13/7/2014 17:16	63.7
6/7/2014 11:56	63.9	6/7/2014 21:01	61.1	8/7/2014 22:06	61.0	11/7/2014 19:11	62.9	13/7/2014 8:16	60.6	13/7/2014 17:21	63.1
6/7/2014 12:01	61.7	6/7/2014 21:06	60.9	8/7/2014 22:11	61.3	11/7/2014 19:16	63.1	13/7/2014 8:21	61.3	13/7/2014 17:26	63.1
6/7/2014 12:06	62.1	6/7/2014 21:11	60.7	8/7/2014 22:16	61.9	11/7/2014 19:21	62.3	13/7/2014 8:26	61.4	13/7/2014 17:31	62.8
6/7/2014 12:11	61.4	6/7/2014 21:16	61.8	8/7/2014 22:21	61.7	11/7/2014 19:26	62.6	13/7/2014 8:31	60.8	13/7/2014 17:36	63.0
6/7/2014 12:16	61.8	6/7/2014 21:21	61.7	8/7/2014 22:26	63.6	11/7/2014 19:31	63.7	13/7/2014 8:36	61.4	13/7/2014 17:41	63.7
6/7/2014 12:21	61.8	6/7/2014 21:26	61.7	8/7/2014 22:31	61.4	11/7/2014 19:36	62.8	13/7/2014 8:41	60.9	13/7/2014 17:46	63.5
6/7/2014 12:26	62.3	6/7/2014 21:31	61.2	8/7/2014 22:36	60.2	11/7/2014 19:41	63.3	13/7/2014 8:46	61.4	13/7/2014 17:51	63.4
6/7/2014 12:31	62.0	6/7/2014 21:36	60.8	8/7/2014 22:41	61.2	11/7/2014 19:46	62.8	13/7/2014 8:51	62.0	13/7/2014 17:56	63.9
6/7/2014 12:36	62.8	6/7/2014 21:41	61.1	8/7/2014 22:46	60.7	11/7/2014 19:51	64.0	13/7/2014 8:56	62.6	13/7/2014 18:01	63.4
6/7/2014 12:41	62.0	6/7/2014 21:46	61.7	8/7/2014 22:51	61.5	11/7/2014 19:56	62.4	13/7/2014 9:01	61.7	13/7/2014 18:06	63.3
6/7/2014 12:46	62.9	6/7/2014 21:51	61.0	8/7/2014 22:56	60.2	11/7/2014 20:01	63.3	13/7/2014 9:06	62.0	13/7/2014 18:11	62.5
6/7/2014 12:51	62.6	6/7/2014 21:56	61.5	9/7/2014 19:01	63.8	11/7/2014 20:06	63.0	13/7/2014 9:11	62.9	13/7/2014 18:16	62.6
6/7/2014 12:56	62.9	6/7/2014 22:01	62.0	9/7/2014 19:06	63.1	11/7/2014 20:11	61.9	13/7/2014 9:16	62.5	13/7/2014 18:21	63.5
6/7/2014 13:01	62.5	6/7/2014 22:06	63.0	9/7/2014 19:11	63.3	11/7/2014 20:16	62.9	13/7/2014 9:21	61.7	13/7/2014 18:26	64.7
6/7/2014 13:06	62.7	6/7/2014 22:11	60.4	9/7/2014 19:16	63.1	11/7/2014 20:21	63.5	13/7/2014 9:26	62.2	13/7/2014 18:31	64.2
6/7/2014 13:11	60.8	6/7/2014 22:16	61.1	9/7/2014 19:21	62.9	11/7/2014 20:26	64.4	13/7/2014 9:31	62.7	13/7/2014 18:36	64.2
6/7/2014 13:16	60.7	6/7/2014 22:21	62.8	9/7/2014 19:26	62.5	11/7/2014 20:31	62.8	13/7/2014 9:36	62.6	13/7/2014 18:41	63.8
6/7/2014 13:21	62.4	6/7/2014 22:26	61.6	9/7/2014 19:31	62.2	11/7/2014 20:36	62.8	13/7/2014 9:41	62.3	13/7/2014 18:46	63.3
6/7/2014 13:26	62.1	6/7/2014 22:31	61.5	9/7/2014 19:36	62.7	11/7/2014 20:41	62.7	13/7/2014 9:46	62.4	13/7/2014 18:51	62.8
6/7/2014 13:31	61.8	6/7/2014 22:36	60.2	9/7/2014 19:41	63.0	11/7/2014 20:46	61.9	13/7/2014 9:51	62.6	13/7/2014 18:56	63.0
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6/7/2014 13:41	62.9	6/7/2014 22:46	60.9	9/7/2014 19:51	61.6	11/7/2014 20:56	62.1	13/7/2014 10:01	63.2	13/7/2014 19:06	62.5
6/7/2014 13:46	62.1	6/7/2014 22:51	59.8	9/7/2014 19:56	62.0	11/7/2014 21:01	61.5	13/7/2014 10:06	63.9	13/7/2014 19:11	63.0
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6/7/2014 14:41	62.9	7/7/2014 19:46	63.2	9/7/2014 20:51	61.2	11/7/2014 21:56	62.3	13/7/2014 11:01	63.8	13/7/2014 20:06	62.3
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6/7/2014 14:51	63.4	7/7/2014 19:56	63.9	9/7/2014 21:01	61.7	11/7/2014 22:06	62.4	13/7/2014 11:11	64.9	13/7/2014 20:16	62.2
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6/7/2014 16:31	62.4	7/7/2014 21:36	61.5	9/7/2014 22:41	61.3	12/7/2014 19:46	62.5	13/7/2014 12:51	61.9	13/7/2014 21:56	61.5
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6/7/2014 17:31	63.0	7/7/2014 22:36	67.0	10/7/2014 19:41	60.5	12/7/2014 20:46	61.2	13/7/2014 13:51	65.8	13/7/2014 22:56	60.0
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6/7/2014 17:51	62.9	7/7/2014 22:56	60.3	10/7/2014 20:01	62.6	12/7/2014 21:06	62.0	13/7/2014 14:11	63.5	14/7/2014 19:16	63.0
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6/7/2014 18:16	62.5	8/7/2014 19:21	61.8	10/7/2014 20:26	63.1	12/7/2014 21:31	65.4	13/7/2014 14:36	63.8	14/7/2014 19:41	63.2
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6/7/2014 18:51	62.0	8/7/2014 19:56	62.3	10/7/2014 21:01	62.6	12/7/2014 22:06	63.2	13/7/2014 15:11	63.2	14/7/2014 20:16	63.8
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6/7/2014 20:21	61.3	8/7/2014 21:26	61.3	10/7/2014 22:31	62.1	13/7/2014 7:36	53.2	13/7/2014 16:41	63.2	14/7/2014 21:46	62.3

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

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16/7/2014 21:46 61.6	18/7/2014 22:51 63.2	20/7/2014 11:56 63.4	20/7/2014 21:01 61.5	22/7/2014 22:06 62.0	25/7/2014 19:11 62.5
16/7/2014 21:51 62.7	18/7/2014 22:56 63.5	20/7/2014 12:01 64.3	20/7/2014 21:06 62.6	22/7/2014 22:11 62.6	25/7/2014 19:16 63.4
16/7/2014 21:56 62.3	19/7/2014 19:01 64.2	20/7/2014 12:06 64.1	20/7/2014 21:11 62.4	22/7/2014 22:16 62.6	25/7/2014 19:21 62.6
16/7/2014 22:01 61.4	19/7/2014 19:06 64.3	20/7/2014 12:11 63.7	20/7/2014 21:16 62.8	22/7/2014 22:21 63.3	25/7/2014 19:26 62.5
16/7/2014 22:06 61.7	19/7/2014 19:11 64.2	20/7/2014 12:16 64.2	20/7/2014 21:21 62.5	22/7/2014 22:26 61.9	25/7/2014 19:31 62.5
16/7/2014 22:11 62.0	19/7/2014 19:16 64.1	20/7/2014 12:21 63.0	20/7/2014 21:26 61.7	22/7/2014 22:31 62.3	25/7/2014 19:36 63.5
16/7/2014 22:16 61.7	19/7/2014 19:21 63.7	20/7/2014 12:26 63.7	20/7/2014 21:31 61.2	22/7/2014 22:36 62.0	25/7/2014 19:41 62.4
16/7/2014 22:21 61.9	19/7/2014 19:26 64.1	20/7/2014 12:31 63.6	20/7/2014 21:36 62.1	22/7/2014 22:41 62.6	25/7/2014 19:46 62.0
16/7/2014 22:26 62.1	19/7/2014 19:31 63.7	20/7/2014 12:36 63.0	20/7/2014 21:41 62.6	22/7/2014 22:46 62.2	25/7/2014 19:51 62.0
16/7/2014 22:31 62.0	19/7/2014 19:36 63.8	20/7/2014 12:41 62.9	20/7/2014 21:46 62.5	22/7/2014 22:51 62.4	25/7/2014 19:56 62.3
16/7/2014 22:36 62.4	19/7/2014 19:41 63.1	20/7/2014 12:46 63.7	20/7/2014 21:51 62.1	22/7/2014 22:56 61.4	25/7/2014 20:01 61.6
16/7/2014 22:41 61.6	19/7/2014 19:46 63.1	20/7/2014 12:51 63.3	20/7/2014 21:56 61.7	23/7/2014 19:01 62.5	25/7/2014 20:06 61.4
16/7/2014 22:46 60.2	19/7/2014 19:51 63.5	20/7/2014 12:56 63.9	20/7/2014 22:01 61.9	23/7/2014 19:06 61.8	25/7/2014 20:11 63.0
16/7/2014 22:51 61.3	19/7/2014 19:56 63.2	20/7/2014 13:01 63.6	20/7/2014 22:06 62.0	23/7/2014 19:11 60.9	25/7/2014 20:16 62.7

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

25/7/2014 20:21	62.0	27/7/2014 9:26	63.9	27/7/2014 18:31	64.1	28/6/2014 4:21	56.8	29/6/2014 5:26	54.4	30/6/2014 6:31	62.2
25/7/2014 20:26	62.3	27/7/2014 9:31	64.1	27/7/2014 18:36	62.6	28/6/2014 4:26	56.4	29/6/2014 5:31	56.9	30/6/2014 6:36	63.0
25/7/2014 20:31	62.3	27/7/2014 9:36	63.8	27/7/2014 18:41	63.6	28/6/2014 4:31	57.3	29/6/2014 5:36	57.7	30/6/2014 6:41	63.5
25/7/2014 20:36	62.1	27/7/2014 9:41	63.5	27/7/2014 18:46	63.7	28/6/2014 4:36	55.5	29/6/2014 5:41	57.7	30/6/2014 6:46	64.1
25/7/2014 20:41	61.2	27/7/2014 9:46	63.9	27/7/2014 18:51	63.2	28/6/2014 4:41	56.8	29/6/2014 5:46	58.4	30/6/2014 6:51	64.1
25/7/2014 20:46	62.3	27/7/2014 9:51	64.0	27/7/2014 18:56	62.8	28/6/2014 4:46	57.1	29/6/2014 5:51	57.9	30/6/2014 6:56	64.4
25/7/2014 20:51	62.1	27/7/2014 9:56	63.1	27/7/2014 19:01	63.3	28/6/2014 4:51	55.8	29/6/2014 5:56	63.4	30/6/2014 23:01	63.5
25/7/2014 20:56	61.2	27/7/2014 10:01	63.7	27/7/2014 19:06	62.5	28/6/2014 4:56	57.8	29/6/2014 6:01	57.7	30/6/2014 23:06	63.4
25/7/2014 21:01	62.1	27/7/2014 10:06	66.1	27/7/2014 19:11	63.1	28/6/2014 5:01	55.9	29/6/2014 6:06	58.4	30/6/2014 23:11	63.1
25/7/2014 21:06	61.5	27/7/2014 10:11	64.4	27/7/2014 19:16	62.2	28/6/2014 5:06	57.4	29/6/2014 6:11	59.1	30/6/2014 23:16	62.9
25/7/2014 21:11	61.8	27/7/2014 10:16	66.5	27/7/2014 19:21	62.8	28/6/2014 5:11	55.7	29/6/2014 6:16	59.8	30/6/2014 23:21	63.5
25/7/2014 21:16	61.0	27/7/2014 10:21	66.9	27/7/2014 19:26	63.4	28/6/2014 5:16	58.3	29/6/2014 6:21	59.1	30/6/2014 23:26	63.1
25/7/2014 21:21	61.9	27/7/2014 10:26	65.5	27/7/2014 19:31	63.8	28/6/2014 5:21	57.0	29/6/2014 6:26	59.2	30/6/2014 23:31	62.8
25/7/2014 21:26	62.7	27/7/2014 10:31	64.2	27/7/2014 19:36	62.5	28/6/2014 5:26	57.7	29/6/2014 6:31	59.5	30/6/2014 23:36	63.0
25/7/2014 21:31	61.9	27/7/2014 10:36	64.7	27/7/2014 19:41	63.0	28/6/2014 5:31	58.0	29/6/2014 6:36	59.8	30/6/2014 23:41	62.8
25/7/2014 21:36	61.3	27/7/2014 10:41	65.6	27/7/2014 19:46	62.9	28/6/2014 5:36	57.6	29/6/2014 6:41	61.0	30/6/2014 23:46	63.0
25/7/2014 21:41	62.1	27/7/2014 10:46	64.8	27/7/2014 19:51	62.0	28/6/2014 5:41	58.1	29/6/2014 6:46	62.2	30/6/2014 23:51	62.7
25/7/2014 21:46	62.1	27/7/2014 10:51	63.1	27/7/2014 19:56	62.4	28/6/2014 5:46	58.1	29/6/2014 6:51	60.6	30/6/2014 23:56	63.1
25/7/2014 21:51	62.4	27/7/2014 10:56	61.9	27/7/2014 20:01	64.4	28/6/2014 5:51	58.1	29/6/2014 6:56	61.2	1/7/2014 0:01	62.4
25/7/2014 21:56	61.8	27/7/2014 11:01	61.8	27/7/2014 20:06	61.6	28/6/2014 5:56	58.7	29/6/2014 23:01	60.9	1/7/2014 0:06	62.6
25/7/2014 22:01	61.6	27/7/2014 11:06	62.9	27/7/2014 20:11	61.7	28/6/2014 6:01	58.8	29/6/2014 23:06	63.6	1/7/2014 0:11	61.9
25/7/2014 22:06	61.3	27/7/2014 11:11	63.6	27/7/2014 20:16	63.2	28/6/2014 6:06	59.4	29/6/2014 23:11	63.6	1/7/2014 0:16	62.1
25/7/2014 22:11	62.2	27/7/2014 11:16	65.1	27/7/2014 20:21	61.2	28/6/2014 6:11	59.7	29/6/2014 23:16	68.4	1/7/2014 0:21	62.7
25/7/2014 22:16	63.3	27/7/2014 11:21	67.2	27/7/2014 20:26	61.5	28/6/2014 6:16	59.1	29/6/2014 23:21	66.3	1/7/2014 0:26	62.0
25/7/2014 22:21	61.2	27/7/2014 11:26	65.9	27/7/2014 20:31	61.5	28/6/2014 6:21	60.3	29/6/2014 23:26	65.0	1/7/2014 0:31	61.9
25/7/2014 22:26	61.6	27/7/2014 11:31	63.9	27/7/2014 20:36	61.9	28/6/2014 6:26	61.5	29/6/2014 23:31	63.9	1/7/2014 0:36	61.7
25/7/2014 22:31	61.8	27/7/2014 11:36	63.5	27/7/2014 20:41	61.9	28/6/2014 6:31	60.0	29/6/2014 23:36	63.3	1/7/2014 0:41	61.9
25/7/2014 22:36	61.9	27/7/2014 11:41	64.3	27/7/2014 20:46	61.7	28/6/2014 6:36	61.1	29/6/2014 23:41	63.4	1/7/2014 0:46	61.6
25/7/2014 22:41	61.8	27/7/2014 11:46	64.8	27/7/2014 20:51	61.8	28/6/2014 6:41	61.7	29/6/2014 23:46	63.5	1/7/2014 0:51	62.8
25/7/2014 22:46	61.9	27/7/2014 11:51	65.2	27/7/2014 20:56	62.0	28/6/2014 6:46	62.1	29/6/2014 23:51	62.6	1/7/2014 0:56	62.3
25/7/2014 22:51	62.1	27/7/2014 11:56	65.7	27/7/2014 21:01	61.5	28/6/2014 6:51	62.2	29/6/2014 23:56	63.1	1/7/2014 1:01	62.1
25/7/2014 22:56	62.1	27/7/2014 12:01	63.7	27/7/2014 21:06	62.0	28/6/2014 6:56	62.2	30/6/2014 0:01	62.9	1/7/2014 1:06	61.5
26/7/2014 19:01	62.6	27/7/2014 12:06	62.6	27/7/2014 21:11	62.6	28/6/2014 23:01	63.1	30/6/2014 0:06	62.6	1/7/2014 1:11	61.7
26/7/2014 19:06	62.9	27/7/2014 12:11	61.7	27/7/2014 21:16	62.6	28/6/2014 23:06	63.3	30/6/2014 0:11	62.0	1/7/2014 1:16	61.5
26/7/2014 19:11	65.1	27/7/2014 12:16	60.0	27/7/2014 21:21	62.2	28/6/2014 23:11	63.0	30/6/2014 0:16	62.1	1/7/2014 1:21	62.3
26/7/2014 19:16	63.0	27/7/2014 12:21	59.5	27/7/2014 21:26	63.0	28/6/2014 23:16	62.7	30/6/2014 0:21	62.1	1/7/2014 1:26	62.1
26/7/2014 19:21	66.0	27/7/2014 12:26	57.8	27/7/2014 21:31	63.1	28/6/2014 23:21	63.0	30/6/2014 0:26	61.8	1/7/2014 1:31	61.4
26/7/2014 19:26	63.1	27/7/2014 12:31	57.4	27/7/2014 21:36	62.6	28/6/2014 23:26	63.3	30/6/2014 0:31	61.5	1/7/2014 1:36	61.3
26/7/2014 19:31	64.1	27/7/2014 12:36	59.1	27/7/2014 21:41	63.0	28/6/2014 23:31	62.9	30/6/2014 0:36	61.8	1/7/2014 1:41	62.5
26/7/2014 19:36	62.9	27/7/2014 12:41	64.3	27/7/2014 21:46	62.8	28/6/2014 23:36	63.1	30/6/2014 0:41	62.4	1/7/2014 1:46	60.2
26/7/2014 19:41	63.1	27/7/2014 12:46	64.5	27/7/2014 21:51	62.3	28/6/2014 23:41	62.7	30/6/2014 0:46	60.6	1/7/2014 1:51	62.6
26/7/2014 19:46	63.0	27/7/2014 12:51	64.4	27/7/2014 21:56	62.9	28/6/2014 23:46	62.9	30/6/2014 0:51	60.3	1/7/2014 1:56	60.6
26/7/2014 19:51	63.4	27/7/2014 12:56	64.8	27/7/2014 22:01	62.2	28/6/2014 23:51	62.7	30/6/2014 0:56	60.8	1/7/2014 2:01	61.5
26/7/2014 19:56	62.7	27/7/2014 13:01	64.5	27/7/2014 22:06	61.8	28/6/2014 23:56	62.3	30/6/2014 1:01	59.7	1/7/2014 2:06	62.2
26/7/2014 20:01	63.3	27/7/2014 13:06	63.8	27/7/2014 22:11	62.2	29/6/2014 0:01	62.6	30/6/2014 1:06	60.0	1/7/2014 2:11	62.5
26/7/2014 20:06	63.0	27/7/2014 13:11	72.7	27/7/2014 22:16	62.8	29/6/2014 0:06	62.5	30/6/2014 1:11	59.3	1/7/2014 2:16	62.4
26/7/2014 20:11	62.0	27/7/2014 13:16	66.7	27/7/2014 22:21	63.1	29/6/2014 0:11	61.9	30/6/2014 1:16	60.2	1/7/2014 2:21	60.9
26/7/2014 20:16	61.4	27/7/2014 13:21	64.1	27/7/2014 22:26	62.1	29/6/2014 0:16	61.7	30/6/2014 1:21	59.5	1/7/2014 2:26	61.8
26/7/2014 20:21	62.3	27/7/2014 13:26	62.5	27/7/2014 22:31	62.4	29/6/2014 0:21	63.6	30/6/2014 1:26	59.7	1/7/2014 2:31	61.4
26/7/2014 20:26	62.9	27/7/2014 13:31	62.8	27/7/2014 22:36	61.5	29/6/2014 0:26	61.2	30/6/2014 1:31	58.0	1/7/2014 2:36	60.8
26/7/2014 20:31	61.8	27/7/2014 13:36	64.0	27/7/2014 22:41	62.0	29/6/2014 0:31	62.1	30/6/2014 1:36	59.1	1/7/2014 2:41	60.9
26/7/2014 20:36	62.0	27/7/2014 13:41	64.7	27/7/2014 22:46	62.2	29/6/2014 0:36	61.8	30/6/2014 1:41	58.9	1/7/2014 2:46	61.2
26/7/2014 20:41	61.6	27/7/2014 13:46	63.6	27/7/2014 22:51	61.0	29/6/2014 0:41	60.8	30/6/2014 1:46	57.5	1/7/2014 2:51	61.6
26/7/2014 20:46	62.6	27/7/2014 13:51	64.2	27/7/2014 22:56	60.9	29/6/2014 0:46	60.8	30/6/2014 1:51	56.6	1/7/2014 2:56	60.8
26/7/2014 20:51	62.5	27/7/2014 13:56	64.4			29/6/2014 0:51	60.5	30/6/2014 1:56	56.2	1/7/2014 3:01	62.0
26/7/2014 20:56	62.8	27/7/2014 14:01	64.6	Night time: 23:00-07:00		29/6/2014 0:56	61.0	30/6/2014 2:01	55.9	1/7/2014 3:06	59.6
26/7/2014 21:01	62.4	27/7/2014 14:06	65.6			29/6/2014 1:01	61.2	30/6/2014 2:06	58.8	1/7/2014 3:11	60.3
26/7/2014 21:06	62.7	27/7/2014 14:11	64.9	28/6/2014 0:01	62.5	29/6/2014 1:06	60.4	30/6/2014 2:11	60.6	1/7/2014 3:16	60.3
26/7/2014 21:11	62.7	27/7/2014 14:16	64.5	28/6/2014 0:06	63.0	29/6/2014 1:11	60.5	30/6/2014 2:16	59.8	1/7/2014 3:21	59.8
26/7/2014 21:16	63.0	27/7/2014 14:21	64.8	28/6/2014 0:11	63.6	29/6/2014 1:16	60.1	30/6/2014 2:21	60.1	1/7/2014 3:26	61.1
26/7/2014 21:21	62.5	27/7/2014 14:26	66.0	28/6/2014 0:16	62.9	29/6/2014 1:21	59.4	30/6/2014 2:26	59.3	1/7/2014 3:31	58.8
26/7/2014 21:26	62.7	27/7/2014 14:31	64.7	28/6/2014 0:21	62.1	29/6/2014 1:26	59.9	30/6/2014 2:31	58.5	1/7/2014 3:36	59.7
26/7/2014 21:31	62.9	27/7/2014 14:36	65.1	28/6/2014 0:26	63.3	29/6/2014 1:31	59.6	30/6/2014 2:36	61.9	1/7/2014 3:41	59.6
26/7/2014 21:36	63.4	27/7/2014 14:41	64.8	28/6/2014 0:31	62.3	29/6/2014 1:36	58.5	30/6/2014 2:41	56.3	1/7/2014 3:46	58.8
26/7/2014 21:41	62.6	27/7/2014 14:46	65.4	28/6/2014 0:36	62.0	29/6/2014 1:41	58.9	30/6/2014 2:46	59.9	1/7/2014 3:51	59.5
26/7/2014 21:46	64.2	27/7/2014 14:51	65.3	28/6/2014 0:41	61.1	29/6/2014 1:46	58.4	30/6/2014 2:51	56.9	1/7/2014 3:56	59.2
26/7/2014 21:51	63.0	27/7/2014 14:56	65.6	28/6/2014 0:46	62.1	29/6/2014 1:51	58.1	30/6/2014 2:56	57.3	1/7/2014 4:01	58.9
26/7/2014 21:56	63.1	27/7/2014 15:01	64.9	28/6/2014 0:51	62.3	29/6/2014 1:56	58.2	30/6/2014 3:01	53.4	1/7/2014 4:06	59.6
26/7/2014 22:01	63.0	27/7/2014 15:06	64.5	28/6/2014 0:56	62.0	29/6/2014 2:01	58.5	30/6/2014 3:06	56.2	1/7/2014 4:11	58.2
26/7/2014 22:06	63.4	27/7/2014 15:11	65.1	28/6/2014 1:01	61.4	29/6/2014 2:06	59.0	30/6/2014 3:11	53.8	1/7/2014 4:16	58.7
26/7/2014 22:11	63.1	27/7/2014 15:16	64.9	28/6/2014 1:06	61.2	29/6/2014 2:11	60.6	30/6/2014 3:16	53.9	1/7/2014 4:21	59.0
26/7/2014 22:16	62.7	27/7/2014 15:21	65.3	28/6/2014 1:11	61.3	29/6/2014 2:16	58.9	30/6/2014 3:21	55.1	1/7/2014 4:26	58.8
26/7/2014 22:21	63.8	27/7/2014 15:26	64.1	28/6/2014 1:16	61.4	29/6/2014 2:21	58.8	30/6/2014 3:26	54.4	1/7/2014 4:31	57.8
26/7/2014 22:26	62.8	27/7/2014 15:31	64.7	28/6/2014 1:21	61.5	29/6/2014 2:26	58.4	30/6/2014 3:31	51.5	1/7/2014 4:36	56.9
26/7/2014 22:31	63.2	27/7/2014 15:36	65.0	28/6/2014 1:26	61.9	29/6/2014 2:31	58.7	30/6/2014 3:36	52.5	1/7/2014 4:41	58.0
26/7/2014 22:36	62.5	27/7/2014 15:41	65.0	28/6/2014 1:31	60.9	29/6/2014 2:36	58.7	30/6/2014 3:41	55.5	1/7/2014 4:46	58.1
26/7/2014 22:41	63.0	27/7/2014 15:46	64.6	28/6/2014 1:36	62.5	29/6/2014 2:41	56.7	30/6/2014 3:46	54.7	1/7/2014 4:51	57.7
26/7/2014 22:46	62.8	27/7/2014 15:51	64.4	28/6/2014 1:41	60.8	29/6/2014 2:46	57.5	30/6/2014 3:51	54.8	1/7/2014 4:56	57.3
26/7/2014 22:51	62.3	27/7/2014 15:56	64.7	28/6/2014 1:46	61.1	29/6/2014 2:51	56.9	30/6/2014 3:56	54.5	1/7/2014 5:01	58.5
26/7/2014 22:56	62.6	27/7/2014 16:01	65.0	28/6/2014 1:51	60.5	29/6/2014 2:56	56.8	30/6/2014 4:01	53.5	1/7/2014 5:06	58.7
27/7/2014 7:01	57.3	27/7/2014 16:06	63.5	28/6/2014 1:56	61.7	29/6/2014 3:01	57.6	30/6/2014 4:06	53.6	1/7/2014 5:11	58.2
27/7/2014 7:06	59.0	27/7/2014 16:11	64.5	28/6/2014 2:01	59.7	29/6/2014 3:06	59.7	30/6/2014 4:11	50.6	1/7/2014 5:16	59.1
27/7/2014 7:11	57.7	27/7/2014 16:16	64.6	28/6/2014 2:06	60.1	29/6/2014 3:11	60.3	30/6/2014 4:16	45.0	1/7/2014 5:21	60.7
27/7/2014 7:16	59.8	27/7/2014 16:21	64.3	28/6/2014 2:11	61.2	29/6/2014 3:16	60.7	30/6/2014 4:21	52.9	1/7/2014 5:26	60.1
27/7/2014 7:21	56.9	27/7/2014 16:26	63.6	28/6/2014 2:16	60.4	29/6/2014 3:21	60.9	30/6/2014 4:26	51.1	1/7/2014 5:31	59.3
27/7/2014 7:26	61.9	27/7/2014 16:31	64.6	28/6/2014 2:21	60.5	29/6/2014 3:26	61.3	30/6/2014 4:31	45.5	1/7/2014 5:36	59.2
27/7/2014 7:31	64.1	27/7/2014 16:36	64.2	28/6/2014 2:26	59.0	29/6/2014 3:31	60.0	30/6/2014 4:36	52.7	1/7/2014 5:41	59.5
27/7/2014 7:36	59.4	27/7/2014 16:41	63.9	28/6/2014 2:31	59.8	29/6/2014 3:36	59.3	30/6/2014 4:41	52.9	1/7/2014 5:46	58.5
27/7/2014 7:41	61.0	27/7/2014 16:46	64.1	28/6/2014 2:36	59.0	29/6/2014 3:41	59.0	30/6/2014 4:46	54.5	1/7/2014 5:51	61.1
27/7/2014 7:46	62.3	27/7/2014 16:51	63.6	28/6/2014 2:41	58.6	29/6/2014 3:46	59.1	30/6/2014 4:51	55.6	1/7/2014 5:56	59.1
27/7/2014 7:51	60.7	27/7/2014 16:56	63.4	28/6/2014 2:46	59.9	29/6/2014 3:51	59.0	30/6/2014 4:56	53.2	1/7/2014 6:01	59.7
27/7/2014 7:56	59.8	27/7/2014 17:01	63.5	28/6/2014 2:51	59.4	29/6/2014 3:56	58.9	30/6/2014 5:01	55.7	1/7/2014 6:06	59.1
27/7/2014 8:01	62.5	27/7/2014 17:06	64.3	28/6/2014 2:56	58.7	29/6/2014 4:01	57.8	30/6/2014 5:06	53.9	1/7/2014 6:11	60.5
27/7/2014 8:06	60.7	27/7/2014 17:11	64.0	28/6/2014 3:01	58.7	29/6/2014 4:06	58.5	30/6/2014 5:11	59.9	1/7/2014 6:16	60.7
27/7/2014 8:11	60.2	27/7/2014 17:16	63.8	28/6/2014 3:06	58.1	29/6/2014 4:11	57.5	30/6/2014 5:16	55.6	1/7/2014 6:21	63.5
27/7/2014 8:16	61.3	27/7/2014 17:21	64.0	28/6/2014 3:11	58.8	29/6/2014 4:16	57.3	30/6/2014 5:21	58.6	1/7/2014 6:26	65.3
27/7/2014 8:21	62.2	27/7/2014 17:26	63.9	28/6/2014 3:16	58.7	29/6/2014 4:21	56.9	30/6/2014 5:26	57.7	1/7/2014 6:31	63.3
27/7/2014 8:26	60.7	27/7/2014 17:31	63.7	28/6/2014 3:21	57.7	29/6/2014 4:26	57.0	30/6/2014 5:31	57.7	1/7/2014 6:36	66.6
27/7/2014 8:31	61.5	27/7/2014 17:36	63.5	28/6/2014 3:26	59.0	29/6/2014 4:31	55.9	30/6/2014 5:36	57.6	1/7/2014 6:41	64.5
27/7/2014 8:36	61.9	27/7/2014 17:41	63.7	28/6/2014 3:31	57.8	29/6/2014 4:36	56.7	30/6/2014 5:41	58.0	1/7/2014 6:46	66.0
27/7/2014 8:41	62.6	27/7/2014 17:46	63.8	28/6/2014 3:36	58.0	29/6/2014 4:41	57.9	30/6/2014 5:46	58.6	1/7/2014 6:51	63.8
27/7/2014 8:46	62.3	27/7/2014 17:51	64.5	28/6/2014 3:41	57.9	29/6/2014 4:46	57.0	30/6/2014 5:51	58.7	1/7/2014 6:56	63.2
27/7/2014 8:51	62.8	27/7/2014 17:56	64.1	28/6/2014 3:46	58.8	29/6/2014 4:51	57.2	30/6/2014 5:56	60.1	1/7/2014 23:01	64.0
27/7/2014 8:56	62.6	27/7/2014 18:01	65.1	28/6/2014 3:51	58.2	29/6/2014 4:56	57.2	30/6/2014 6:01	58.6	1/7/2014 23:06	63.2
27/7/2014 9:01	63.0	27/7/2014 18:06	63.7	28/6/2014 3:56	58.0	29/6/2014 5:01	55.3	30/6/2014 6:06	61.1	1/7/2014 23:11	63.3
27/7/2014 9:06	63.0	27/7/2014 18:11	63.4	28/6/2014 4:01	56.8	29/6/2014 5:06	56.4	30/6/2014 6:11	61.1	1/7/2014 23:16	63.1
27/7/2014 9:11	62.4	27/7/2014 18:16	64.0	28/6/2014 4:06	57.0	29/6/2014 5:11	57.0	30/6/2014 6:16	61.5	1/7/2014 23:21	63.5
27/7/2014 9:16	64.4	27/7/2014 18:21	63.4	28/6/2014 4:11	57.1	29/6/2014 5:16	58.9	30/6/2014 6:21	61.9	1/7/2014 23:26	62.5
27/7/2014 9:21	63.9	27/7/2014 18:26	64.1	28/6/2014 4:16	57.1	29/6/2014 5:21	57.5	30/6/2014 6:26	61.4	1/7/2014 23:31	62.6

