



CONTRACT NO: HK/2009/05

**WANCHAI DEVELOPMENT PHASE II AND CENTRAL
WANCHAI BYPASS
SAMPLING, FIELD MEASUREMENT AND TESTING WORK
(STAGE 1)**

**ENVIRONMENTAL PERMIT NO. EP-364/2009/A,
FURTHER ENVIRONMENTAL PERMIT NOS. FEP-01/364/2009,
FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-
05/364/2009/A, FEP-06/364/2009/A AND FEP-07/364/2009/A**

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

- JUNE 2011 -

CLIENTS:

**Civil Engineering and Development
Department**

and

Highways Department

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TABLE OF CONTENTS

EXECUTIVE SUMMARY 4

1. INTRODUCTION 8

1.1 Scope of the Report 8

1.2 Structure of the Report 8

2. PROJECT BACKGROUND 10

2.1 Background 10

2.2 Scope of the Project and Site Description 10

2.3 Division of the Project Responsibility 11

2.4 Project Organization and Contact Personnel 12

3. STATUS OF REGULATORY COMPLIANCE 17

3.1 Status of Environmental Licensing and Permitting under the Project 17

4. MONITORING REQUIREMENTS 25

4.1 Noise Monitoring 25

4.2 Air Monitoring 26

5. MONITORING RESULTS 29

5.1 Noise Monitoring Results 29

5.2 Real Time Noise Monitoring Results 31

5.3 Air Monitoring Results 32

5.4 Waste Monitoring Results 34

6. COMPLIANCE AUDIT 38

6.1 Noise Monitoring 38

6.2 Real Time Noise Monitoring 38

6.3 Air Monitoring 39

6.4 Review of the Reasons for and the Implications of Non-compliance 39

6.5 Summary of action taken in the event of and follow-up on non-compliance 39

7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS 40

8. ENVIRONMENTAL SITE AUDIT 42

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION 43

10. CONCLUSION 44

LIST OF TABLES

Table 2.1	<i>Schedule 2 Designated Projects under this Project</i>
Table 2.2	<i>Details of Individual Contracts under the Project</i>
Table 2.3	<i>Contact Details of Key Personnel</i>
Table 3.1	<i>Summary of the current status on licences and/or permits on environmental protection pertinent to the Project</i>
Table 3.2	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/17</i>
Table 3.3	<i>Summary of submission status under FEP-03/364/2009</i>
Table 3.4	<i>Cumulative Summary of Valid Licences and Permits under Contract no. 04/HY/2006</i>
Table 3.5	<i>Summary of submission status under FEP-04/364/2009/A</i>
Table 3.6	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01</i>
Table 3.7	<i>Summary of submission status under FEP-02/364/2009</i>
Table 3.8	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02</i>
Table 3.9	<i>Summary of submission status under FEP-01/364/2009</i>
Table 3.10	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18</i>
Table 3.11	<i>Summary of submission status under FEP-05/364/2009/A</i>
Table 3.12	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15</i>
Table 3.13	<i>Summary of submission status under FEP-06/364/2009/A</i>
Table 3.14	<i>Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19</i>
Table 3.15	<i>Summary of submission status under FEP-07/364/2009/A</i>
Table 4.1	<i>Noise Monitoring Stations</i>
Table 4.2	<i>Real Time Noise Monitoring Stations</i>
Table 4.3	<i>Air Monitoring Stations</i>
Table 5.1	<i>Noise Monitoring Stations for Contract no. HY/2009/17</i>
Table 5.2	<i>Noise Monitoring Stations for Contract no. HY/2009/18 and 04/HY/2006</i>
Table 5.3	<i>Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02</i>
Table 5.4	<i>Noise Monitoring Stations for Contract no. HY/2009/15</i>
Table 5.5	<i>Noise Monitoring Stations for Contract no. HY/2009/19</i>
Table 5.6	<i>Real Time Noise Monitoring Stations for Contract no. HY/2009/17</i>
Table 5.7	<i>Real Time Noise Monitoring Stations for Contract no. HY/2009/19</i>
Table 5.8	<i>Air Monitoring Station for Contract no. HY/2009/17</i>
Table 5.9	<i>Air Monitoring Stations for Contract no. HY/2009/18</i>
Table 5.10	<i>Air Monitoring Station for Contract no. HK/2009/01</i>
Table 5.11	<i>Air Monitoring Station for Contract no. HK/2009/02</i>
Table 5.12	<i>Air Monitoring Station for Contract no. HY/2009/15</i>
Table 5.13	<i>Air Monitoring Stations for Contract no. HY/2009/19</i>
Table 5.14	<i>Details of Waste Disposal for Contract no. HY/2009/17</i>
Table 5.15	<i>Details of Waste Disposal for Contract no. 04/HY/2006</i>
Table 5.16	<i>Details of Waste Disposal for Contract no. HK/2009/01</i>
Table 5.17	<i>Details of Waste Disposal for Contract no. HK/2009/02</i>
Table 5.18	<i>Details of Waste Disposal for Contract no. HY/2009/18</i>
Table 5.19	<i>Details of Waste Disposal for Contract no. HY/2009/15</i>
Table 5.20	<i>Details of Waste Disposal for Contract no. HY/2009/19</i>
Table 8.2	<i>Summary of Environmental Inspections for Contract no. HY/2009/18</i>
Table 8.3	<i>Summary of Environmental Inspections for Contract no. HY/2009/19</i>
Table 9.1	<i>Cumulative Statistics on Complaints</i>
Table 9.2	<i>Cumulative Statistics on Successful Prosecutions</i>
Table 10.1	<i>Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month</i>