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

1/7/2014 23:36	63.1	3/7/2014 0:41	60.7	4/7/2014 1:46	58.6	5/7/2014 2:51	60.1	6/7/2014 3:56	58.1	7/7/2014 5:01	49.3
1/7/2014 23:41	62.3	3/7/2014 0:46	59.4	4/7/2014 1:51	57.2	5/7/2014 2:56	59.7	6/7/2014 4:01	55.8	7/7/2014 5:06	52.4
1/7/2014 23:46	63.0	3/7/2014 0:51	60.1	4/7/2014 1:56	57.1	5/7/2014 3:01	61.0	6/7/2014 4:06	56.3	7/7/2014 5:11	42.0
1/7/2014 23:51	62.7	3/7/2014 0:56	59.5	4/7/2014 2:01	56.8	5/7/2014 3:06	59.6	6/7/2014 4:11	56.4	7/7/2014 5:16	55.0
1/7/2014 23:56	62.0	3/7/2014 1:01	58.7	4/7/2014 2:06	57.1	5/7/2014 3:11	59.4	6/7/2014 4:16	55.8	7/7/2014 5:21	53.3
2/7/2014 0:01	62.3	3/7/2014 1:06	59.7	4/7/2014 2:11	57.2	5/7/2014 3:16	58.8	6/7/2014 4:21	54.0	7/7/2014 5:26	55.6
2/7/2014 0:06	62.4	3/7/2014 1:11	59.4	4/7/2014 2:16	56.0	5/7/2014 3:21	58.0	6/7/2014 4:26	55.7	7/7/2014 5:31	56.1
2/7/2014 0:11	61.4	3/7/2014 1:16	59.3	4/7/2014 2:21	59.2	5/7/2014 3:26	59.2	6/7/2014 4:31	53.4	7/7/2014 5:36	55.9
2/7/2014 0:16	62.0	3/7/2014 1:21	59.1	4/7/2014 2:26	56.8	5/7/2014 3:31	58.6	6/7/2014 4:36	54.0	7/7/2014 5:41	54.9
2/7/2014 0:21	61.4	3/7/2014 1:26	58.9	4/7/2014 2:31	56.4	5/7/2014 3:36	58.7	6/7/2014 4:41	56.9	7/7/2014 5:46	56.1
2/7/2014 0:26	61.5	3/7/2014 1:31	59.0	4/7/2014 2:36	56.7	5/7/2014 3:41	59.1	6/7/2014 4:46	53.9	7/7/2014 5:51	56.0
2/7/2014 0:31	60.5	3/7/2014 1:36	58.9	4/7/2014 2:41	55.4	5/7/2014 3:46	58.3	6/7/2014 4:51	53.9	7/7/2014 5:56	57.0
2/7/2014 0:36	60.8	3/7/2014 1:41	58.3	4/7/2014 2:46	55.0	5/7/2014 3:51	58.1	6/7/2014 4:56	54.5	7/7/2014 6:01	61.4
2/7/2014 0:41	60.9	3/7/2014 1:46	58.7	4/7/2014 2:51	55.2	5/7/2014 3:56	58.4	6/7/2014 5:01	55.5	7/7/2014 6:06	58.0
2/7/2014 0:46	61.1	3/7/2014 1:51	57.6	4/7/2014 2:56	56.7	5/7/2014 4:01	58.2	6/7/2014 5:06	54.8	7/7/2014 6:11	59.8
2/7/2014 0:51	59.7	3/7/2014 1:56	57.9	4/7/2014 3:01	54.1	5/7/2014 4:06	57.8	6/7/2014 5:11	56.6	7/7/2014 6:16	60.8
2/7/2014 0:56	60.8	3/7/2014 2:01	57.0	4/7/2014 3:06	55.9	5/7/2014 4:11	55.7	6/7/2014 5:16	53.5	7/7/2014 6:21	60.4
2/7/2014 1:01	58.6	3/7/2014 2:06	58.5	4/7/2014 3:11	53.2	5/7/2014 4:16	56.4	6/7/2014 5:21	55.6	7/7/2014 6:26	60.1
2/7/2014 1:06	59.7	3/7/2014 2:11	57.8	4/7/2014 3:16	51.5	5/7/2014 4:21	57.2	6/7/2014 5:26	56.3	7/7/2014 6:31	61.0
2/7/2014 1:11	58.9	3/7/2014 2:16	57.8	4/7/2014 3:21	55.2	5/7/2014 4:26	55.0	6/7/2014 5:31	51.1	7/7/2014 6:36	61.7
2/7/2014 1:16	58.3	3/7/2014 2:21	58.2	4/7/2014 3:26	53.8	5/7/2014 4:31	57.6	6/7/2014 5:36	56.5	7/7/2014 6:41	63.7
2/7/2014 1:21	60.5	3/7/2014 2:26	57.4	4/7/2014 3:31	45.2	5/7/2014 4:36	56.5	6/7/2014 5:41	56.3	7/7/2014 6:46	63.1
2/7/2014 1:26	59.3	3/7/2014 2:31	56.3	4/7/2014 3:36	51.9	5/7/2014 4:41	54.5	6/7/2014 5:46	54.7	7/7/2014 6:51	63.1
2/7/2014 1:31	58.9	3/7/2014 2:36	55.8	4/7/2014 3:41	54.5	5/7/2014 4:46	55.6	6/7/2014 5:51	57.0	7/7/2014 6:56	69.4
2/7/2014 1:36	57.0	3/7/2014 2:41	55.9	4/7/2014 3:46	51.2	5/7/2014 4:51	54.8	6/7/2014 5:56	56.4	7/7/2014 23:01	62.0
2/7/2014 1:41	57.9	3/7/2014 2:46	56.1	4/7/2014 3:51	56.5	5/7/2014 4:56	55.9	6/7/2014 6:01	55.8	7/7/2014 23:06	62.6
2/7/2014 1:46	57.1	3/7/2014 2:51	54.4	4/7/2014 3:56	55.5	5/7/2014 5:01	56.6	6/7/2014 6:06	57.0	7/7/2014 23:11	63.0
2/7/2014 1:51	56.9	3/7/2014 2:56	54.9	4/7/2014 4:01	53.6	5/7/2014 5:06	57.5	6/7/2014 6:11	57.2	7/7/2014 23:16	62.7
2/7/2014 1:56	58.3	3/7/2014 3:01	55.3	4/7/2014 4:06	51.9	5/7/2014 5:11	56.0	6/7/2014 6:16	57.3	7/7/2014 23:21	62.6
2/7/2014 2:01	57.3	3/7/2014 3:06	54.1	4/7/2014 4:11	52.3	5/7/2014 5:16	56.7	6/7/2014 6:21	58.2	7/7/2014 23:26	62.3
2/7/2014 2:06	57.7	3/7/2014 3:11	54.9	4/7/2014 4:16	39.7	5/7/2014 5:21	58.9	6/7/2014 6:26	59.4	7/7/2014 23:31	62.3
2/7/2014 2:11	56.3	3/7/2014 3:16	52.0	4/7/2014 4:21	53.8	5/7/2014 5:26	57.5	6/7/2014 6:31	58.1	7/7/2014 23:36	62.4
2/7/2014 2:16	57.6	3/7/2014 3:21	52.1	4/7/2014 4:26	53.5	5/7/2014 5:31	56.7	6/7/2014 6:36	59.0	7/7/2014 23:41	62.0
2/7/2014 2:21	57.3	3/7/2014 3:26	53.9	4/7/2014 4:31	51.0	5/7/2014 5:36	58.9	6/7/2014 6:41	59.3	7/7/2014 23:46	61.7
2/7/2014 2:26	57.0	3/7/2014 3:31	52.1	4/7/2014 4:36	53.3	5/7/2014 5:41	56.9	6/7/2014 6:46	58.8	7/7/2014 23:51	62.0
2/7/2014 2:31	55.7	3/7/2014 3:36	54.3	4/7/2014 4:41	50.9	5/7/2014 5:46	56.3	6/7/2014 6:51	60.1	7/7/2014 23:56	62.2
2/7/2014 2:36	55.7	3/7/2014 3:41	55.1	4/7/2014 4:46	53.0	5/7/2014 5:51	57.4	6/7/2014 6:56	60.3	8/7/2014 0:01	61.5
2/7/2014 2:41	56.2	3/7/2014 3:46	48.8	4/7/2014 4:51	53.9	5/7/2014 5:56	57.0	6/7/2014 23:01	62.6	8/7/2014 0:06	62.0
2/7/2014 2:46	61.0	3/7/2014 3:51	46.7	4/7/2014 4:56	50.5	5/7/2014 6:01	58.4	6/7/2014 23:06	62.6	8/7/2014 0:11	62.8
2/7/2014 2:51	59.5	3/7/2014 3:56	53.8	4/7/2014 5:01	54.7	5/7/2014 6:06	58.4	6/7/2014 23:11	62.5	8/7/2014 0:16	61.6
2/7/2014 2:56	58.1	3/7/2014 4:01	45.5	4/7/2014 5:06	54.9	5/7/2014 6:11	60.1	6/7/2014 23:16	62.3	8/7/2014 0:21	61.5
2/7/2014 3:01	57.3	3/7/2014 4:06	49.0	4/7/2014 5:11	55.3	5/7/2014 6:16	59.2	6/7/2014 23:21	62.2	8/7/2014 0:26	61.1
2/7/2014 3:06	56.4	3/7/2014 4:11	50.3	4/7/2014 5:16	55.4	5/7/2014 6:21	60.7	6/7/2014 23:26	61.6	8/7/2014 0:31	60.8
2/7/2014 3:11	55.8	3/7/2014 4:16	51.1	4/7/2014 5:21	56.5	5/7/2014 6:26	60.1	6/7/2014 23:31	61.3	8/7/2014 0:36	60.6
2/7/2014 3:16	54.5	3/7/2014 4:21	54.2	4/7/2014 5:26	55.0	5/7/2014 6:31	60.3	6/7/2014 23:36	61.6	8/7/2014 0:41	60.1
2/7/2014 3:21	54.8	3/7/2014 4:26	54.3	4/7/2014 5:31	55.9	5/7/2014 6:36	60.4	6/7/2014 23:41	61.6	8/7/2014 0:46	60.2
2/7/2014 3:26	55.2	3/7/2014 4:31	55.0	4/7/2014 5:36	57.6	5/7/2014 6:41	61.7	6/7/2014 23:46	61.5	8/7/2014 0:51	59.9
2/7/2014 3:31	54.6	3/7/2014 4:36	52.3	4/7/2014 5:41	57.8	5/7/2014 6:46	61.2	6/7/2014 23:51	61.6	8/7/2014 0:56	59.3
2/7/2014 3:36	49.8	3/7/2014 4:41	48.6	4/7/2014 5:46	56.1	5/7/2014 6:51	61.8	6/7/2014 23:56	61.8	8/7/2014 1:01	59.2
2/7/2014 3:41	55.6	3/7/2014 4:46	54.0	4/7/2014 5:51	57.5	5/7/2014 6:56	61.2	7/7/2014 0:01	60.9	8/7/2014 1:06	59.3
2/7/2014 3:46	53.5	3/7/2014 4:51	51.1	4/7/2014 5:56	57.7	5/7/2014 23:01	63.1	7/7/2014 0:06	63.8	8/7/2014 1:11	59.6
2/7/2014 3:51	54.6	3/7/2014 4:56	50.3	4/7/2014 6:01	57.8	5/7/2014 23:06	62.6	7/7/2014 0:11	61.5	8/7/2014 1:16	57.7
2/7/2014 3:56	51.9	3/7/2014 5:01	53.4	4/7/2014 6:06	58.2	5/7/2014 23:11	63.1	7/7/2014 0:16	60.7	8/7/2014 1:21	59.4
2/7/2014 4:01	52.9	3/7/2014 5:06	54.8	4/7/2014 6:11	58.8	5/7/2014 23:16	63.2	7/7/2014 0:21	60.3	8/7/2014 1:26	58.2
2/7/2014 4:06	53.2	3/7/2014 5:11	54.2	4/7/2014 6:16	60.0	5/7/2014 23:21	62.5	7/7/2014 0:26	61.0	8/7/2014 1:31	57.8
2/7/2014 4:11	52.7	3/7/2014 5:16	58.1	4/7/2014 6:21	59.4	5/7/2014 23:26	62.7	7/7/2014 0:31	59.4	8/7/2014 1:36	57.8
2/7/2014 4:16	48.4	3/7/2014 5:21	55.1	4/7/2014 6:26	60.2	5/7/2014 23:31	62.6	7/7/2014 0:36	59.5	8/7/2014 1:41	57.9
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2/7/2014 4:51	53.4	3/7/2014 5:56	58.3	4/7/2014 23:01	63.4	6/7/2014 0:06	62.8	7/7/2014 1:11	57.9	8/7/2014 2:16	54.3
2/7/2014 4:56	54.3	3/7/2014 6:01	56.9	4/7/2014 23:06	62.7	6/7/2014 0:11	62.0	7/7/2014 1:16	58.1	8/7/2014 2:21	57.6
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2/7/2014 5:06	53.1	3/7/2014 6:11	60.2	4/7/2014 23:16	63.3	6/7/2014 0:21	61.1	7/7/2014 1:26	57.3	8/7/2014 2:31	53.5
2/7/2014 5:11	54.8	3/7/2014 6:16	59.8	4/7/2014 23:21	63.2	6/7/2014 0:26	60.9	7/7/2014 1:31	57.8	8/7/2014 2:36	51.9
2/7/2014 5:16	55.5	3/7/2014 6:21	60.1	4/7/2014 23:26	62.8	6/7/2014 0:31	61.6	7/7/2014 1:36	56.6	8/7/2014 2:41	55.3
2/7/2014 5:21	59.1	3/7/2014 6:26	60.6	4/7/2014 23:31	62.7	6/7/2014 0:36	60.3	7/7/2014 1:41	56.6	8/7/2014 2:46	52.3
2/7/2014 5:26	57.0	3/7/2014 6:31	61.4	4/7/2014 23:36	63.2	6/7/2014 0:41	60.7	7/7/2014 1:46	56.7	8/7/2014 2:51	54.6
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2/7/2014 5:41	58.0	3/7/2014 6:46	62.8	4/7/2014 23:51	63.5	6/7/2014 0:56	59.6	7/7/2014 2:01	58.2	8/7/2014 3:06	55.8
2/7/2014 5:46	59.4	3/7/2014 6:51	63.0	4/7/2014 23:56	62.4	6/7/2014 1:01	59.9	7/7/2014 2:06	55.5	8/7/2014 3:11	53.9
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2/7/2014 5:56	58.9	3/7/2014 23:01	62.8	5/7/2014 0:06	62.5	6/7/2014 1:11	60.8	7/7/2014 2:16	54.2	8/7/2014 3:21	52.9
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2/7/2014 6:16	60.9	3/7/2014 23:21	64.8	5/7/2014 0:26	61.9	6/7/2014 1:31	58.1	7/7/2014 2:36	53.4	8/7/2014 3:41	48.8
2/7/2014 6:21	61.2	3/7/2014 23:26	62.4	5/7/2014 0:31	61.2	6/7/2014 1:36	57.8	7/7/2014 2:41	49.8	8/7/2014 3:46	49.0
2/7/2014 6:26	61.2	3/7/2014 23:31	62.6	5/7/2014 0:36	60.9	6/7/2014 1:41	58.0	7/7/2014 2:46	52.1	8/7/2014 3:51	55.4
2/7/2014 6:31	61.5	3/7/2014 23:36	62.9	5/7/2014 0:41	61.3	6/7/2014 1:46	58.0	7/7/2014 2:51	44.6	8/7/2014 3:56	49.9
2/7/2014 6:36	62.2	3/7/2014 23:41	62.1	5/7/2014 0:46	61.4	6/7/2014 1:51	58.1	7/7/2014 2:56	48.7	8/7/2014 4:01	49.4
2/7/2014 6:41	63.1	3/7/2014 23:46	62.6	5/7/2014 0:51	59.7	6/7/2014 1:56	56.7	7/7/2014 3:01	44.8	8/7/2014 4:06	51.1
2/7/2014 6:46	63.1	3/7/2014 23:51	62.1	5/7/2014 0:56	60.6	6/7/2014 2:01	58.4	7/7/2014 3:06	36.7	8/7/2014 4:11	58.1
2/7/2014 6:51	63.5	3/7/2014 23:56	62.5	5/7/2014 1:01	60.6	6/7/2014 2:06	60.1	7/7/2014 3:11	51.4	8/7/2014 4:16	47.9
2/7/2014 6:56	63.8	4/7/2014 0:01	61.9	5/7/2014 1:06	60.8	6/7/2014 2:11	61.6	7/7/2014 3:16	47.0	8/7/2014 4:21	44.6
2/7/2014 23:01	63.2	4/7/2014 0:06	62.4	5/7/2014 1:11	60.3	6/7/2014 2:16	60.9	7/7/2014 3:21	58.2	8/7/2014 4:26	49.8
2/7/2014 23:06	62.9	4/7/2014 0:11	61.8	5/7/2014 1:16	59.9	6/7/2014 2:21	60.8	7/7/2014 3:26	58.1	8/7/2014 4:31	47.4
2/7/2014 23:11	63.0	4/7/2014 0:16	62.1	5/7/2014 1:21	59.7	6/7/2014 2:26	60.1	7/7/2014 3:31	43.1	8/7/2014 4:36	47.5
2/7/2014 23:16	63.0	4/7/2014 0:21	61.9	5/7/2014 1:26	60.2	6/7/2014 2:31	60.3	7/7/2014 3:36	48.7	8/7/2014 4:41	47.8
2/7/2014 23:21	63.0	4/7/2014 0:26	61.6	5/7/2014 1:31	60.9	6/7/2014 2:36	59.3	7/7/2014 3:41	44.0	8/7/2014 4:46	53.0
2/7/2014 23:26	62.8	4/7/2014 0:31	60.9	5/7/2014 1:36	58.6	6/7/2014 2:41	60.2	7/7/2014 3:46	49.3	8/7/2014 4:51	46.5
2/7/2014 23:31	62.9	4/7/2014 0:36	60.4	5/7/2014 1:41	59.8	6/7/2014 2:46	59.9	7/7/2014 3:51	47.1	8/7/2014 4:56	51.4
2/7/2014 23:36	62.4	4/7/2014 0:41	60.8	5/7/2014 1:46	61.6	6/7/2014 2:51	58.6	7/7/2014 3:56	58.0	8/7/2014 5:01	54.8
2/7/2014 23:41	62.2	4/7/2014 0:46	60.9	5/7/2014 1:51	66.0	6/7/2014 2:56	59.0	7/7/2014 4:01	51.5	8/7/2014 5:06	49.2
2/7/2014 23:46	62.1	4/7/2014 0:51	60.2	5/7/2014 1:56	64.7	6/7/2014 3:01	58.5	7/7/2014 4:06	57.9	8/7/2014 5:11	52.9
2/7/2014 23:51	61.6	4/7/2014 0:56	60.5	5/7/2014 2:01	58.8	6/7/2014 3:06	57.7	7/7/2014 4:11	49.8	8/7/2014 5:16	51.8
2/7/2014 23:56	62.4	4/7/2014 1:01	60.4	5/7/2014 2:06	60.1	6/7/2014 3:11	57.9	7/7/2014 4:16	47.9	8/7/2014 5:21	51.0
3/7/2014 0:01	60.4	4/7/2014 1:06	58.8	5/7/2014 2:11	61.1	6/7/2014 3:16	57.3	7/7/2014 4:21	58.0	8/7/2014 5:26	55.0
3/7/2014 0:06	60.9	4/7/2014 1:11	59.5	5/7/2014 2:16	61.0	6/7/2014 3:21	59.1	7/7/2014 4:26	48.3	8/7/2014 5:31	55.3
3/7/2014 0:11	60.9	4/7/2014 1:16	59.4	5/7/2014 2:21	61.2	6/7/2014 3:26	56.6	7/7/2014 4:31	49.1	8/7/2014 5:36	54.4
3/7/2014 0:16	61.0	4/7/2014 1:21	58.7	5/7/2014 2:26	60.9	6/7/2014 3:31	59.5	7/7/2014 4:36	50.2	8/7/2014 5:41	57.9
3/7/2014 0:21	60.1	4/7/2014 1:26	59.5	5/7/2014 2:31	60.9	6/7/2014 3:36	57.3	7/7/2014 4:41	45.7	8/7/2014 5:46	56.9
3/7/2014 0:26	60.5	4/7/2014 1:31	58.3	5/7/2014 2:36	60.4	6/7/2014 3:41	57.1	7/7/2014 4:46	48.6	8/7/2014 5:51	58.9
3/7/2014 0:31	61.0	4/7/2014 1:36	59.4	5/7/2014 2:41	59.6	6/7/2014 3:46	56.2	7/7/2014 4:51	48.8	8/7/2014 5:56	57.7
3/7/2014 0:36	60.0	4/7/2014 1:41	57.6	5/7/2014 2:46	60.1	6/7/2014 3:51	56.7	7/7/2014 4:56	48.5	8/7/2014 6:01	56.5

Real-time Noise Data — RTN2a (Hong Kong Electric Centre)

8/7/2014 6:06	58.5	9/7/2014 23:11	62.5	11/7/2014 0:16	62.8	12/7/2014 1:21	61.1	13/7/2014 2:26	60.5	14/7/2014 3:31	58.1
8/7/2014 6:11	59.5	9/7/2014 23:16	63.6	11/7/2014 0:21	61.8	12/7/2014 1:26	60.8	13/7/2014 2:31	60.1	14/7/2014 3:36	47.9
8/7/2014 6:16	59.6	9/7/2014 23:21	62.3	11/7/2014 0:26	61.8	12/7/2014 1:31	61.1	13/7/2014 2:36	59.7	14/7/2014 3:41	52.8
8/7/2014 6:21	60.1	9/7/2014 23:26	62.4	11/7/2014 0:31	61.7	12/7/2014 1:36	61.0	13/7/2014 2:41	59.6	14/7/2014 3:46	58.1
8/7/2014 6:26	60.3	9/7/2014 23:31	62.5	11/7/2014 0:36	61.4	12/7/2014 1:41	61.5	13/7/2014 2:46	59.2	14/7/2014 3:51	50.0
8/7/2014 6:31	60.5	9/7/2014 23:36	62.4	11/7/2014 0:41	60.7	12/7/2014 1:46	61.4	13/7/2014 2:51	60.7	14/7/2014 3:56	49.4
8/7/2014 6:36	61.1	9/7/2014 23:41	62.4	11/7/2014 0:46	60.2	12/7/2014 1:51	60.8	13/7/2014 2:56	59.3	14/7/2014 4:01	51.4
8/7/2014 6:41	61.7	9/7/2014 23:46	62.2	11/7/2014 0:51	59.9	12/7/2014 1:56	61.4	13/7/2014 3:01	60.5	14/7/2014 4:06	51.5
8/7/2014 6:46	61.7	9/7/2014 23:51	62.1	11/7/2014 0:56	60.4	12/7/2014 2:01	59.8	13/7/2014 3:06	59.2	14/7/2014 4:11	45.0
8/7/2014 6:51	62.9	9/7/2014 23:56	61.9	11/7/2014 1:01	60.7	12/7/2014 2:06	61.2	13/7/2014 3:11	60.1	14/7/2014 4:16	45.2
8/7/2014 6:56	62.5	10/7/2014 0:01	61.6	11/7/2014 1:06	60.5	12/7/2014 2:11	60.0	13/7/2014 3:16	60.0	14/7/2014 4:21	51.4
8/7/2014 23:01	62.9	10/7/2014 0:06	61.9	11/7/2014 1:11	60.2	12/7/2014 2:16	60.1	13/7/2014 3:21	59.1	14/7/2014 4:26	42.0
8/7/2014 23:06	62.7	10/7/2014 0:11	61.8	11/7/2014 1:16	60.2	12/7/2014 2:21	60.0	13/7/2014 3:26	59.5	14/7/2014 4:31	44.0
8/7/2014 23:11	62.8	10/7/2014 0:16	61.7	11/7/2014 1:21	58.1	12/7/2014 2:26	60.5	13/7/2014 3:31	59.5	14/7/2014 4:36	57.9
8/7/2014 23:16	63.2	10/7/2014 0:21	61.0	11/7/2014 1:26	59.7	12/7/2014 2:31	60.9	13/7/2014 3:36	59.3	14/7/2014 4:41	48.3
8/7/2014 23:21	62.4	10/7/2014 0:26	61.1	11/7/2014 1:31	57.8	12/7/2014 2:36	60.1	13/7/2014 3:41	58.5	14/7/2014 4:46	58.2
8/7/2014 23:26	62.6	10/7/2014 0:31	62.1	11/7/2014 1:36	58.0	12/7/2014 2:41	59.3	13/7/2014 3:46	59.4	14/7/2014 4:51	49.3
8/7/2014 23:31	61.9	10/7/2014 0:36	60.8	11/7/2014 1:41	60.1	12/7/2014 2:46	59.3	13/7/2014 3:51	59.1	14/7/2014 4:56	48.7
8/7/2014 23:36	62.5	10/7/2014 0:41	60.2	11/7/2014 1:46	61.6	12/7/2014 2:51	59.0	13/7/2014 3:56	59.6	14/7/2014 5:01	55.6
8/7/2014 23:41	63.6	10/7/2014 0:46	61.2	11/7/2014 1:51	58.5	12/7/2014 2:56	59.0	13/7/2014 4:01	58.1	14/7/2014 5:06	55.9
8/7/2014 23:46	62.8	10/7/2014 0:51	59.4	11/7/2014 1:56	58.3	12/7/2014 3:01	58.2	13/7/2014 4:06	57.5	14/7/2014 5:11	53.1
8/7/2014 23:51	62.1	10/7/2014 0:56	61.1	11/7/2014 2:01	58.0	12/7/2014 3:06	58.6	13/7/2014 4:11	59.0	14/7/2014 5:16	54.5
8/7/2014 23:56	62.0	10/7/2014 1:01	59.8	11/7/2014 2:06	59.1	12/7/2014 3:11	58.9	13/7/2014 4:16	58.5	14/7/2014 5:21	55.9
9/7/2014 0:01	61.9	10/7/2014 1:06	59.3	11/7/2014 2:11	57.4	12/7/2014 3:16	59.2	13/7/2014 4:21	59.5	14/7/2014 5:26	56.2
9/7/2014 0:06	62.5	10/7/2014 1:11	58.8	11/7/2014 2:16	56.7	12/7/2014 3:21	58.9	13/7/2014 4:26	57.7	14/7/2014 5:31	54.4
9/7/2014 0:11	61.5	10/7/2014 1:16	58.2	11/7/2014 2:21	57.8	12/7/2014 3:26	59.0	13/7/2014 4:31	55.9	14/7/2014 5:36	55.6
9/7/2014 0:16	60.5	10/7/2014 1:21	58.3	11/7/2014 2:26	57.7	12/7/2014 3:31	58.3	13/7/2014 4:36	57.0	14/7/2014 5:41	55.0
9/7/2014 0:21	60.5	10/7/2014 1:26	57.3	11/7/2014 2:31	55.7	12/7/2014 3:36	58.2	13/7/2014 4:41	57.1	14/7/2014 5:46	59.9
9/7/2014 0:26	61.0	10/7/2014 1:31	58.0	11/7/2014 2:36	56.9	12/7/2014 3:41	58.3	13/7/2014 4:46	56.2	14/7/2014 5:51	61.5
9/7/2014 0:31	61.2	10/7/2014 1:36	58.2	11/7/2014 2:41	55.3	12/7/2014 3:46	57.3	13/7/2014 4:51	57.0	14/7/2014 5:56	61.8
9/7/2014 0:36	60.6	10/7/2014 1:41	57.7	11/7/2014 2:46	54.9	12/7/2014 3:51	57.7	13/7/2014 4:56	57.6	14/7/2014 6:01	61.4
9/7/2014 0:41	60.7	10/7/2014 1:46	58.0	11/7/2014 2:51	56.4	12/7/2014 3:56	57.3	13/7/2014 5:01	59.6	14/7/2014 6:06	60.8
9/7/2014 0:46	60.3	10/7/2014 1:51	57.2	11/7/2014 2:56	52.5	12/7/2014 4:01	57.3	13/7/2014 5:06	57.1	14/7/2014 6:11	61.6
9/7/2014 0:51	59.8	10/7/2014 1:56	58.1	11/7/2014 3:01	54.5	12/7/2014 4:06	56.2	13/7/2014 5:11	59.9	14/7/2014 6:16	61.7
9/7/2014 0:56	60.3	10/7/2014 2:01	56.8	11/7/2014 3:06	56.9	12/7/2014 4:11	56.7	13/7/2014 5:16	58.6	14/7/2014 6:21	61.2
9/7/2014 1:01	59.5	10/7/2014 2:06	56.9	11/7/2014 3:11	55.3	12/7/2014 4:16	58.6	13/7/2014 5:21	55.2	14/7/2014 6:26	61.4
9/7/2014 1:06	59.9	10/7/2014 2:11	55.6	11/7/2014 3:16	55.6	12/7/2014 4:21	57.6	13/7/2014 5:26	58.9	14/7/2014 6:31	64.3
9/7/2014 1:11	59.5	10/7/2014 2:16	56.5	11/7/2014 3:21	53.2	12/7/2014 4:26	57.8	13/7/2014 5:31	56.5	14/7/2014 6:36	62.1
9/7/2014 1:16	59.5	10/7/2014 2:21	56.7	11/7/2014 3:26	54.7	12/7/2014 4:31	55.8	13/7/2014 5:36	57.2	14/7/2014 6:41	62.8
9/7/2014 1:21	58.6	10/7/2014 2:26	56.7	11/7/2014 3:31	54.5	12/7/2014 4:36	56.6	13/7/2014 5:41	56.8	14/7/2014 6:46	62.4
9/7/2014 1:26	59.4	10/7/2014 2:31	55.6	11/7/2014 3:36	58.4	12/7/2014 4:41	56.4	13/7/2014 5:46	57.6	14/7/2014 6:51	62.9
9/7/2014 1:31	57.1	10/7/2014 2:36	55.5	11/7/2014 3:41	52.8	12/7/2014 4:46	56.6	13/7/2014 5:51	57.7	14/7/2014 6:56	63.0
9/7/2014 1:36	56.9	10/7/2014 2:41	55.0	11/7/2014 3:46	53.2	12/7/2014 4:51	56.4	13/7/2014 5:56	58.4	14/7/2014 23:01	63.1
9/7/2014 1:41	57.8	10/7/2014 2:46	54.4	11/7/2014 3:51	54.5	12/7/2014 4:56	57.5	13/7/2014 6:01	59.0	14/7/2014 23:06	63.0
9/7/2014 1:46	58.7	10/7/2014 2:51	55.8	11/7/2014 3:56	54.4	12/7/2014 5:01	55.2	13/7/2014 6:06	63.8	14/7/2014 23:11	63.1
9/7/2014 1:51	57.5	10/7/2014 2:56	54.7	11/7/2014 4:01	53.2	12/7/2014 5:06	65.6	13/7/2014 6:11	60.1	14/7/2014 23:16	62.7
9/7/2014 1:56	59.1	10/7/2014 3:01	54.9	11/7/2014 4:06	50.7	12/7/2014 5:11	59.7	13/7/2014 6:16	61.0	14/7/2014 23:21	62.5
9/7/2014 2:01	57.1	10/7/2014 3:06	55.2	11/7/2014 4:11	45.0	12/7/2014 5:16	58.9	13/7/2014 6:21	59.4	14/7/2014 23:26	63.3
9/7/2014 2:06	57.3	10/7/2014 3:11	54.3	11/7/2014 4:16	52.9	12/7/2014 5:21	58.8	13/7/2014 6:26	61.1	14/7/2014 23:31	62.6
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9/7/2014 2:21	56.4	10/7/2014 3:26	55.9	11/7/2014 4:31	63.4	12/7/2014 5:36	58.9	13/7/2014 6:41	60.4	14/7/2014 23:46	61.8
9/7/2014 2:26	57.3	10/7/2014 3:31	55.7	11/7/2014 4:36	60.4	12/7/2014 5:41	58.9	13/7/2014 6:46	61.9	14/7/2014 23:51	62.0
9/7/2014 2:31	55.6	10/7/2014 3:36	55.5	11/7/2014 4:41	59.8	12/7/2014 5:46	60.3	13/7/2014 6:51	60.3	14/7/2014 23:56	61.4
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9/7/2014 2:46	57.1	10/7/2014 3:51	52.8	11/7/2014 4:56	56.9	12/7/2014 6:01	58.7	13/7/2014 23:06	62.6	15/7/2014 0:11	61.1
9/7/2014 2:51	56.3	10/7/2014 3:56	56.5	11/7/2014 5:01	55.0	12/7/2014 6:06	59.7	13/7/2014 23:11	63.0	15/7/2014 0:16	61.6
9/7/2014 2:56	55.5	10/7/2014 4:01	54.1	11/7/2014 5:06	56.9	12/7/2014 6:11	61.1	13/7/2014 23:16	62.6	15/7/2014 0:21	60.8
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9/7/2014 3:06	55.3	10/7/2014 4:11	45.8	11/7/2014 5:16	56.3	12/7/2014 6:21	60.6	13/7/2014 23:26	63.1	15/7/2014 0:31	61.4
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9/7/2014 3:31	55.5	10/7/2014 4:36	51.2	11/7/2014 5:41	61.8	12/7/2014 6:46	62.5	13/7/2014 23:51	61.6	15/7/2014 0:56	59.0
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9/7/2014 4:06	53.9	10/7/2014 5:11	54.9	11/7/2014 6:16	60.7	12/7/2014 23:21	64.4	14/7/2014 0:26	61.4	15/7/2014 1:31	58.1
9/7/2014 4:11	52.1	10/7/2014 5:16	54.7	11/7/2014 6:21	61.0	12/7/2014 23:26	64.2	14/7/2014 0:31	60.6	15/7/2014 1:36	58.5
9/7/2014 4:16	51.6	10/7/2014 5:21	55.2	11/7/2014 6:26	62.0	12/7/2014 23:31	64.8	14/7/2014 0:36	60.9	15/7/2014 1:41	58.5
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9/7/2014 5:46	57.3	10/7/2014 6:51	62.4	11/7/2014 23:56	63.1	13/7/2014 1:01	61.7	14/7/2014 2:06	57.1	15/7/2014 3:11	53.6
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9/7/2014 6:16	59.5	10/7/2014 23:21	63.4	12/7/2014 0:26	62.8	13/7/2014 1:31	61.7	14/7/2014 2:36	56.6	15/7/2014 3:41	52.6
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9/7/2014 6:26	60.4	10/7/2014 23:31	63.5	12/7/2014 0:36	62.1	13/7/2014 1:41	63.0	14/7/2014 2:46	57.0	15/7/2014 3:51	54.0
9/7/2014 6:31	60.1	10/7/2014 23:36	62.6	12/7/2014 0:41	62.0	13/7/2014 1:46	61.3	14/7/2014 2:51	54.8	15/7/2014 3:56	50.2
9/7/2014 6:36	61.6	10/7/2014 23:41	62.7	12/7/2014 0:46	61.6	13/7/2014 1:51	60.9	14/7/2014 2:56	56.6	15/7/2014 4:01	48.4
9/7/2014 6:41	61.7	10/7/2014 23:46	63.5	12/7/2014 0:51	62.2	13/7/2014 1:56	61.2	14/7/2014 3:01	56.9	15/7/2014 4:06	51.2
9/7/2014 6:46	62.0	10/7/2014 23:51	63.0	12/7/2014 0:56	61.5	13/7/2014 2:01	63.1	14/7/2014 3:06	53.4	15/7/2014 4:11	58.1
9/7/2014 6:51	62.7	10/7/2014 23:56	62.1	12/7/2014 1:01	61.9	13/7/2014 2:06	60.9	14/7/2014 3:11	53.0	15/7/2014 4:16	53.3
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9/7/2014 23:06	62.7	11/7/2014 0:11	61.5	12/7/2014 1:16	61.9	13/7/2014 2:21	61.4	14/7/2014 3:26	44.3	15/7/2014 4:31	46.5

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

15/7/2014 4:36	50.0	16/7/2014 5:41	58.3	17/7/2014 6:46	62.2	18/7/2014 23:51	64.5	20/7/2014 0:56	62.7	21/7/2014 2:01	57.2
15/7/2014 4:41	52.7	16/7/2014 5:46	56.9	17/7/2014 6:51	62.7	18/7/2014 23:56	64.5	20/7/2014 1:01	62.5	21/7/2014 2:06	57.2
15/7/2014 4:46	51.1	16/7/2014 5:51	57.2	17/7/2014 6:56	62.8	19/7/2014 0:01	64.7	20/7/2014 1:06	62.3	21/7/2014 2:11	54.7
15/7/2014 4:51	54.1	16/7/2014 5:56	58.5	17/7/2014 23:01	64.6	19/7/2014 0:06	64.6	20/7/2014 1:11	61.9	21/7/2014 2:16	57.2
15/7/2014 4:56	51.1	16/7/2014 6:01	56.6	17/7/2014 23:06	64.1	19/7/2014 0:11	64.3	20/7/2014 1:16	61.4	21/7/2014 2:21	56.4
15/7/2014 5:01	52.5	16/7/2014 6:06	57.7	17/7/2014 23:11	64.4	19/7/2014 0:16	64.0	20/7/2014 1:21	61.4	21/7/2014 2:26	55.6
15/7/2014 5:06	53.4	16/7/2014 6:11	58.7	17/7/2014 23:16	64.6	19/7/2014 0:21	64.2	20/7/2014 1:26	61.4	21/7/2014 2:31	53.3
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15/7/2014 5:16	59.3	16/7/2014 6:21	59.8	17/7/2014 23:26	64.1	19/7/2014 0:31	64.1	20/7/2014 1:36	61.9	21/7/2014 2:41	56.4
15/7/2014 5:21	55.3	16/7/2014 6:26	60.5	17/7/2014 23:31	64.2	19/7/2014 0:36	63.7	20/7/2014 1:41	61.8	21/7/2014 2:46	55.4
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15/7/2014 5:31	55.2	16/7/2014 6:36	60.3	17/7/2014 23:41	64.3	19/7/2014 0:46	63.9	20/7/2014 1:51	60.8	21/7/2014 2:56	53.2
15/7/2014 5:36	54.4	16/7/2014 6:41	61.5	17/7/2014 23:46	64.2	19/7/2014 0:51	63.0	20/7/2014 1:56	61.3	21/7/2014 3:01	51.5
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15/7/2014 5:56	57.3	16/7/2014 23:01	63.4	18/7/2014 0:06	63.5	19/7/2014 1:11	62.4	20/7/2014 2:16	61.3	21/7/2014 3:21	44.3
15/7/2014 6:01	58.9	16/7/2014 23:06	63.1	18/7/2014 0:11	63.5	19/7/2014 1:16	62.8	20/7/2014 2:21	60.3	21/7/2014 3:26	46.4
15/7/2014 6:06	58.6	16/7/2014 23:11	63.6	18/7/2014 0:16	63.7	19/7/2014 1:21	62.9	20/7/2014 2:26	59.9	21/7/2014 3:31	58.2
15/7/2014 6:11	58.2	16/7/2014 23:16	62.2	18/7/2014 0:21	63.1	19/7/2014 1:26	63.3	20/7/2014 2:31	60.6	21/7/2014 3:36	48.7
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16/7/2014 2:06	56.4	17/7/2014 3:11	54.5	18/7/2014 4:16	54.9	19/7/2014 5:21	58.1	20/7/2014 6:26	61.7	21/7/2014 23:31	62.5
16/7/2014 2:11	55.6	17/7/2014 3:16	53.9	18/7/2014 4:21	56.1	19/7/2014 5:26	58.1	20/7/2014 6:31	60.4	21/7/2014 23:36	62.8
16/7/2014 2:16	55.1	17/7/2014 3:21	53.8	18/7/2014 4:26	55.8	19/7/2014 5:31	57.8	20/7/2014 6:36	61.2	21/7/2014 23:41	62.1
16/7/2014 2:21	55.8	17/7/2014 3:26	51.3	18/7/2014 4:31	57.5	19/7/2014 5:36	58.4	20/7/2014 6:41	62.1	21/7/2014 23:46	62.0
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16/7/2014 2:31	55.0	17/7/2014 3:36	53.6	18/7/2014 4:41	56.2	19/7/2014 5:46	59.5	20/7/2014 6:51	61.9	21/7/2014 23:56	61.9
16/7/2014 2:36	54.1	17/7/2014 3:41	52.9	18/7/2014 4:46	57.0	19/7/2014 5:51	59.7	20/7/2014 6:56	61.3	22/7/2014 0:01	62.0
16/7/2014 2:41	52.9	17/7/2014 3:46	51.4	18/7/2014 4:51	54.7	19/7/2014 5:56	62.9	20/7/2014 23:01	63.1	22/7/2014 0:06	61.8
16/7/2014 2:46	54.6	17/7/2014 3:51	54.0	18/7/2014 4:56	54.9	19/7/2014 6:01	60.9	20/7/2014 23:06	62.8	22/7/2014 0:11	61.3
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16/7/2014 2:56	53.4	17/7/2014 4:01	50.4	18/7/2014 5:06	57.9	19/7/2014 6:11	61.0	20/7/2014 23:16	63.1	22/7/2014 0:21	60.9
16/7/2014 3:01	53.2	17/7/2014 4:06	55.1	18/7/2014 5:11	59.6	19/7/2014 6:16	61.1	20/7/2014 23:21	63.6	22/7/2014 0:26	61.8
16/7/2014 3:06	43.5	17/7/2014 4:11	50.2	18/7/2014 5:16	57.3	19/7/2014 6:21	61.7	20/7/2014 23:26	62.5	22/7/2014 0:31	61.6
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16/7/2014 3:26	49.9	17/7/2014 4:31	50.3	18/7/2014 5:36	57.2	19/7/2014 6:41	62.5	20/7/2014 23:46	62.2	22/7/2014 0:51	60.2
16/7/2014 3:31	50.4	17/7/2014 4:36	51.9	18/7/2014 5:41	58.6	19/7/2014 6:46	62.4	20/7/2014 23:51	63.0	22/7/2014 0:56	60.9
16/7/2014 3:36	50.7	17/7/2014 4:41	53.8	18/7/2014 5:46	60.0	19/7/2014 6:51	62.5	20/7/2014 23:56	61.9	22/7/2014 1:01	59.3
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16/7/2014 3:46	50.5	17/7/2014 4:51	54.2	18/7/2014 5:56	59.0	19/7/2014 23:01	63.9	21/7/2014 0:06	62.0	22/7/2014 1:11	59.4
16/7/2014 3:51	48.4	17/7/2014 4:56	55.7	18/7/2014 6:01	60.6	19/7/2014 23:06	64.0	21/7/2014 0:11	61.6	22/7/2014 1:16	59.3
16/7/2014 3:56	58.3	17/7/2014 5:01	51.0	18/7/2014 6:06	60.3	19/7/2014 23:11	64.0	21/7/2014 0:16	61.1	22/7/2014 1:21	60.3
16/7/2014 4:01	50.9	17/7/2014 5:06	54.5	18/7/2014 6:11	59.9	19/7/2014 23:16	64.6	21/7/2014 0:21	61.5	22/7/2014 1:26	58.5
16/7/2014 4:06	40.4	17/7/2014 5:11	54.9	18/7/2014 6:16	60.2	19/7/2014 23:21	63.6	21/7/2014 0:26	60.5	22/7/2014 1:31	59.9
16/7/2014 4:11	49.8	17/7/2014 5:16	53.4	18/7/2014 6:21	61.1	19/7/2014 23:26	64.2	21/7/2014 0:31	61.3	22/7/2014 1:36	58.3
16/7/2014 4:16	49.3	17/7/2014 5:21	59.3	18/7/2014 6:26	62.4	19/7/2014 23:31	63.9	21/7/2014 0:36	60.4	22/7/2014 1:41	58.4
16/7/2014 4:21	52.9	17/7/2014 5:26	56.4	18/7/2014 6:31	62.2	19/7/2014 23:36	63.4	21/7/2014 0:41	60.0	22/7/2014 1:46	58.4
16/7/2014 4:26	47.3	17/7/2014 5:31	54.0	18/7/2014 6:36	62.9	19/7/2014 23:41	64.1	21/7/2014 0:46	58.5	22/7/2014 1:51	57.4
16/7/2014 4:31	45.7	17/7/2014 5:36	56.4	18/7/2014 6:41	62.7	19/7/2014 23:46	63.7	21/7/2014 0:51	58.7	22/7/2014 1:56	57.8
16/7/2014 4:36	36.7	17/7/2014 5:41	60.7	18/7/2014 6:46	64.3	19/7/2014 23:51	63.2	21/7/2014 0:56	60.0	22/7/2014 2:01	60.9
16/7/2014 4:41	51.5	17/7/2014 5:46	66.5	18/7/2014 6:51	63.7	19/7/2014 23:56	63.5	21/7/2014 1:01	56.9	22/7/2014 2:06	56.7
16/7/2014 4:46	47.3	17/7/2014 5:51	61.1	18/7/2014 6:56	64.2	20/7/2014 0:01	63.7	21/7/2014 1:06	58.9	22/7/2014 2:11	56.0
16/7/2014 4:51	52.6	17/7/2014 5:56	58.6	18/7/2014 23:01	64.5	20/7/2014 0:06	63.8	21/7/2014 1:11	60.2	22/7/2014 2:16	56.2
16/7/2014 4:56	50.2	17/7/2014 6:01	57.9	18/7/2014 23:06	64.3	20/7/2014 0:11	63.9	21/7/2014 1:16	58.2	22/7/2014 2:21	58.0
16/7/2014 5:01	53.0	17/7/2014 6:06	57.1	18/7/2014 23:11	63.9	20/7/2014 0:16	63.6	21/7/2014 1:21	58.8	22/7/2014 2:26	57.3
16/7/2014 5:06	50.5	17/7/2014 6:11	59.7	18/7/2014 23:16	64.7	20/7/2014 0:21	63.6	21/7/2014 1:26	58.2	22/7/2014 2:31	51.9
16/7/2014 5:11	48.4	17/7/2014 6:16	59.6	18/7/2014 23:21	64.7	20/7/2014 0:26	63.3	21/7/2014 1:31	58.4	22/7/2014 2:36	55.0
16/7/2014 5:16	57.6	17/7/2014 6:21	59.8	18/7/2014 23:26	65.0	20/7/2014 0:31	63.1	21/7/2014 1:36	57.3	22/7/2014 2:41	56.0
16/7/2014 5:21	53.3	17/7/2014 6:26	59.5	18/7/2014 23:31	64.2	20/7/2014 0:36	63.1	21/7/2014 1:41	56.0	22/7/2014 2:46	55.0
16/7/2014 5:26	55.0	17/7/2014 6:31	61.1	18/7/2014 23:36	64.6	20/7/2014 0:41	63.3	21/7/2014 1:46	55.5	22/7/2014 2:51	55.3
16/7/2014 5:31	56.2	17/7/2014 6:36	60.8	18/7/2014 23:41	64.6	20/7/2014 0:46	63.2	21/7/2014 1:51	58.8	22/7/2014 2:56	54.5
16/7/2014 5:36	56.1	17/7/2014 6:41	61.7	18/7/2014 23:46	64.5	20/7/2014 0:51	62.6	21/7/2014 1:56	57.8	22/7/2014 3:01	55.2

Real-time Noise Data RTN2a (Hong Kong Electric Centre)