LIST OF FIGURES

<u>Figure 2.1</u>	Project Layout
<u>Figure 2.2</u>	Project Organization Chart
<u>Figure 4.1</u>	Locations of Environmental Monitoring Stations

LIST OF APPENDICES

<u>Appendix 3.1</u>	Environmental Mitigation Implementation Schedule
<u>Appendix 4.1</u>	Action and Limit Level
<u>Appendix 4.2</u>	Copies of Calibration Certificates
<u>Appendix 5.1</u>	Monitoring Schedule for Reporting Month and Coming month
<u>Appendix 5.2</u>	Noise Monitoring Results and Graphical Presentations
<u>Appendix 5.3</u>	Air Quality Monitoring Results and Graphical Presentations
<u>Appendix 5.4</u>	Real-time Noise Monitoring Results and Graphical Presentations
<u>Appendix 6.1</u>	Event Action Plans
<u>Appendix 9.1</u>	Complaint Log
<u>Appendix 10.1</u>	Construction Programme of Individual Contracts

EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – June 2011 specific for Environmental Permit no. EP-364/2009/A, Further Environmental Permit nos. FEP-01/364/2009, FEP-02-364/2009, FEP-03-364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2009/05 –Wanchai Development Phase II and Central Wanchai Bypass. This report presents the environmental monitoring findings and information recorded during the period 28th May 2011 to 27th June 2011. The cut-off date of reporting is at 27th of each reporting month.
- ii. In the reporting month, the principal work activities of individual contracts are included as follows:

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Man Kwong Street Gate 1 & 2 setup
- Sheet piling
- Retaining wall

Contract no. 04/HY/2006 - Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction works were completed and Engineer's confirmation for completion of work is under processing in this reporting month.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- No major construction activity was undertaken in reporting month. Only preparation works was commenced in the reporting month.
- Pre-drilling works for SCL Protection Works and CWB.
- Timber scaffolding for subsequent site investigation works for the proposed jet grouting at HKCEC foundation.
- Pre-bored H piling works for the proposed CWB.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Guide wall construction for diaphragm wall construction
- Pre-drilling for diaphragm wall construction at WCR1 area.
- Tunnel bored pile works at WCR1 area
- Diaphragm wall construction at WCR1 area

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- No major construction activity was undertaken in reporting month.