22/7/2014 3:06	54.9	23/7/2014 4:11	53.5	24/7/2014 5:16	55.8	25/7/2014 6:21	60.9	26/7/2014 23:26	64.2
22/7/2014 3:11	50.7	23/7/2014 4:16	52.8	24/7/2014 5:21	54.3	25/7/2014 6:26	61.0	26/7/2014 23:31	63.7
22/7/2014 3:16	50.9	23/7/2014 4:21	51.0	24/7/2014 5:26	56.1	25/7/2014 6:31	62.3	26/7/2014 23:36	63.6
22/7/2014 3:21	53.7	23/7/2014 4:26	53.2	24/7/2014 5:31	56.9	25/7/2014 6:36	61.9	26/7/2014 23:41	63.6
22/7/2014 3:26	53.0	23/7/2014 4:31	51.2	24/7/2014 5:36	56.6	25/7/2014 6:41	61.5	26/7/2014 23:46	63.7
22/7/2014 3:31	51.5	23/7/2014 4:36	52.0	24/7/2014 5:41	57.3	25/7/2014 6:46	62.2	26/7/2014 23:51	63.8
22/7/2014 3:36	52.4	23/7/2014 4:41	53.1	24/7/2014 5:46	56.7	25/7/2014 6:51	62.5	26/7/2014 23:56	64.3
22/7/2014 3:41	53.0	23/7/2014 4:46	54.0	24/7/2014 5:51	57.3	25/7/2014 6:56	62.6	27/7/2014 0:01	63.9
22/7/2014 3:46	52.2	23/7/2014 4:51	55.9	24/7/2014 5:56	57.4	25/7/2014 23:01	63.5	27/7/2014 0:06	63.4
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22/7/2014 3:56	47.1	23/7/2014 5:01	55.5	24/7/2014 6:06	57.5	25/7/2014 23:11	64.3	27/7/2014 0:16	64.0
22/7/2014 4:01	51.9	23/7/2014 5:06	56.8	24/7/2014 6:11	58.8	25/7/2014 23:16	63.9	27/7/2014 0:21	63.0
22/7/2014 4:06	54.6	23/7/2014 5:11	55.1	24/7/2014 6:16	60.0	25/7/2014 23:21	63.6	27/7/2014 0:26	62.8
22/7/2014 4:11	51.1	23/7/2014 5:16	56.4	24/7/2014 6:21	59.5	25/7/2014 23:26	63.7	27/7/2014 0:31	62.2
22/7/2014 4:16	51.6	23/7/2014 5:21	56.9	24/7/2014 6:26	60.3	25/7/2014 23:31	63.7	27/7/2014 0:36	61.7
22/7/2014 4:21	49.8	23/7/2014 5:26	56.2	24/7/2014 6:31	60.6	25/7/2014 23:36	63.1	27/7/2014 0:41	62.0
22/7/2014 4:26	47.8	23/7/2014 5:31	57.7	24/7/2014 6:36	61.2	25/7/2014 23:41	63.6	27/7/2014 0:46	62.5
22/7/2014 4:31	50.2	23/7/2014 5:36	56.5	24/7/2014 6:41	61.5	25/7/2014 23:46	63.0	27/7/2014 0:51	63.0
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22/7/2014 4:46	50.9	23/7/2014 5:51	57.4	24/7/2014 6:56	62.8	26/7/2014 0:01	63.4	27/7/2014 1:06	61.9
22/7/2014 4:51	52.0	23/7/2014 5:56	58.9	24/7/2014 23:01	64.4	26/7/2014 0:06	63.0	27/7/2014 1:11	61.8
22/7/2014 4:56	47.8	23/7/2014 6:01	58.5	24/7/2014 23:06	64.4	26/7/2014 0:11	62.8	27/7/2014 1:16	60.9
22/7/2014 5:01	49.2	23/7/2014 6:06	60.0	24/7/2014 23:11	63.8	26/7/2014 0:16	63.4	27/7/2014 1:21	61.7
22/7/2014 5:06	54.5	23/7/2014 6:11	60.0	24/7/2014 23:16	63.8	26/7/2014 0:21	62.8	27/7/2014 1:26	61.1
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22/7/2014 5:31	54.5	23/7/2014 6:36	62.0	24/7/2014 23:41	63.2	26/7/2014 0:46	62.9	27/7/2014 1:51	60.5
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22/7/2014 5:46	58.1	23/7/2014 6:51	63.3	24/7/2014 23:56	62.3	26/7/2014 1:01	62.0	27/7/2014 2:06	59.6
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22/7/2014 6:01	56.6	23/7/2014 23:06	63.3	25/7/2014 0:11	63.0	26/7/2014 1:16	61.6	27/7/2014 2:21	60.7
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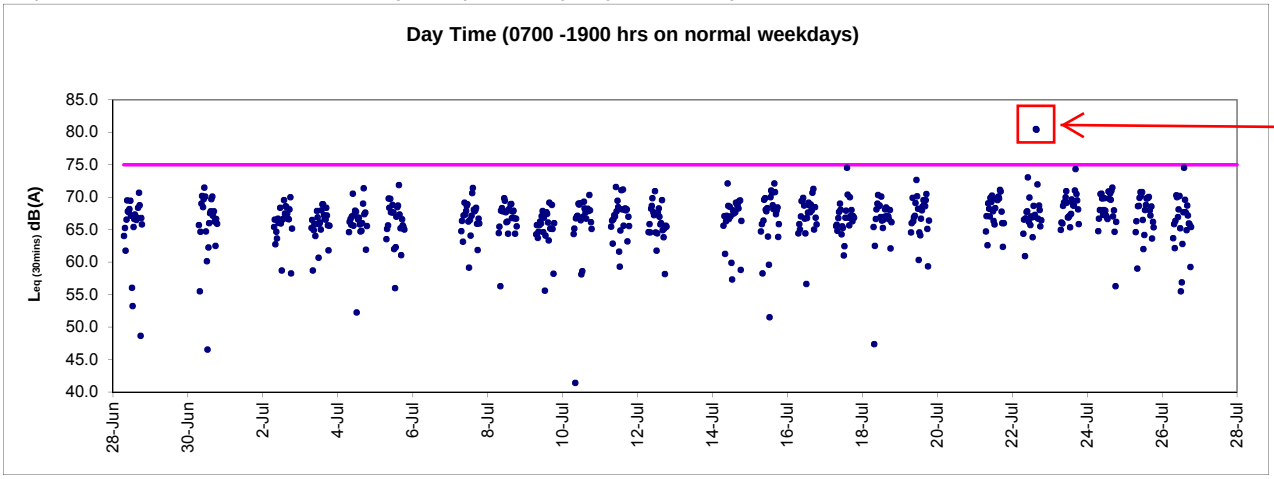
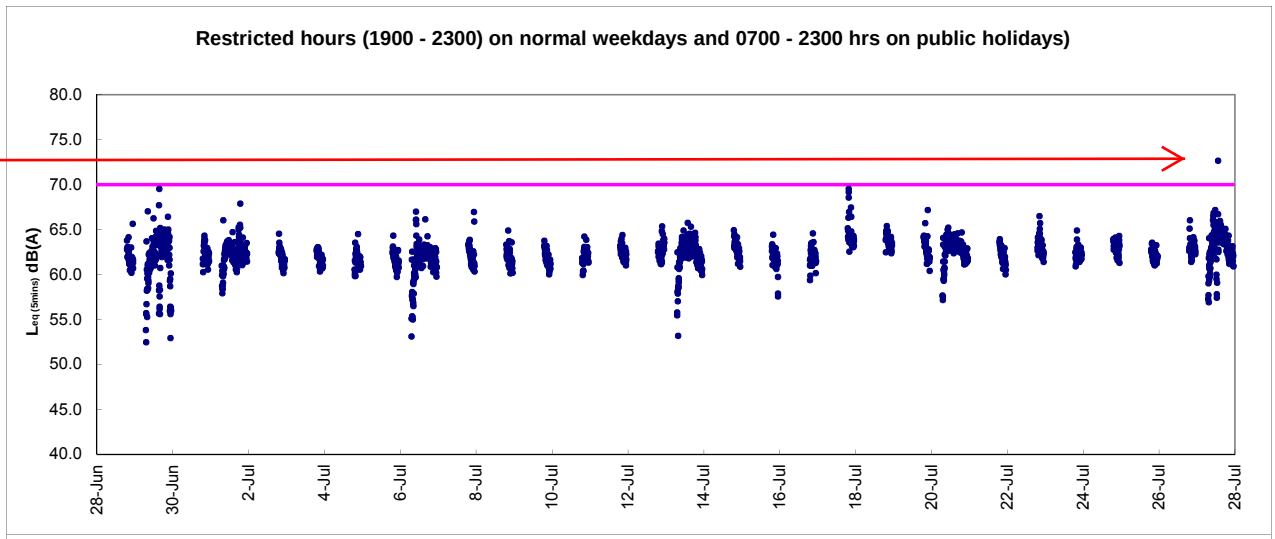
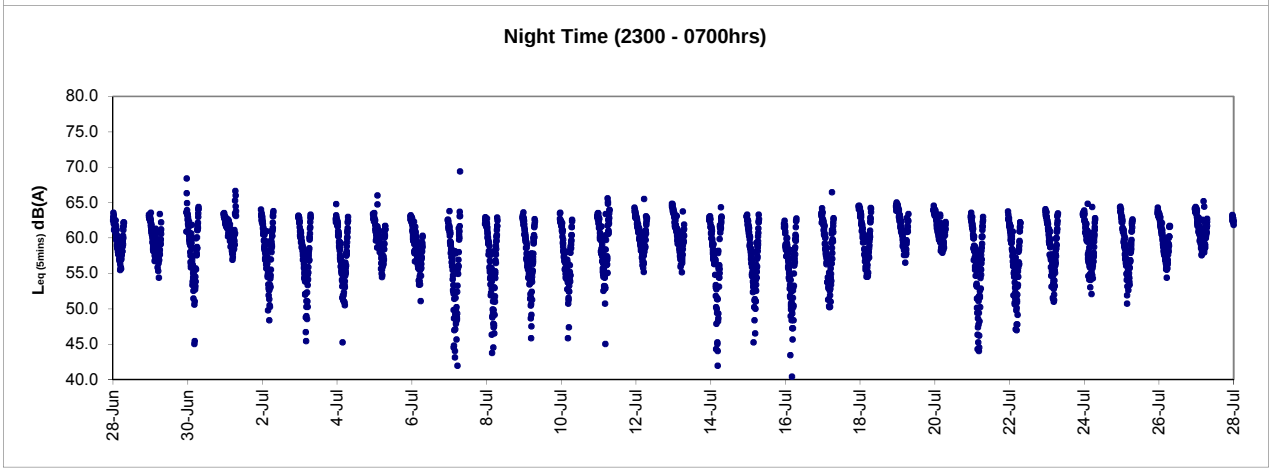
23/7/2014 0:46	61.2	24/7/2014 1:51	59.9	25/7/2014 2:56	56.3	26/7/2014 4:01	56.9	27/7/2014 5:06	64.4
23/7/2014 0:51	61.2	24/7/2014 1:56	61.1	25/7/2014 3:01	54.9	26/7/2014 4:06	57.9	27/7/2014 5:11	62.2
23/7/2014 0:56	61.1	24/7/2014 2:01	60.9	25/7/2014 3:06	56.1	26/7/2014 4:11	57.1	27/7/2014 5:16	59.9
23/7/2014 1:01	60.5	24/7/2014 2:06	59.5	25/7/2014 3:11	56.2	26/7/2014 4:16	56.5	27/7/2014 5:21	58.7
23/7/2014 1:06	61.3	24/7/2014 2:11	64.9	25/7/2014 3:16	54.1	26/7/2014 4:21	56.9	27/7/2014 5:26	59.2
23/7/2014 1:11	60.1	24/7/2014 2:16	57.8	25/7/2014 3:21	51.9	26/7/2014 4:26	56.9	27/7/2014 5:31	60.1
23/7/2014 1:16	61.3	24/7/2014 2:21	57.1	25/7/2014 3:26	56.2	26/7/2014 4:31	55.6	27/7/2014 5:36	58.7
23/7/2014 1:21	59.5	24/7/2014 2:26	57.6	25/7/2014 3:31	50.7	26/7/2014 4:36	56.3	27/7/2014 5:41	59.0
23/7/2014 1:26	59.9	24/7/2014 2:31	56.9	25/7/2014 3:36	53.2	26/7/2014 4:41	56.0	27/7/2014 5:46	60.4
23/7/2014 1:31	59.2	24/7/2014 2:36	54.6	25/7/2014 3:41	54.7	26/7/2014 4:46	55.6	27/7/2014 5:51	60.3
23/7/2014 1:36	59.3	24/7/2014 2:41	56.7	25/7/2014 3:46	54.9	26/7/2014 4:51	54.4	27/7/2014 5:56	60.1
23/7/2014 1:41	59.3	24/7/2014 2:46	56.6	25/7/2014 3:51	54.9	26/7/2014 4:56	55.5	27/7/2014 6:01	60.2
23/7/2014 1:46	57.7	24/7/2014 2:51	58.1	25/7/2014 3:56	55.2	26/7/2014 5:01	57.2	27/7/2014 6:06	60.0
23/7/2014 1:51	59.9	24/7/2014 2:56	56.6	25/7/2014 4:01	55.1	26/7/2014 5:06	56.2	27/7/2014 6:11	60.8
23/7/2014 1:56	59.6	24/7/2014 3:01	57.1	25/7/2014 4:06	55.6	26/7/2014 5:11	56.3	27/7/2014 6:16	60.4
23/7/2014 2:01	58.8	24/7/2014 3:06	58.6	25/7/2014 4:11	52.6	26/7/2014 5:16	56.3	27/7/2014 6:21	60.9
23/7/2014 2:06	60.9	24/7/2014 3:11	56.4	25/7/2014 4:16	53.2	26/7/2014 5:21	56.8	27/7/2014 6:26	60.7
23/7/2014 2:11	58.7	24/7/2014 3:16	54.1	25/7/2014 4:21	54.0	26/7/2014 5:26	55.7	27/7/2014 6:31	60.8
23/7/2014 2:16	57.4	24/7/2014 3:21	56.1	25/7/2014 4:26	55.9	26/7/2014 5:31	56.9	27/7/2014 6:36	62.1
23/7/2014 2:21	58.9	24/7/2014 3:26	60.0	25/7/2014 4:31	54.5	26/7/2014 5:36	56.5	27/7/2014 6:41	61.4
23/7/2014 2:26	56.9	24/7/2014 3:31	54.9	25/7/2014 4:36	55.0	26/7/2014 5:41	58.3	27/7/2014 6:46	61.8
23/7/2014 2:31	55.9	24/7/2014 3:36	55.8	25/7/2014 4:41	54.2	26/7/2014 5:46	57.7	27/7/2014 6:51	62.7
23/7/2014 2:36	57.2	24/7/2014 3:41	56.1	25/7/2014 4:46	53.9	26/7/2014 5:51	58.6	27/7/2014 6:56	62.3
23/7/2014 2:41	54.7	24/7/2014 3:46	53.0	25/7/2014 4:51	54.4	26/7/2014 5:56	59.3	27/7/2014 23:01	63.3
23/7/2014 2:46	57.1	24/7/2014 3:51	54.5	25/7/2014 4:56	53.8	26/7/2014 6:01	58.6	27/7/2014 23:06	62.6
23/7/2014 2:51	57.4	24/7/2014 3:56	56.3	25/7/2014 5:01	55.8	26/7/2014 6:06	58.1	27/7/2014 23:11	62.9
23/7/2014 2:56	57.1	24/7/2014 4:01	56.4	25/7/2014 5:06	55.8	26/7/2014 6:11	60.0	27/7/2014 23:16	62.4
23/7/2014 3:01	53.2	24/7/2014 4:06	54.1	25/7/2014 5:11	53.4	26/7/2014 6:16	59.1	27/7/2014 23:21	63.1
23/7/2014 3:06	57.7	24/7/2014 4:11	57.4	25/7/2014 5:16	56.8	26/7/2014 6:21	58.9	27/7/2014 23:26	62.8
23/7/2014 3:11	55.3	24/7/2014 4:16	56.8	25/7/2014 5:21	56.6	26/7/2014 6:26	60.2	27/7/2014 23:31	62.4
23/7/2014 3:16	54.6	24/7/2014 4:21	56.3	25/7/2014 5:26	56.7	26/7/2014 6:31	60.2	27/7/2014 23:36	62.8
23/7/2014 3:21	54.9	24/7/2014 4:26	54.6	25/7/2014 5:31	58.0	26/7/2014 6:36	60.2	27/7/2014 23:41	62.4
23/7/2014 3:26	56.5	24/7/2014 4:31	56.2	25/7/2014 5:36	56.9	26/7/2014 6:41	61.6	27/7/2014 23:46	62.2
23/7/2014 3:31	56.3	24/7/2014 4:36	55.2	25/7/2014 5:41	59.3	26/7/2014 6:46	61.6	27/7/2014 23:51	62.4
23/7/2014 3:36	57.6	24/7/2014 4:41	52.1	25/7/2014 5:46	58.0	26/7/2014 6:51	61.7	27/7/2014 23:56	61.9
23/7/2014 3:41	55.8	24/7/2014 4:46	54.8	25/7/2014 5:51	58.2	26/7/2014 6:56	61.7		
23/7/2014 3:46	51.5	24/7/2014 4:51	60.7	25/7/2014 5:56	58.4	26/7/2014 23:01	64.1		
23/7/2014 3:51	54.7	24/7/2014 4:56	56.3	25/7/2014 6:01	59.0	26/7/2014 23:06	64.2		
23/7/2014 3:56	53.5	24/7/2014 5:01	54.8	25/7/2014 6:06	58.5	26/7/2014 23:11	63.7		
23/7/2014 4:01	51.4	24/7/2014 5:06	64.4	25/7/2014 6:11	59.3	26/7/2014 23:16	63.9		
23/7/2014 4:06	54.0	24/7/2014 5:11	59.2	25/7/2014 6:16	59.7	26/7/2014 23:21	64.4		

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







After checking with contractor HY/2009/19, no despite socket H piling works was conducted, contractor mitigation measures including erection of temporary noise barrier was in place .The exceedances were considered to be contributed by the adverse weather condition during the hoisting period of rainstorm Warning Signal and thunder warning signal and not related to Projects

After checking with contractor HY/2009/19, no construction activity was conducted at the concerned location during the recorded period. As such, the exceedance was considered to be contributed by nearby IEC traffic and not related to Project.

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	Tidal	Location	Depth	Parameters	Measured	Action	Limit Level	Follow-up action	
X_10D437	7-Jul-14	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	1.15	3.19	3.10	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. No marine works was conducted during the time of monitoring on 07 July 2014 at Ex-WPCWA. In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works. DO level was restored to normal level during subsequent monitoring on 09 July 2014 during flood tide.
X_10D438	7-Jul-14	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	1.13	3.55	3.00	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the accumulation of organic particles discharged from culvert near monitoring station. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. No marine works was conducted during the time of monitoring on 07 July 2014 at Ex-WPCWA. In view that there was no marine activities at ex-WPCWA, it was considered not related to Project works. DO level was restored to normal level during subsequent monitoring on 09 July 2014 during flood tide.
X_10D439	14-Jul-14	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	1.90	3.19	3.10	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 14 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 14 July 2014 during ebb tide.
X_10D440	14-Jul-14	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.50	3.55	3.00	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 14 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 14 July 2014 during ebb tide.

Ref no.	Date	Tidal	Location	Depth	Parameters	Measured	Action	Limit Level	Follow-up action	
X_10D441	21-Jul-14	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	2.35	3.19	3.10	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 21 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 23 July 2014 during ebb tide.
X_10D442	21-Jul-14	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	2.66	3.55	3.00	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 21 July 2013 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 23 July 2014 during ebb tide.
X_10D443	25-Jul-14	Mid-Flood	Ex-WPCWA SW	Middle	DO(mg/l)	1.05	3.19	3.10	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 25 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 28 July 2014 during ebb tide.
X_10D444	25-Jul-14	Mid-Flood	Ex-WPCWA SE	Middle	DO(mg/l)	1.10	3.55	3.00	Possible reason: Action taken/ to be taken: Remarks/ Other Obs:	Possible in relation to the upstream organic discharge. Repeated the measurement to confirm the result. No odour nuisance was noted during the DO monitoring. Checked with Contractor works. Despite temporary reclamation removal work was conducted during on monitoring date on 25 July 2014 at Ex-WPCWA, Contractor mitigation measures including use of silt curtain was in place and effective. In addition, upstream discharge at the concerned location were reguarly observed. In view of the exceedance was not continuous, it was considered the exceedance was not related to Project. DO level was restored to normal level during subsequent monitoring on 28 July 2014 during ebb tide.

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

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					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
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	1) WSII RSS team notified ET on 12 June 2014; Notification letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014. 2) ET confirmed with RSS that neither marine construction works nor barge operation was conducted at the concerned location during the time of complaint. With respect to the complaint case, muddy dispersion was observed at HKCEC2W works area on 12 June 2014, and	Interim Report was submitted to EPD on 20 June 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. 3) It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint case was submitted to EPA via email on 18 June 2014.	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	1) Construction noise impact referred by RSS was received by ET on 25 July 2014 2) ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. 3) According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period 4) It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of PME during the course of work which affect the duration of works.	

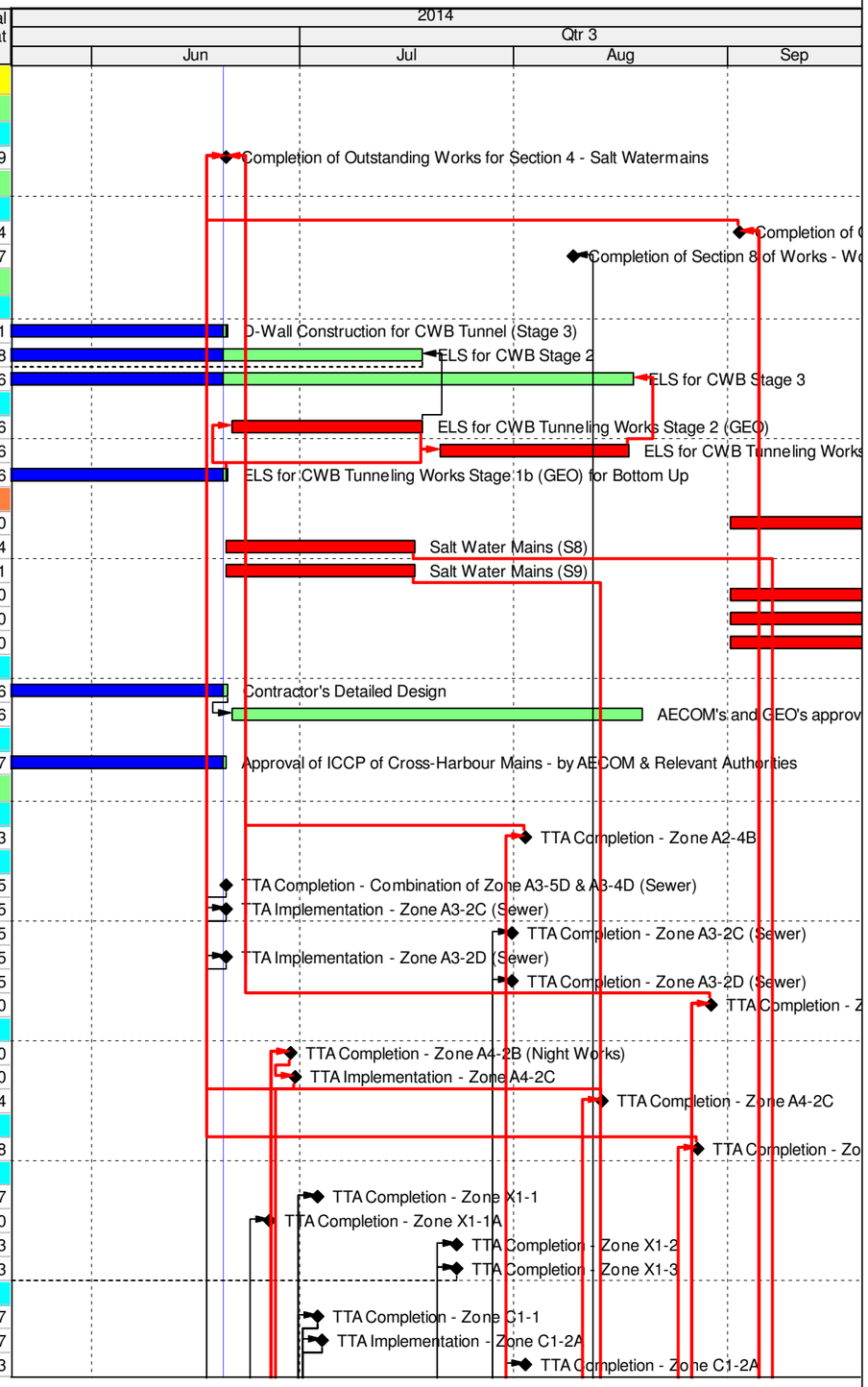
Appendix 10.1

Construction Programme of Individual Contracts

CEDD CONTRACT HK/2009/01

CHUN WO - LEADER JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	% Comp	Total Float
HK/2009/01 - Works Programme Rev.6D (Data Date: 20-Jun-14)							
Key Dates (Contractual)							
Major Works							
KD-0400B	Completion of Outstanding Works for Section 4 - Salt Watermains	0	0		20-Jun-14*	0%	-629
Key Dates (Forecast Completion)							
Major Works							
KD-0405B	Completion of Outstanding Works for Section 4 - Salt Watermains & Works in Area 3	0	0		02-Sep-14	0%	-704
KD-0805	Completion of Section 8 of Works - Works in Area 6	0	0		09-Aug-14	0%	87
Preliminaries							
Method Statement & Design (Major) Approval by AECOM							
PRE-2000G	D-Wall Construction for CWB Tunnel (Stage 3)	60	1	05-Nov-13 A	20-Jun-14*	0%	-181
PRE-2030B	ELS for CWB Stage 2	30	1	20-Mar-14 A	18-Jul-14	0%	758
PRE-2030C	ELS for CWB Stage 3	30	0	19-Apr-14 A	18-Aug-14	100%	-156
Statutory / Authority Approval							
PRE-3050B	ELS for CWB Tunneling Works Stage 2 (GEO)	28	28	21-Jun-14*	18-Jul-14	0%	-376
PRE-3050C	ELS for CWB Tunneling Works Stage 3 (GEO)	28	28	21-Jul-14	17-Aug-14	0%	-156
PRE-3050D	ELS for CWB Tunneling Works Stage 1b (GEO) for Bottom Up	28	1	20-Apr-11 A	20-Jun-14	0%	-376
Watermains Connection Submission Approval by WSD/Stakeholders							
PRE-3200C	Salt Water Mains (S3)	28	28	01-Sep-14*	28-Sep-14	0%	0
PRE-3200D	Salt Water Mains (S8)	28	28	20-Jun-14*	17-Jul-14	0%	-384
PRE-3200E	Salt Water Mains (S9)	28	28	20-Jun-14*	17-Jul-14	0%	-671
PRE-3200O	Cooling Watermains (BF)	28	28	01-Sep-14*	28-Sep-14	0%	0
PRE-3200P	Cooling Watermains (BG)	28	28	01-Sep-14*	28-Sep-14	0%	0
PRE-3200Q	Cooling Watermains (BI)	28	28	01-Sep-14*	28-Sep-14	0%	0
Contractor's Design (CWB Diaphragm Wall)							
PRE-4020	Contractor's Detailed Design	30	1	09-Jul-11 A	20-Jun-14	40%	726
PRE-4030	AECOM's and GEO's approval on Detailed Design	60	60	21-Jun-14	19-Aug-14	0%	726
Contractor's Design (PS1.94)							
PRE-5100C	Approval of ICCP of Cross-Harbour Mains - by AECOM & Relevant Authorities	28	0	04-Mar-11 A	20-Jun-14	100%	787
TTA Implementation and Completion Summary Milestone							
Zone A2 (At Convention Avenue)							
TTAM-A2-1040D	TTA Completion - Zone A2-4B	0	0		02-Aug-14	0%	-673
Zone A3 (At Fenwick Pier Street)							
AA1030	TTA Completion - Combination of Zone A3-5D & A3-4D (Sewer)	0	0		20-Jun-14	0%	85
AA1040	TTA Implementation - Zone A3-2C (Sewer)	0	0	20-Jun-14*		0%	85
AA1050	TTA Completion - Zone A3-2C (Sewer)	0	0		31-Jul-14	0%	745
AA1060	TTA Implementation - Zone A3-2D (Sewer)	0	0	20-Jun-14		0%	85
AA1070	TTA Completion - Zone A3-2D (Sewer)	0	0		31-Jul-14	0%	745
TTAM-A3-1090B	TTA Completion - Zone A3-5C - Salt Water	0	0		29-Aug-14	0%	-700
Zone A4 (At Convention Avenue)							
TTAM-A4-1020D	TTA Completion - Zone A4-2B (Night Works)	0	0		29-Jun-14	0%	-690
TTAM-A4-1120A	TTA Implementation - Zone A4-2C	0	0	30-Jun-14		0%	-690
TTAM-A4-1120B	TTA Completion - Zone A4-2C	0	0		13-Aug-14	0%	-684
Zone A5 (At Harbour Road)							
TTAM-A5-1050B	TTA Completion - Zone A5-6	0	0		27-Aug-14	0%	-698
Area X3 (Fleming Road b/w Harbour Road & Convention Avenue)							
TTAM-X3-1000B	TTA Completion - Zone X1-1	0	0		03-Jul-14	0%	107
TTAM-X3-1000D	TTA Completion - Zone X1-1A	0	0		26-Jun-14	0%	780
TTAM-X3-1010B	TTA Completion - Zone X1-2	0	0		23-Jul-14	0%	753
TTAM-X3-1020B	TTA Completion - Zone X1-3	0	0		23-Jul-14	0%	753
Zone C (Expo Drive East)							
TTAM-C1-1000B	TTA Completion - Zone C1-1	0	0		03-Jul-14	0%	27
TTAM-C1-1010C	TTA Implementation - Zone C1-2A	0	0	04-Jul-14		0%	27
TTAM-C1-1010D	TTA Completion - Zone C1-2A	0	0		02-Aug-14	0%	743



Remaining Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone
Summary Bar

CEDD CONTRACT NO. HK/2009/01

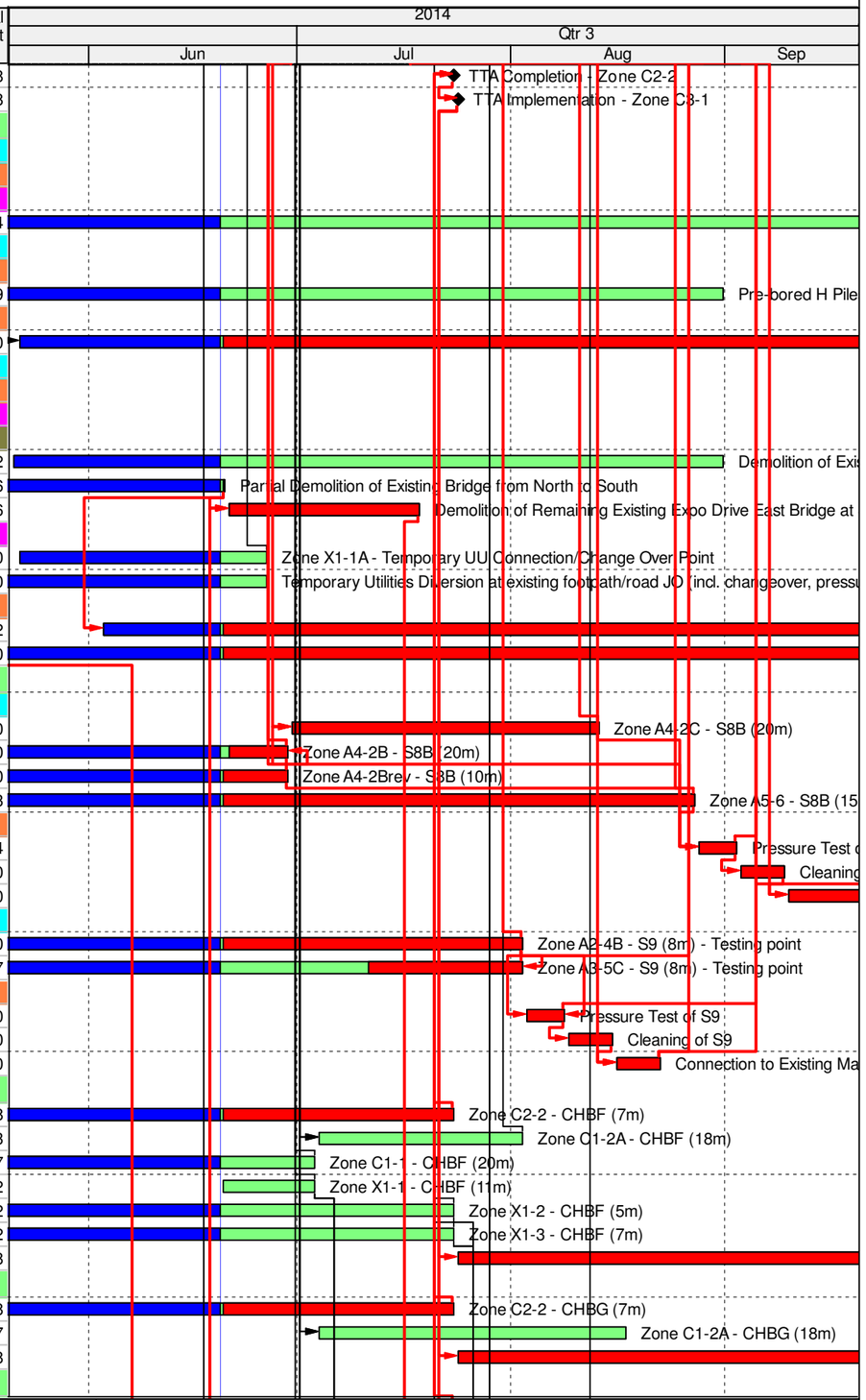
Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)

WORKS PROGRAMME Rev.6C - 3 Month Programme starting from 20-Jun-14

CEDD CONTRACT HK/2009/01

CHUN WO - LEADER JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	% Comp	Total Float
TTAM-C2-1100B	TTA Completion - Zone C2-2	0	0		23-Jul-14	0%	-8
TTAM-C3-1000A	TTA Implementation - Zone C3-1	0	0	24-Jul-14		0%	-8
Section 3 of the Works - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8							
CWB Tunnelling Works (Stage 1 : CH2947 - CH3045)							
Stage 1 - Tunnel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)							
Tunnel Structure at Stage 1A & 1B (CH2947 - CH3045)							
S3A-TS-2000	Tunnel Structures Works including Waterproofing and OHVD	300	191	28-Feb-14 A	27-Dec-14	0%	224
CWB Tunnelling Works (Stage 2 : Ch3045 - Ch3129)							
Stage 2 - Foundation Works (Bottom Up Method : CH3045 - CH3129 / CH120 - CH225)							
S3B-FW-1060B	Pre-bored H Piles for CWB (38 Piles w/ 1 piling rig) - 4th row & ED	90	73	27-Jan-14 A	31-Aug-14	0%	679
Stage 2 - Excavation Works (For Bottom Slab Construction : CH3045 - CH3129)							
S3B-EW-1020	Excavate to -3.0 mPD for installation of waling/strut at +1.5mPD & -2.0 mPD (30,000 cu.m)	185	156	22-May-14 A	22-Nov-14	0%	-130
CWB Tunnelling Works (Stage 3 : Ch3129 - Ch3245)							
Stage 3 - Reclamation Works							
Demolition Works							
Demolition Works - Stage 3							
DW3-1000	Demolition of Existing 10nos. Pump Houses along Convention Avenue	90	73	21-May-14 A	31-Aug-14	18.89%	372
DW3-1015	Partial Demolition of Existing Bridge from North to South	60	1	02-May-14 A	20-Jun-14	0%	-236
DW3-1020	Demolition of Remaining Existing Expo Drive East Bridge at Southern Bound	28	28	21-Jun-14	18-Jul-14	0%	-236
Expo Drive East (Diversion and Reprovision)							
AA1150	Zone X1-1A - Temporary UU Connection/Change Over Point	60	7	22-May-14 A	26-Jun-14	0%	780
EDE-1040	Temporary Utilities Diversion at existing footpath/road JO (incl. changeover, pressure test and	60	7	22-Apr-14 A	26-Jun-14	0%	780
Stage 3 - Foundation Works							
S3C-FW-1040B	Remaining Stage 3 D- wall Construction for CWB (34 panels) - including adv. work & remova	96	96	03-Jun-14 A	23-Sep-14	0%	-202
S3C-FW-1050E	Stage 3 Pre-bored H-pile for CWB - 179 piles w/2 ~ 4 piling rigs) incl piles for culvert & loadi	253	213	02-May-14 A	18-Jan-15	0%	-310
Section 4 of the Works - Salt Water Mains, Works in Area 3							
S8B (DN800) Salt Watermains							
S4-1000	Zone A4-2C - S8B (20m)	45	45	30-Jun-14	13-Aug-14	0%	-690
S4-1010C	Zone A4-2B - S8B (20m)	48	9	07-Oct-13 A	29-Jun-14	0%	-690
S4-1010D	Zone A4-2Brev - S8B (10m)	21	10	14-Mar-14 A	29-Jun-14	0%	-690
S4-1100	Zone A5-6 - S8B (15m)	25	58	09-Jan-14 A	27-Aug-14	100%	-563
Testing and Commissioning							
S4-1500	Pressure Test of S8B	6	6	28-Aug-14	02-Sep-14	0%	-704
S4-1510	Cleaning of S8B	7	7	03-Sep-14	09-Sep-14	0%	-360
S4-1520	Connection to Existing Mains (S8B)	14	14	10-Sep-14	23-Sep-14	0%	-360
S9 (DN450) Salt Watermains & Sewer							
S4-2080	Zone A2-4B - S9 (8m) - Testing point	24	37	04-Dec-13 A	02-Aug-14	0%	-560
S4-2120	Zone A3-5C - S9 (8m) - Testing point	14	20	16-Jul-13 A	02-Aug-14	0%	-537
Testing and Commissioning							
S4-2500	Pressure Test of S9	6	6	03-Aug-14	08-Aug-14	0%	-700
S4-2510	Cleaning of S9	7	7	09-Aug-14	15-Aug-14	0%	-700
S4-2520	Connection to Existing Mains (S9)	7	7	16-Aug-14	22-Aug-14	0%	-700
Section 6A of the Works - Cooling Water Discharge System (3 nos. Govt Towers)							
S6A-1000	Zone C2-2 - CHBF (7m)	45	34	20-Jan-14 A	23-Jul-14	0%	-8
S6A-1020A	Zone C1-2A - CHBF (18m)	30	30	04-Jul-14	02-Aug-14	0%	743
S6A-1030	Zone C1-1 - CHBF (20m)	21	14	21-Feb-14 A	03-Jul-14	0%	27
S6A-1200	Zone X1-1 - CHBF (11m)	24	14	20-Jun-14*	03-Jul-14	0%	72
S6A-1210	Zone X1-2 - CHBF (5m)	24	34	10-Mar-14 A	23-Jul-14	0%	52
S6A-1220	Zone X1-3 - CHBF (7m)	24	34	10-Mar-14 A	23-Jul-14	0%	52
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	60	24-Jul-14	21-Sep-14	0%	-8
Section 6B of the Works - Cooling Water Intake & Discharge System (Great Eagle / Harbour Centre)							
S6B-1000	Zone C2-2 - CHBG (7m)	45	34	20-Jan-14 A	23-Jul-14	0%	-8
S6B-1020A	Zone C1-2A - CHBG (18m)	30	45	04-Jul-14	17-Aug-14	0%	27
S6B-1220	Zone C3-1 - CHBG (16m) Test and Connection Point	60	60	24-Jul-14	21-Sep-14	0%	-8
Section 6C of the Works - Cooling Water Discharge System (China Resources Building)							



Remaining Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone
Summary Bar

CEDD CONTRACT NO. HK/2009/01

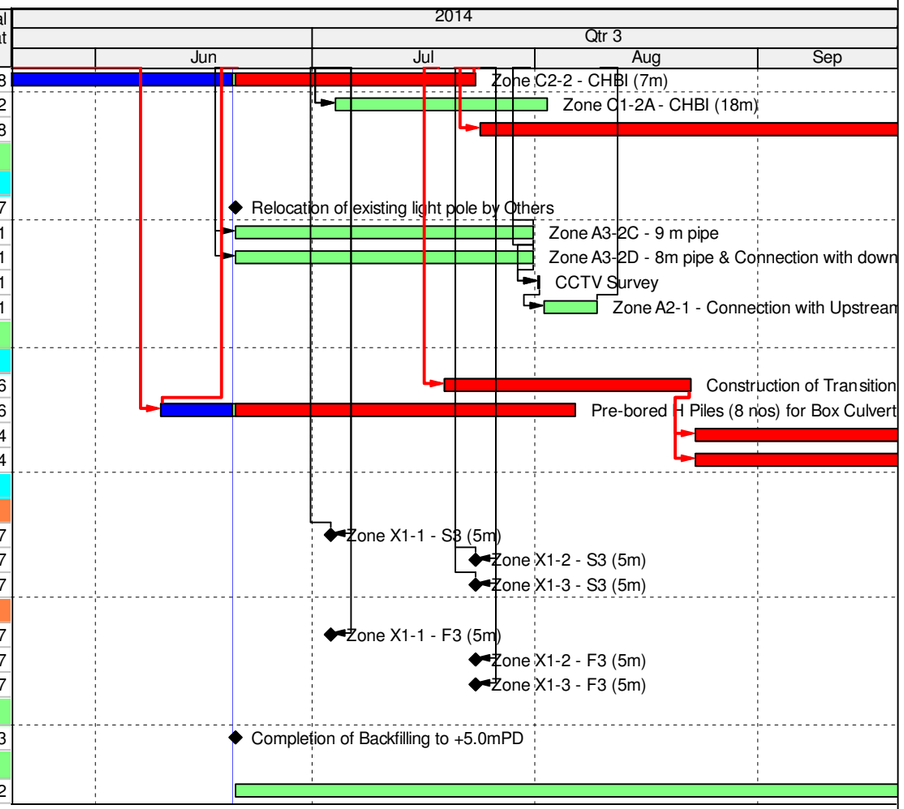
Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)

WORKS PROGRAMME Rev.6C - 3 Month Programme starting from 20-Jun-14

CEDD CONTRACT HK/2009/01

CHUN WO - LEADER JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	% Comp	Total Float
S6C-1000	Zone C2-2 - CHBI (7m)	45	34	20-Jan-14 A	23-Jul-14	100%	-8
S6C-1020A	Zone C1-2A - CHBI (18m)	30	30	04-Jul-14	02-Aug-14	0%	42
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Point	60	60	24-Jul-14	21-Sep-14	0%	-8
Section 8 of the Works - Works in Area 6 (Utilities other than Watermains in Fenwick Pier Street)							
Sewerage Works							
AA1170	Relocation of existing light pole by Others	0	0		20-Jun-14*	0%	787
S8-1040	Zone A3-2C - 9 m pipe	23	35	20-Jun-14	31-Jul-14	0%	71
S8-1050	Zone A3-2D - 8m pipe & Connection with downstream existing manhole	23	35	20-Jun-14	31-Jul-14	0%	71
S8-2500	CCTV Survey	1	1	01-Aug-14	01-Aug-14	0%	71
S8-3000	Zone A2-1 - Connection with Upstream Existing Manhole & Abandon Used Pipe	7	7	02-Aug-14	09-Aug-14	0%	71
Section 9 of the Works - Remaindar of the Works							
Box Culvert Construction							
S9-1030	Construction of Transition Chamber for Existing Box Culvert Diversion	30	30	19-Jul-14	22-Aug-14	0%	-186
S9-1040	Pre-bored H Piles (8 nos) for Box Culvert	40	40	10-Jun-14 A	06-Aug-14	0%	-186
S9-1040A	Installation of Sheet Pile for Bay7	45	45	23-Aug-14	06-Oct-14	0%	-234
S9-1040B	Installation of Sheet Pile for Bay 2	45	45	23-Aug-14	06-Oct-14	0%	-234
Waterworks in Area 9							
Salt Water Mains (S3, S5A & S5B)							
S9-5500A	Zone X1-1 - S3 (5m)	0	0		03-Jul-14	0%	107
S9-5500B	Zone X1-2 - S3 (5m)	0	0		23-Jul-14	0%	167
S9-5500C	Zone X1-3 - S3 (5m)	0	0		23-Jul-14	0%	167
Fresh Water Mains (F3)							
AA1180	Zone X1-1 - F3 (5m)	0	0		03-Jul-14	0%	187
AA1190	Zone X1-2 - F3 (5m)	0	0		23-Jul-14	0%	167
AA1200	Zone X1-3 - F3 (5m)	0	0		23-Jul-14	0%	167
Section 13 of the Works - Works in Area 11 (other than Section 11)							
S13-3000	Completion of Backfilling to +5.0mPD	0	0		20-Jun-14	0%	253
Section 9A of the Works - Landscape Softworks in Area 9							
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	180	20-Jun-14	16-Dec-14	0%	242



Remaining Work
Actual Work
Summary Bar
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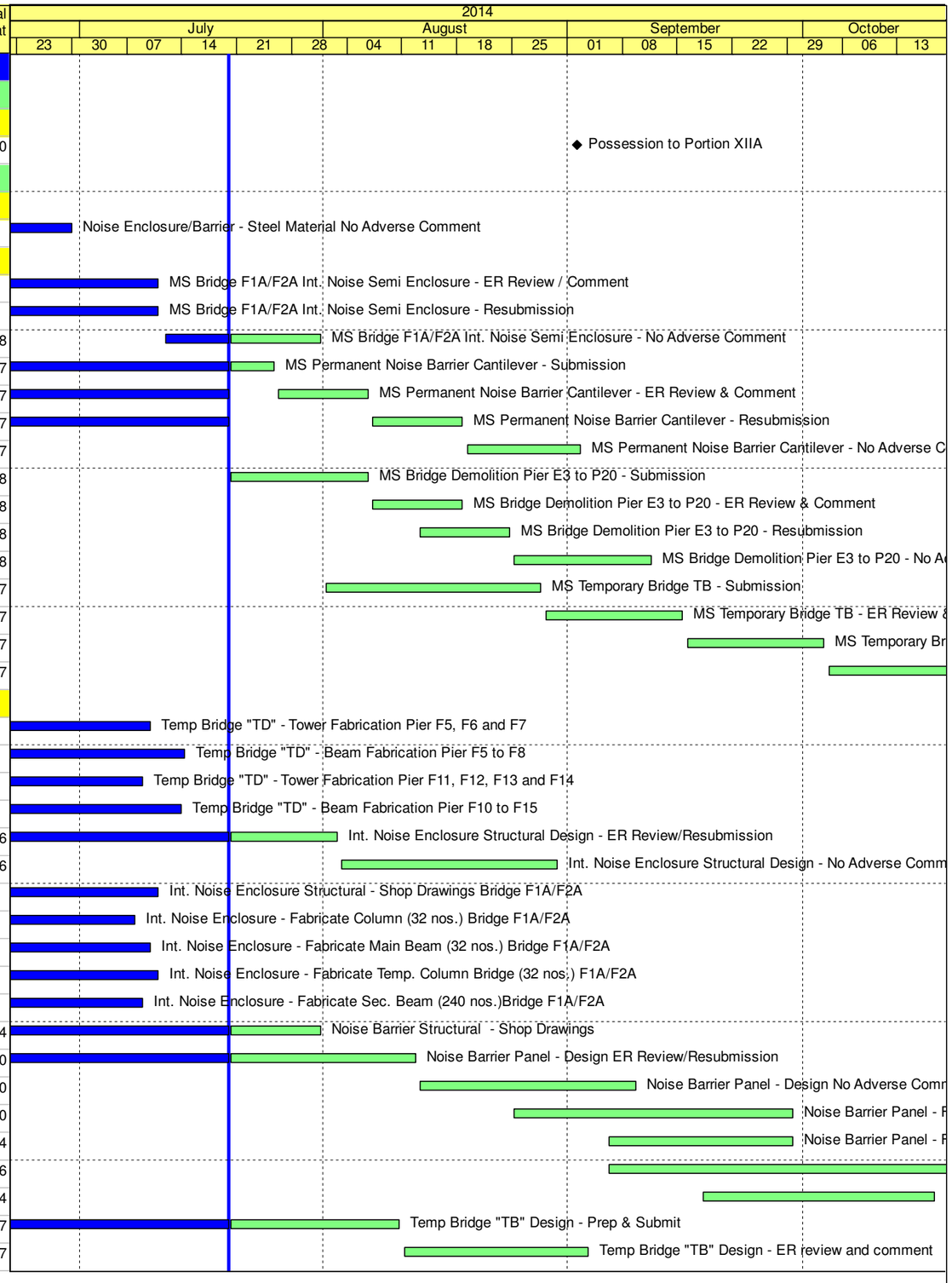
CEDD CONTRACT NO. HK/2009/01

Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)

WORKS PROGRAMME Rev.6C - 3 Month Programme starting from 20-Jun-14

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
3MRP - Jul 2014 to Oct 2014							
01 - CONTRACT DATES							
01.2 - Possession of Site							
0120-3300	Possession to Portion XIIA	0	02-Sep-14*		02-Sep-14		0
02 - PRE-CONSTRUCTION WORKS							
02.2 - Contractor's Submission							
0220-1580	Noise Enclosure/Barrier - Steel Material No Adverse Comment	0	02-Jun-14 A	30-Jun-14 A	11-Aug-19	11-Aug-19	
02.3 - Method Statement / Shop Drawings							
0230-1590	MS Bridge F1A/F2A Int. Noise Semi Enclosure - ER Review / Comment	0	26-May-14 A	11-Jul-14 A	30-Nov-15	30-Nov-15	
0230-1600	MS Bridge F1A/F2A Int. Noise Semi Enclosure - Resubmission	0	01-Jun-14 A	11-Jul-14 A	30-Nov-15	30-Nov-15	
0230-1610	MS Bridge F1A/F2A Int. Noise Semi Enclosure - No Adverse Comment	12	12-Jul-14 A	31-Jul-14	30-Nov-15	11-Dec-15	498
0230-1420	MS Permanent Noise Barrier Cantilever - Submission	6	10-Feb-14 A	25-Jul-14	26-Aug-14	31-Aug-14	37
0230-1430	MS Permanent Noise Barrier Cantilever - ER Review & Comment	12	26-May-14 A	06-Aug-14	01-Sep-14	12-Sep-14	37
0230-1440	MS Permanent Noise Barrier Cantilever - Resubmission	12	10-Jun-14 A	18-Aug-14	13-Sep-14	24-Sep-14	37
0230-1450	MS Permanent Noise Barrier Cantilever - No Adverse Comment	15	19-Aug-14	02-Sep-14	25-Sep-14	09-Oct-14	37
0230-1820	MS Bridge Demolition Pier E3 to P20 - Submission	18	20-Jul-14 A	06-Aug-14	28-Jul-14	14-Aug-14	8
0230-1830	MS Bridge Demolition Pier E3 to P20 - ER Review & Comment	12	07-Aug-14	18-Aug-14	15-Aug-14	26-Aug-14	8
0230-1840	MS Bridge Demolition Pier E3 to P20 - Resubmission	12	13-Aug-14	24-Aug-14	21-Aug-14	01-Sep-14	8
0230-1850	MS Bridge Demolition Pier E3 to P20 - No Adverse Comment	18	25-Aug-14	11-Sep-14	02-Sep-14	19-Sep-14	8
0230-1740	MS Temporary Bridge TB - Submission	28	01-Aug-14*	28-Aug-14	28-Aug-14	24-Sep-14	27
0230-1750	MS Temporary Bridge TB - ER Review & Comment	18	29-Aug-14	15-Sep-14	25-Sep-14	12-Oct-14	27
0230-1760	MS Temporary Bridge TB - Resubmission	18	16-Sep-14	03-Oct-14	13-Oct-14	30-Oct-14	27
0230-1770	MS Temporary Bridge TB - ER Approval	28	04-Oct-14	31-Oct-14	31-Oct-14	27-Nov-14	27
02.4 - Contractor's Design and Build Items							
0240-1046	Temp Bridge "TD" - Tower Fabrication Pier F5, F6 and F7	0	01-Jun-14 A	10-Jul-14 A	28-Jul-14	28-Jul-14	
0240-1047	Temp Bridge "TD" - Beam Fabrication Pier F5 to F8	0	01-Jun-14 A	14-Jul-14 A	19-Jul-14	19-Jul-14	
0240-1048	Temp Bridge "TD" - Tower Fabrication Pier F11, F12, F13 and F14	0	27-May-14 A	09-Jul-14 A	31-Jul-14	31-Jul-14	
0240-1049	Temp Bridge "TD" - Beam Fabrication Pier F10 to F15	0	24-May-14 A	14-Jul-14 A	31-Jul-14	31-Jul-14	
0240-1110	Int. Noise Enclosure Structural Design - ER Review/Resubmission	14	17-Jan-14 A	02-Aug-14	28-Nov-15	11-Dec-15	496
0240-1111	Int. Noise Enclosure Structural Design - No Adverse Comment	28	03-Aug-14	30-Aug-14	12-Dec-15	08-Jan-16	496
0240-1113	Int. Noise Enclosure Structural - Shop Drawings Bridge F1A/F2A	0	02-Jan-14 A	11-Jul-14 A	03-Sep-14	03-Sep-14	
0240-1115	Int. Noise Enclosure - Fabricate Column (32 nos.) Bridge F1A/F2A	0	14-Apr-14 A	08-Jul-14 A	03-Sep-14	03-Sep-14	
0240-1116	Int. Noise Enclosure - Fabricate Main Beam (32 nos.) Bridge F1A/F2A	0	14-Apr-14 A	10-Jul-14 A	03-Sep-14	03-Sep-14	
0240-1117	Int. Noise Enclosure - Fabricate Temp. Column Bridge (32 nos.) F1A/F2A	0	14-Apr-14 A	11-Jul-14 A	03-Sep-14	03-Sep-14	
0240-1118	Int. Noise Enclosure - Fabricate Sec. Beam (240 nos.)Bridge F1A/F2A	0	14-Apr-14 A	09-Jul-14 A	03-Sep-14	03-Sep-14	
0240-1132	Noise Barrier Structural - Shop Drawings	12	21-Mar-14 A	31-Jul-14	23-Aug-14	03-Sep-14	34
0240-1136	Noise Barrier Panel - Design ER Review/Resubmission	24	01-Mar-14 A	12-Aug-14	30-Jul-14	22-Aug-14	10
0240-1137	Noise Barrier Panel - Design No Adverse Comment	28	13-Aug-14	09-Sep-14	23-Aug-14	19-Sep-14	10
0240-1141	Noise Barrier Panel - Fabricate Type C Column (77 nos.)	36	25-Aug-14	29-Sep-14	04-Sep-14	09-Oct-14	10
0240-1142	Noise Barrier Panel - Fabricate Type B Column (25 nos.)	24	06-Sep-14	29-Sep-14	10-Oct-14	02-Nov-14	34
0240-1429	Noise Barrier Panel - Fabricate Beams (203 nos.)	48	06-Sep-14	23-Oct-14	22-Sep-14	08-Nov-14	16
0240-1143	Noise Barrier Panel - Fabricate Type A Column (38 nos.)	30	18-Sep-14	17-Oct-14	22-Oct-14	20-Nov-14	34
0240-1050	Temp Bridge "TB" Design - Prep & Submit	22	21-Feb-14 A	10-Aug-14	27-Jul-14	17-Aug-14	7
0240-1060	Temp Bridge "TB" Design - ER review and comment	24	13-Aug-14 A	03-Sep-14	18-Aug-14	10-Sep-14	7

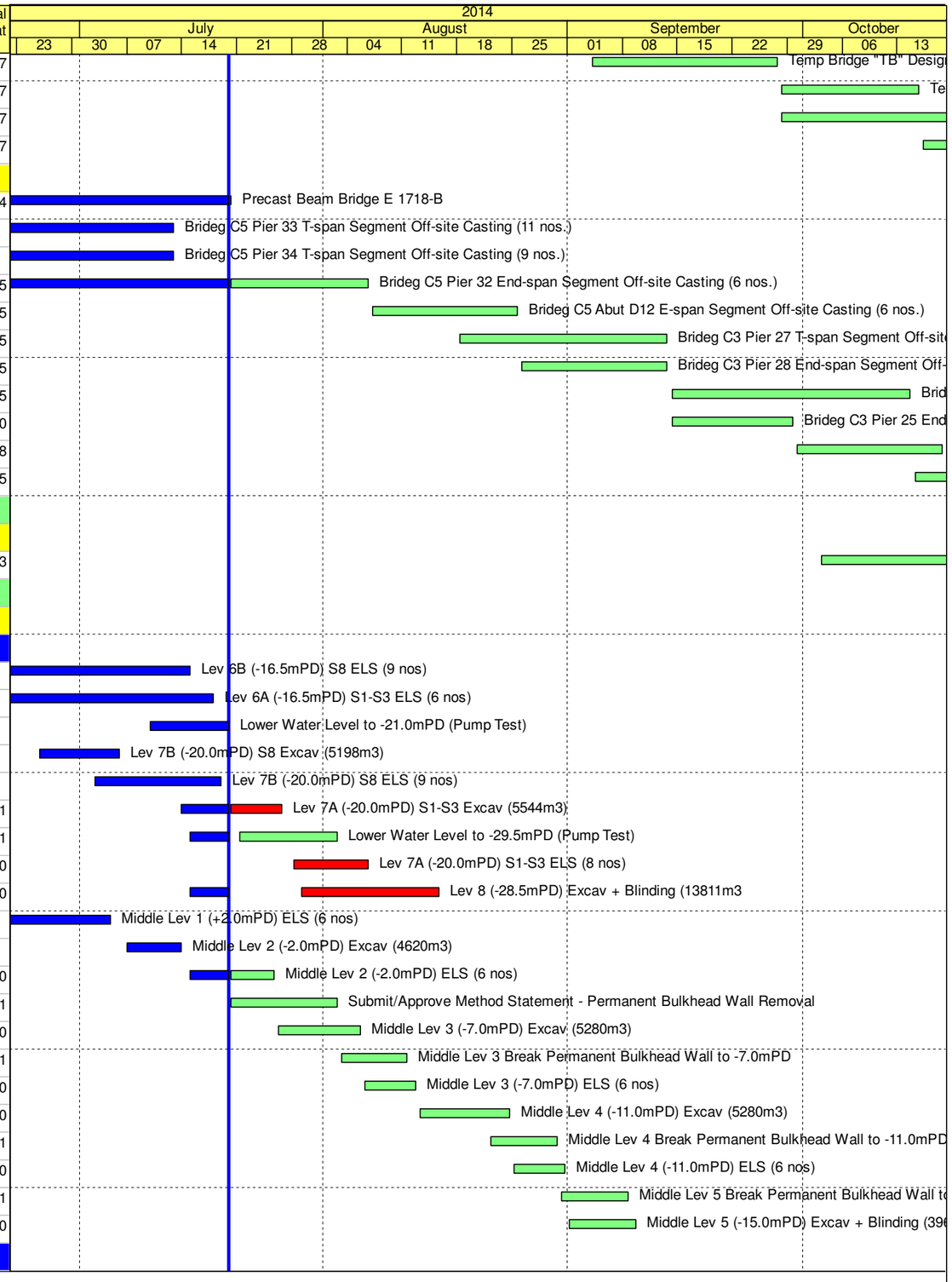


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
◆ Milestone

Contract HY/2009/19

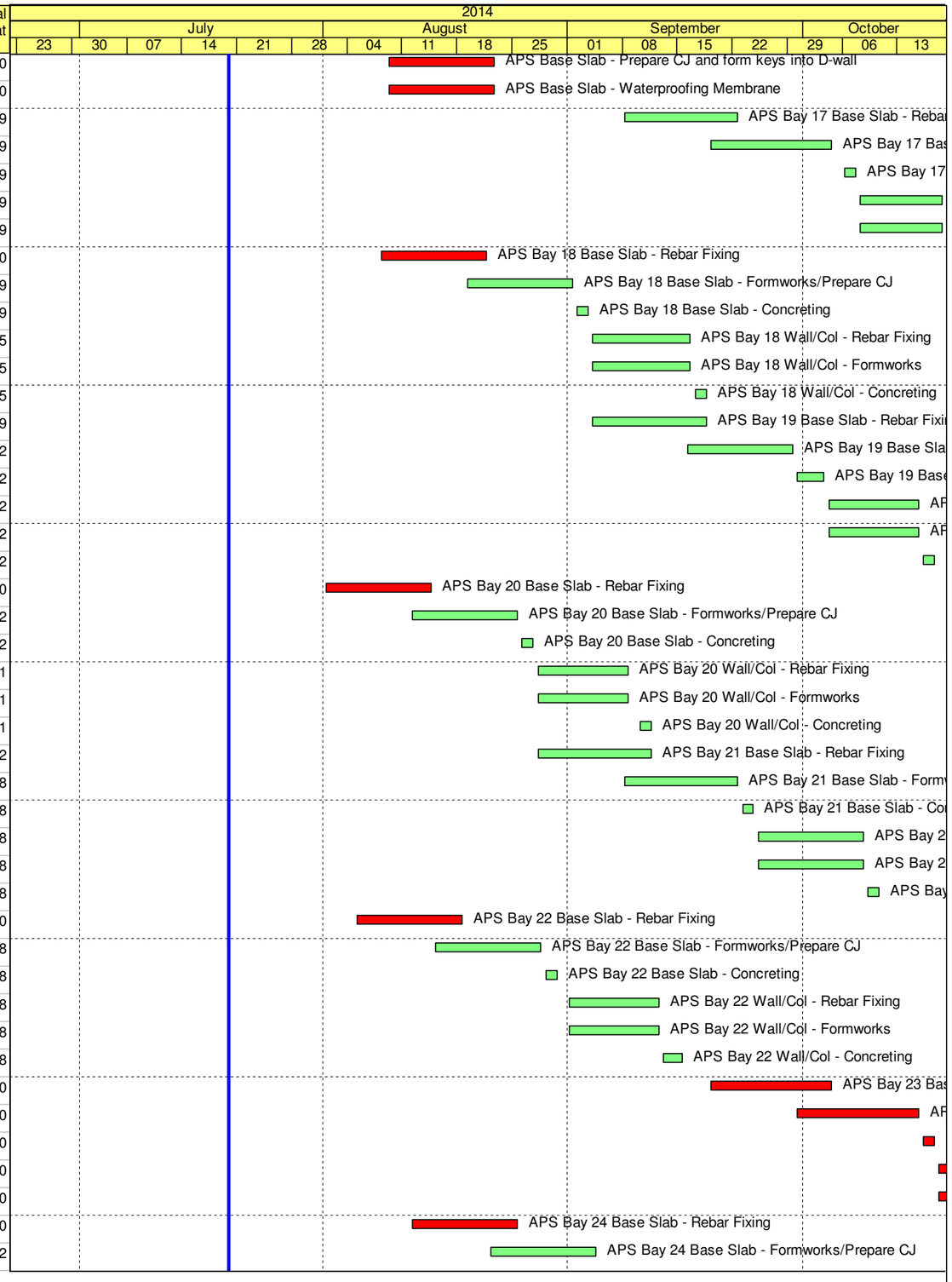
Three Month Rolling Programme (20 Jul to 19 Oct 2014)

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
0240-1070	Temp Bridge "TB" Design - Resubmission	24	04-Sep-14	27-Sep-14	11-Sep-14	04-Oct-14	7
0240-1080	Temp Bridge "TB" Design - ER Approval	18	28-Sep-14	15-Oct-14	05-Oct-14	22-Oct-14	7
0240-1082	Temp Bridge "TB" Tower Fabrication Fabrication	24	28-Sep-14	21-Oct-14	05-Oct-14	28-Oct-14	7
0240-1085	Temp Bridge "TB" Tower Fabrication Fabrication	36	16-Oct-14	20-Nov-14	23-Oct-14	27-Nov-14	7
02.5 - Bridge Segment/Beam Off-site Precasting							
0250-1720.10	Precast Beam Bridge E 1718-B	0	21-Jun-14 A	20-Jul-14*	31-Oct-14	31-Oct-14	104
0250-1950	Brideg C5 Pier 33 T-span Segment Off-site Casting (11 nos.)	0	10-Jun-14 A	13-Jul-14 A	10-Jan-15	10-Jan-15	
0250-1960	Brideg C5 Pier 34 T-span Segment Off-site Casting (9 nos.)	0	22-Jun-14 A	13-Jul-14 A	10-Jan-15	10-Jan-15	
0250-1970	Brideg C5 Pier 32 End-span Segment Off-site Casting (6 nos.)	18	20-Jun-14 A	06-Aug-14	12-Dec-14	29-Dec-14	145
0250-1980	Brideg C5 Abut D12 E-span Segment Off-site Casting (6 nos.)	19	07-Aug-14	25-Aug-14	30-Dec-14	17-Jan-15	145
0250-1990	Brideg C3 Pier 27 T-span Segment Off-site Casting (11 nos.)	27	18-Aug-14	13-Sep-14	10-Jan-15	05-Feb-15	145
0250-2010	Brideg C3 Pier 28 End-span Segment Off-site Casting (6 nos.)	19	26-Aug-14	13-Sep-14	18-Jan-15	05-Feb-15	145
0250-2000	Brideg C3 Pier 26 T-span Segment Off-site Casting (13 nos.)	31	14-Sep-14	14-Oct-14	06-Feb-15	08-Mar-15	145
0250-2020	Brideg C3 Pier 25 End-span Segment Off-site Casting (5 nos.)	16	14-Sep-14	29-Sep-14	21-Feb-15	08-Mar-15	160
0250-2050	Brideg C2 Pier 25 End-span Segment Off-site Casting (6 nos.)	19	30-Sep-14	18-Oct-14	17-Mar-15	04-Apr-15	168
0250-2030	Brideg C2 Pier 24 T-span Segment Off-site Casting (11 nos.)	27	15-Oct-14	10-Nov-14	09-Mar-15	04-Apr-15	145
03 - PRELIMINARY WORKS							
03.3 - Interface Works							
0330-1350	Erect Special Hoarding at Portion IV and V	36	03-Oct-14*	13-Nov-14	15-Jul-15	25-Aug-15	233
05 - SECTION 2 & 2A OF THE WORKS							
05.1 - Cut & Cover Tunnel Ch 4855-4932 (APS Footprint)							
05.1.2 - ELS							
0512-1175	Lev 6B (-16.5mPD) S8 ELS (9 nos)	0	11-Jun-14 A	15-Jul-14 A	21-Jul-14	21-Jul-14	
0512-1178	Lev 6A (-16.5mPD) S1-S3 ELS (6 nos)	0	13-Jun-14 A	18-Jul-14 A	21-Jul-14	21-Jul-14	
0512-1179	Lower Water Level to -21.0mPD (Pump Test)	0	10-Jul-14 A	20-Jul-14 A	06-Aug-14	06-Aug-14	
0512-1180	Lev 7B (-20.0mPD) S8 Excav (5198m3)	0	26-Jun-14 A	06-Jul-14 A	11-Aug-19	11-Aug-19	
0512-1185	Lev 7B (-20.0mPD) S8 ELS (9 nos)	0	03-Jul-14 A	19-Jul-14 A	29-Jul-14	29-Jul-14	
0512-1182	Lev 7A (-20.0mPD) S1-S3 Excav (5544m3)	7	14-Jul-14 A	26-Jul-14	21-Jul-14	27-Jul-14	1
0512-1189.1	Lower Water Level to -29.5mPD (Pump Test)	12	15-Jul-14 A	02-Aug-14	02-Aug-14	15-Aug-14	11
0512-1187.1	Lev 7A (-20.0mPD) S1-S3 ELS (8 nos)	9	28-Jul-14	06-Aug-14	28-Jul-14	06-Aug-14	0
0512-1200.1	Lev 8 (-28.5mPD) Excav + Blinding (13811m3	16	15-Jul-14 A	15-Aug-14	29-Jul-14	15-Aug-14	0
0512-1215	Middle Lev 1 (+2.0mPD) ELS (6 nos)	0	19-Jun-14 A	05-Jul-14 A	08-Aug-14	08-Aug-14	
0512-1230	Middle Lev 2 (-2.0mPD) Excav (4620m3)	0	07-Jul-14 A	14-Jul-14 A	08-Aug-14	08-Aug-14	
0512-1235	Middle Lev 2 (-2.0mPD) ELS (6 nos)	6	15-Jul-14 A	25-Jul-14	08-Aug-14	14-Aug-14	20
0512-1238	Submit/Approve Method Statement - Permanent Bulkhead Wall Removal	14	20-Jul-14	02-Aug-14	09-Aug-14	23-Aug-14	21
0512-1240	Middle Lev 3 (-7.0mPD) Excav (5280m3)	11	26-Jul-14	05-Aug-14	14-Aug-14	25-Aug-14	20
0512-1255	Middle Lev 3 Break Permanent Bulkhead Wall to -7.0mPD	9	03-Aug-14	11-Aug-14	23-Aug-14	01-Sep-14	21
0512-1250	Middle Lev 3 (-7.0mPD) ELS (6 nos)	7	06-Aug-14	12-Aug-14	25-Aug-14	01-Sep-14	20
0512-1260	Middle Lev 4 (-11.0mPD) Excav (5280m3)	12	13-Aug-14	24-Aug-14*	01-Sep-14	13-Sep-14	20
0512-1275	Middle Lev 4 Break Permanent Bulkhead Wall to -11.0mPD	9	22-Aug-14	30-Aug-14	22-Sep-14	30-Sep-14	31
0512-1270	Middle Lev 4 (-11.0mPD) ELS (6 nos)	7	25-Aug-14	31-Aug-14	24-Sep-14	30-Sep-14	30
0512-1290	Middle Lev 5 Break Permanent Bulkhead Wall to -15.0mPD	9	31-Aug-14	08-Sep-14	01-Oct-14	09-Oct-14	31
0512-1280	Middle Lev 5 (-15.0mPD) Excav + Blinding (3960m3)	9	01-Sep-14	09-Sep-14	01-Oct-14	09-Oct-14	30
05.1.3 - APS Structure							



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

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
0513-1310	APS Base Slab - Prepare CJ and form keys into D-wall	12	09-Aug-14	22-Aug-14	08-Aug-14	22-Aug-14	0
0513-1312	APS Base Slab - Waterproofing Membrane	12	09-Aug-14	22-Aug-14	08-Aug-14	22-Aug-14	0
0513-1314	APS Bay 17 Base Slab - Rebar Fixing	12	08-Sep-14	22-Sep-14	19-Sep-14	04-Oct-14	9
0513-1316	APS Bay 17 Base Slab - Formworks/Prepare CJ	12	19-Sep-14	04-Oct-14	30-Sep-14	15-Oct-14	9
0513-1318	APS Bay 17 Base Slab - Concreting	2	06-Oct-14	07-Oct-14	16-Oct-14	17-Oct-14	9
0513-1320	APS Bay 17 Wall/Col - Rebar Fixing	10	08-Oct-14	18-Oct-14	18-Oct-14	29-Oct-14	9
0513-1322	APS Bay 17 Wall/Col - Formworks	10	08-Oct-14	18-Oct-14	18-Oct-14	29-Oct-14	9
0513-1326	APS Bay 18 Base Slab - Rebar Fixing	12	08-Aug-14	21-Aug-14	08-Aug-14	21-Aug-14	0
0513-1328	APS Bay 18 Base Slab - Formworks/Prepare CJ	12	19-Aug-14	01-Sep-14	29-Aug-14	12-Sep-14	9
0513-1330	APS Bay 18 Base Slab - Concreting	2	02-Sep-14	03-Sep-14	13-Sep-14	15-Sep-14	9
0513-1332	APS Bay 18 Wall/Col - Rebar Fixing	10	04-Sep-14	16-Sep-14	18-Oct-14	29-Oct-14	35
0513-1334	APS Bay 18 Wall/Col - Formworks	10	04-Sep-14	16-Sep-14	18-Oct-14	29-Oct-14	35
0513-1336	APS Bay 18 Wall/Col - Concreting	2	17-Sep-14	18-Sep-14	30-Oct-14	31-Oct-14	35
0513-1338	APS Bay 19 Base Slab - Rebar Fixing	12	04-Sep-14	18-Sep-14	16-Sep-14	29-Sep-14	9
0513-1340	APS Bay 19 Base Slab - Formworks/Prepare CJ	12	16-Sep-14	29-Sep-14	30-Sep-14	15-Oct-14	12
0513-1342	APS Bay 19 Base Slab - Concreting	2	30-Sep-14	03-Oct-14	16-Oct-14	17-Oct-14	12
0513-1344	APS Bay 19 Wall/Col - Rebar Fixing	10	04-Oct-14	15-Oct-14	18-Oct-14	29-Oct-14	12
0513-1346	APS Bay 19 Wall/Col - Formworks	10	04-Oct-14	15-Oct-14	18-Oct-14	29-Oct-14	12
0513-1348	APS Bay 19 Wall/Col - Concreting	2	16-Oct-14	17-Oct-14	30-Oct-14	31-Oct-14	12
0513-1350	APS Bay 20 Base Slab - Rebar Fixing	12	01-Aug-14	14-Aug-14	01-Aug-14	14-Aug-14	0
0513-1352	APS Bay 20 Base Slab - Formworks/Prepare CJ	12	12-Aug-14	25-Aug-14	26-Aug-14	08-Sep-14	12
0513-1354	APS Bay 20 Base Slab - Concreting	2	26-Aug-14	27-Aug-14	10-Sep-14	11-Sep-14	12
0513-1356	APS Bay 20 Wall/Col - Rebar Fixing	10	28-Aug-14	08-Sep-14	18-Oct-14	29-Oct-14	41
0513-1358	APS Bay 20 Wall/Col - Formworks	10	28-Aug-14	08-Sep-14	18-Oct-14	29-Oct-14	41
0513-1360	APS Bay 20 Wall/Col - Concreting	2	10-Sep-14	11-Sep-14	30-Oct-14	31-Oct-14	41
0513-1362	APS Bay 21 Base Slab - Rebar Fixing	12	28-Aug-14	11-Sep-14	12-Sep-14	25-Sep-14	12
0513-1364	APS Bay 21 Base Slab - Formworks/Prepare CJ	12	08-Sep-14	22-Sep-14	30-Sep-14	15-Oct-14	18
0513-1366	APS Bay 21 Base Slab - Concreting	2	23-Sep-14	24-Sep-14	16-Oct-14	17-Oct-14	18
0513-1368	APS Bay 21 Wall/Col - Rebar Fixing	10	25-Sep-14	08-Oct-14	18-Oct-14	29-Oct-14	18
0513-1370	APS Bay 21 Wall/Col - Formworks	10	25-Sep-14	08-Oct-14	18-Oct-14	29-Oct-14	18
0513-1372	APS Bay 21 Wall/Col - Concreting	2	09-Oct-14	10-Oct-14	30-Oct-14	31-Oct-14	18
0513-1374	APS Bay 22 Base Slab - Rebar Fixing	12	05-Aug-14	18-Aug-14	05-Aug-14	18-Aug-14	0
0513-1376	APS Bay 22 Base Slab - Formworks/Prepare CJ	12	15-Aug-14	28-Aug-14	30-Sep-14	15-Oct-14	38
0513-1378	APS Bay 22 Base Slab - Concreting	2	29-Aug-14	30-Aug-14	16-Oct-14	17-Oct-14	38
0513-1380	APS Bay 22 Wall/Col - Rebar Fixing	10	01-Sep-14	12-Sep-14	18-Oct-14	29-Oct-14	38
0513-1382	APS Bay 22 Wall/Col - Formworks	10	01-Sep-14	12-Sep-14	18-Oct-14	29-Oct-14	38
0513-1384	APS Bay 22 Wall/Col - Concreting	2	13-Sep-14	15-Sep-14	30-Oct-14	31-Oct-14	38
0513-1386	APS Bay 23 Base Slab - Rebar Fixing	12	19-Sep-14	04-Oct-14	19-Sep-14	04-Oct-14	0
0513-1388	APS Bay 23 Base Slab - Formworks/Prepare CJ	12	30-Sep-14	15-Oct-14	30-Sep-14	15-Oct-14	0
0513-1390	APS Bay 23 Base Slab - Concreting	2	16-Oct-14	17-Oct-14	16-Oct-14	17-Oct-14	0
0513-1392	APS Bay 23 Wall/Col - Rebar Fixing	10	18-Oct-14	29-Oct-14	18-Oct-14	29-Oct-14	0
0513-1394	APS Bay 23 Wall/Col - Formworks	10	18-Oct-14	29-Oct-14	18-Oct-14	29-Oct-14	0
0513-1398	APS Bay 24 Base Slab - Rebar Fixing	12	12-Aug-14	25-Aug-14	12-Aug-14	25-Aug-14	0
0513-1400	APS Bay 24 Base Slab - Formworks/Prepare CJ	12	22-Aug-14	04-Sep-14	30-Sep-14	15-Oct-14	32



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

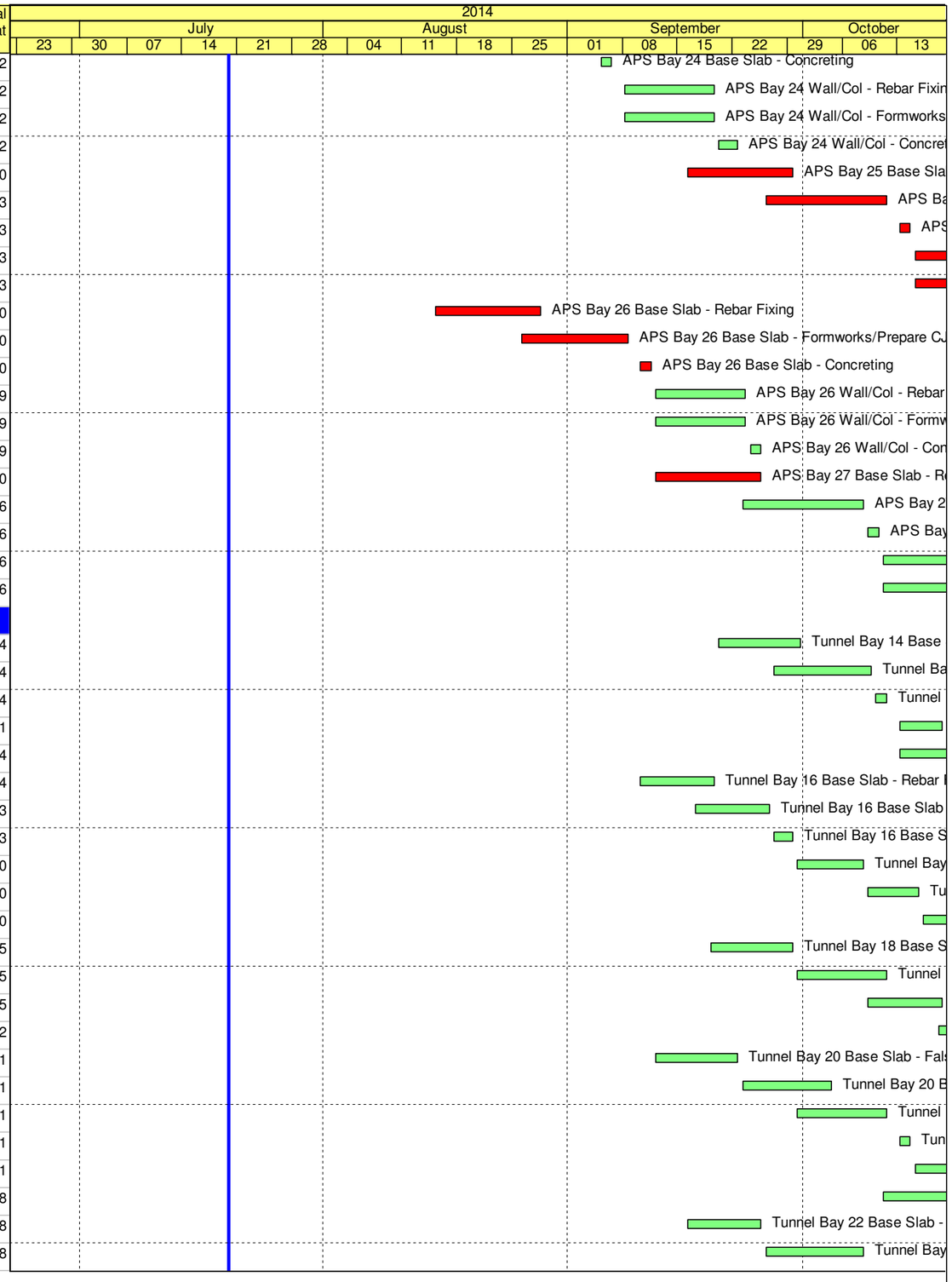
Contract HY/2009/19

Three Month Rolling Programme (20 Jul to 19 Oct 2014)

3MRP

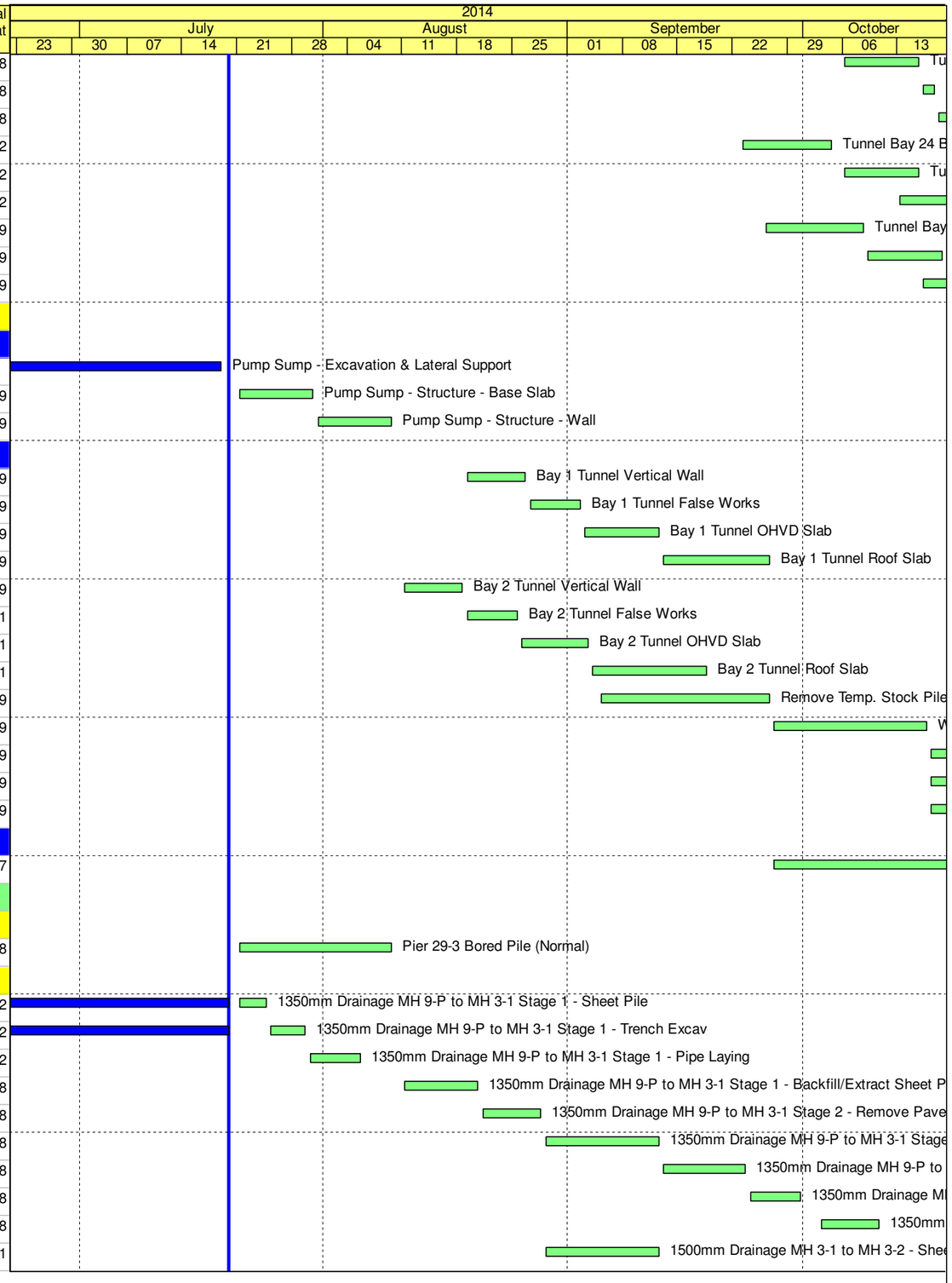
3MRP - Jul 2014 to Oct 2014

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
0513-1402	APS Bay 24 Base Slab - Concreting	2	05-Sep-14	06-Sep-14	16-Oct-14	17-Oct-14	32
0513-1404	APS Bay 24 Wall/Col - Rebar Fixing	10	08-Sep-14	19-Sep-14	18-Oct-14	29-Oct-14	32
0513-1406	APS Bay 24 Wall/Col - Formworks	10	08-Sep-14	19-Sep-14	18-Oct-14	29-Oct-14	32
0513-1408	APS Bay 24 Wall/Col - Concreting	2	20-Sep-14	22-Sep-14	30-Oct-14	31-Oct-14	32
0513-1410	APS Bay 25 Base Slab - Rebar Fixing	12	16-Sep-14	29-Sep-14	16-Sep-14	29-Sep-14	0
0513-1412	APS Bay 25 Base Slab - Formworks/Prepare CJ	12	26-Sep-14	11-Oct-14	30-Sep-14	15-Oct-14	3
0513-1414	APS Bay 25 Base Slab - Concreting	2	13-Oct-14	14-Oct-14	16-Oct-14	17-Oct-14	3
0513-1416	APS Bay 25 Wall/Col - Rebar Fixing	10	15-Oct-14	25-Oct-14	18-Oct-14	29-Oct-14	3
0513-1418	APS Bay 25 Wall/Col - Formworks	10	15-Oct-14	25-Oct-14	18-Oct-14	29-Oct-14	3
0513-1422	APS Bay 26 Base Slab - Rebar Fixing	12	15-Aug-14	28-Aug-14	15-Aug-14	28-Aug-14	0
0513-1424	APS Bay 26 Base Slab - Formworks/Prepare CJ	12	26-Aug-14	08-Sep-14	26-Aug-14	08-Sep-14	0
0513-1426	APS Bay 26 Base Slab - Concreting	2	10-Sep-14	11-Sep-14	10-Sep-14	11-Sep-14	0
0513-1428	APS Bay 26 Wall/Col - Rebar Fixing	10	12-Sep-14	23-Sep-14	18-Oct-14	29-Oct-14	29
0513-1430	APS Bay 26 Wall/Col - Formworks	10	12-Sep-14	23-Sep-14	18-Oct-14	29-Oct-14	29
0513-1432	APS Bay 26 Wall/Col - Concreting	2	24-Sep-14	25-Sep-14	30-Oct-14	31-Oct-14	29
0513-1434	APS Bay 27 Base Slab - Rebar Fixing	12	12-Sep-14	25-Sep-14	12-Sep-14	25-Sep-14	0
0513-1436	APS Bay 27 Base Slab - Formworks/Prepare CJ	12	23-Sep-14	08-Oct-14	30-Sep-14	15-Oct-14	6
0513-1438	APS Bay 27 Base Slab - Concreting	2	09-Oct-14	10-Oct-14	16-Oct-14	17-Oct-14	6
0513-1440	APS Bay 27 Wall/Col - Rebar Fixing	10	11-Oct-14	22-Oct-14	18-Oct-14	29-Oct-14	6
0513-1442	APS Bay 27 Wall/Col - Formworks	10	11-Oct-14	22-Oct-14	18-Oct-14	29-Oct-14	6
05.1.4 - Tunnel Structure							
0514-1446	Tunnel Bay 14 Base Slab - Rebar Fixing	9	20-Sep-14	30-Sep-14	21-Oct-14	30-Oct-14	24
0514-1448	Tunnel Bay 14 Base Slab - Formwork/Prepare CJ	9	27-Sep-14	09-Oct-14	28-Oct-14	06-Nov-14	24
0514-1482	Tunnel Bay 14 Base Slab - Concreting	2	10-Oct-14	11-Oct-14	07-Nov-14	08-Nov-14	24
0514-1483	Tunnel Bay 14 Centre Wall - Remove Strut	6	13-Oct-14	18-Oct-14	29-Nov-14	05-Dec-14	41
0514-1502	Tunnel Bay 15 Base Slab - Rebar Fixing	9	13-Oct-14	22-Oct-14	10-Nov-14	19-Nov-14	24
0514-1526	Tunnel Bay 16 Base Slab - Rebar Fixing	9	10-Sep-14	19-Sep-14	10-Oct-14	20-Oct-14	24
0514-1528	Tunnel Bay 16 Base Slab - Formwork/Prepare CJ	9	17-Sep-14	26-Sep-14	28-Oct-14	06-Nov-14	33
0514-1530	Tunnel Bay 16 Base Slab - Concreting	2	27-Sep-14	29-Sep-14	07-Nov-14	08-Nov-14	33
0514-1531	Tunnel Bay 16 Centre Wall - Remove Strut	6	30-Sep-14	08-Oct-14	29-Nov-14	05-Dec-14	50
0514-1532	Tunnel Bay 16 Centre Wall - Rebar Fixing	6	09-Oct-14	15-Oct-14	06-Dec-14	12-Dec-14	50
0514-1534	Tunnel Bay 16 Centre Wall - Formwork	6	16-Oct-14	22-Oct-14	13-Dec-14	19-Dec-14	50
0514-1575	Tunnel Bay 18 Base Slab - Falsework/Formwork	9	19-Sep-14	29-Sep-14	01-Nov-14	11-Nov-14	35
0514-1576	Tunnel Bay 18 Base Slab - Rebar Fixing	9	30-Sep-14	11-Oct-14	12-Nov-14	21-Nov-14	35
0514-1577	Tunnel Bay 18 Base Slab - Formwork/Prepare CJ	9	09-Oct-14	18-Oct-14	19-Nov-14	28-Nov-14	35
0514-1589	Tunnel Bay 19 Base Slab - Falsework/Formwork	9	18-Oct-14	28-Oct-14	01-Nov-14	11-Nov-14	12
0514-1604	Tunnel Bay 20 Base Slab - Falsework/Formwork	9	12-Sep-14	22-Sep-14	01-Nov-14	11-Nov-14	41
0514-1606	Tunnel Bay 20 Base Slab - Rebar Fixing	9	23-Sep-14	04-Oct-14	12-Nov-14	21-Nov-14	41
0514-1608	Tunnel Bay 20 Base Slab - Formwork/Prepare CJ	9	30-Sep-14	11-Oct-14	19-Nov-14	28-Nov-14	41
0514-1610	Tunnel Bay 20 Base Slab - Concreting	2	13-Oct-14	14-Oct-14	29-Nov-14	01-Dec-14	41
0514-1612	Tunnel Bay 20 Centre Wall - Remove Strut	6	15-Oct-14	21-Oct-14	02-Dec-14	08-Dec-14	41
0514-1632	Tunnel Bay 21 Base Slab - Falsework/Formwork	9	11-Oct-14	21-Oct-14	01-Nov-14	11-Nov-14	18
0514-1660	Tunnel Bay 22 Base Slab - Falsework/Formwork	9	16-Sep-14	25-Sep-14	01-Nov-14	11-Nov-14	38
0514-1662	Tunnel Bay 22 Base Slab - Rebar Fixing	9	26-Sep-14	08-Oct-14	12-Nov-14	21-Nov-14	38