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

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine Pre-drilling

Noise Monitoring

- iii. Noise monitoring during daytime was conducted at M1a - Harbour Road Sports Center; M2b - Noon-day gun area; M3a - Tung Lo Wan Fire Station; M4b - Victoria Center; M5b - City Garden, M6 - HK Baptist Church Henrietta Secondary School, M7e and M7w – International Finance Centre eastern and western wing on a weekly basis. **Four limit level** exceedances were recorded at M1a - Harbour Road Sports Centre on **2, 8, 14 and 24 June 2011** during restricted hour and **three limit level** exceedances were recorded at M6 - HK Baptist Church Henrietta Secondary School on **2, 8, 14 June 2011** during day time of examination period. After checking contractor's work schedules and investigation found that only minor works were conducted during monitoring and traffic noises as major noise sources contributed in the noise monitoring. It was considered the exceedances were not related to the Project.
- iv. 24-hour real time noise monitoring was conducted at RTN1 - FEHD Hong Kong Transport Section Whitefield Depot for the piling works in FEHD Whitfield Depot and RTN2 – Tunnel (North Point Section) and Island Eastern Corridor Link. No project related action and limit level exceedance was recorded in the reporting period.

Air Monitoring

- v. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b - Oil Street Community Liaison Centre and CMA2a - Causeway Bay Community Center, CMA4a – Society for the Prevention of Cruelty to Animals; MA1e and MA1w – International Finance Centre eastern and western wing on every six days basis. No action and limit level exceedance were recorded in the reporting period.

Complaints, Notifications of Summons and Successful Prosecutions

- vi. No complaint, notification of summons and prosecution was recorded in the reporting month.

Site Inspections and Audit

- vii. The Environmental Team (ET) conducted weekly site inspections for Contract no. HY/2009/17, HY/2009/18, HY/2009/19 and HK/2009/02 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.

Future Key Issues

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

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Sheet piling
- Diaphragm wall
- Instrumentation at Man Yiu Street

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction works were completed and Engineer's confirmation for completion of work is under processing.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Pre-drilling works and pre-bored H piling works for both SCL protection Works as well as CWB.
- Preparatory works such as ground treatment, guide wall construction and plant establishment for the proposed D-Wall construction works within HKCEC1.
- All outstanding geotechnical instrumentation for construction of CWB & SCL Protection Works.

- Site investigation works for designing the proposed jet grouting works.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Tunnel bored pile and diaphragm wall construction.
- Diaphragm wall construction.
- Complete guide wall and pre-drilling for diaphragm wall construction at WCR1 Area.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

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

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine pre-drilling
- Trial pit at Portion XI
- Remove existing dolphin pier

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-364/2009A and Further Environmental permit nos. FEP-01/364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A 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 (EP) no. EP-364/2009/A, Further Environmental Permit (FEP) nos. FEP-01-364/2009, FEP-02/364/2009, FEP-03/364/2009, FEP-04/364/2009/A, FEP-05/364/2009/A, FEP-06/364/2009/A and FEP-07/364/2009/A during the period 28th June to 27th July 2011. 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. Design and Construction of Central – Wan Chai Bypass and Island Eastern Corridor Link under the Project involves the construction and operation of a trunk road and its road tunnel more than 800m in length between portals that is shown at **Figure 2.1**.

2.2.2. The study area encompasses existing developments from Central to North Point. The scope of the Central-Wanchai Bypass (CWB) and Island Eastern Corridor Link (IECL) includes:

- A dual three-lane trunk road, approximately 4.5 km in length, and tunnel approximately 3.7 km in length defined from the connection with the existing Rumsey Street Flyover in Central, through to a connection with the existing Island Eastern Corridor to the east of the Causeway Bay Typhoon Shelter (CBTS);
- The Central Interchange near the Rumsey Street Flyover to provide road connections to the Central area;
- Tunnel control buildings and ventilation buildings;
- Slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
- Associated road lighting, road signing, traffic control and surveillance system; and
- Other associated works.