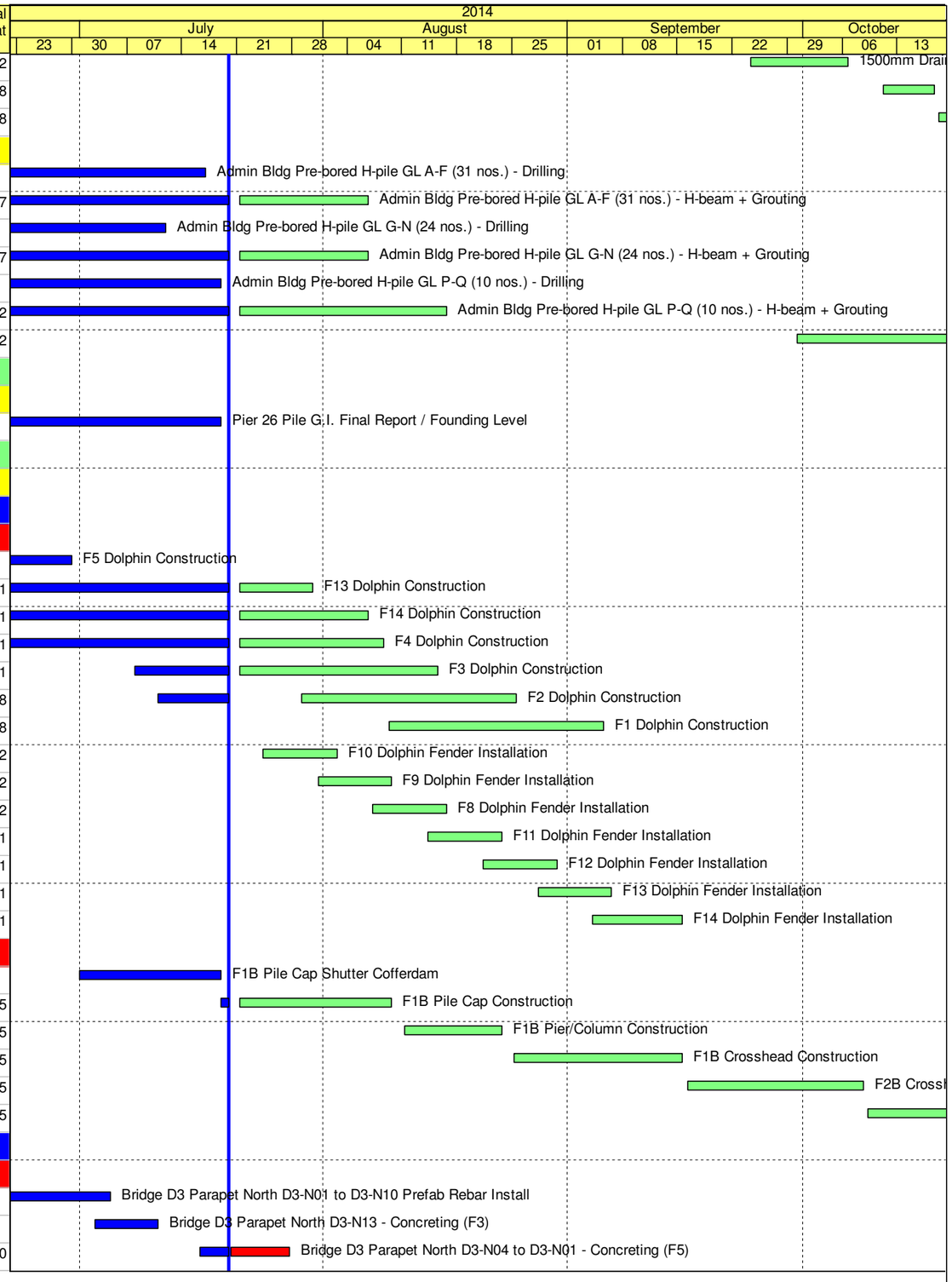
Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
0514-1664	Tunnel Bay 22 Base Slab - Formwork/Prepare CJ	9	06-Oct-14	15-Oct-14	19-Nov-14	28-Nov-14	38
0514-1666	Tunnel Bay 22 Base Slab - Concreting	2	16-Oct-14	17-Oct-14	29-Nov-14	01-Dec-14	38
0514-1668	Tunnel Bay 22 Centre Wall - Remove Strut	6	18-Oct-14	24-Oct-14	02-Dec-14	08-Dec-14	38
0514-1716	Tunnel Bay 24 Base Slab - Falsework/Formwork	9	23-Sep-14	04-Oct-14	01-Nov-14	11-Nov-14	32
0514-1718	Tunnel Bay 24 Base Slab - Rebar Fixing	9	06-Oct-14	15-Oct-14	12-Nov-14	21-Nov-14	32
0514-1720	Tunnel Bay 24 Base Slab - Formwork/Prepare CJ	9	13-Oct-14	22-Oct-14	19-Nov-14	28-Nov-14	32
0514-1772	Tunnel Bay 26 Base Slab - Falsework/Formwork	9	26-Sep-14	08-Oct-14	01-Nov-14	11-Nov-14	29
0514-1774	Tunnel Bay 26 Base Slab - Rebar Fixing	9	09-Oct-14	18-Oct-14	12-Nov-14	21-Nov-14	29
0514-1776	Tunnel Bay 26 Base Slab - Formwork/Prepare CJ	9	16-Oct-14	25-Oct-14	19-Nov-14	28-Nov-14	29
05.2 - Cut & Cover Tunnel Ch 4932-5149							
05.2.3 - ELS							
0524-2889	Pump Sump - Excavation & Lateral Support	0	22-Apr-14 A	19-Jul-14 A	04-Sep-14	04-Sep-14	
0524-2885	Pump Sump - Structure - Base Slab	9	21-Jul-14	30-Jul-14	04-Sep-14	15-Sep-14	39
0524-2890	Pump Sump - Structure - Wall	9	31-Jul-14	09-Aug-14	16-Sep-14	25-Sep-14	39
05.2.4 - Tunnel Structure							
0524-3015	Bay 1 Tunnel Vertical Wall	7	25-Aug-14 A	26-Aug-14	07-Oct-14	14-Oct-14	39
0524-3025	Bay 1 Tunnel False Works	6	27-Aug-14	02-Sep-14	15-Oct-14	21-Oct-14	39
0524-3035	Bay 1 Tunnel OHVD Slab	8	03-Sep-14	12-Sep-14	22-Oct-14	30-Oct-14	39
0524-3045	Bay 1 Tunnel Roof Slab	12	13-Sep-14	26-Sep-14	31-Oct-14	13-Nov-14	39
0524-3115	Bay 2 Tunnel Vertical Wall	7	11-Aug-14	18-Aug-14	26-Sep-14	06-Oct-14	39
0524-3125	Bay 2 Tunnel False Works	6	19-Aug-14	25-Aug-14	01-Nov-14	07-Nov-14	61
0524-3135	Bay 2 Tunnel OHVD Slab	8	26-Aug-14	03-Sep-14	08-Nov-14	17-Nov-14	61
0524-3145	Bay 2 Tunnel Roof Slab	12	04-Sep-14	18-Sep-14	18-Nov-14	01-Dec-14	61
0524-3472	Remove Temp. Stock Pile on top of Tunnel	18	05-Sep-14	26-Sep-14	24-Oct-14	13-Nov-14	39
0524-3474	Waterproofing Preparation + Tunnel Roof Remedial Works	15	27-Sep-14	16-Oct-14	14-Nov-14	01-Dec-14	39
0524-3365	Waterproof Top Slab Bay 1 to Bay 4	12	17-Oct-14	30-Oct-14	02-Dec-14	15-Dec-14	39
0524-3475	Waterproof Top Slab Bay 5 to Bay 9	12	17-Oct-14	30-Oct-14	02-Dec-14	15-Dec-14	39
0524-3685	Waterproof Top Slab Bays 12 and 13	12	17-Oct-14	30-Oct-14	02-Dec-14	15-Dec-14	39
05.2.5 - Road & Miscellaneous Works							
0525-2890	Tunnel Road Drainage (excl vent bldg)	45	27-Sep-14	20-Nov-14	05-Dec-14	28-Jan-15	57
06 - SECTION 3 OF THE WORKS							
06.1 - Westbound - Pier 29-34							
0610-2126	Pier 29-3 Bored Pile (Normal)	18	21-Jul-14	09-Aug-14	23-Oct-14	12-Nov-14	78
06.2 - Box Culvert U1							
0620-2632	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Sheet Pile	4	20-Mar-14 A	24-Jul-14	28-Oct-14	31-Oct-14	82
0620-2633	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Trench Excav	4	02-Apr-14 A	29-Jul-14	01-Nov-14	05-Nov-14	82
0620-2634	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Pipe Laying	6	30-Jul-14	05-Aug-14	06-Nov-14	12-Nov-14	82
0620-2635	1350mm Drainage MH 9-P to MH 3-1 Stage 1 - Backfill/Extract Sheet Pile	9	11-Aug-14	20-Aug-14	13-Nov-14	22-Nov-14	78
0620-2636	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Remove Pavement	7	21-Aug-14	28-Aug-14	24-Nov-14	01-Dec-14	78
0620-2637	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Sheet Pile	12	29-Aug-14	12-Sep-14	02-Dec-14	15-Dec-14	78
0620-2638	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Trench Excav	9	13-Sep-14	23-Sep-14	16-Dec-14	26-Dec-14	78
0620-2639	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Pipe Laying	6	24-Sep-14	30-Sep-14	27-Dec-14	03-Jan-15	78
0620-2641	1350mm Drainage MH 9-P to MH 3-1 Stage 2 - Backfill/Extract Sheet Pile	7	03-Oct-14	10-Oct-14	05-Jan-15	12-Jan-15	78
0620-2642	1500mm Drainage MH 3-1 to MH 3-2 - Sheet Pile	12	29-Aug-14	12-Sep-14	17-Dec-14	31-Dec-14	91



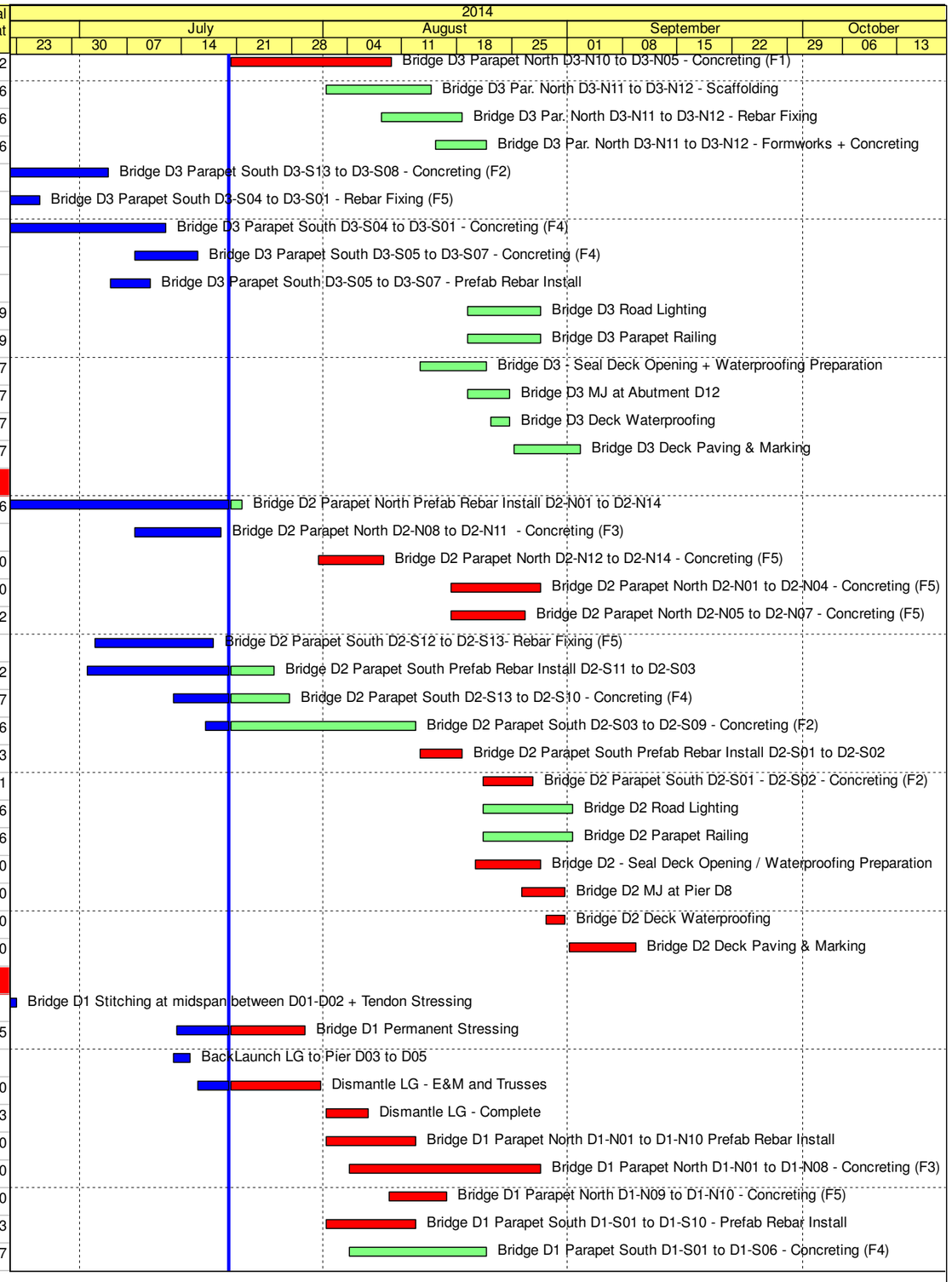
Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
0620-2643	1500mm Drainage MH 3-1 to MH 3-2 - Trench Excav	9	24-Sep-14	06-Oct-14	02-Jan-15	12-Jan-15	82
0620-2644	1500mm Drainage MH 3-1 to MH 3-2 - Pipe Laying	6	11-Oct-14	17-Oct-14	13-Jan-15	19-Jan-15	78
0620-2645	1500mm Drainage MH 3-1 to MH 3-2 - Construct MH 3-1	12	18-Oct-14	31-Oct-14	20-Jan-15	02-Feb-15	78
06.3 - Admin Building							
0630-3111	Admin Bldg Pre-bored H-pile GL A-F (31 nos.) - Drilling	0	24-Feb-14 A	17-Jul-14 A	11-Aug-19	11-Aug-19	
0630-3112	Admin Bldg Pre-bored H-pile GL A-F (31 nos.) - H-beam + Grouting	15	27-Mar-14 A	06-Aug-14	26-Nov-14	12-Dec-14	107
0630-3121	Admin Bldg Pre-bored H-pile GL G-N (24 nos.) - Drilling	0	24-Feb-14 A	12-Jul-14 A	11-Aug-19	11-Aug-19	
0630-3122	Admin Bldg Pre-bored H-pile GL G-N (24 nos.) - H-beam + Grouting	15	27-Mar-14 A	06-Aug-14	26-Nov-14	12-Dec-14	107
0630-3131	Admin Bldg Pre-bored H-pile GL P-Q (10 nos.) - Drilling	0	07-Jun-14 A	19-Jul-14 A	11-Aug-19	11-Aug-19	
0630-3132	Admin Bldg Pre-bored H-pile GL P-Q (10 nos.) - H-beam + Grouting	24	21-Jun-14 A	16-Aug-14	04-Oct-14	31-Oct-14	62
0630-3119	Admin Bldg Ground Beam	48	30-Sep-14	26-Nov-14	13-Dec-14	09-Feb-15	62
09 - SECTION 6 OF THE WORKS							
09.2 - Westbound - Pier 26-27							
0920-2105	Pier 26 Pile G.I. Final Report / Founding Level	0	17-Jun-14 A	19-Jul-14 A	25-Sep-15	25-Sep-15	
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							
1011-3255	F5 Dolphin Construction	0	06-May-14 A	30-Jun-14 A	09-Aug-14	09-Aug-14	
1011-3245	F13 Dolphin Construction	9	28-May-14 A	30-Jul-14	26-Aug-14	04-Sep-14	31
1011-3265	F14 Dolphin Construction	15	03-Jun-14 A	06-Aug-14	26-Aug-14	12-Sep-14	31
1011-3271	F4 Dolphin Construction	17	19-Jun-14 A	08-Aug-14	02-Aug-14	21-Aug-14	11
1011-3272	F3 Dolphin Construction	23	08-Jul-14 A	15-Aug-14	02-Aug-14	28-Aug-14	11
1011-3273	F2 Dolphin Construction	24	11-Jul-14 A	25-Aug-14	30-Dec-14	27-Jan-15	128
1011-3274	F1 Dolphin Construction	24	09-Aug-14	05-Sep-14	12-Jan-15	07-Feb-15	128
1011-3296	F10 Dolphin Fender Installation	9	24-Jul-14*	02-Aug-14	19-Aug-14	28-Aug-14	22
1011-3297	F9 Dolphin Fender Installation	9	31-Jul-14	09-Aug-14	26-Aug-14	04-Sep-14	22
1011-3298	F8 Dolphin Fender Installation	9	07-Aug-14	16-Aug-14	02-Sep-14	12-Sep-14	22
1011-3306	F11 Dolphin Fender Installation	9	14-Aug-14	23-Aug-14	08-Jan-15	17-Jan-15	121
1011-3307	F12 Dolphin Fender Installation	9	21-Aug-14	30-Aug-14	15-Jan-15	24-Jan-15	121
1011-3308	F13 Dolphin Fender Installation	9	28-Aug-14	06-Sep-14	22-Jan-15	31-Jan-15	121
1011-3309	F14 Dolphin Fender Installation	9	04-Sep-14	15-Sep-14	29-Jan-15	07-Feb-15	121
Pier F01 to F02							
1011-2890	F1B Pile Cap Shutter Cofferdam	0	01-Jul-14 A	19-Jul-14 A	11-Mar-17	11-Mar-17	
1011-2895	F1B Pile Cap Construction	18	19-Jul-14 A	09-Aug-14	11-Mar-17	31-Mar-17	795
1011-2900	F1B Pier/Column Construction	12	11-Aug-14	23-Aug-14	01-Apr-17	18-Apr-17	795
1011-2910	F1B Crosshead Construction	18	25-Aug-14	15-Sep-14	19-Apr-17	10-May-17	795
1011-2850	F2B Crosshead Construction	18	16-Sep-14	08-Oct-14	11-May-17	01-Jun-17	795
1011-2930	Bearing installation pier F1B/F2B	12	09-Oct-14	22-Oct-14	02-Jun-17	15-Jun-17	795
10.1.3 - E/B Bridge Construction							
Bridge D3							
1013-1921	Bridge D3 Parapet North D3-N01 to D3-N10 Prefab Rebar Install	0	16-Jun-14 A	05-Jul-14 A	20-Jul-14	20-Jul-14	
1013-1923	Bridge D3 Parapet North D3-N13 - Concreting (F3)	0	03-Jul-14 A	11-Jul-14 A	27-Jul-14	27-Jul-14	
1013-1133.1	Bridge D3 Parapet North D3-N04 to D3-N01 - Concreting (F5)	8	16-Jul-14 A	27-Jul-14	20-Jul-14	27-Jul-14	0



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

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
1013-1865	Bridge D3 Parapet North D3-N10 to D3-N05 - Concreting (F1)	21	20-Jul-14	09-Aug-14	22-Jul-14	11-Aug-14	2
1013-1138.1	Bridge D3 Par. North D3-N11 to D3-N12 - Scaffolding	12	01-Aug-14	14-Aug-14	08-Aug-14	21-Aug-14	6
1013-1138.2	Bridge D3 Par. North D3-N11 to D3-N12 - Rebar Fixing	9	08-Aug-14	18-Aug-14	15-Aug-14	25-Aug-14	6
1013-1138.3	Bridge D3 Par. North D3-N11 to D3-N12 - Formworks + Concreting	6	15-Aug-14	21-Aug-14	22-Aug-14	28-Aug-14	6
1013-1132	Bridge D3 Parapet South D3-S13 to D3-S08 - Concreting (F2)	0	08-Jun-14 A	04-Jul-14 A	11-Aug-19	11-Aug-19	
1013-1993	Bridge D3 Parapet South D3-S04 to D3-S01 - Rebar Fixing (F5)	0	13-Jun-14 A	26-Jun-14 A	11-Aug-19	11-Aug-19	
1013-1963	Bridge D3 Parapet South D3-S04 to D3-S01 - Concreting (F4)	0	19-Jun-14 A	12-Jul-14 A	27-Jul-14	27-Jul-14	
1013-1973	Bridge D3 Parapet South D3-S05 to D3-S07 - Concreting (F4)	0	08-Jul-14 A	16-Jul-14 A	11-Aug-19	11-Aug-19	
1013-2153	Bridge D3 Parapet South D3-S05 to D3-S07 - Prefab Rebar Install	0	05-Jul-14 A	10-Jul-14 A	11-Aug-19	11-Aug-19	
1013-1869	Bridge D3 Road Lighting	9	19-Aug-14	28-Aug-14	29-Aug-14	08-Sep-14	9
1013-1870	Bridge D3 Parapet Railing	9	19-Aug-14	28-Aug-14	29-Aug-14	08-Sep-14	9
1013-1144.1	Bridge D3 - Seal Deck Opening + Waterproofing Preparation	9	13-Aug-14	21-Aug-14	20-Aug-14	28-Aug-14	7
1013-1886	Bridge D3 MJ at Abutment D12	6	19-Aug-14	24-Aug-14	26-Aug-14	31-Aug-14	7
1013-1144	Bridge D3 Deck Waterproofing	3	22-Aug-14	24-Aug-14	29-Aug-14	31-Aug-14	7
1013-1145	Bridge D3 Deck Paving & Marking	9	25-Aug-14	02-Sep-14	01-Sep-14	09-Sep-14	7
Bridge D2							
1013-1565	Bridge D2 Parapet North Prefab Rebar Install D2-N01 to D2-N14	2	19-Jun-14 A	21-Jul-14	15-Aug-14	16-Aug-14	26
1013-1913	Bridge D2 Parapet North D2-N08 to D2-N11 - Concreting (F3)	0	08-Jul-14 A	19-Jul-14 A	11-Aug-19	11-Aug-19	
1013-1706	Bridge D2 Parapet North D2-N12 to D2-N14 - Concreting (F5)	9	31-Jul-14	08-Aug-14	31-Jul-14	08-Aug-14	0
1013-1566	Bridge D2 Parapet North D2-N01 to D2-N04 - Concreting (F5)	12	17-Aug-14	28-Aug-14	17-Aug-14	28-Aug-14	0
1013-1705	Bridge D2 Parapet North D2-N05 to D2-N07 - Concreting (F5)	10	17-Aug-14	26-Aug-14	19-Aug-14	28-Aug-14	2
1013-1133	Bridge D2 Parapet South D2-S12 to D2-S13- Rebar Fixing (F5)	0	03-Jul-14 A	18-Jul-14 A	03-Aug-14	03-Aug-14	
1013-1134	Bridge D2 Parapet South Prefab Rebar Install D2-S11 to D2-S03	6	02-Jul-14 A	25-Jul-14	11-Aug-14	16-Aug-14	22
1013-1863	Bridge D2 Parapet South D2-S13 to D2-S10 - Concreting (F4)	8	13-Jul-14 A	27-Jul-14	27-Jul-14	03-Aug-14	7
1013-1943	Bridge D2 Parapet South D2-S03 to D2-S09 - Concreting (F2)	24	17-Jul-14 A	12-Aug-14	05-Aug-14	28-Aug-14	16
1013-2143	Bridge D2 Parapet South Prefab Rebar Install D2-S01 to D2-S02	6	13-Aug-14	18-Aug-14	16-Aug-14	21-Aug-14	3
1013-1953	Bridge D2 Parapet South D2-S01 - D2-S02 - Concreting (F2)	7	21-Aug-14	27-Aug-14	22-Aug-14	28-Aug-14	1
1013-1880	Bridge D2 Road Lighting	10	21-Aug-14	01-Sep-14	28-Aug-14	08-Sep-14	6
1013-1881	Bridge D2 Parapet Railing	10	21-Aug-14	01-Sep-14	28-Aug-14	08-Sep-14	6
1013-1860.1	Bridge D2 - Seal Deck Opening / Waterproofing Preparation	9	20-Aug-14	28-Aug-14	20-Aug-14	28-Aug-14	0
1013-1891	Bridge D2 MJ at Pier D8	6	26-Aug-14	31-Aug-14	26-Aug-14	31-Aug-14	0
1013-1860	Bridge D2 Deck Waterproofing	3	29-Aug-14	31-Aug-14	29-Aug-14	31-Aug-14	0
1013-1561	Bridge D2 Deck Paving & Marking	9	01-Sep-14	09-Sep-14	01-Sep-14	09-Sep-14	0
Bridge D1							
1013-1650	Bridge D1 Stitching at midspan between D01-D02 + Tendon Stressing	0	16-Jun-14 A	23-Jun-14 A	25-Jul-14	25-Jul-14	
1013-1660	Bridge D1 Permanent Stressing	10	13-Jul-14 A	29-Jul-14	25-Jul-14	03-Aug-14	5
1013-1651	BackLaunch LG to Pier D03 to D05	0	13-Jul-14 A	15-Jul-14 A	11-Aug-19	11-Aug-19	
1013-1652	Dismantle LG - E&M and Trusses	12	16-Jul-14 A	31-Jul-14	20-Jul-14	31-Jul-14	0
1013-1653	Dismantle LG - Complete	6	01-Aug-14	06-Aug-14	04-Aug-14	09-Aug-14	3
1013-1704	Bridge D1 Parapet North D1-N01 to D1-N10 Prefab Rebar Install	12	01-Aug-14	12-Aug-14	01-Aug-14	12-Aug-14	0
1013-1933	Bridge D1 Parapet North D1-N01 to D1-N08 - Concreting (F3)	25	04-Aug-14	28-Aug-14	04-Aug-14	28-Aug-14	0
1013-1708	Bridge D1 Parapet North D1-N09 to D1-N10 - Concreting (F5)	8	09-Aug-14	16-Aug-14	09-Aug-14	16-Aug-14	0
1013-1701	Bridge D1 Parapet South D1-S01 to D1-S10 - Prefab Rebar Install	12	01-Aug-14	12-Aug-14	04-Aug-14	15-Aug-14	3
1013-1983	Bridge D1 Parapet South D1-S01 to D1-S06 - Concreting (F4)	18	04-Aug-14	21-Aug-14	11-Aug-14	28-Aug-14	7



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

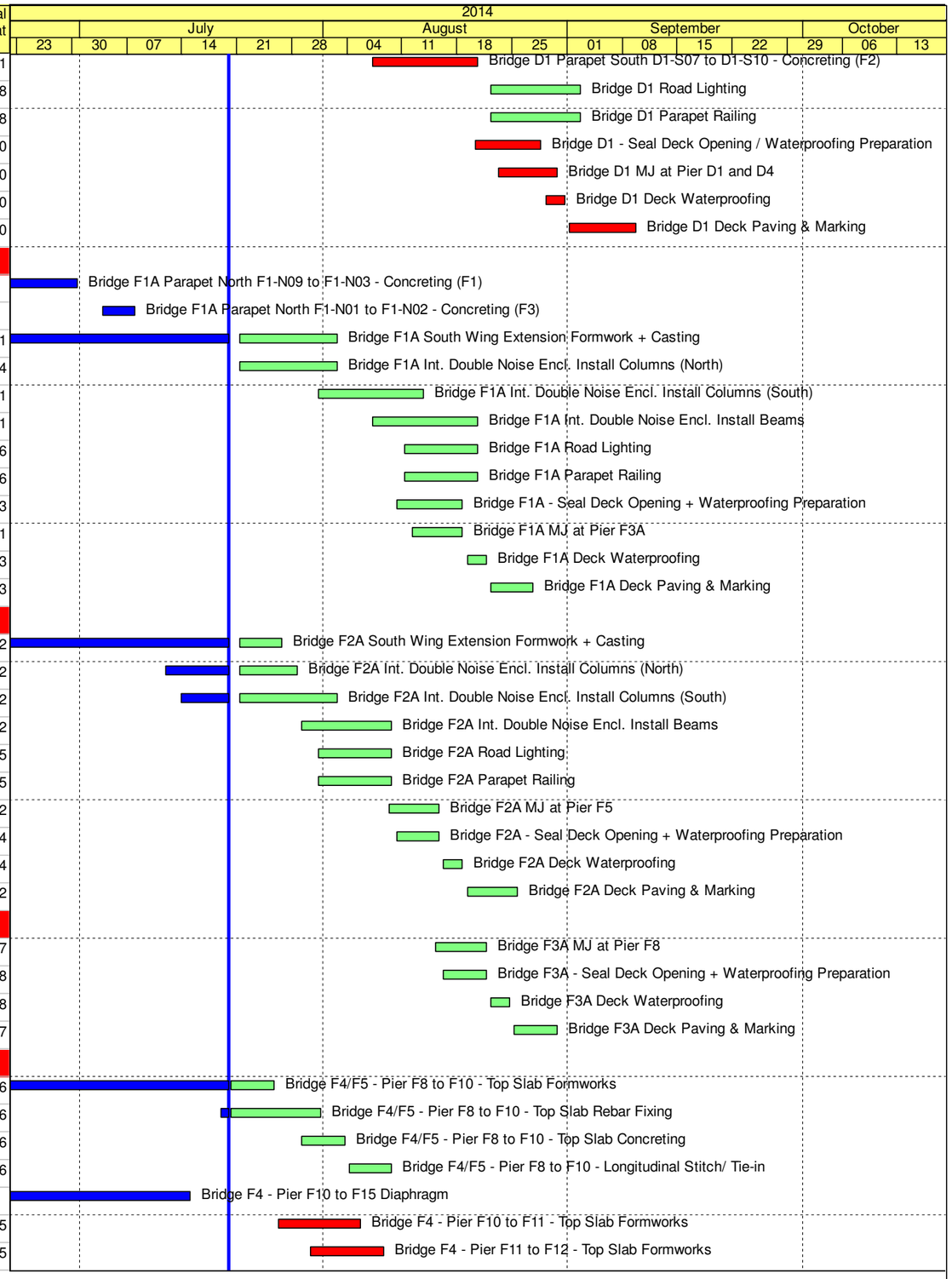
Contract HY/2009/19

Three Month Rolling Programme (20 Jul to 19 Oct 2014)

3MRP

3MRP - Jul 2014 to Oct 2014

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
1013-1703	Bridge D1 Parapet South D1-S07 to D1-S10 - Concreting (F2)	14	07-Aug-14	20-Aug-14	08-Aug-14	21-Aug-14	1
1013-1882	Bridge D1 Road Lighting	10	22-Aug-14	02-Sep-14	01-Sep-14	12-Sep-14	8
1013-1883	Bridge D1 Parapet Railing	10	22-Aug-14	02-Sep-14	01-Sep-14	12-Sep-14	8
1013-1715.1	Bridge D1 - Seal Deck Opening / Waterproofing Preparation	9	20-Aug-14	28-Aug-14	20-Aug-14	28-Aug-14	0
1013-1892	Bridge D1 MJ at Pier D1 and D4	7	23-Aug-14	30-Aug-14	23-Aug-14	30-Aug-14	0
1013-1715	Bridge D1 Deck Waterproofing	3	29-Aug-14	31-Aug-14	29-Aug-14	31-Aug-14	0
1013-1716	Bridge D1 Deck Paving & Marking	9	01-Sep-14	09-Sep-14	01-Sep-14	09-Sep-14	0
Bridge F1A							
1013-1256	Bridge F1A Parapet North F1-N09 to F1-N03 - Concreting (F1)	0	11-Jun-14 A	30-Jun-14 A	22-Jul-14	22-Jul-14	
1013-1903	Bridge F1A Parapet North F1-N01 to F1-N02 - Concreting (F3)	0	04-Jul-14 A	08-Jul-14 A	27-Jul-14	27-Jul-14	
1013-1258	Bridge F1A South Wing Extension Formwork + Casting	12	15-May-14 A	02-Aug-14	02-Aug-14	15-Aug-14	11
1013-1866	Bridge F1A Int. Double Noise Encl. Install Columns (North)	12	21-Jul-14	02-Aug-14	06-Aug-14	19-Aug-14	14
1013-1867	Bridge F1A Int. Double Noise Encl. Install Columns (South)	12	31-Jul-14	13-Aug-14	13-Aug-14	26-Aug-14	11
1013-1868	Bridge F1A Int. Double Noise Encl. Install Beams	12	07-Aug-14	20-Aug-14	20-Aug-14	02-Sep-14	11
1013-1872	Bridge F1A Road Lighting	9	11-Aug-14	20-Aug-14	29-Aug-14	08-Sep-14	16
1013-1873	Bridge F1A Parapet Railing	9	11-Aug-14	20-Aug-14	29-Aug-14	08-Sep-14	16
1013-1265.1	Bridge F1A - Seal Deck Opening + Waterproofing Preparation	9	10-Aug-14	18-Aug-14	23-Aug-14	31-Aug-14	13
1013-1887	Bridge F1A MJ at Pier F3A	6	12-Aug-14	18-Aug-14	25-Aug-14	30-Aug-14	11
1013-1265	Bridge F1A Deck Waterproofing	3	19-Aug-14	21-Aug-14	01-Sep-14	03-Sep-14	13
1013-1266	Bridge F1A Deck Paving & Marking	6	22-Aug-14	27-Aug-14	04-Sep-14	09-Sep-14	13
Bridge F2A							
1013-1367	Bridge F2A South Wing Extension Formwork + Casting	6	20-May-14 A	26-Jul-14	04-Aug-14	09-Aug-14	12
1013-1376	Bridge F2A Int. Double Noise Encl. Install Columns (North)	7	12-Jul-14 A	28-Jul-14	04-Aug-14	11-Aug-14	12
1013-1377	Bridge F2A Int. Double Noise Encl. Install Columns (South)	12	14-Jul-14 A	02-Aug-14	04-Aug-14	16-Aug-14	12
1013-1378	Bridge F2A Int. Double Noise Encl. Install Beams	11	29-Jul-14	09-Aug-14	12-Aug-14	23-Aug-14	12
1013-1874	Bridge F2A Road Lighting	9	31-Jul-14	09-Aug-14	29-Aug-14	08-Sep-14	25
1013-1875	Bridge F2A Parapet Railing	9	31-Jul-14	09-Aug-14	29-Aug-14	08-Sep-14	25
1013-1888	Bridge F2A MJ at Pier F5	6	09-Aug-14	15-Aug-14	23-Aug-14	29-Aug-14	12
1013-1374.1	Bridge F2A - Seal Deck Opening + Waterproofing Preparation	6	10-Aug-14	15-Aug-14	24-Aug-14	29-Aug-14	14
1013-1374	Bridge F2A Deck Waterproofing	3	16-Aug-14	18-Aug-14	30-Aug-14	01-Sep-14	14
1013-1375	Bridge F2A Deck Paving & Marking	6	19-Aug-14	25-Aug-14	02-Sep-14	08-Sep-14	12
Bridge F3A							
1013-1889	Bridge F3A MJ at Pier F8	6	15-Aug-14	21-Aug-14	23-Aug-14	29-Aug-14	7
1013-1428.1	Bridge F3A - Seal Deck Opening + Waterproofing Preparation	6	16-Aug-14	21-Aug-14	24-Aug-14	29-Aug-14	8
1013-1428	Bridge F3A Deck Waterproofing	3	22-Aug-14	24-Aug-14	30-Aug-14	01-Sep-14	8
1013-1430	Bridge F3A Deck Paving & Marking	6	25-Aug-14	30-Aug-14	02-Sep-14	08-Sep-14	7
Bridge F5/F4							
1013-1436	Bridge F4/F5 - Pier F8 to F10 - Top Slab Formworks	6	11-Jun-14 A	25-Jul-14	26-Jul-14	31-Jul-14	6
1013-1439	Bridge F4/F5 - Pier F8 to F10 - Top Slab Rebar Fixing	12	19-Jul-14 A	31-Jul-14	15-Aug-14	26-Aug-14	26
1013-1441	Bridge F4/F5 - Pier F8 to F10 - Top Slab Concreting	6	29-Jul-14	03-Aug-14	24-Aug-14	29-Aug-14	26
1013-2103	Bridge F4/F5 - Pier F8 to F10 - Longitudinal Stitch/ Tie-in	6	04-Aug-14	09-Aug-14	30-Aug-14	04-Sep-14	26
1013-1446	Bridge F4 - Pier F10 to F15 Diaphragm	0	20-Jun-14 A	15-Jul-14 A	15-Aug-14	15-Aug-14	
1013-2160	Bridge F4 - Pier F10 to F11 - Top Slab Formworks	9	26-Jul-14	05-Aug-14	01-Aug-14	11-Aug-14	5
1013-2162	Bridge F4 - Pier F11 to F12 - Top Slab Formworks	9	30-Jul-14	08-Aug-14	05-Aug-14	14-Aug-14	5

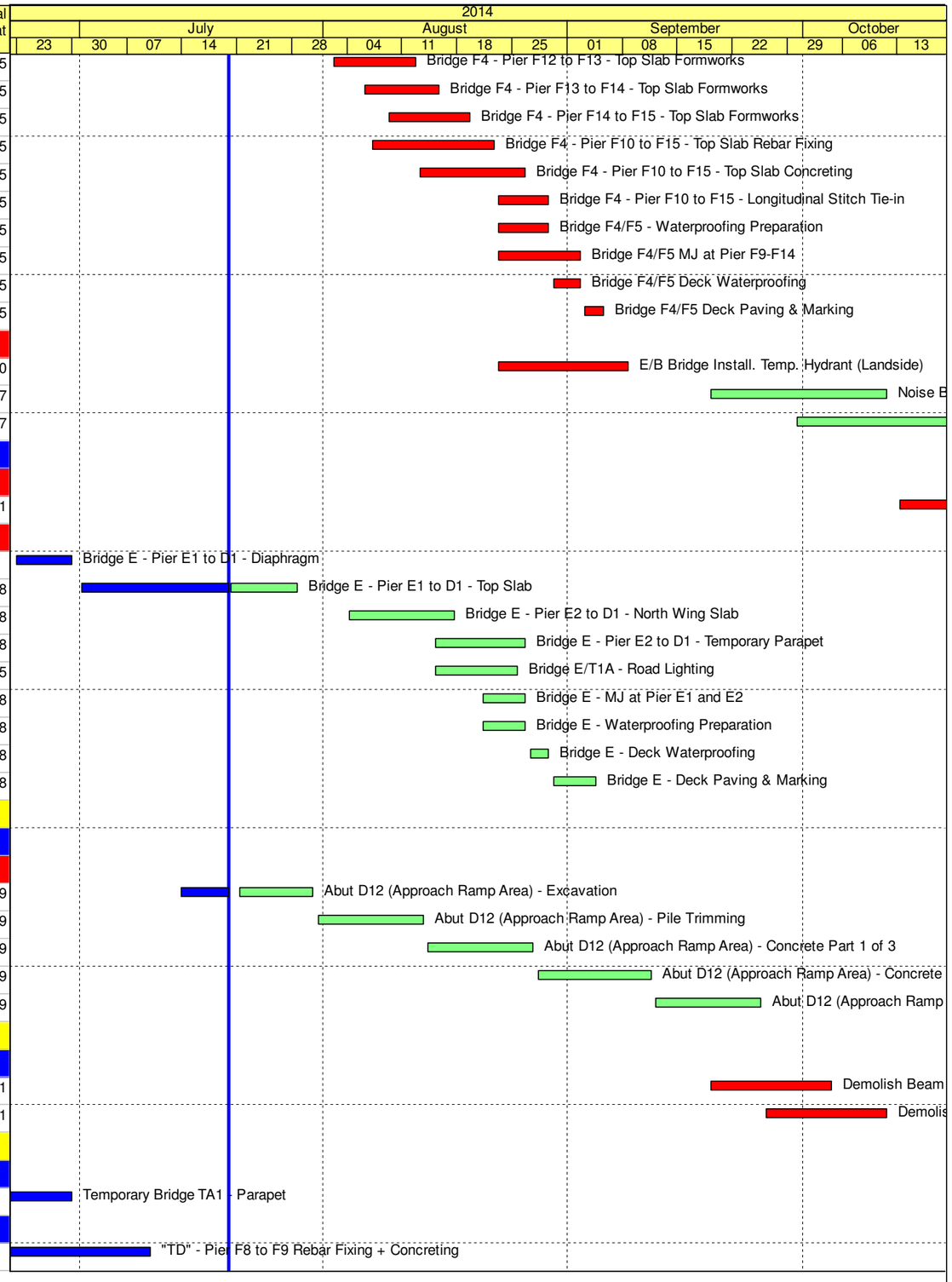


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Jul to 19 Oct 2014)

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
1013-2164	Bridge F4 - Pier F12 to F13 - Top Slab Formworks	9	02-Aug-14	12-Aug-14	08-Aug-14	18-Aug-14	5
1013-2166	Bridge F4 - Pier F13 to F14 - Top Slab Formworks	9	06-Aug-14	15-Aug-14	12-Aug-14	21-Aug-14	5
1013-2168	Bridge F4 - Pier F14 to F15 - Top Slab Formworks	9	09-Aug-14	19-Aug-14	15-Aug-14	25-Aug-14	5
1013-2170	Bridge F4 - Pier F10 to F15 - Top Slab Rebar Fixing	14	07-Aug-14	22-Aug-14	13-Aug-14	28-Aug-14	5
1013-2172	Bridge F4 - Pier F10 to F15 - Top Slab Concreting	12	13-Aug-14	26-Aug-14	19-Aug-14	01-Sep-14	5
1013-2174	Bridge F4 - Pier F10 to F15 - Longitudinal Stitch Tie-in	6	23-Aug-14	29-Aug-14	29-Aug-14	04-Sep-14	5
1013-1454.1	Bridge F4/F5 - Waterproofing Preparation	6	23-Aug-14	29-Aug-14	29-Aug-14	04-Sep-14	5
1013-1890	Bridge F4/F5 MJ at Pier F9-F14	9	23-Aug-14	02-Sep-14	29-Aug-14	08-Sep-14	5
1013-1454	Bridge F4/F5 Deck Waterproofing	3	30-Aug-14	02-Sep-14	05-Sep-14	08-Sep-14	5
1013-1455	Bridge F4/F5 Deck Paving & Marking	3	03-Sep-14	05-Sep-14	10-Sep-14	12-Sep-14	5
All E/B Bridges (Common)							
1013-1826	E/B Bridge Install. Temp. Hydrant (Landside)	14	23-Aug-14	08-Sep-14	23-Aug-14	08-Sep-14	0
1013-1735	Noise Barrier Mock-up	18	19-Sep-14	11-Oct-14	27-Sep-14	20-Oct-14	7
1013-1710	Permanent Noise Barrier Type C1 E/B Bridge Ch 1059-1362 (304m)	36	30-Sep-14	12-Nov-14	10-Oct-14	20-Nov-14	7
10.1.4 - Bridge E / Hing Fat Slip Road							
Pier Construction							
1014-1170	Modify Slip Road E/B Cap, Pier and Crosshead (E1 & E2)	42	13-Oct-14	29-Nov-14	14-Oct-14	01-Dec-14	1
Bridge Construction							
1014-1176	Bridge E - Pier E1 to D1 - Diaphragm	0	23-Jun-14 A	30-Jun-14 A	28-Jul-14	28-Jul-14	
1014-1177	Bridge E - Pier E1 to D1 - Top Slab	9	01-Jul-14 A	28-Jul-14	28-Jul-14	05-Aug-14	8
1014-1178	Bridge E - Pier E2 to D1 - North Wing Slab	14	04-Aug-14	17-Aug-14	12-Aug-14	25-Aug-14	8
1014-1242	Bridge E - Pier E2 to D1 - Temporary Parapet	12	15-Aug-14	26-Aug-14	23-Aug-14	03-Sep-14	8
1013-1885	Bridge E/T1A - Road Lighting	9	15-Aug-14	25-Aug-14	02-Sep-14	12-Sep-14	15
1013-1893	Bridge E - MJ at Pier E1 and E2	6	21-Aug-14	26-Aug-14	29-Aug-14	03-Sep-14	8
1013-1895	Bridge E - Waterproofing Preparation	6	21-Aug-14	26-Aug-14	29-Aug-14	03-Sep-14	8
1013-1894	Bridge E - Deck Waterproofing	3	27-Aug-14	29-Aug-14	04-Sep-14	06-Sep-14	8
1013-2133	Bridge E - Deck Paving & Marking	6	30-Aug-14	04-Sep-14	07-Sep-14	12-Sep-14	8
10.3 - Middle Bridge (Bridge F)							
10.3.1 - Pier Construction							
Abutment D12							
1031-1052	Abut D12 (Approach Ramp Area) - Excavation	9	14-Jul-14 A	30-Jul-14	05-Jan-15	14-Jan-15	139
1031-1054	Abut D12 (Approach Ramp Area) - Pile Trimming	12	31-Jul-14	13-Aug-14	15-Jan-15	28-Jan-15	139
1031-1056	Abut D12 (Approach Ramp Area) - Concrete Part 1 of 3	12	14-Aug-14	27-Aug-14	29-Jan-15	11-Feb-15	139
1031-1057	Abut D12 (Approach Ramp Area) - Concrete Part 2 of 3	12	28-Aug-14	11-Sep-14	12-Feb-15	28-Feb-15	139
1031-1058	Abut D12 (Approach Ramp Area) - Concrete Part 3 of 3	12	12-Sep-14	25-Sep-14*	02-Mar-15	14-Mar-15	139
10.4 - Bridge Deck Demolition							
10.4.2 - Existing E/B Bridge							
1042-1010	Demolish Beam - Existing Hing Fat St Slip Rd Pier E3 to Pier 20 (9 beam)	12	19-Sep-14	04-Oct-14	20-Sep-14	06-Oct-14	1
1042-1011	Demolish Pier - Existing Hing Fat St Slip Rd Pier 19 an 20	12	26-Sep-14	11-Oct-14	27-Sep-14	13-Oct-14	1
10.5 - Temporary Bridge							
10.5.1 - Temporary Bridge 'TA'							
1051-1018	Temporary Bridge TA1 - Parapet	0	13-Jan-14 A	30-Jun-14 A	11-Aug-19	11-Aug-19	
10.5.3 - Temporary Bridge 'TD'							
1053-1013.1	"TD" - Pier F8 to F9 Rebar Fixing + Concreting	0	16-Jun-14 A	10-Jul-14 A	15-Aug-14	15-Aug-14	



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
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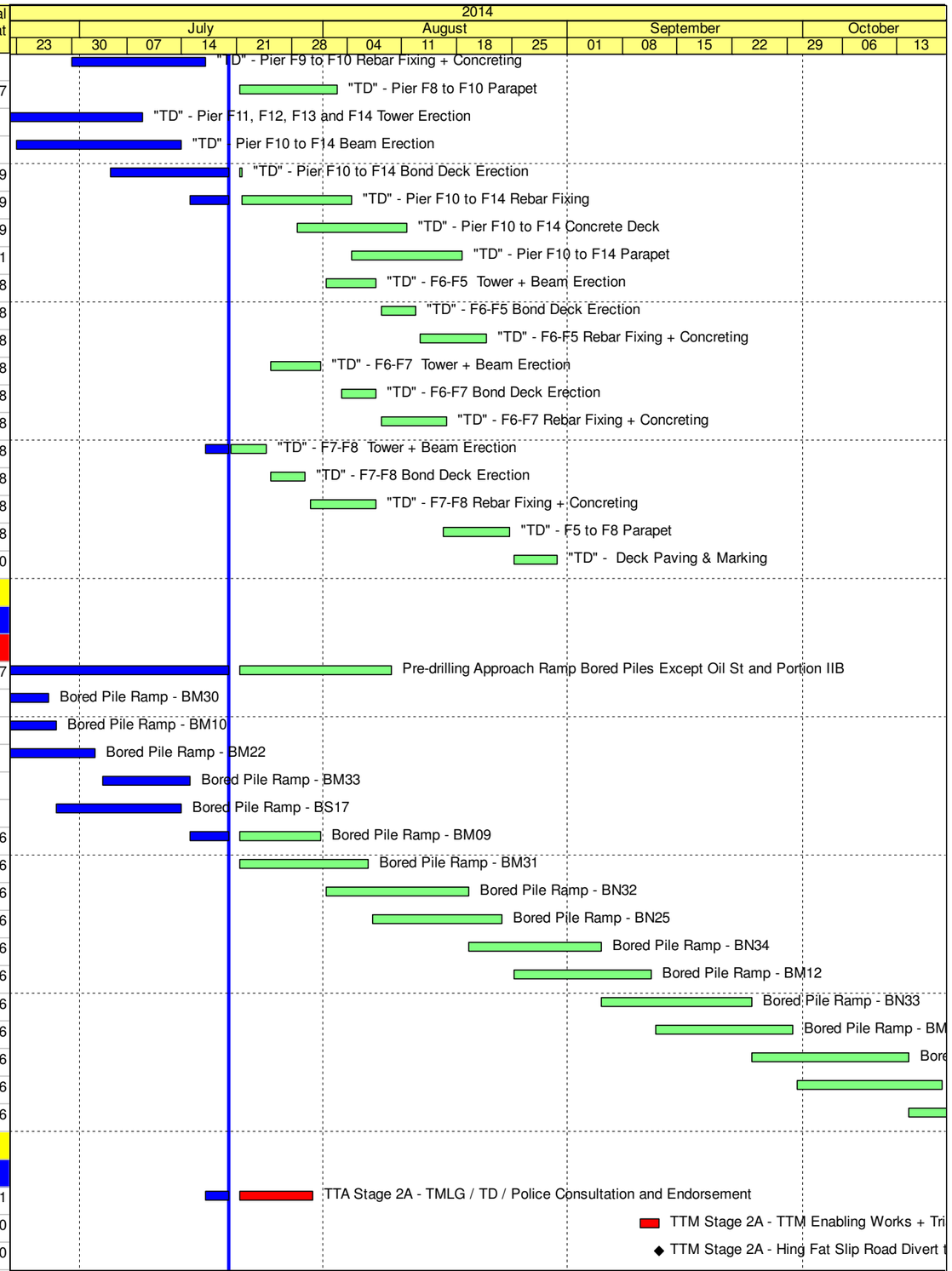
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Jul to 19 Oct 2014)

Activity ID	Activity Name	Rem Dur	Start	Finish	Late Start	Late Finish	Total Float
1053-1013.2	"TD" - Pier F9 to F10 Rebar Fixing + Concreting	0	30-Jun-14 A	17-Jul-14 A	11-Aug-19	11-Aug-19	
1053-1014	"TD" - Pier F8 to F10 Parapet	12	21-Jul-14	02-Aug-14	21-Aug-14	03-Sep-14	27
1053-1021	"TD" - Pier F11, F12, F13 and F14 Tower Erection	0	27-May-14 A	09-Jul-14 A	31-Jul-14	31-Jul-14	
1053-1061	"TD" - Pier F10 to F14 Beam Erection	0	23-Jun-14 A	14-Jul-14 A	31-Jul-14	31-Jul-14	
1053-1062	"TD" - Pier F10 to F14 Bond Deck Erection	1	05-Jul-14 A	21-Jul-14	31-Jul-14	31-Jul-14	9
1053-1063	"TD" - Pier F10 to F14 Rebar Fixing	12	15-Jul-14 A	04-Aug-14	01-Aug-14	14-Aug-14	9
1053-1064	"TD" - Pier F10 to F14 Concrete Deck	12	28-Jul-14	11-Aug-14	08-Aug-14	21-Aug-14	9
1053-1065	"TD" - Pier F10 to F14 Parapet	12	04-Aug-14	18-Aug-14	29-Aug-14	12-Sep-14	21
1053-1150	"TD" - F6-F5 Tower + Beam Erection	7	01-Aug-14	07-Aug-14	09-Aug-14	15-Aug-14	8
1053-1152	"TD" - F6-F5 Bond Deck Erection	5	08-Aug-14	12-Aug-14	16-Aug-14	20-Aug-14	8
1053-1154	"TD" - F6-F5 Rebar Fixing + Concreting	9	13-Aug-14	21-Aug-14	21-Aug-14	29-Aug-14	8
1053-1140	"TD" - F6-F7 Tower + Beam Erection	7	25-Jul-14	31-Jul-14	02-Aug-14	08-Aug-14	8
1053-1142	"TD" - F6-F7 Bond Deck Erection	5	03-Aug-14	07-Aug-14	11-Aug-14	15-Aug-14	8
1053-1144	"TD" - F6-F7 Rebar Fixing + Concreting	9	08-Aug-14	16-Aug-14	16-Aug-14	24-Aug-14	8
1053-1130	"TD" - F7-F8 Tower + Beam Erection	5	17-Jul-14 A	24-Jul-14	28-Jul-14	01-Aug-14	8
1053-1132	"TD" - F7-F8 Bond Deck Erection	5	25-Jul-14	29-Jul-14	02-Aug-14	06-Aug-14	8
1053-1134	"TD" - F7-F8 Rebar Fixing + Concreting	9	30-Jul-14	07-Aug-14	07-Aug-14	15-Aug-14	8
1053-1160	"TD" - F5 to F8 Parapet	9	16-Aug-14	24-Aug-14	24-Aug-14	01-Sep-14	8
1053-1010.93	"TD" - Deck Paving & Marking	6	25-Aug-14	30-Aug-14	04-Sep-14	09-Sep-14	10
10.6 - Tunnel Approach Ramp							
10.6.1 - Approach Ramp (Excluding Portion IIB)							
Bored Piles							
1061-1670	Pre-drilling Approach Ramp Bored Piles Except Oil St and Portion IIB	18	19-Jul-13 A	09-Aug-14*	10-Oct-14	30-Oct-14	67
1061-1920	Bored Pile Ramp - BM30	0	10-Jun-14 A	27-Jun-14 A	19-Aug-14	19-Aug-14	
1061-1930	Bored Pile Ramp - BM10	0	16-Jun-14 A	28-Jun-14 A	11-Aug-19	11-Aug-19	
1061-1950	Bored Pile Ramp - BM22	0	20-Jun-14 A	03-Jul-14 A	11-Aug-19	11-Aug-19	
1061-1960	Bored Pile Ramp - BM33	0	04-Jul-14 A	15-Jul-14 A	11-Aug-19	11-Aug-19	
1061-1990	Bored Pile Ramp - BS17	0	28-Jun-14 A	14-Jul-14 A	11-Aug-19	11-Aug-19	
1061-2050	Bored Pile Ramp - BM09	10	15-Jul-14 A	31-Jul-14	19-Aug-14	30-Aug-14	26
1061-1970	Bored Pile Ramp - BM31	15	21-Jul-14	06-Aug-14	01-Sep-14	18-Sep-14	36
1061-2060	Bored Pile Ramp - BN32	15	01-Aug-14	19-Aug-14	30-Aug-14	18-Sep-14	26
1061-1980	Bored Pile Ramp - BN25	15	07-Aug-14	23-Aug-14	19-Sep-14	08-Oct-14	36
1061-2070	Bored Pile Ramp - BN34	15	19-Aug-14	05-Sep-14	19-Sep-14	08-Oct-14	26
1061-2000	Bored Pile Ramp - BM12	15	25-Aug-14	11-Sep-14	09-Oct-14	25-Oct-14	36
1061-2080	Bored Pile Ramp - BN33	15	05-Sep-14	24-Sep-14	09-Oct-14	25-Oct-14	26
1061-2010	Bored Pile Ramp - BM11	15	12-Sep-14	29-Sep-14	27-Oct-14	12-Nov-14	36
1061-2090	Bored Pile Ramp - BN35	15	24-Sep-14	14-Oct-14	27-Oct-14	12-Nov-14	26
1061-2020	Bored Pile Ramp - BM16	15	30-Sep-14	18-Oct-14	13-Nov-14	29-Nov-14	36
1061-2100	Bored Pile Ramp - BM08	15	14-Oct-14	31-Oct-14*	13-Nov-14	29-Nov-14	26
10.7 - Section X - Miscellaneous Works							
10.7.1 - TTM Stages							
1071-1005	TTA Stage 2A - TMLG / TD / Police Consultation and Endorsement	9	17-Jul-14 A	30-Jul-14	22-Jul-14	31-Jul-14	1
1071-1010	TTM Stage 2A - TTM Enabling Works + Trial Run	3	10-Sep-14	12-Sep-14	10-Sep-14	12-Sep-14	0
1071-1020	TTM Stage 2A - Hing Fat Slip Road Divert to New E/B Bridge through 'TA'	0		12-Sep-14*		12-Sep-14	0

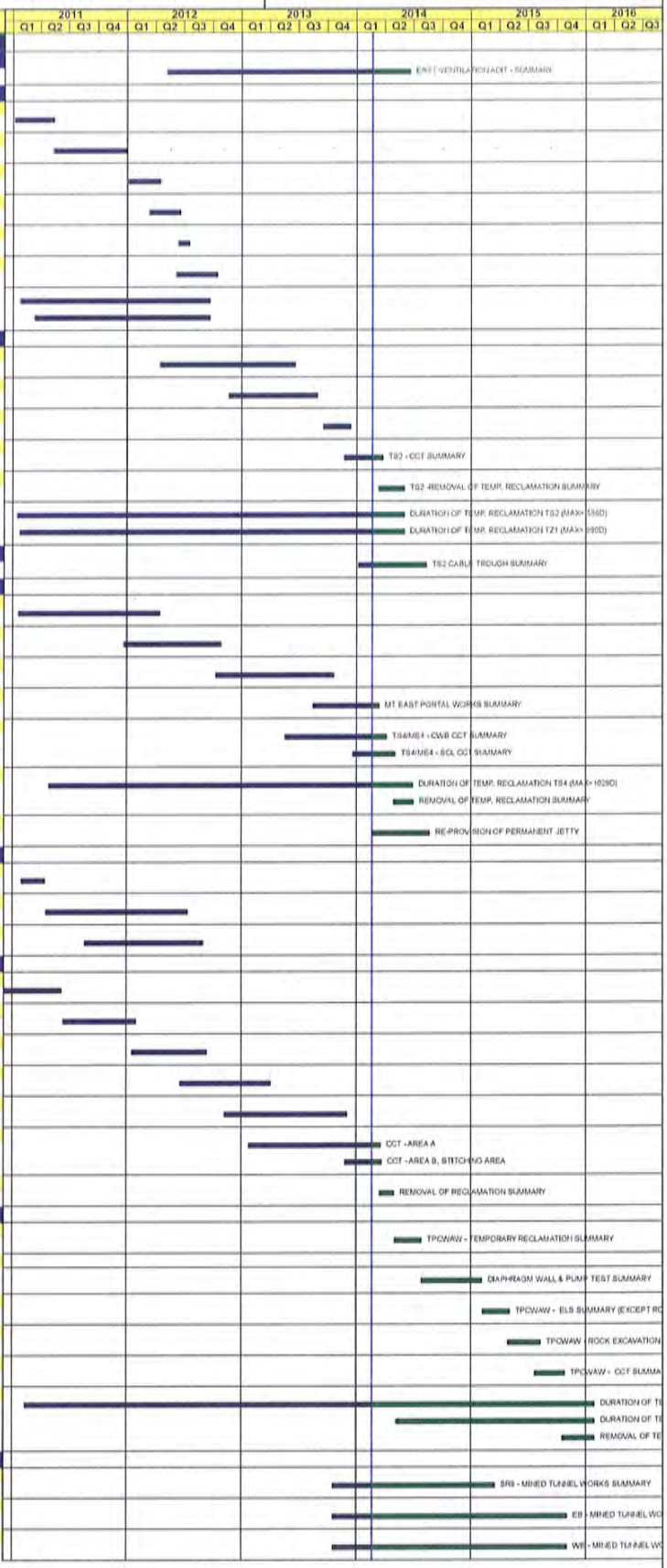


Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

Contract HY/2009/19

Three Month Rolling Programme (20 Jul to 19 Oct 2014)

Activity Name	Duration (cal days)	Start	Finish	Total Float
HY/2009/15 - Works Programme Rev. K (DD:20-Feb-14) 1st Submission				
Works in East Ventilation Adit - Based on Alternative Method				
EAST VENTILATION ADIT - SUMMARY	774d	09-May-12 A	26-Jun-14	14d
Works in TS1 Area (Portion 13A, 13B) & CCT at Portion 1,2,4,6,22				
TS1 - Temporary Reclamation				
TS1 - TEMPORARY RECLAMATION SUMMARY	127d	07-Jan-11 A	13-May-11 A	
TS1 - Diaphragm Wall				
TS1 DIAPHRAGM WALL & PUMP TEST SUMMARY	215d	19-May-11 A	30-Dec-11 A	
TS1 - ELS Works				
TS1 ELS SUMMARY	101d	05-Jan-12 A	16-Apr-12 A	
TS1- CCT RC Structure				
TS1 CCT - SUMMARY	180d	12-Jan-12 A	19-Jun-12 A	
EV Adit at Portion 1,2 6, 22				
EVA AT PORTION 1 & 2	27d	13-Jun-12 A	17-Jul-12 A	
TS1 - Removal of Temp. Reclamation				
TS1 - REMOVAL OF TEMP. RECLAMATION SUMMARY	133d	04-Jun-12 A	15-Oct-12 A	
Removal of Temp. Reclamation				
DURATION OF TEMP. RECLAMATION TS1W (MAX=391D)	604d	25-Jan-11 A	20-Sep-12 A	
DURATION OF TEMP. RECLAMATION TS1E (EXCLUDING TS1W) (MAX=261D)	557d	13-Mar-11 A	20-Sep-12 A	
Works in TS2 Area (Portion 13A, 13B)				
TS2 - Temporary Reclamation				
TS2 - TEMPORARY RECLAMATION SUMMARY	430d	16-Apr-12 A	20-Jun-13 A	
TS2 - Diaphragm Wall				
TS2 - DIAPHRAGM WALL SUMMARY	261d	21-Nov-12 A	28-Aug-13 A	
TS2 - ELS Works				
TS2 ELS SUMMARY	87d	17-Sep-13 A	13-Dec-13 A	
TS2 - CCT RC Structure				
TS2 - CCT SUMMARY	123d	23-Nov-13 A	25-Mar-14	-59d
TS2 - Removal of Temp. Reclamation				
TS2 -REMOVAL OF TEMP. RECLAMATION SUMMARY	82d	11-Mar-14	31-May-14	-122d
Removal of Temp. Reclamation				
DURATION OF TEMP. RECLAMATION TS2 (MAX= 586D)	1232d	15-Jan-11 A	31-May-14	-122d
DURATION OF TEMP. RECLAMATION TZ1 (MAX= 990D)	1223d	25-Jan-11 A	31-May-14	-122d
Works in TS1/TS2 - Cable Trough/Maintenance Walkway				
TS2 CABLE TROUGH SUMMARY	218d	06-Jan-14 A	11-Aug-14	-38d
Works in TS4/ME4 Area (Portion 14A, 14B, 15, 23)				
TS4 + ME4 (TS4+ & TZ6) Temporary Reclamation				
TS4 - TEMPORARY RECLAMATION SUMMARY	364d	26-Jan-11 A	16-Apr-12 A	
TS4/ME4 - Diaphragm Wall				
DIAPHRAGM WALL SUMMARY	310d	23-Dec-11 A	27-Oct-12 A	
TS4/ME4 - ELS Works & Rock Excavation				
TS4 - ELS + ROCK EXCAVATION SUMMARY	378d	10-Oct-12 A	22-Oct-13 A	
TS4/ME4 - Mined Tunnel East Portal Works				
MT EAST PORTAL WORKS SUMMARY	201d	16-Aug-13 A	13-Mar-14	-205d
TS4/ME4 - CCT RC Structure				
TS4/ME4 - CWB CCT SUMMARY	310d	29-May-13 A	06-Apr-14	-205d
TS4/ME4 - SCL CCT SUMMARY	125d	29-Dec-13 A	04-May-14	-205d
TS4/ME4 - Removal of Temporary Reclamation				
DURATION OF TEMP. RECLAMATION TS4 (MAX= 1029D)	1159d	26-Apr-11 A	29-Jun-14	-218d
REMOVAL OF TEMP. RECLAMATION SUMMARY	64d	28-Apr-14	30-Jun-14	-218d
Re-Provision of Permanent Jetty/ Floating Pontoon				
RE-PROVISION OF PERMANENT JETTY	150d	20-Feb-14	22-Aug-14	41d
CHT Protection Works at Location A,B,C				
ADMS Installation				
ADMS INSTALLATION - SUMMARY	74d	01-Feb-11 A	15-Apr-11 A	
Standby Dewatering System(CSD: Grout Curtain Cut-off Wall Scheme)				
STANDBY DEWATERING SYSTEM - SUMMARY	452d	19-Apr-11 A	13-Jul-12 A	
VO.NO. 8 - Steel Weights & Aluminum Cladding Inside CHT				
VO No. 8 & 14 - STEEL WEIGHTS & CLADDING SUMMARY	378d	20-Aug-11 A	31-Aug-12 A	
Works in TPCWAE Area (Portion 20A, 20B)				
TPCWAE - Temporary Reclamation				
TPCWAE - TEMPORARY RECLAMATION SUMMARY	143d	08-Dec-10 A	07-Jun-11 A	
TPCWAE - Diaphragm Wall				
DIAPHRAGM WALL & PUMP TEST SUMMARY	232d	13-Jun-11 A	30-Jan-12 A	
TPCWAE - ELS Works & Soft Excavation				
TPCWAE - ELS SUMMARY (EXCEPT ROCK EXCAVATION)	240d	17-Jan-12 A	12-Sep-12 A	
TPCWAE - Rock Excavation				
TPCWAE - ROCK EXCAVATION SUMMARY	276d	19-Jun-12 A	05-Apr-13 A	
MT West Portal Works				
MT WEST PORTAL WORKS SUMMARY	375d	08-Nov-12 A	04-Dec-13 A	
CCT RC Structure				
CCT - AREA A	359d	24-Jan-13 A	18-Mar-14	-127d
CCT - AREA B, STITCHING AREA	111d	27-Nov-13 A	23-Mar-14	-127d
Removal of Temporary Reclamation				
REMOVAL OF RECLAMATION SUMMARY	43d	15-Mar-14	30-Apr-14	-143d
Works in TPCWAW Area				
TPCWAW - Temporary Reclamation				
TPCWAW - TEMPORARY RECLAMATION SUMMARY	86d	02-May-14	30-Jul-14	0d
TPCWAW - Diaphragm Wall				
Diaphragm Wall				
DIAPHRAGM WALL & PUMP TEST SUMMARY	193d	27-Jul-14	04-Feb-15	0d
TPCWAW - ELS Works				
TPCWAW - ELS SUMMARY (EXCEPT ROCK EXCAVATION)	88d	06-Feb-15	04-May-15	0d
TPCWAW - ROCK EXCAVATION				
TPCWAW - ROCK EXCAVATION SUMMARY	104d	29-Apr-15	10-Aug-15	1d
TPCWAW - CCT RC Structure				
TPCWAW - CCT SUMMARY	94d	24-Jul-15	25-Oct-15	0d
TPCWAW - Removal of Temporary Reclamation				
DURATION OF TEMP. RECLAMATION TZ5 (MAX=1668D)	1812d	11-Feb-11 A	27-Jan-16	0d
DURATION OF TEMP. RECLAMATION TPCWAW MAX=618D)	629d	09-May-14	27-Jan-16	0d
REMOVAL OF TEMP. RECLAMATION SUMMARY	99d	19-Oct-15	27-Jan-16	0d
Works for Mined Tunnel (Portion 16, 17, 18)				
(SR8) Slip Road 8 Tunnel, Total L = 167m, less 13m at WP and less 5m at EP= 149m Tunnel Excav				
SR8 - MINED TUNNEL WORKS SUMMARY	515d	19-Oct-13 A	17-Mar-15	230d
(EB) East Bound Tunnel, L = 167m, less 7m at WP and less 1.5m at EP= 158.5m Tunnel Excav				
EB - MINED TUNNEL WORKS SUMMARY	745d	19-Oct-13 A	02-Nov-15	0d
(WB) West Bound Tunnel, L = 153m, less 7m at WP and less 1.5m at EP= 144.5m Tunnel Excav				
WB - MINED TUNNEL WORKS SUMMARY	745d	19-Oct-13 A	02-Nov-15	0d



Actual Level of Effort
Remaining Level of Effort
◆ Milestone
◆ Milestone

China State Construction Engineering (HK) Ltd :

HY/2009/15 - CWB Tunnel(CBTS)

EXECUTIVE SUMMARY PROGRAMME

Prepared by William Caluza

Date	Revision	Checked	Approved
20-Feb-14	Executive Summary Progra...	GC	KC

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	Predecessors	Successors
PPU8050	Positioning of the Unit	1	19-Jul-13	19-Jul-13	49	PPU8040	SSU9010
Sheetpilling (Beyond the Precast Box Unit) - II		180	02-Sep-13	28-Feb-14	35		
PCW1830	Sheetpilling Works (Beyond the Precast Box Unit - (Western) - (W329-W411)	75	02-Sep-13*	30-Nov-13	30	PPU8050	PCW1840
PCW1840	Sheetpiling Works (Beyond the Precast Box Unit) - (Eastern) - (E464-E637)	71	02-Dec-13	28-Feb-14	30	PCW1830	
Site Stiching of Precast Box Unit		132	22-Jul-13	30-Nov-13	107		
Site Stitching Precast Combined Unit		132	22-Jul-13	30-Nov-13	107		
SSU9010	Grouting gaps between base slab and bored piles within the gasket (51nos.)	10	22-Jul-13	01-Aug-13	78	PPU8050	SSU9020
SSU9020	Coring along reserved slevee pipe to bored piles (816nos.)	86	31-Jul-13	11-Nov-13	78	SSU9010	SSU9030
SSU9030	Placing dowel bars and grouting works (816nos.)	82	12-Aug-13	18-Nov-13	78	SSU9020	SSU9040
SSU9040	Grouting of Protection Layer for Exposed Dowel Bar (51nos.)	47	07-Oct-13*	30-Nov-13	85	SSU9030	MPU1110
Outstanding Works inside Precast Box Unit after Stitching		138	18-Nov-13	04-Apr-14	0		
Pump out Water from Pre-cast Box Unit		43	20-Jan-14	03-Mar-14	15		
MPU1000	Dewater Box B2-1	2	20-Jan-14*	21-Jan-14	14	MPU1110	MPU1120
MPU1010	Dewater Box B2-2	1	12-Feb-14*	12-Feb-14	14	MPU1120	MPU1130
MPU1020	Dewater Box B3	1	03-Mar-14*	03-Mar-14	13	MPU1130	MPU1140
Filling of Box Culvert		123	18-Nov-13	20-Mar-14	15		
MPU1100	Submission and Approval of Infill Proposal	36	18-Nov-13*	31-Dec-13	15	SSU9030	MPU1110
MPU1110	Fill WAC & 4B(Small Portion)	15	02-Jan-14*	18-Jan-14	15	MPU1100	MPU1000
MPU1120	Fill Box B2-1	15	23-Jan-14*	12-Feb-14	14	MPU1000	MPU1010
MPU1130	Fill Box B2-2	15	13-Feb-14*	01-Mar-14	14	MPU1010	MPU1020
MPU1140	Fill Box B3	15	04-Mar-14*	20-Mar-14	13	MPU1020	
Box Culvert Concreting to seal wall access opening		69	16-Dec-13	22-Feb-14	18		
MPU1200	Box Culvert Concreting to seal Wall Access opening	54	16-Dec-13*	22-Feb-14	15	MPU1100	MPU1300
Concrete to Seal Access Opening on Top Slab		61	20-Jan-14	21-Mar-14	14		
MPU1300	Concrete to Seal Access Opening on Top Slab	50	20-Jan-14*	21-Mar-14	12	MPU1110	MPU1400
Removal of Turrents		35	01-Mar-14	04-Apr-14	0		
MPU1400	Removal of Turrets	30	01-Mar-14*	04-Apr-14	0	MPU1300	
Outstanding Works outside Precast Unit after Stitching		177	22-Jul-13	14-Jan-14	80		
Removal of Survey Tower + Towing Furniture		6	22-Jul-13	27-Jul-13	156		
MPU2000	Removal of Survey Tower + Towing Furniture	6	22-Jul-13	27-Jul-13	128	PPU8050	MPU2100
Concrete Repair Sloted Panels		48	30-Oct-13	16-Dec-13	94		
MPU2100	Concrete Repair Sloted Panels	41	30-Oct-13*	16-Dec-13	75	MPU2000	MPU2300
Concrete Repair WAC		12	03-Jan-14	14-Jan-14	80		
MPU2200	Concrete Repair WAC	10	03-Jan-14*	14-Jan-14	66	MPU2310	
Install Slotted Panels		17	17-Dec-13	02-Jan-14	92		
MPU2300	Install Slotted Panels	11	17-Dec-13*	31-Dec-13	75	MPU2100	MPU2310
MPU2310	Insitu Concrete Capping	15	19-Dec-13*	02-Jan-14	92	MPU2300	MPU2200
Protection to Waterproofing		24	26-Nov-13	19-Dec-13	106		
MPU2500	Protection to Waterproofing (Box 4A & 4B)	21	26-Nov-13*	19-Dec-13	85	MPU2000	
Works To be Done After Tunnel Connection		0			0		
Dewater Box B4A-2 & Box 4B(B4B-1~B4B-3)		0			0		
Construction of Drain Pipes, Profile Barriers and Infill Concrete, etc.		0			0		
Intermediate Slab		0			0		
Removal of Bulkheads		0			0		
Section II		299	29-Sep-12	24-Jul-13	254		
Road Works		299	29-Sep-12	24-Jul-13	254		
TAR8000	Taking over from other parties	0	29-Sep-12*		254	CNO1010	P1A1000
TAR8010	Consent from HKCEC	0	29-Sep-12*		258	CNO1010	P1A1000
Temporary Access Road at HKCEC West Bridge		299	29-Sep-12	24-Jul-13	254		
Phase IA - (1) (Expo Drive Central)		162	13-Dec-12	23-May-13	266		
P1A1000	Occupation of Site Area	0	13-Dec-12		254	TAR8000	P1A1010
P1A1010	Excavation (B1201 & Gullies)	18	20-Dec-12	06-Jan-13	266	P1A1000	P1A1020
P1A1020	Drainages (B1201 & Gullies)	22	21-Dec-12	11-Jan-13	266	P1A1010	P1A1030
P1A1030	Ducts (Traffic Signals)	34	22-Dec-12	24-Jan-13	266	P1A1020	P1A1040
P1A1040	Re-occupied by C1 (Maintain the footway for pedestrians)	60	15-Feb-13	15-Apr-13	266	P1A1030	P1A1060
P1A1060	Breaking of Existing Footway	11	28-Apr-13	08-May-13	266	P1A1040	P1A1070
P1A1070	Kerbs	6	02-May-13	07-May-13	266	P1A1060	P1A1080

Actual Work
Remaining Work
Critical Remaining ...
Milestone
Summary

Date	Revision	Ch...	Approved
14-Aug-12	Rev. H	MF	KT
19-Sep-12	Rev. I	MF	KT
21-Nov-12	Rev. J	MF	KT
19-Feb-13	Rev. K	MF	KT
05-Mar-13	Rev. L	MF	KT
21-May-13	Rev. M	MF	KT
20-Aug-13	Rev. N	MF	EY
15-Nov-13	Rev. O	WC	EY

Contract No.: HK/2010/06

Wan Chai Development Phase II-

Central-Wan Chai Bypass over MTR Tuen Wan Line

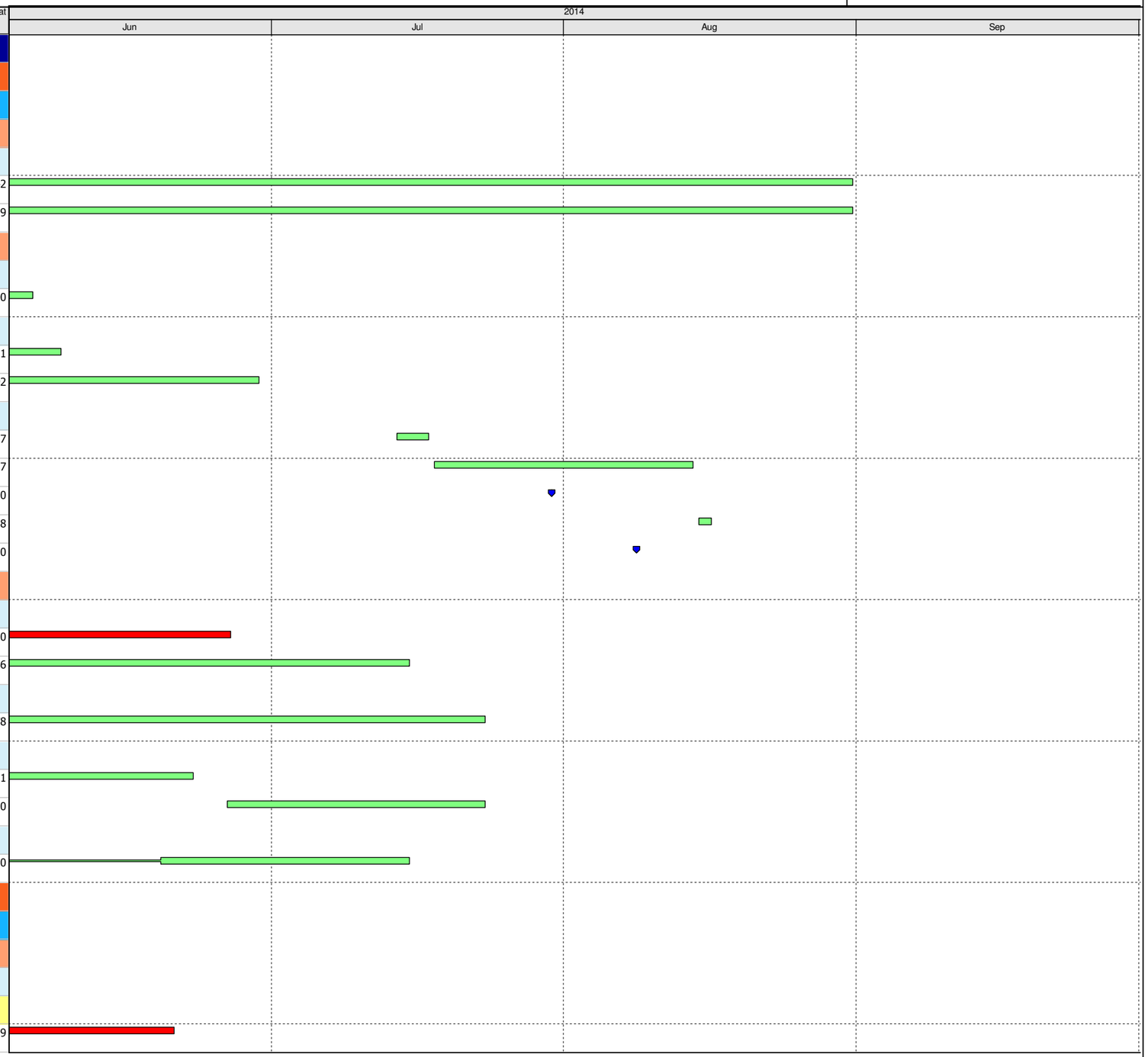
(Works Programme - Rev. O)

金門 - 利達聯營
Gammon – Leader Joint Venture

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	Total Float
HK/2012/08 3-Mth Rolling Programme for Jun 2014 - Aug 2014 Rev. 1 on 24Jun14					
Dredging and Reclamation					
Marine Work Construction					
Dredging					
Dredging - Zone D					
MAR11880	Zone D - Remove existing rock armour [S8-S10]	90	16-Apr-14 A	31-Aug-14	42
MAR11900	Zone D - dredging [R8-R10]	22	02-Dec-13 A	31-Aug-14	9
Seawall Construction					
Seawall Construction - Zone B					
MAR21430	Zone B - WDII Box 1 temp SW - place concrete block	6	31-May-14	05-Jun-14	1700
Seawall Construction - Zone A2					
MAR10765	Zone A2 - seawall - Type 4, 13 - fill rock mound to temp diversion channel I.L. at -1.5 mPD	18	22-Mar-14 A	08-Jun-14	1
MAR10769	Zone A2 - seawall - form temporary rock fill to temp diversion channel I.L. at -1.5 mPD	30	31-May-14	29-Jun-14	92
Seawall Construction - Zone D					
MAR11820	Zone D - fill rock mound for seawall 2F	4	14-Jul-14	17-Jul-14	7
MAR11882	Zone D - pile head treatment for caisson seawall 2F	24	18-Jul-14	14-Aug-14	7
MAR11884	Zone D - complete fabrication of Caisson Seawall 2F and ready for delivery	0		30-Jul-14*	0
MAR11885	Zone D - deliver and Install Caisson Seawall 2F	2	15-Aug-14	16-Aug-14	8
MAR11925	Zone D - complete fabrication of Caisson Seawall 1C and ready for delivery	0		08-Aug-14*	0
Filling					
Filling - Zone B					
MAR11135	Zone B - Public Fill (Remaining Area) -10.0 to +4.0mPD	39	05-May-14 A	26-Jun-14	0
MAR11140	Zone B - Sorted & Compacted Fill above MTR TWL	30	07-Apr-14 A	15-Jul-14	86
Filling - Zone A2					
MAR20360	Zone A2 - Public Fill -4.0 to +4.0mPD (portion beside Culvert L diversion only)	25	25-May-14 A	23-Jul-14	78
Filling - Zone A1					
MAR20400	Zone A1 - Public Fill -4.0 to +4.0mPD	22	29-May-14 A	22-Jun-14	1
MAR20420	Zone A1 & A2 - Form rock underlayer for temp channel	28	26-Jun-14	23-Jul-14	110
Filling - Above C4 Unit					
MAR21450	Zone above C4 Unit - Public fill above MTR TWL	30	15-Apr-14 A	15-Jul-14	150
Works for Section Completion					
Construction					
Box Culvert La, L1 & FRP-L Construction					
Sec VI A - Box Culvert La bay 1-3 and Roadwork					
Box Culvert La Bay 1-3					
CUL10480	Sec VI A - Area 1 - Culvert L bay 1-3 - excavation and ELS installation	90	14-Mar-14 A	20-Jun-14	-59



Data Date:
31-May-14

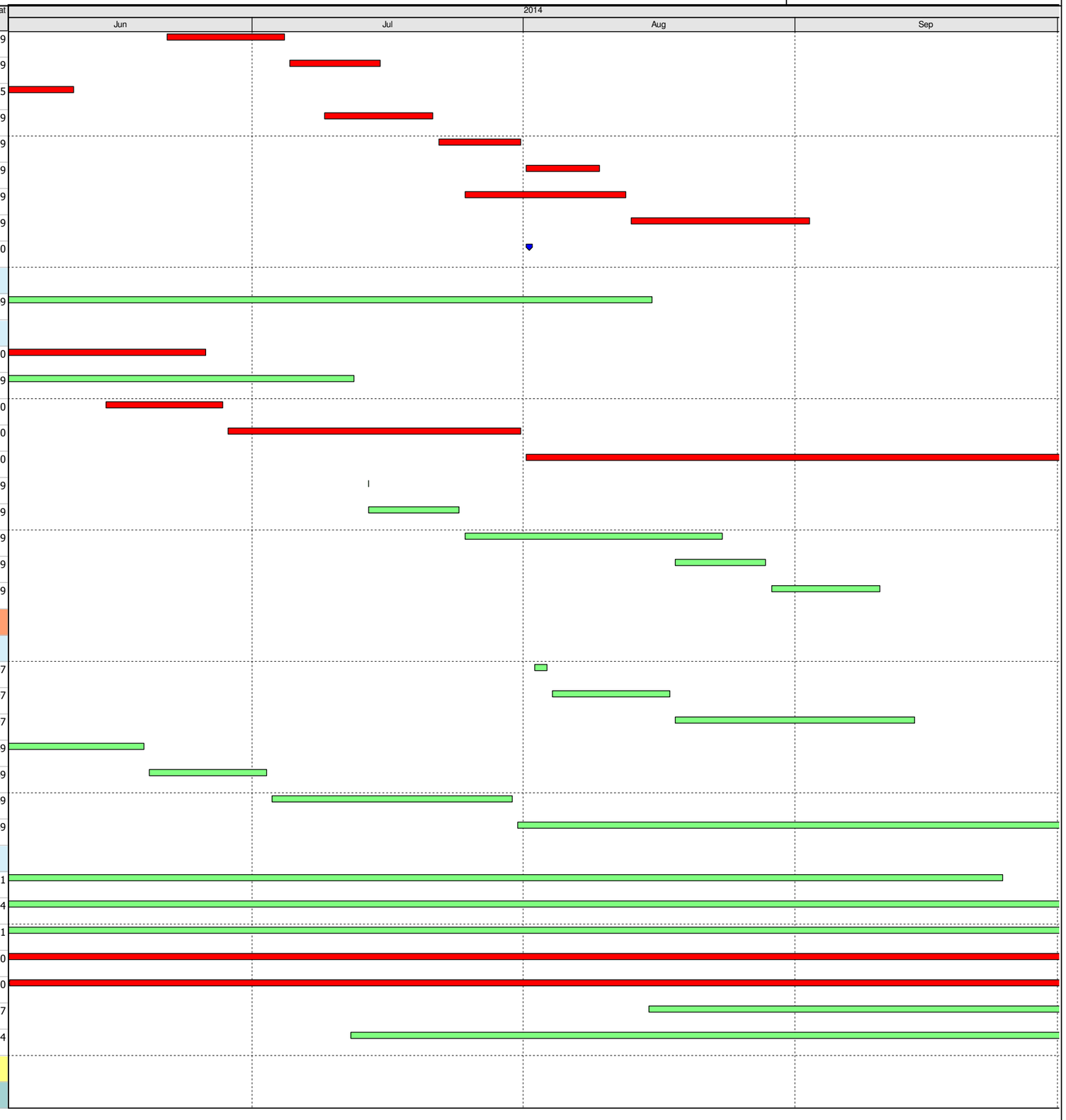
Current Milestone
Actual Work
Critical Remaining Work
Remaining Work
Remaining Level of Effort