2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they June 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 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. In the reporting month, advance piling work at FEHD Whitfield Depot under Contract no. HY/2009/17 was commenced on 5 October 2010 and pending to construct one pile cap. In addition, Central - Wan Chai Bypass (CWB) – Central Interchange was commenced on 21 April 2011. Moreover, Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under HY2009/19 was commenced on 24 April 2011 Finally, Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel) was commenced on 26 April 2011. The details of individual contracts are summarized in **Table2.2**.

Table 2.2 Details of Individual Contracts under the Project

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works.	DP1	5 October 2010
HY/2009/18	Central - Wan Chai Bypass (CWB) –	DP1	21 April 2011

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
	Central Interchange		
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
HK/2009/01	Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works	DP1, DP2	Pending for July
HK/2009/02	Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East(CWB Tunnel)	DP1	26 April 2011
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP1	Pending for July
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

2.4 Project Organization and Contact Personnel

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

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

Table 2.3 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer for CWB	Principal Resident Engineer	Mr. Peter Poon	3916 1818	3529 2829
Lam Woo & CO., LTD.	Contractor under Contract no. HY/2009/17	Project Manager	Mr. K. S. Law	9090 1378	2566 7522
		Sub Agent	Mr. Johnny Wong	9725 5870	
		Site Agent	Mr. Tony Au	9725 5874	
Chiu Hing Construction & Transportation Co. Ltd.	Contractor under Contract no. 04/HY/2006	Contract Manager	Mr. Frederick Tsui	2967 6363	2967 6366
		Senior Site Agent	Mr. Alvin Ma	2967 6363	2967 6366



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Consultant	Mr. Jimmy Cheng	2965 0898	2556 9172
Chun Wo – Leader Joint Venture	Contractor under Contract no. HK/2009/01	Site Agent	Mr. Paul Yu	9456 9819	2634 1626
		Operation Manager	Mr. Ho Wing Tai	9306 1356	
		Construction Manager	Mr. David Wong	9653 8635	
		Construction Manager	Mr. Wilson Lau	5183 1270	
		Construction Manager	Mr. Alex Tsang	9194 9383	
		Environmental Officer (Compliance Manager)	Mr Andy Mak	9103 2370	
		Environmental Supervisor	Ms Kiwi Chan	6227 8840	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HK/2009/02	Project Manager	Mr. Chan Sing Cho	3658-3002	2827 9996
		Site Agent	Mr. Eric Lam	3658-3048	
		Deputy Site Agent	Mr. Anthony Wu	3658-3004	
		Quality & Environmental Manager	Mr. C.P. Ho	3658-3000	
		Environmental Officer	Miss Flora Ng	3658-3064	
Chun Wo – CRGL Joint Venture	Contractor under Contract no. HY/2009/19	Project Manager	Mr. Rayland Lee	3758 8879	2570 8013
		Site Agent	Cheung Kit Cheung	6909 1555	
		Environmental Engineer	Simon Wong	9281 4346	
		Environmental Manager / Environmental Officer	M.H. Isa	9884 0810	
Leighton Contractors (Asia) Limited	Contractor under Contract no. HY/2009/18	Site Agent	Mr. Brian Gillon	2214 7700	2140 6799
		Deputy Site Agent	Mr. Desmond Sze	2214 7703	
		Environmental Officer	Mr. Anfernee Chow	2214 7721	
		Environmental Supervisor	Mr. Dennis Yu	2214 7738	
		Environmental Supervisor	Ryan Tsui	2214 7705	

Party	Role	Post	Name	Contact No.	Contact Fax
China State Construction Engineering (HK) Ltd.	Contractor under Contract no. HY/2009/15	Project Manager	Mr. M Y Wong	2823 7879	2566 2192
		Site Agent	Mr. Simon Tang	3557 6358	
		Head of construction	Andrew Kwan	3557 6396	
		Environmental Officer	Samuel Tsui	3557 6347	
		Environmental Supervisor	Kelven Yip	3557 6347	
		Environmental Supervisor	Tim Fung	3557 6349	
		Environmental Supervisor	Hilda Lau	3557 6378	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3743 0788	3548 6988
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.4.3. In this reporting month, the principal work activities of individual contracts are included as follows:

Contract no. 04/HY/2006 - Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction work was completed and Engineer's confirmation for completion of work is under processing.