3 - Months Rolling Programme (June 2014 to August 2014)

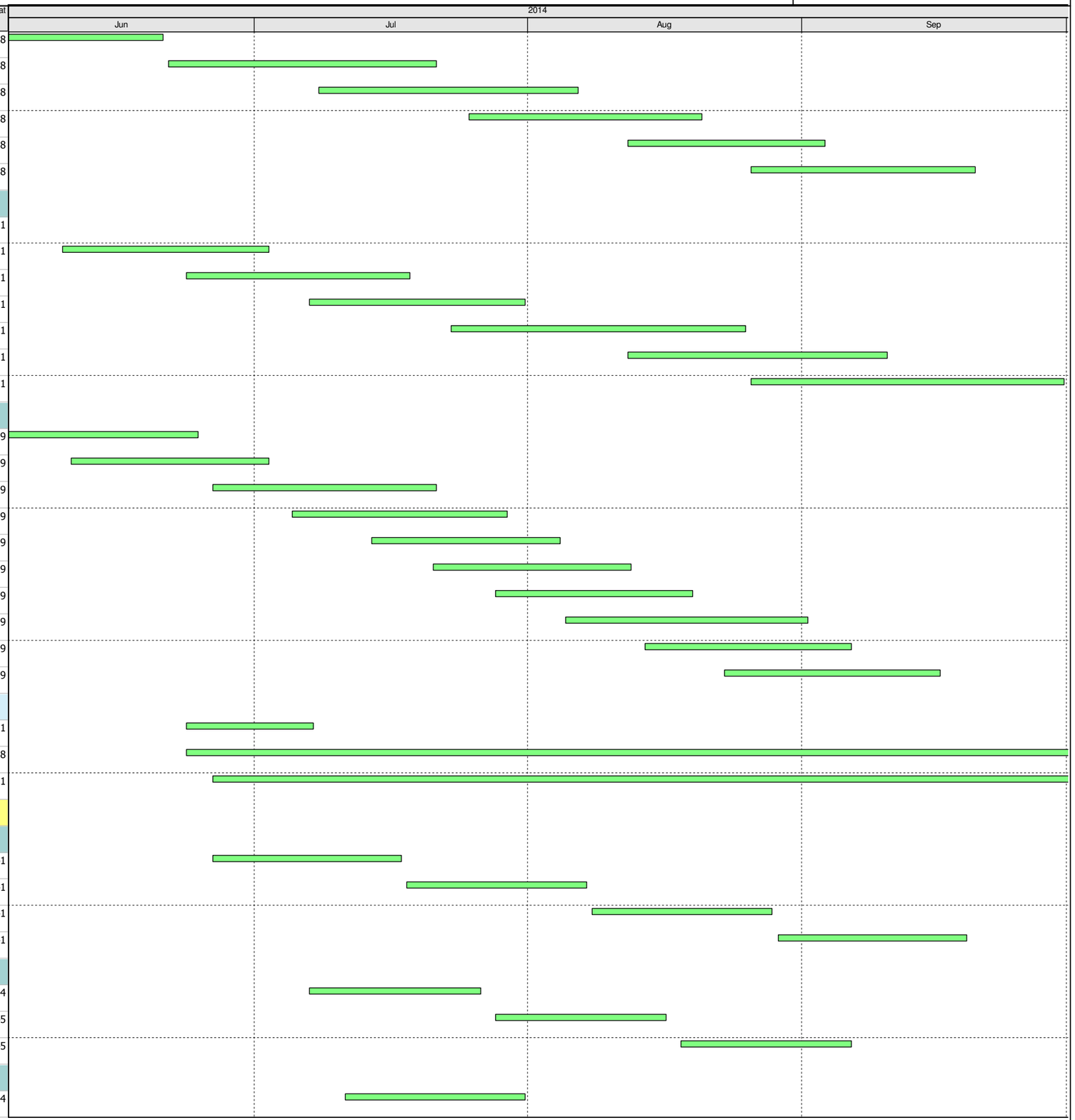
For Zone Non-CRIII Works

Date	Revision	Checked	Approved
31-May-14			

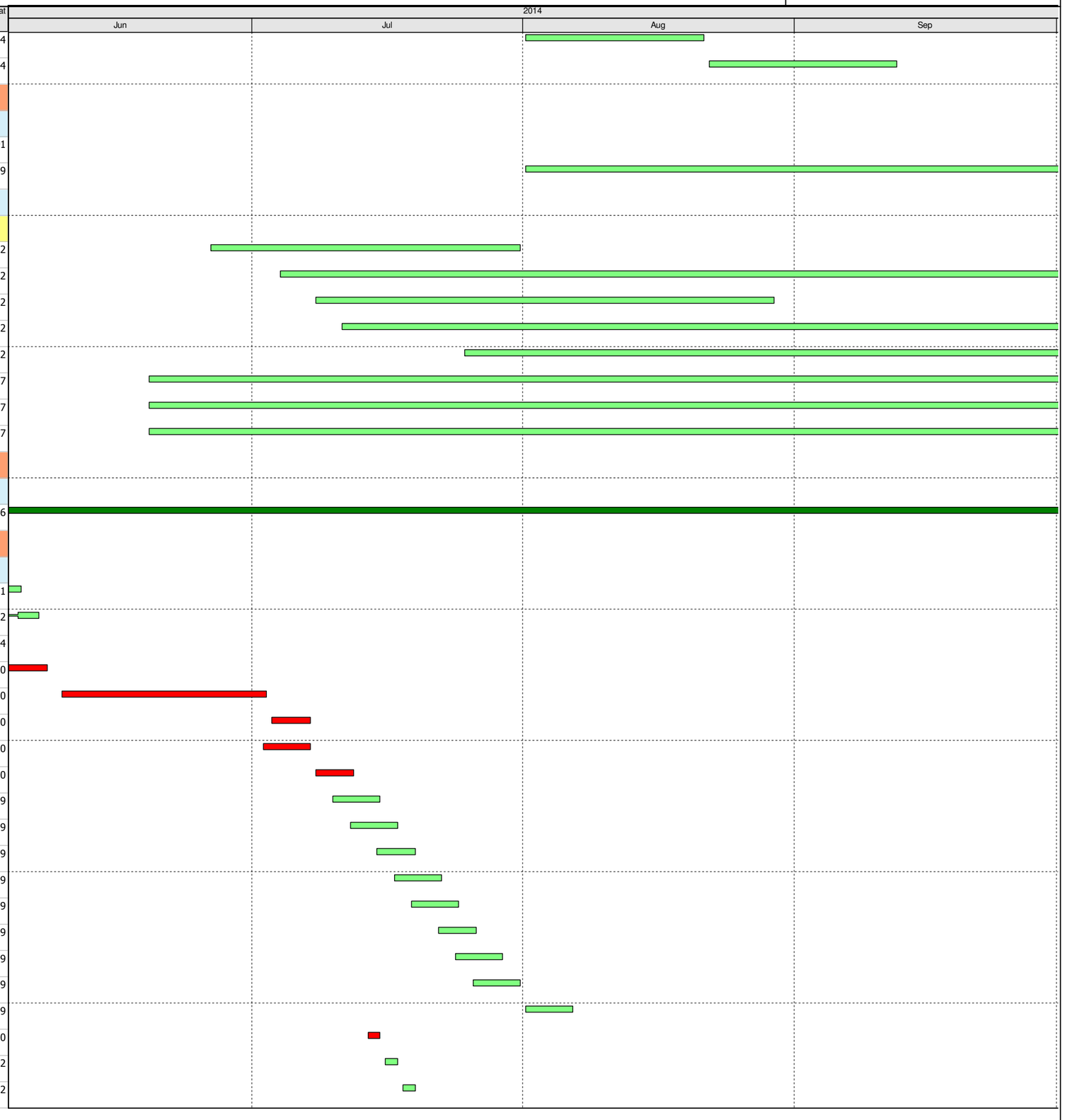
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
CUL10520	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 3 - base slab	11	21-Jun-14	04-Jul-14	-59
CUL10540	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 3 - wall	9	05-Jul-14	15-Jul-14	-59
CUL10560	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 3 - top slab	8	31-May-14	10-Jun-14	-25
CUL10600	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - base slab	11	09-Jul-14	21-Jul-14	-59
CUL10620	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - wall	9	22-Jul-14	31-Jul-14	-59
CUL10640	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 2 - top slab	8	01-Aug-14	09-Aug-14	-39
CUL10660	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 1 - base slab	16	25-Jul-14	12-Aug-14	-59
CUL10680	Sec VI A - Area 1 - Culvert L bay 1-3 - construct bay 1 - wall	18	13-Aug-14	02-Sep-14	-59
CUL12040	Sec VI A - Area 1 - 9M completion of Kiosk reinstatement	0		01-Aug-14*	0
Sec VI C - Box Culvert La bay 4 and Roadwork					
CUL11570	Sec VI C - Culvert L - bay 4 - sheetpile, ELS & Excavation	45	06-Jan-14 A	15-Aug-14	69
Box Culvert L1 & FRP-L - Bay 5 to 7					
CUL10010	Drainage Impact Assessment for ex. box culvert L diversion - Eng, DSD comment and approve	60	22-Jul-13 A	25-Jun-14	0
CUL10015	Culvert L - form temp opening at existing box culvert bay 4 for temp flow diversion	35	31-May-14	12-Jul-14	99
CUL10215	Sec VI C - Culvert L - bay 5,6,7 - Design of Temp Platform for Predrill & Piling Works	12	14-Jun-14	27-Jun-14	0
CUL10218	Sec VI C - Culvert L - bay 5,6,7 - Engineer's comment and approve of Temp Platform for Predrill & Piling Works	28	28-Jun-14	31-Jul-14	0
CUL10225	Sec VI C - Culvert L - bay 5,6,7 - Erect Temp Platform for Predrill & Piling Works	75	01-Aug-14	30-Oct-14	0
CUL10860	Sec VI C - Culvert L - bay 5-7 - pile loading test	0	14-Jul-14	14-Jul-14	99
CUL10880	Sec VI C - Culvert L - bay 5-7 - install sheetpile	10	14-Jul-14	24-Jul-14	99
CUL10900	Sec VI C - Culvert L - bay 5-7 - excavation & ELS	26	25-Jul-14	23-Aug-14	99
CUL10940	Sec VI C - Culvert L - bay 5 - pile head treatment and construct pile cap	10	18-Aug-14	28-Aug-14	99
CUL11020	Sec VI C - Culvert L - bay 6 - pile head treatment and construct pile cap	10	29-Aug-14	10-Sep-14	99
Section II - MVB Structure					
Section II - MVB Substructure - Design, Submission and Approval					
SII10180	Sec II - MVB - MS for pumping test - prepare and submit to ICE	2	02-Aug-14	03-Aug-14	97
SII10200	Sec II - MVB - MS for pumping test - ICE check & issue cert	14	04-Aug-14	17-Aug-14	97
SII10220	Sec II - MVB - MS for pumping test - Eng comment and approve	28	18-Aug-14	14-Sep-14	97
SII10240	Sec II - MVB - MS & temp work design for bulk exc & ELS - prepare and submit to ICE	60	22-Apr-14 A	18-Jun-14	69
SII10260	Sec II - MVB - MS & temp work design for bulk exc & ELS - ICE check & issue cert	14	19-Jun-14	02-Jul-14	69
SII10280	Sec II - MVB - MS & temp work design for bulk exc & ELS - Eng comment and approve	28	03-Jul-14	30-Jul-14	69
SII12321	Sec II - MVB - Temp work design for bulk exc & ELS - Prepare tender and sub-contract	120	31-Jul-14	27-Nov-14	69
MVB Substructure - Diaphragm Wall and Sheetpile Wall					
SII10440	Sec II - MVB - predrilling and ground pretreatment for Dwall	158	17-Mar-14 A	24-Sep-14	21
SII10460	Sec II - MVB A - construct guide wall [P1-P13, P33-P41]	177	12-Apr-14 A	20-Nov-14	4
SII10480	Sec II - MVB A - construct Dwall [P1-P13, P33-P41] (1.5m thk on rock)	177	28-May-14 A	16-Dec-14	1
SII10520	Sec II - MVB B - construct guide wall [P14-P32]	177	07-Apr-14 A	21-Nov-14	0
SII10540	Sec II - MVB B - construct Dwall [P14-P32] (1.5m thk on rock)	187	16-Apr-14 A	05-Dec-14	0
SII10560	Sec II - MVB B - contact grout / fissure grout / install pumping well	90	15-Aug-14	01-Dec-14	17
SII10590	Sec II - MVB A&B - grout curtain and fissure grout	135	12-Jul-14	19-Dec-14	4
MVB Substructure - Diaphragm Wall - Construction Sequences					
Group 1					



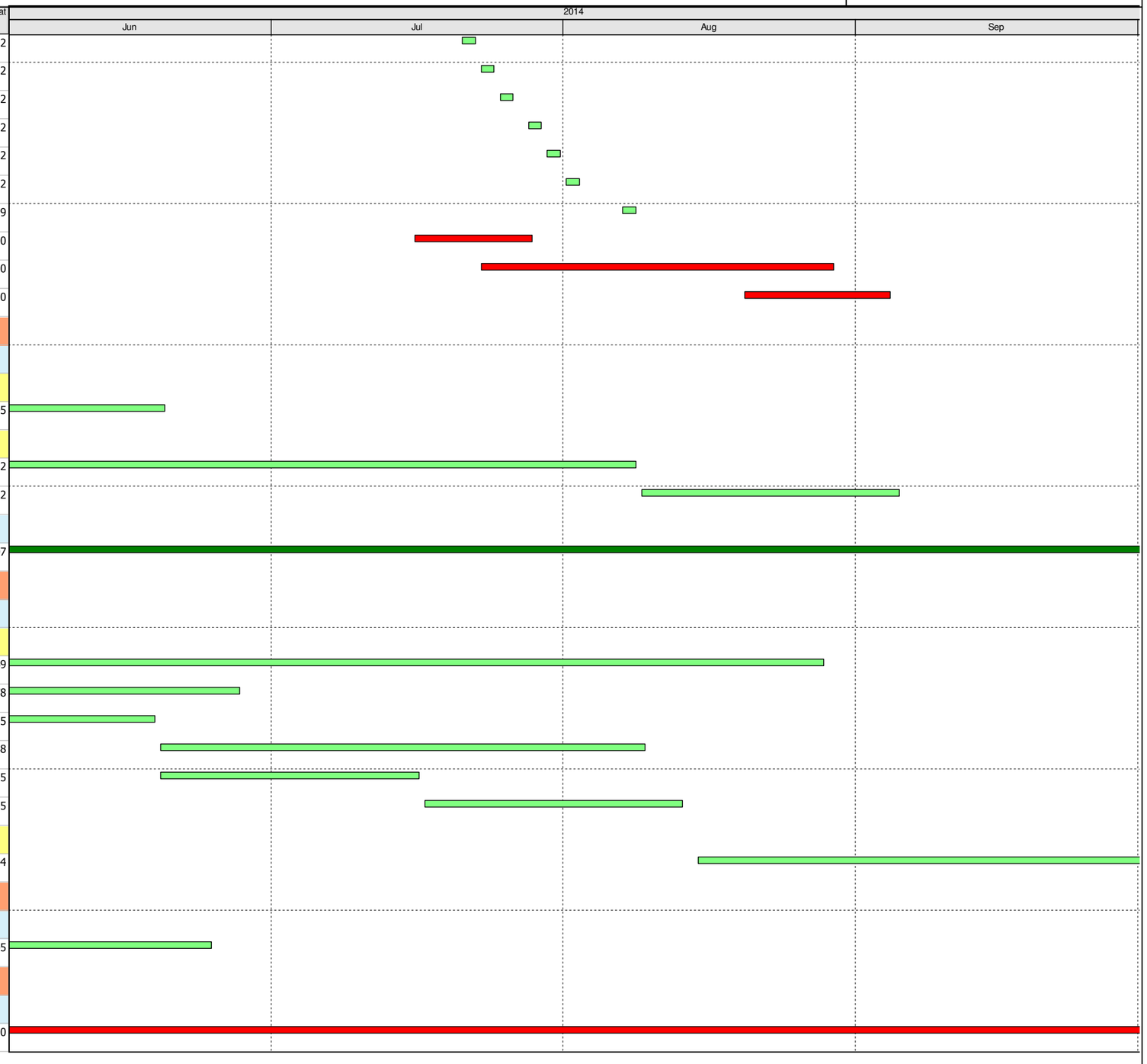
Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
SII-10110	Sec II - MVB - Dwall P19	13	26-May-14 A	20-Jun-14	8
SII-10120	Sec II - MVB - Dwall P17	25	21-Jun-14	21-Jul-14	8
SII-10140	Sec II - MVB - Dwall P28	26	08-Jul-14	06-Aug-14	8
SII-10150	Sec II - MVB - Dwall P18	23	25-Jul-14	20-Aug-14	8
SII-10160	Sec II - MVB - Dwall P27	20	12-Aug-14	03-Sep-14	8
SII-10170	Sec II - MVB - Dwall P22	22	26-Aug-14	20-Sep-14	8
Group 2					
SII-10230	Sec II - MVB - Dwall P30	12	19-May-14 A	31-May-14	11
SII-10240	Sec II - MVB - Dwall P29	20	09-Jun-14	02-Jul-14	11
SII-10250	Sec II - MVB - Dwall P20	22	23-Jun-14	18-Jul-14	11
SII-10260	Sec II - MVB - Dwall P13	22	07-Jul-14	31-Jul-14	11
SII-10270	Sec II - MVB - Dwall P21	29	23-Jul-14	25-Aug-14	11
SII-10280	Sec II - MVB - Dwall P16	25	12-Aug-14	10-Sep-14	11
SII-10290	Sec II - MVB - Dwall P26	30	26-Aug-14	30-Sep-14	11
Group 3					
SII-10330	Sec II - MVB - Dwall P37	23	28-May-14 A	24-Jun-14	19
SII-10340	Sec II - MVB - Dwall P01	19	10-Jun-14	02-Jul-14	19
SII-10350	Sec II - MVB - Dwall P11	21	26-Jun-14	21-Jul-14	19
SII-10360	Sec II - MVB - Dwall P36	21	05-Jul-14	29-Jul-14	19
SII-10370	Sec II - MVB - Dwall P02	19	14-Jul-14	04-Aug-14	19
SII-10380	Sec II - MVB - Dwall P10	20	21-Jul-14	12-Aug-14	19
SII-10390	Sec II - MVB - Dwall P39	20	28-Jul-14	19-Aug-14	19
SII-10400	Sec II - MVB - Dwall P03	24	05-Aug-14	01-Sep-14	19
SII-10410	Sec II - MVB - Dwall P09	21	14-Aug-14	06-Sep-14	19
SII-10510	Sec II - MVB - Dwall P40	20	23-Aug-14	16-Sep-14	19
MVB Substructure - Bored Pile and Prebored H-Pile					
SII10300	Sec II - MVB A&B - Bored Pile plant mobilisation	12	23-Jun-14	07-Jul-14	1
SII10320	Sec II - MVB A&B - Predrilling for bored pile	90	23-Jun-14	09-Oct-14	38
SII10340	Sec II - MVB A&B - Construct bored piles	148	26-Jun-14	19-Dec-14	1
MVB Substructure - Bored Pile - Construction Sequences					
Group 1					
SII-11000	Ssec II - MVB - Bored Pile BC1-A	18	26-Jun-14	17-Jul-14	41
SII-11020	Ssec II - MVB - Bored Pile BC2-A	18	18-Jul-14	07-Aug-14	41
SII-11030	Ssec II - MVB - Bored Pile BC1-B	18	08-Aug-14	28-Aug-14	41
SII-11040	Ssec II - MVB - Bored Pile BC8	18	29-Aug-14	19-Sep-14	41
Group 2					
SII-11090	Ssec II - MVB - Bored Pile BC2-B	18	07-Jul-14	26-Jul-14	44
SII-11100	Ssec II - MVB - Bored Pile BC3-A	18	28-Jul-14	16-Aug-14	45
SII-11110	Ssec II - MVB - Bored Pile BC14	18	18-Aug-14	06-Sep-14	45
Group 3					
SII-11160	Ssec II - MVB - Bored Pile BC4-A	18	11-Jul-14	31-Jul-14	44



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
SII-11170	Ssec II - MVB - Bored Pile BC11	18	01-Aug-14	21-Aug-14	44
SII-11180	Ssec II - MVB - Bored Pile BC4-B	18	22-Aug-14	12-Sep-14	44
Section II A - CWB Tunnel & Slip Road Structures and Facilities					
Section II A - CWB Tunnel - Design, Submission and Approval					
SIIA10420	CWB Tunnel - MS for DWall Construction - prepare & submit to ICE	30	01-Aug-13 A	31-May-14	91
SIIA10480	CWB Tunnel - MS & temp work design for bulk exc & ELS - prepare & submit to ICE	80	01-Aug-14	19-Oct-14	29
CWB CRIII & A1					
CWB CRIII & A1 - Dwall and Pile Construction					
SIIA11060	Sec II A - CWB A1 - predrilling for Dwall and piles	30	26-Jun-14	31-Jul-14	2
SIIA11080	Sec II A - CWB A1 - carry out ground pretreatment for Dwall	80	04-Jul-14	08-Oct-14	2
SIIA11100	Sec II A - CWB A1 - construct Guide Wall	46	08-Jul-14	29-Aug-14	2
SIIA11120	Sec II A - CWB A1 - construct temporary DWall and temp bulk head wall	70	11-Jul-14	03-Oct-14	2
SIIA11140	Sec II A - CWB A1 - Construct pre-bored H-pile	65	25-Jul-14	11-Oct-14	2
SIIA11180	Sec II A - CWB A1 - D-wall grout curtain / contact grout	90	19-Jun-14	06-Oct-14	7
SIIA11220	Sec II A - CWB A1 - D-wall Sonic test / interface core	90	19-Jun-14	06-Oct-14	7
SIIA11240	Sec II A - CWB A1 - install dewater/ recharge / observation well	90	19-Jun-14	06-Oct-14	7
Section VI A - Area 1 & 2 - Lung King Street					
Roadwork & Utilities					
SVIA10040	Sec VI A - Area 1 - Summary of Box Culvert La Construction	136	11-Nov-13 A	22-Nov-14	-56
Section VI B - Area 8					
Area 8 - Demolish Ex. Cooling Water Pumping Station					
SVIB10020	MS of cooling water pump station demolition - ICE check and issue check cert	14	22-Feb-14 A	04-Jun-14	1
SVIB10040	MS of cooling water pump station demolition Works - Eng comment and approve	28	22-Feb-14 A	06-Jun-14	2
SVIB10060	Completion of reclamation at Zone C	0		31-May-14	24
SVIB10070	Sec VI B - site clearance, u/g utilities detection	12	07-Apr-14 A	07-Jun-14	0
SVIB10080	Sec VI B - demolish existing air duct	20	09-Jun-14	02-Jul-14	0
SVIB10100	Sec VI B - remove existing crane	4	03-Jul-14	07-Jul-14	0
SVIB10120	Sec VI B - open cut excavation to expose ex. seawall and pump house	5	02-Jul-14	07-Jul-14	0
SVIB10140	Sec VI B - demolish existing pump house (cell 1)	5	08-Jul-14	12-Jul-14	0
SVIB10180	Sec VI B - demolish existing pump house (cell 2)	5	10-Jul-14	15-Jul-14	9
SVIB10200	Sec VI B - demolish existing pump house (cell 3)	5	12-Jul-14	17-Jul-14	9
SVIB10220	Sec VI B - demolish existing pump house (cell 4)	5	15-Jul-14	19-Jul-14	9
SVIB10240	Sec VI B - demolish existing pump house (cell 5)	5	17-Jul-14	22-Jul-14	9
SVIB10260	Sec VI B - demolish existing pump house (cell 6)	5	19-Jul-14	24-Jul-14	9
SVIB10280	Sec VI B - demolish existing pump house (cell 7)	5	22-Jul-14	26-Jul-14	9
SVIB10300	Sec VI B - demolish existing pump house (cell 8)	5	24-Jul-14	29-Jul-14	9
SVIB10320	Sec VI B - demolish existing pump house (cell 9)	5	26-Jul-14	31-Jul-14	9
SVIB10340	Sec VI B - demolish existing pump house (cell 10)	5	01-Aug-14	06-Aug-14	9
SVIB10360	Sec VI B - fill up void inside existing pump house (cell 1)	2	14-Jul-14	15-Jul-14	0
SVIB10380	Sec VI B - fill up void inside existing pump house (cell 2)	2	16-Jul-14	17-Jul-14	12
SVIB10400	Sec VI B - fill up void inside existing pump house (cell 3)	2	18-Jul-14	19-Jul-14	12



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float
SVIB10420	Sec VI B - fill up void inside existing pump house (cell 4)	2	21-Jul-14	22-Jul-14	12
SVIB10440	Sec VI B - fill up void inside existing pump house (cell 5)	2	23-Jul-14	24-Jul-14	12
SVIB10460	Sec VI B - fill up void inside existing pump house (cell 6)	2	25-Jul-14	26-Jul-14	12
SVIB10480	Sec VI B - fill up void inside existing pump house (cell 7)	2	28-Jul-14	29-Jul-14	12
SVIB10500	Sec VI B - fill up void inside existing pump house (cell 8)	2	30-Jul-14	31-Jul-14	12
SVIB10520	Sec VI B - fill up void inside existing pump house (cell 9)	2	01-Aug-14	02-Aug-14	12
SVIB10540	Sec VI B - fill up void inside existing pump house (cell 10)	2	07-Aug-14	08-Aug-14	9
SVIB10560	Sec VI B - demolish existing seawall coping	11	16-Jul-14	28-Jul-14	0
SVIB10580	Sec VI B - trim down existing seawall	33	23-Jul-14	29-Aug-14	0
SVIB10600	Sec VI B - backfill and compaction to formation level	14	20-Aug-14	04-Sep-14	0
Section VI C - Area 3, 6, 8A & 8C					
Area 8A & 8C - Seawall Modification (Reviewed)					
Design Submission & Approval					
PRS-1004	Sec VI C - Temp Work Design for Seawall Modification & MTR Pump Room Stabilization - Engineer / MTR comment and approve	28	02-Apr-14 A	19-Jun-14	95
Tenders for Sub-contractor and Procurement					
PCU60310	Sec VI C - Prepare Sub-contract for Seawall Modification and Procurement of Materials	90	14-Nov-13 A	08-Aug-14	12
PCU60320	Sec VI C - Assessement and Award of Sub-contract for Seawall Modification	28	09-Aug-14	05-Sep-14	12
Area 3 - Box Culvert bay 4 and Roadwork					
SVIC10220	Sec VI C - [Summary] Construct Box Culvert Bay 4	116	06-Jan-14 A	06-Dec-14	107
Section VI D - Area 8B & 10					
WDII Box 1 Construction (Reviewed)					
WDII Box 1 Submission and Approval / Material Procurement					
PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	90	26-May-14 A	28-Aug-14	69
S0721040	Sec VI D - WD II Box 1 - temp work design - ICE check and issue check cert	28	31-May-14	27-Jun-14	1678
S0721060	Sec VI D - WD II Box 1 - temp work design - Engineer comment and approve	28	19-May-14 A	18-Jun-14	55
S0721070	Sec VI D - WD II Box 1 - method statement and temp work design - MTR comment and approve	52	19-Jun-14	09-Aug-14	88
S0721080	Sec VI D - WD II Box 1 - Prepare and submit method statement	28	19-Jun-14	16-Jul-14	55
S0721090	Sec VI D - WD II Box 1 - method statement - Engineer comment and approve	28	17-Jul-14	13-Aug-14	55
Pile Head Treatment and Dry Dock					
WD-C3030	Sec VI D - form dry dock	65	15-Aug-14	01-Nov-14	44
Section VIII - Landscape Softworks					
Soft Landscaping Works					
SVIII10020	Sec VIII - Tree Felling/Transplanting at Portion 2 & 2A	90	20-Nov-13 A	24-Jun-14	305
Section X - Protection & Preservation of Trees					
Soft Landscaping Works					
SX10020	Sec X - Protection & Preservation of Trees	1632	31-Jan-13 A	20-Jul-17	0



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CHUN WO - CRGL JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar
Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (dd 20-Jul-14)		2253	963	24-Feb-10 A	29-Oct-17	306	
Programme Milestones (Revised up to EOTO No.10 Issued on 29-Nov-13)		90	90	20-Jul-14	17-Oct-14	-249	Calendar Day
Contractual Completion Dates		0	0	20-Jul-14	20-Jul-14	-159	Calendar Day
KDC0110	Section 7 Works (831 days) - Box Culvert N1 & Works at Aea 7 (7-May-12)	0	0		20-Jul-14*	-803	Calendar Day
KDC0120	Section 8A Works (1003 days) - Wan Chai Ferry Pier Reprovisioning (25-Oct-12)	0	0		20-Jul-14*	-632	Calendar Day
KDC0130	Section 8B Works (1443 days) - Temp Covered Walkway to Reprovided Ferry Pier (10-Jan-14)	0	0		20-Jul-14*	-190	Calendar Day
Soft Landscaping & Establishment Key Dates		0	0	20-Jul-14	20-Jul-14	-159	Calendar Day
KDC0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14)	0	0		20-Jul-14*	-159	Calendar Day
Forecast Completion Dates		74	74	04-Aug-14	17-Oct-14	-249	Calendar Day
KDF0120	Section 8A Works (1003 days) - Wan Chai Ferry Pier Reprovisioning	0	0		04-Aug-14	-648	Calendar Day
Soft Landscaping & Establishment Key Dates		0	0	17-Oct-14	17-Oct-14	-249	Calendar Day
KDF0140	Section 8C Works (1473 days) - Landscape Softworks in Area 8	0	0		17-Oct-14	-249	Calendar Day
Preliminaries		575	180	25-May-13 A	15-Jan-15	1398	Calendar Day
Critical Submission & Approval		575	180	25-May-13 A	15-Jan-15	1398	Calendar Day
PRE-SUB-1030B	Temp Steel Bridge 3 Design for HHR Flyover Diversion Stage 2 - Design Approval	60	7	25-May-13 A	26-Jul-14	-360	Calendar Day
PRE-SUB-1000B	Temp Covered Walkway Capping Beam - Design Approval	30	14	19-Jun-13 A	02-Aug-14	1564	Calendar Day
PRE-SUB-1010B	Temp Covered Walkway Cover System (PS30.5) - Design Approval	30	7	12-Jun-14 A	26-Jul-14	-462	Calendar Day
CSD for CWB Tunnel		575	180	08-Jun-13 A	15-Jan-15	1398	Calendar Day
PRE-CSD-3000B	Tunnel Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30	10	08-Jun-13 A	29-Jul-14	1568	Calendar Day
PRE-CSD-2000B	Tunnel Portion 2 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30	7	19-Jul-13 A	26-Jul-14	1571	Calendar Day
PRE-CSD-5000B	Tunnel Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO	60	30	15-Aug-13 A	18-Aug-14	-67	Calendar Day
PRE-CSD-2030B	Tunnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AECOM	60	30	16-Nov-13 A	18-Aug-14	160	Calendar Day
PRE-CSD-3010B	Tunnel Portion 3&4 - ELS Submission Approval by AECOM & GEO	60	30	17-Jan-14 A	18-Aug-14	-117	Calendar Day
PRE-CSD-2010B	Tunnel Portion 2 - ELS Submission Approval by AECOM & GEO	60	10	30-Jan-14 A	29-Jul-14	19	Calendar Day
PRE-CSD-5010A	Tunnel Portion 5 - ELS ICE Submission	120	120	20-Jul-14	16-Nov-14	-161	Calendar Day
PRE-CSD-6010A	Tunnel Portion 6 - ELS ICE Submission	120	120	20-Jul-14	16-Nov-14	151	Calendar Day
PRE-CSD-5010B	Tunnel Portion 5 - ELS Submission Approval by AECOM & GEO	60	60	17-Nov-14	15-Jan-15	-161	Calendar Day
PRE-CSD-6010B	Tunnel Portion 6 - ELS Submission Approval by AECOM & GEO	60	60	17-Nov-14	15-Jan-15	151	Calendar Day
Critical Procurement & Site Delivery		121	25	22-Apr-14 A	13-Aug-14	1553	Calendar Day
PRE-PRO-1200B	Fabrication of Temp Steel Bridge 2 for HHR Flyover Diversion Stage 2	30	10	22-Apr-14 A	29-Jul-14	-363	Calendar Day
PRE-PRO-1200C	Fabrication of Temp Steel Bridge 3 for HHR Flyover Diversion Stage 2	30	10	22-Apr-14 A	29-Jul-14	1568	Calendar Day
PRE-PRO-1100A	GRP Roof Panel for Temp Covered Walkway (Type 1)	60	25	15-Jun-14 A	13-Aug-14	-450	Calendar Day
PRE-PRO-1100B	GRP Roof Panel for Temp Covered Walkway (Type 2)	60	25	15-Jun-14 A	13-Aug-14	-450	Calendar Day
PRE-PRO-1200A	Fabrication of Temp Steel Bridge 1 for HHR Flyover Diversion Stage 2	30	15	15-Jun-14 A	03-Aug-14	-350	Calendar Day
Section 3 of the Works - Reprovisioning of Government Helipad and Public Toilet		254	25	11-Aug-12 A	18-Aug-14	1244	HK Working Day
Outstanding Works		254	25	11-Aug-12 A	18-Aug-14	1244	HK Working Day
S3-0070-1499	Reinstatement of armour rock, retaining walls & new covered walkway along Expo Drive East	254	25	11-Aug-12 A	18-Aug-14	1244	HK Working Day
Section 4A of the Works - Cooling Water Pumping System for Sun Hung Kai Centre (P8)		365	211	16-Feb-14 A	15-Feb-15	1367	Calendar Day
Cooling Mains Work above Tunnel Portion & connecting to Pump Station		365	211	16-Feb-14 A	15-Feb-15	1367	Calendar Day
S4A-0900	Outstanding Works	365	211	16-Feb-14 A	15-Feb-15	1367	Calendar Day
Section 4B of the Works - Cooling Water Pumping System for China Resources Building (P9)		292	61	01-Oct-13 A	30-Sep-14	1208	
Cooling Mains Work within Hoarding Area		6	3	08-May-14 A	23-Jul-14	1266	HK Working Day
Zone 4A Pipe Installation CHAI 080-160		6	3	08-May-14 A	23-Jul-14	1266	HK Working Day
S4B-0060-180	Reinstatement	6	3	08-May-14 A	23-Jul-14	1266	HK Working Day
Cooling Mains Work above Tunnel Portion & connecting to Pump Station		365	73	01-Oct-13 A	30-Sep-14	1505	Calendar Day
S4B-0900	Outstanding Works	365	73	01-Oct-13 A	30-Sep-14	1505	Calendar Day
Section 4C of the Works - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7)		365	124	21-Nov-13 A	20-Nov-14	1454	Calendar Day
Cooling Mains Work above Tunnel Portion & connecting to Pump Station		365	124	21-Nov-13 A	20-Nov-14	1454	Calendar Day
S4C-0900	Outstanding Works	365	124	21-Nov-13 A	20-Nov-14	1454	Calendar Day
Section 5 of the Works - WSD Salt Water Pumping System		549	184	20-Apr-13 A	05-Mar-15	1085	
Salt Water Intake Culvert Construction		23	7	20-Apr-13 A	28-Jul-14	-654	HK Working Day
Bay 6 - Bay 18: Ex-Pet Garden & Hung Hing Road		23	7	20-Apr-13 A	28-Jul-14	-654	HK Working Day
S5-100-3333	Backfilling to Bay 6 to Bay 11 (2,000m3; 150m3/d)	23	7	20-Apr-13 A	28-Jul-14	-654	HK Working Day
Overall Testing & Commissioning of Reprovisioned Salt Water Intake System		365	229	06-Mar-14 A	05-Mar-15	1349	Calendar Day
S5-0900	Outstanding Works	365	229	06-Mar-14 A	05-Mar-15	1349	Calendar Day
Section 7 of the Works - Box Culvert N1 & Flood Relief System		179	110	09-Apr-14 A	28-Nov-14	1159	
Box Culvert and Flood Relief System Construction		4	4	21-Jul-14	25-Jul-14	-286	HK Working Day
S7-191212-260	Backfilling for 1050mm FRP installation & Strut Removal	4	4	21-Jul-14	25-Jul-14	-286	HK Working Day
Works in Area 7		139	70	09-Apr-14 A	13-Oct-14	1199	
S7-1020	Strut S3 Removal	7	7	09-Apr-14 A	26-Jul-14	-1086	Calendar Day
S7-1000	Load Transfer for King Post to Completed Roof Slab	14	4	24-Apr-14 A	23-Jul-14	1574	Calendar Day
S7-1010	Tunnel Portion 1 Backfilling to Strut S3 Level (15,000m3; 2,000m3/d)	8	10	26-May-14 A	29-Jul-14	1568	Calendar Day
S7-1030	Tunnel Portion 1 Backfilling to Strut S2 Level (14,000m3; 2,000m3/d)	7	7	20-Jun-14 A	26-Jul-14	-1095	Calendar Day
S7-1060	SWIC Temp U/U Bridge Load Transfer	12	7	23-Jun-14 A	26-Jul-14	-1079	Calendar Day
S7-1040	Sewage Outfall Temp U/U Bridge Load Transfer	3	3	23-Jun-14 A	22-Jul-14	-1069	Calendar Day
S7-1070	Cooling Mains Temp U/U Bridge Load Transfer & Deck B Removal	6	6	26-Jul-14	02-Aug-14	-879	HK Working Day
S7-1090	Tunnel Portion 1 Backfilling to Strut S1A Level (8,600m3; 2,000m3/d)	4	4	28-Jul-14	01-Aug-14	-865	HK Working Day
S7-1050	Tunnel Portion 1 Backfilling to Strut S2A Level (6,000m3; 1,500m3/d)	4	4	28-Jul-14	31-Jul-14	-871	HK Working Day

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CHUN WO - CRGL JOINT VENTURE

Remaining Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone
Summ...

CEDD CONTRACT NO. HK/2009/02
Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (Data Date on:20-Jul-14)

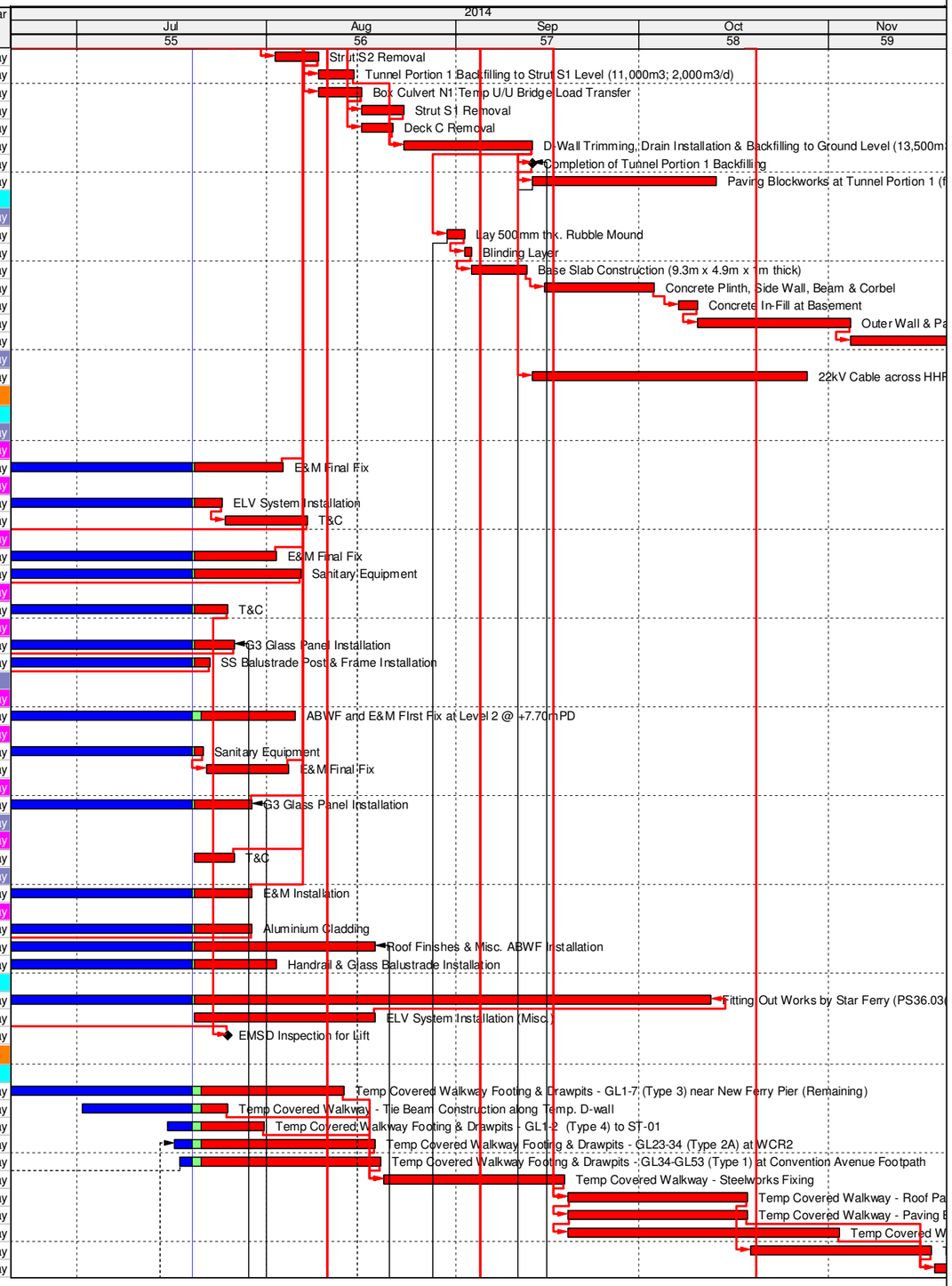
Date	Revision	Checked	Approved
20-Jul-14	3MRP		
20-Feb-14	Baseline Prog		

TASK filter: 3 Month Rolling.
Print on: 29-Jul-14 08:56

CEDD CONTRACT HK/2009/02

CHUN WO - CRGL JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar
S7-1080	Strut S2 Removal	7	7	02-Aug-14	09-Aug-14	-1095	Calendar Day
S7-1100	Tunnel Portion 1 Backfilling to Strut S1 Level (11,000m3; 2,000m3/d)	6	6	09-Aug-14	15-Aug-14	-1086	Calendar Day
S7-1110	Box Culvert N1 Temp U/U Bridge Load Transfer	7	7	09-Aug-14	16-Aug-14	-1095	Calendar Day
S7-1120	Strut S1 Removal	7	7	16-Aug-14	23-Aug-14	-1095	Calendar Day
S7-1130	Deck C Removal	4	4	16-Aug-14	21-Aug-14	-877	HK Working Day
S7-1140	D-Wall Trimming, Drain Installation & Backfilling to Ground Level (13,500m3; 1,000m3/d)	21	21	23-Aug-14	13-Sep-14	-1095	Calendar Day
S7-1150	Completion of Tunnel Portion 1 Backfilling	0	0		13-Sep-14	-859	Calendar Day
S7-1160	Paving Blockworks at Tunnel Portion 1 (for Works in Area 7)	30	30	13-Sep-14	13-Oct-14	-524	Calendar Day
Transformer Building for Dining Services at Ferry Pier (VO116)		74	74	30-Aug-14	28-Nov-14	-827	
Civil Works		74	74	30-Aug-14	28-Nov-14	-879	HK Working Day
S7-TB-2000	Lay 500mm thk. Rubble Mound	2	2	30-Aug-14	02-Sep-14	-879	HK Working Day
S7-TB-2010	Blinding Layer	1	1	02-Sep-14	03-Sep-14	-879	HK Working Day
S7-TB-2020	Base Slab Construction (9.3m x 4.9m x 1m thick)	7	7	03-Sep-14	12-Sep-14	-879	HK Working Day
S7-TB-2030	Concrete Plinth, Side Wall, Beam & Corbel	14	14	15-Sep-14	03-Oct-14	-879	HK Working Day
S7-TB-2040	Concrete In-Fill at Basement	3	3	07-Oct-14	10-Oct-14	-879	HK Working Day
S7-TB-2050	Outer Wall & Partition Wall	21	21	10-Oct-14	04-Nov-14	-879	HK Working Day
S7-TB-2060	Scaffolding Erection & Roof Construction	21	21	04-Nov-14	28-Nov-14	-879	HK Working Day
E&M Works		45	45	13-Sep-14	28-Oct-14	-993	Calendar Day
S7-TB-4100	22kV Cable across HHR to Transformer Building by HEC	45	45	13-Sep-14	28-Oct-14	-993	Calendar Day
Section 8A of the Works - Reprovisioning of Wan Chai Ferry Pier in Area 8		558	69	17-Dec-12 A	12-Oct-14	-218	
ABWF & E&M Installation		477	25	17-Dec-12 A	18-Aug-14	-174	
Level 1		336	19	07-Aug-13 A	07-Aug-14	-377	Calendar Day
Public Area		15	15	05-Sep-13 A	03-Aug-14	-467	Calendar Day
S8A-BS-1070	E&M Final Fix	15	15	05-Sep-13 A	03-Aug-14	-467	Calendar Day
Ticket Room, Changing Room & Storing Room		284	19	08-Oct-13 A	07-Aug-14	-377	Calendar Day
S8A-BS-1860	ELV System Installation	30	5	08-Oct-13 A	24-Jul-14	-377	Calendar Day
S8A-BS-1870	T&C	14	14	25-Jul-14	07-Aug-14	-377	Calendar Day
Toilet		120	18	05-Sep-13 A	06-Aug-14	-376	Calendar Day
S8A-BS-1170	E&M Final Fix	14	14	05-Sep-13 A	02-Aug-14	-646	Calendar Day
S8A-BS-1160	Sanitary Equipment	28	18	10-Jan-14 A	06-Aug-14	-376	Calendar Day
Lift		7	6	09-Jan-14 A	25-Jul-14	-364	Calendar Day
S8A-BS-1440	T&C	7	6	09-Jan-14 A	25-Jul-14	-364	Calendar Day
Metalworks		80	7	07-Aug-13 A	26-Jul-14	-365	Calendar Day
S8A-BS-1640	G3 Glass Panel Installation	15	7	07-Aug-13 A	26-Jul-14	-365	Calendar Day
S8A-BS-1630	SS Balustrade Post & Frame Installation	24	3	17-Oct-13 A	22-Jul-14	-361	Calendar Day
Level 2		474	14	17-Dec-12 A	05-Aug-14	-294	
General Area		123	14	17-Dec-12 A	05-Aug-14	-294	HK Working Day
S8A-BS-2000	ABWF and E&M FIrst Fix at Level 2 @ +7.70mPD	123	14	17-Dec-12 A	05-Aug-14	-294	HK Working Day
Toilet		345	16	30-Aug-13 A	04-Aug-14	-648	Calendar Day
S8A-BS-2150	Sanitary Equipment	10	2	30-Aug-13 A	21-Jul-14	-648	Calendar Day
S8A-BS-2160	E&M Final Fix	14	14	22-Jul-14	04-Aug-14	-648	Calendar Day
Metalworks & Glass Panel Installation		14	10	06-Mar-14 A	29-Jul-14	-642	Calendar Day
S8A-BS-2230	G3 Glass Panel Installation	14	10	06-Mar-14 A	29-Jul-14	-642	Calendar Day
Level M		7	7	20-Jul-14	26-Jul-14	-639	Calendar Day
Cleaning/ Flushing Water Pump Room		7	7	20-Jul-14	26-Jul-14	-639	Calendar Day
S8A-BS-3620	T&C	7	7	20-Jul-14	26-Jul-14	-639	Calendar Day
Roof		359	30	26-Mar-13 A	18-Aug-14	-220	Calendar Day
S8A-BS-4010	E&M Installation	28	10	10-Sep-13 A	29-Jul-14	-642	Calendar Day
Works in Area 8 - ABWF Works at Observation Deck of Ferry Pier		359	30	26-Mar-13 A	18-Aug-14	-220	Calendar Day
S8B-FP-01200	Aluminium Cladding	95	10	26-Mar-13 A	29-Jul-14	-200	Calendar Day
S8B-FP-01100	Roof Finishes & Misc. ABWF Installation	120	30	28-Oct-13 A	18-Aug-14	-220	Calendar Day
S8B-FP-01300	Handrail & Glass Balustrade Installation	45	14	21-Dec-13 A	02-Aug-14	-204	Calendar Day
T&C and Handover		149	69	16-Apr-14 A	12-Oct-14	-356	
S8A-TC-9000	Fitting Out Works by Star Ferry (PS36.03(4)) & VO173 Works	180	85	16-Apr-14 A	12-Oct-14	-443	Calendar Day
S8A-TC-8000	ELV System Installation (Misc.)	30	30	20-Jul-14	18-Aug-14	-388	Calendar Day
S8A-TC-1500	EMSD Inspection for Lift	0	0		25-Jul-14	-292	HK Working Day
Section 8B of the Works - Temporary Covered Walkway & Works in Area 8		243	106	18-Nov-13 A	24-Nov-14	-393	
Temporary Covered Walkway		243	106	18-Nov-13 A	24-Nov-14	-393	
S8B-TCW-01200B	Temp Covered Walkway Footing & Drawpits - GL1-7 (Type 3) near New Ferry Pier (Remaining)	30	21	18-Nov-13 A	13-Aug-14	-387	HK Working Day
S8B-TCW-01600	Temp Covered Walkway - Tie Beam Construction along Temp. D-wall	21	5	02-Jul-14 A	25-Jul-14	-371	HK Working Day
S8B-TCW-01200C	Temp Covered Walkway Footing & Drawpits - GL1-2 (Type 4) to ST-01	14	10	16-Jul-14 A	31-Jul-14	-376	HK Working Day
S8B-TCW-01100	Temp Covered Walkway Footing & Drawpits - GL23-34 (Type 2A) at WCR2	28	25	17-Jul-14 A	18-Aug-14	-391	HK Working Day
S8B-TCW-01000	Temp Covered Walkway Footing & Drawpits - GL34-GL53 (Type 1) at Convention Avenue Footpath	28	26	18-Jul-14 A	19-Aug-14	-392	HK Working Day
S8B-TCW-01800	Temp Covered Walkway - Steelworks Fixing	30	30	20-Aug-14	18-Sep-14	-486	Calendar Day
S8B-TCW-01850	Temp Covered Walkway - Roof Panel Installation	30	30	19-Sep-14	18-Oct-14	-486	Calendar Day
S8B-TCW-02000	Temp Covered Walkway - Paving Block Laying & Planter	30	30	19-Sep-14	18-Oct-14	-471	Calendar Day
S8B-TCW-01900	Temp Covered Walkway - Drainage Installation	45	45	19-Sep-14	02-Nov-14	-471	Calendar Day
S8B-TCW-01950	Temp Covered Walkway - Cable & Lighting Installation	30	30	19-Oct-14	17-Nov-14	-486	Calendar Day
S8B-TCW-02100	Inspection & Handing Over	7	7	18-Nov-14	24-Nov-14	-486	Calendar Day



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CHUN WO - CRGL JOINT VENTURE

Remaining Work
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CEDD CONTRACT NO. HK/2009/02
Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (Data Date on:20-Jul-14)

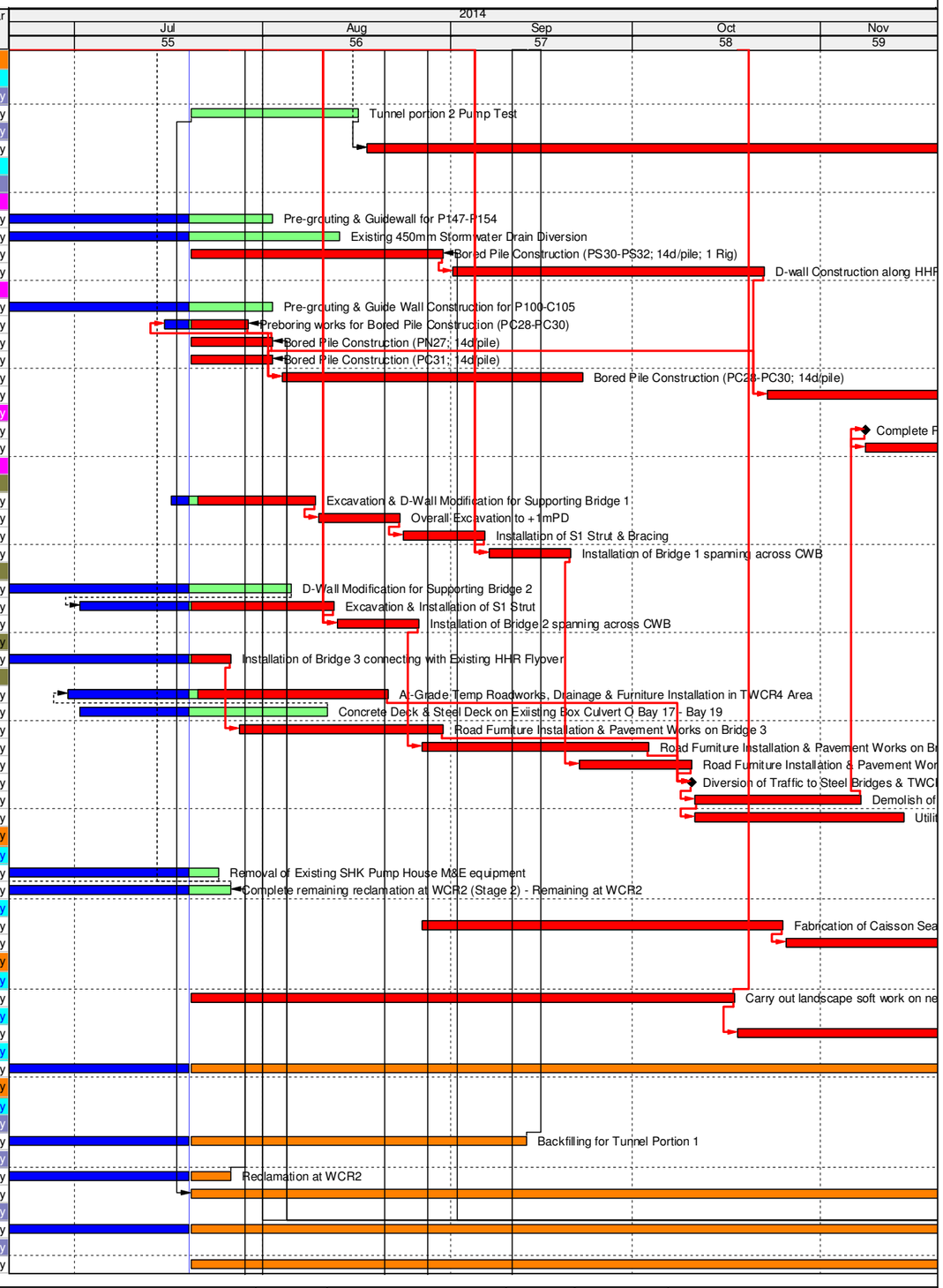
Date	Revision	Checked	Approved
20-Jul-14	3MRP		
20-Feb-14	Baseline Prog		

TASK filter: 3 Month Rolling.
Print on: 29-Jul-14 08:56

CEDD CONTRACT HK/2009/02

CHUN WO - CRGL JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar
Section 9B of the Works - CWB Tunnel Structure (CH3400 - CH3796)		270	149	11-Feb-14 A	16-Jan-15	1120	
Tunnel Portion 2 (CH3425-CH3500)		149	149	20-Jul-14	16-Jan-15	0	
Foundation		28	28	20-Jul-14	16-Aug-14	1	Calendar Day
S9B-T2-1130	Tunnel portion 2 Pump Test	28	28	20-Jul-14	16-Aug-14	1	Calendar Day
CWB Structural Works		125	125	18-Aug-14	16-Jan-15	0	HK Working Day
S9B-T2-2000	Tunnel portion 2 ELSW excavation (62,500m3; 500m3/d)	125	125	18-Aug-14	16-Jan-15	0	HK Working Day
Tunnel Portion 3 & Tunnel Portion 4 (CH3630-CH3790)		247	126	11-Feb-14 A	17-Dec-14	1143	
Foundation		247	126	11-Feb-14 A	17-Dec-14	1143	
Stage 2 - Southern Wall after HHR Flyover Diversion (Stage 1) (C130A-P131; P144-C154)		199	78	11-Feb-14 A	22-Oct-14	1191	
S9B-T34-1230C	Pre-grouting & Guidewall for P147-P154	28	14	11-Feb-14 A	02-Aug-14	1564	Calendar Day
S9B-T34-1270	Existing 450mm Stormwater Drain Diversion	21	21	17-Feb-14 A	13-Aug-14	1248	HK Working Day
S9B-T34-1260B	Bored Pile Construction (PS30-PS32; 14d/pile; 1 Rig)	42	42	20-Jul-14	30-Aug-14	-403	Calendar Day
S9B-T34-1250D	D-wall Construction along HHR slow lane (P147-P153; 6d/Panel)	42	42	01-Sep-14	22-Oct-14	-326	HK Working Day
Stage 3 - Northern Wall after TWCR4 Reclamation (P96-P101)		214	126	19-Feb-14 A	17-Dec-14	1143	
S9B-T34-1420C	Pre-grouting & Guide Wall Construction for P100-C105	21	14	19-Feb-14 A	02-Aug-14	1564	Calendar Day
S9B-T34-1440E	Preboring works for Bored Pile Construction (PC28-PC30)	14	10	16-Jul-14 A	29-Jul-14	-161	Calendar Day
S9B-T34-1440G	Bored Pile Construction (PN27; 14d/pile)	14	14	20-Jul-14	02-Aug-14	-326	Calendar Day
S9B-T34-1440H	Bored Pile Construction (PC31; 14d/pile)	14	14	20-Jul-14	02-Aug-14	-115	Calendar Day
S9B-T34-1440F	Bored Pile Construction (PC28-PC30; 14d/pile)	42	42	04-Aug-14	22-Sep-14	-134	HK Working Day
S9B-T34-1430D	D-wall Construction at TWCR4 (C88-P95; 6d/Panel)	48	48	23-Oct-14	17-Dec-14	-326	HK Working Day
Stage 4 - Southern Wall after HHR Flyover Diversion (Stage 2) (P132-P143)		26	26	08-Nov-14	03-Dec-14	-383	Calendar Day
S9B-T34-1600	Complete Removal of Approach Ramp of Existing HHR Flyover	0	0	08-Nov-14		-383	Calendar Day
S9B-T34-1610	Pre-drilling at HHR Flyover	26	26	08-Nov-14	03-Dec-14	-383	Calendar Day
Temp Works for HHR Flyover Diversion (Stage 2)		136	98	19-May-14 A	14-Nov-14	1171	
Bridge 1		78	53	17-Jul-14 A	20-Sep-14	-309	
S9B-TTA-1000	Excavation & D-Wall Modification for Supporting Bridge 1	21	18	17-Jul-14 A	09-Aug-14	-310	HK Working Day
S9B-TTA-1100	Overall Excavation to +1mPD	14	14	10-Aug-14	23-Aug-14	-384	Calendar Day
S9B-TTA-1300	Installation of S1 Strut & Bracing	14	14	24-Aug-14	06-Sep-14	-384	Calendar Day
S9B-TTA-1400	Installation of Bridge 1 spanning across CWB	14	14	07-Sep-14	20-Sep-14	-384	Calendar Day
Bridge 2		57	32	19-May-14 A	26-Aug-14	1237	
S9B-TTA-2000	D-Wall Modification for Supporting Bridge 2	14	14	19-May-14 A	05-Aug-14	1255	HK Working Day
S9B-TTA-2100	Excavation & Installation of S1 Strut	7	24	02-Jul-14 A	12-Aug-14	-377	Calendar Day
S9B-TTA-2200	Installation of Bridge 2 spanning across CWB	14	14	13-Aug-14	26-Aug-14	-377	Calendar Day
Bridge 3		14	7	30-May-14 A	26-Jul-14	-346	Calendar Day
S9B-TTA-3500	Installation of Bridge 3 connecting with Existing HHR Flyover	14	7	30-May-14 A	26-Jul-14	-346	Calendar Day
At-Grade Roadworks		123	98	30-Jun-14 A	14-Nov-14	1171	
S9B-TTA-4100	At-Grade Temp Roadworks, Drainage & Furniture Installation in TWCR4 Area	45	28	30-Jun-14 A	21-Aug-14	-269	HK Working Day
S9B-TTA-4150	Concrete Deck & Steel Deck on Exiisting Box Culvert O Bay 17 - Bay 19	35	19	02-Jul-14 A	11-Aug-14	1250	HK Working Day
S9B-TTA-4200	Road Furniture Installation & Pavement Works on Bridge 3	30	30	28-Jul-14	30-Aug-14	-277	HK Working Day
S9B-TTA-4000	Road Furniture Installation & Pavement Works on Bridge 2	30	30	27-Aug-14	03-Oct-14	-303	HK Working Day
S9B-TTA-4300	Road Furniture Installation & Pavement Works on Bridge 1	15	15	22-Sep-14	10-Oct-14	-309	HK Working Day
S9B-TTA-4400	Diversion of Traffic to Steel Bridges & TWCR4 (Stage 2 TTA)	0	0		10-Oct-14	-387	Calendar Day
S9B-TTA-4500	Demolish of Approach Ramp of Existing HHR Flyover for D-Wall Construction	24	24	11-Oct-14	07-Nov-14	-309	HK Working Day
S9B-TTA-4600	Utility Diversion for D-Wall near Existing HHR Flyover Approach Ramp	35	35	11-Oct-14	14-Nov-14	-364	Calendar Day
Section 11 of the Works - Remainder of Works		310	188	09-Apr-14 A	23-Jan-15	1390	Calendar Day
Marine Works at WCR2		66	7	09-Apr-14 A	26-Jul-14	1571	Calendar Day
S11-R2-1600	Removal of Existing SHK Pump House M&E equipment	7	5	09-Apr-14 A	24-Jul-14	1573	Calendar Day
S11-R2-1800B	Complete remaining reclamation at WCR2 (Stage 2) - Remaining at WCR2	30	7	02-May-14 A	26-Jul-14	1571	Calendar Day
Marine Works at WCR3		150	150	27-Aug-14	23-Jan-15	-382	Calendar Day
S11-R3-0500A	Fabrication of Caisson Seawalls for WCR3 Reclamation (1st Stage - 2 Nos.)	60	60	27-Aug-14	25-Oct-14	-382	Calendar Day
S11-R3-0500B	Fabrication of Caisson Seawalls for WCR3 Reclamation (2nd Stage - 3 Nos.)	90	90	26-Oct-14	23-Jan-15	-382	Calendar Day
Soft Landscaping & Establishment Works		2375	770	24-Feb-10 A	27-Aug-16	0	Calendar Day
Section 8C of the Works - Landscape Softworks in Area 8		90	90	20-Jul-14	17-Oct-14	-249	Calendar Day
S8C-0010	Carry out landscape soft work on new ferry pier	90	90	20-Jul-14	17-Oct-14	-249	Calendar Day
Section 8D of the Works - Establishment Works in Area 8		365	365	18-Oct-14	17-Oct-15	-249	Calendar Day
S8D-0010	Carry out establishment work on new ferry pier	365	365	18-Oct-14	17-Oct-15	-249	Calendar Day
Section 12 of the Works - Protection and Preservation of Existing Trees		2375	770	24-Feb-10 A	27-Aug-16	0	Calendar Day
S12-0010	Protection and preservation of existing trees	2375	770	24-Feb-10 A	27-Aug-16	0	Calendar Day
SUMMARY PROGRAMME		1923	1198	25-Jul-12 A	29-Oct-17	380	Calendar Day
CWB Tunnel Construction & Remaining Works (Section 9A, 9B, 10 & 11)		1923	1198	25-Jul-12 A	29-Oct-17	380	Calendar Day
CWB Tunnel Works in WCR1		97	56	26-May-14 A	13-Sep-14	-859	Calendar Day
SUM-CWB-14000	Backfilling for Tunnel Portion 1	97	56	26-May-14 A	13-Sep-14	-859	Calendar Day
CWB Tunnel Works in WCR2		906	181	25-Jul-12 A	16-Jan-15	1397	Calendar Day
SUM-CWB-20000	Reclamation at WCR2	224	7	25-Jul-12 A	26-Jul-14	1571	Calendar Day
SUM-CWB-22000	Pump Test & Excavation for Tunnel Portion 2	181	181	20-Jul-14	16-Jan-15	0	Calendar Day
CWB Tunnel Works in WCR4/TWCR4		457	307	11-Nov-13 A	22-May-15	-327	Calendar Day
SUM-CWB-41000B	Foundation for Tunnel Portion 3&4 (except Eastern Bulkhead Wall)	457	307	11-Nov-13 A	22-May-15	-327	Calendar Day
Misc. Remaining Works		1198	1198	20-Jul-14	29-Oct-17	-428	Calendar Day
SUM-CWB-52000	Interface Work with HY/2009/15 after Portion 7 Re-Possession	717	717	20-Jul-14	05-Jul-16	-277	Calendar Day



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

Remaining Work
Actual Work
Summary Bar
Critical Remaining Work
Milestone
Summ...

CEDD CONTRACT NO. HK/2009/02
Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East (Contract 2)
3-MONTH ROLLING PROGRAMME (Data Date on:20-Jul-14)

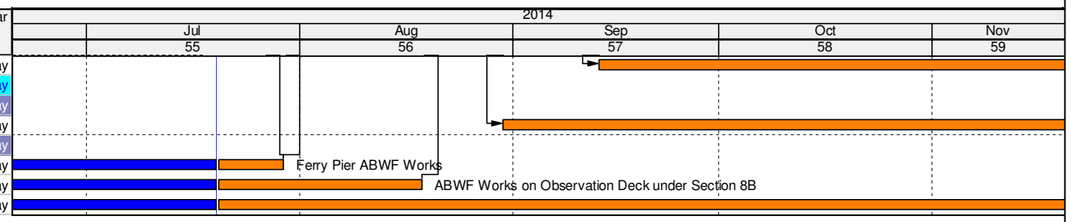
Date	Revision	Checked	Approved
20-Jul-14	3MRP		
20-Feb-14	Baseline Prog		

TASK filter: 3 Month Rolling.
Print on: 29-Jul-14 08:56

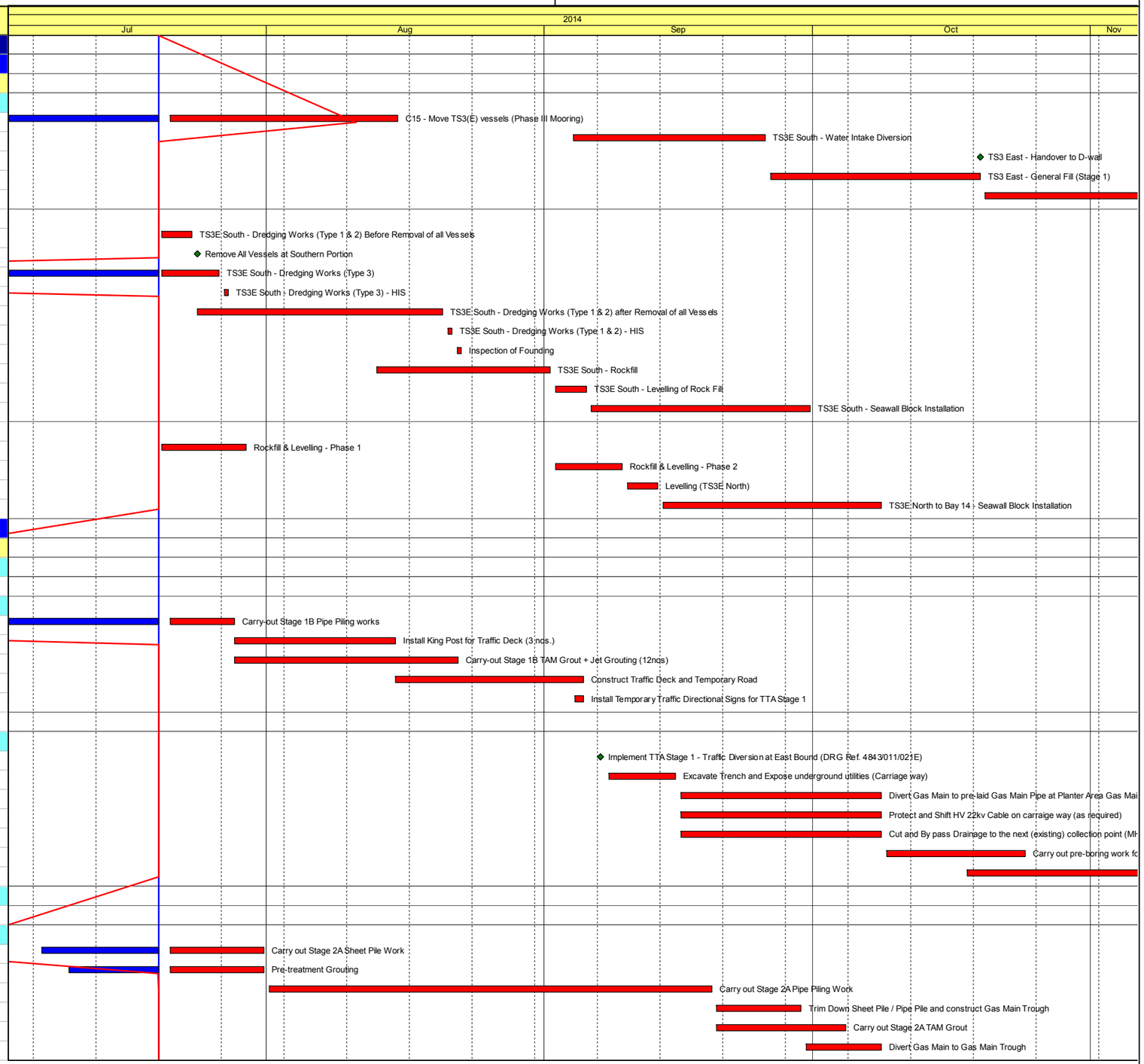
CEDD CONTRACT HK/2009/02

CHUN WO - CRGL JOINT VENTURE

Activity ID	Activity Name	OD	RD	Start	Finish	Total Float	Calendar
SUM-CWB-50000	Paving Block Installation (Whole Newly Reclaimed Area)	1142	1142	13-Sep-14	29-Oct-17	-428	Calendar Day
Reprovisioning of Existing Facilities (Section 3, 4A, 4B, 4C, 5, 6, 7, 8A & 8B)		872	292	17-Dec-12 A	07-May-15	-356	Calendar Day
Reprovisioning of Box Culvert N (Section 7)		250	250	30-Aug-14	07-May-15	-1095	Calendar Day
SUM-FAC-52000	VO116 - New Transformer Building to Ferry Pier	250	250	30-Aug-14	07-May-15	-1095	Calendar Day
Reprovisioning of Wan Chai Ferry Pier & Covered Walkway (Section 8A & 8B)		463	128	17-Dec-12 A	24-Nov-14	-192	Calendar Day
SUM-FAC-62000	Ferry Pier ABWF Works	155	10	17-Dec-12 A	29-Jul-14	-74	Calendar Day
SUM-FAC-65000	ABWF Works on Observation Deck under Section 8B	150	30	07-May-13 A	18-Aug-14	-220	Calendar Day
SUM-FAC-66000	Temp Covered Walkway	217	128	10-Aug-13 A	24-Nov-14	-486	Calendar Day



Activity ID	Activity Name	Original Duration	Start	Finish
HY/2010/08: CWB-SR8 Three Months Rolling Programme_updated up to 20140720				
Works in TS3				
TS3 East & West Reclamation Works				
TS3E - Reclamation (Advance Works)				
TS3E.MW.1150	C15 - Move TS3(E) vessels (Phase III Mooring)	45	02-Jul-14 A	15-Aug-14
TS3E.MW.1110A	TS3E South - Water Intake Diversion	18	04-Sep-14	25-Sep-14
TS3E.MW.1180	TS3 East - Handover to D-wall	0		19-Oct-14
TS3E.MW.1160	TS3 East - General Fill (Stage 1)	24	26-Sep-14	19-Oct-14
TS3E.MW.1170	TS3 East - General Fill (Stage 2)	26	20-Oct-14	18-Nov-14
TS3E - South				
TS3E.MW.1085A	TS3E South - Dredging Works (Type 1 & 2) Before Removal of all Vessels	4	20-Jul-14	23-Jul-14
TS3E.MW.1085	Remove All Vessels at Southern Portion	0		24-Jul-14*
TS3E.MW.1080	TS3E South - Dredging Works (Type 3)	20	06-Jun-14 A	26-Jul-14
TS3E.MW.1080A	TS3E South - Dredging Works (Type 3) - HIS	1	27-Jul-14	27-Jul-14
TS3E.MW.1085B	TS3E South - Dredging Works (Type 1 & 2) after Removal of all Vessels	28	24-Jul-14	20-Aug-14
TS3E.MW.1085C	TS3E South - Dredging Works (Type 1 & 2) - HIS	1	21-Aug-14	21-Aug-14
TS3E.MW.1086	Inspection of Founding	1	22-Aug-14	22-Aug-14
TS3E.MW.1090	TS3E South - Rockfill	20	13-Aug-14	01-Sep-14
TS3E.MW.1090A	TS3E South - Levelling of Rock Fill	4	02-Sep-14	05-Sep-14
TS3E.MW.1100	TS3E South - Seawall Block Installation	25	06-Sep-14	30-Sep-14
TS3E - North (Remaining)				
TS3E.MW.N.100	Rockfill & Levelling - Phase 1	10	20-Jul-14	29-Jul-14
TS3E.MW.N.101	Rockfill & Levelling - Phase 2	8	02-Sep-14	09-Sep-14
TS3E.MW.N.102	Levelling (TS3E North)	4	10-Sep-14	13-Sep-14
TS3E.MW.N.104	TS3E North to Bay 14 - Seawall Block Installation	25	14-Sep-14	08-Oct-14
Works in SR8 (Open Cut Method)				
SR8 - Cofferdam & Cut & Cover Tunnel Works				
SR8 East Bound - (Seaside to Victoria Road / IEC Central Divider)				
TTA Stage 0 - East Bound				
Stage 1B - East Bound (Seaside) (Ref. DRG. No.CDD/SR8/082)				
SR8.EB.1230	Carry-out Stage 1B Pipe Piling works	24	21-May-14 A	28-Jul-14
SR8.EB.1250	Install King Post for Traffic Deck (3 nos.)	16	28-Jul-14	15-Aug-14
SR8.EB.1255	Carry-out Stage 1B TAM Grout + Jet Grouting (12nos)	22	28-Jul-14	22-Aug-14
SR8.EB.1260	Construct Traffic Deck and Temporary Road	18	15-Aug-14	05-Sep-14
SR8.EB.1270	Install Temporary Traffic Directional Signs for TTA Stage 1	1	04-Sep-14	05-Sep-14
TTA Stage 1 - East Bound				
Stage 2 - East Bound (Ref. DRG. No.CDD/SR8/083)				
SR8.EB.1310	Implement TTA Stage 1 - Traffic Diversion at East Bound (DRG Ref. 4843/011/021E)	0	07-Sep-14	
SR8.EB.1315	Excavate Trench and Expose underground utilities (Carriage way)	6	08-Sep-14	15-Sep-14
SR8.EB.1320	Divert Gas Main to pre-laid Gas Main Pipe at Planter Area Gas Main Trough	18	16-Sep-14	08-Oct-14
SR8.EB.1325	Protect and Shift HV 22kv Cable on carraige way (as required)	18	16-Sep-14	08-Oct-14
SR8.EB.1327	Cut and By pass Drainage to the next (existing) collection point (MH)	18	16-Sep-14	08-Oct-14
SR8.EB.1330	Carry out pre-boring work for stage 2 sheet pile	14	09-Oct-14	24-Oct-14
SR8.EB.1340	Stage 2 - Sheet Pile Work	18	18-Oct-14	07-Nov-14
SR8 West Bound - Ch. 369.000 to 495.000 (Victoria Road /IEC Central Divider)				
TTA Stage 1 - West Bound				
Stage 2A - West Bound (Ref. DRG. No.CDD/SR8/086)				
SR8.WB.2020	Carry out Stage 2A Sheet Pile Work	17	07-Jul-14 A	31-Jul-14
SR8.WB.2130	Pre-treatment Grouting	10	10-Jul-14 A	31-Jul-14
SR8.WB.2030	Carry out Stage 2A Pipe Piling Work	42	01-Aug-14	19-Sep-14
SR8.WB.2050	Trim Down Sheet Pile / Pipe Pile and construct Gas Main Trough	8	20-Sep-14	29-Sep-14
SR8.WB.2040	Carry out Stage 2A TAM Grout	11	20-Sep-14	04-Oct-14
SR8.WB.2060	Divert Gas Main to Gas Main Trough	6	30-Sep-14	08-Oct-14



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

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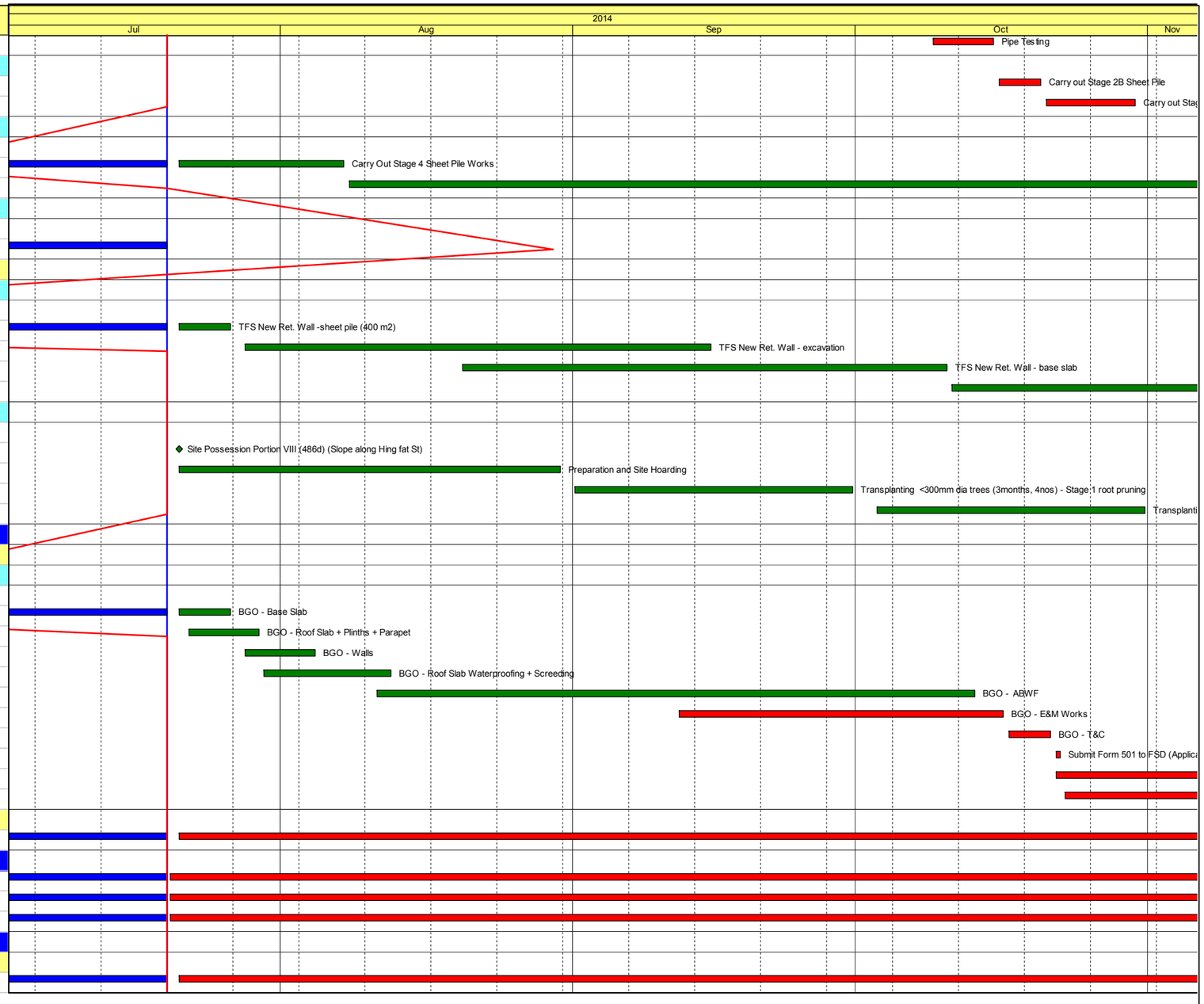
Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

Date	Revision	Checked	Approved
20-Jul-14	Updated to 20th July 2014	DML/WC	

Activity ID	Activity Name	Original Duration	Start	Finish
SR8.WB.2140	Pipe Testing	6	09-Oct-14	15-Oct-14
Stage 2B - West Bound (Ref. DRG. No.CDD/SR8/086)				
SR8.WB.2070	Carry out Stage 2B Sheet Pile	4	16-Oct-14	20-Oct-14
SR8.WB.2080	Carry out Stage 2B Pipe Piling	9	21-Oct-14	30-Oct-14
SR8 Ch.369.000 to Ch.317.500 - (Inside Victoria Park to Tunnel Portal)				
Stage 4 - SR8 Ch.369.000 to Ch317.500 (Tunnel Portal) (Ref. DRG. No.CDD/SR8/087)				
SR8.VP.4010	Carry Out Stage 4 Sheet Pile Works	90	13-Mar-14 A	07-Aug-14
SR8.VP.4020	Carry Out Stage 4 Pipe Piling Works	145	08-Aug-14	30-Jan-15
SR8 Ch 317.500 to Ch 210.000 - U-Structure & Slab (Victoria Park)				
Excavation and Lateral Support				
SR8_2230	ELS - Excavation to formation level + Lateral Support	96	13-Jun-14 A	16-Mar-15
Tsing Fung St - RW & Subway Extension & Toe Wall at Hing Fat St				
Ret. Wall & TF Subway Extension (Portion V)				
Retaining Wall at Tsing Fung Street (Portion V)				
VP_1235	TFS New Ret. Wall -sheet pile (400 m2)	12	19-Jun-14 A	26-Jul-14
VP_1240	TFS New Ret. Wall - excavation	42	28-Jul-14	15-Sep-14
VP_1260	TFS New Ret. Wall - base slab	42	20-Aug-14	10-Oct-14
VP_1290	TFS New Ret. Wall - wall stem + Railing	60	11-Oct-14	19-Dec-14
Retaining Wall + Toe Wall at Hing Fat Street				
Tree Transplanting at Portion VIII (Tree Zone 20) (6 trees)				
VP_1130	Site Possession Portion VIII (486d) (Slope along Hing fat St)	0	21-Jul-14	
VP_1700	Preparation and Site Hoarding	36	21-Jul-14	30-Aug-14
VP_1140.01	Transplanting <300mm dia trees (3months, 4nos) - Stage 1 root pruning	25	01-Sep-14	30-Sep-14
VP_1140.02	Transplanting <300mm dia trees (3months, 4nos) - Stage 2 root pruning	25	03-Oct-14	31-Oct-14
Works in Victoria Park				
Re-Provisioning Works				
Bowling Green Office				
BGO - Construction Works				
VP_1180.01	BGO - Base Slab	24	29-Apr-14 A	26-Jul-14
VP_1180.03	BGO - Roof Slab + Plinths + Parapet	7	22-Jul-14	29-Jul-14
VP_1180.02	BGO - Walls	7	28-Jul-14	04-Aug-14
VP_1180.04	BGO - Roof Slab Waterproofing + Screeding	12	30-Jul-14	12-Aug-14
VP_1190	BGO - ABWF	52	11-Aug-14	13-Oct-14
VP_1220	BGO - E&M Works	28	12-Sep-14	16-Oct-14
VP_1250	BGO - T&C	4	17-Oct-14	21-Oct-14
VP_1260.10	Submit Form 501 to FSD (Application for Inspection)	1	22-Oct-14	22-Oct-14
VP_1250.40	Statutory Inspections by Other Authorities (EMSD, WSD, ASD)	55	22-Oct-14	24-Dec-14
VP_1260.20	FSD Inspection & Certification	55	23-Oct-14	27-Dec-14
Tree Transplanting at Portion XIV (Victoria Park Open Space)				
VP_1040	Tree Transplanting & Upkeep at Portion XIV	348	16-Oct-13 A	15-Dec-14
Mooring Components Upkeep (CBTS and ATS)				
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	09-Dec-15
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	17-Jan-17
Works for Public Works Regional Laboratory (North Lantau)				
Maintenance and Upkeep of New PWRL (Portion XVII)				
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	20-Nov-17



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20-Jul-14	Updated to 20th July 2014	DML/WC	