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) - Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3
- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Man Kwong Street Gate 1 & 2 setup
- Sheet piling
- Retaining wall

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- No major construction activity was undertaken in reporting month. Only preparation works was commenced in the reporting month.
- Pre-drilling works for SCL Protection Works and CWB.
- Timber scaffolding for subsequent site investigation works for the proposed jet grouting at HKCEC foundation.
- Pre-bored H piling works for the proposed CWB.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Guide wall construction for diaphragm wall construction
- Pre-drilling for diaphragm wall construction at WCR1 area.
- Tunnel bored pile works at WCR1 area
- Diaphragm wall construction at WCR1 area

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE.

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

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine Pre-drilling

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

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- Major construction work was completed and waiting Engineer's formal confirmation for completion of work.

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

- Pile cap construction.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

- Instrumentation Manholes and Intake Culvert Survey
- Excavation of trial pit
- Hoarding erection
- Tree transplanting
- Installation of coupler in CR3

- Drainage diversion works
- Site investigation and pre-drilling works
- Excavation in Trough B
- Sheet piling
- Diaphragm wall
- Instrumentation at Man Yiu Street

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- Pre-drilling works and pre-bored H piling works for both SCL protection Works as well as CWB.
- Preparatory works such as ground treatment, guide wall construction and plant establishment for the proposed D-Wall construction works within HKCEC1.
- All outstanding geotechnical instrumentation for construction of CWB & SCL Protection Works.
- Site investigation works for designing the proposed jet grouting works.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- Tunnel bored pile and diaphragm wall construction.
- Diaphragm wall construction.
- Complete guide wall and pre-drilling for diaphragm wall construction at WCR1 Area.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- Diaphragm wall construction at TS1 and TPCWAE

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

- Steel fabrication of temporary platform
- Erection of platform to enable marine pre-drilling
- Marine pre-drilling
- Trial pit at Portion XI
- Remove existing dolphin pier

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	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Valid
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	15 Nov 2010	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 July 2010	Valid
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Valid
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	Valid

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

Contract no. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-03/364/2009 for contract no. HY/2009/17 showed in **Table 3.2** and **Table 3.3**.

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/17

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	N/A	Valid
Notification of Works Under APCO	319348	13 Jul 2010	N/A	Valid
Discharge Licence	WT00007212-2010	5 Aug 2010	5 Aug 2010 – 31 Aug 2015	Valid
Registration as a Waste Producer	5213-151-L2608-05	13 June 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7010400	16 Mar 2010	N/A	Valid

Table 3.3 Summary of submission status under FEP-03/364/2009

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	18 September 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	1 September 2010
Condition 2.9	Noise Management Plan	1 September 2010

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

- 3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-04/364/2009/A for contract no. 04/HY/2006 are shown in **Table 3.4** and **Table 3.5**.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. 04/HY/2006

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	N/A	Valid
Notification of Works Under APCO	322225	7 Oct 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7005123	9 Mar 2007	N/A	Valid

Table 3.5 Summary of submission status under FEP-04/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 June 2010
Conditions 2.7 and 2.8	Submission of works schedule and location plan	11 June 2010 and 5 August 2010
Condition 2.9	Noise Management Plan	19 October 2010
Condition 2.10	Landscape Plan	26 November 2010

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-02/364/2009 for contract no. HK/2009/01 are shown in **Table 3.6** and **Table 3.7**

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/01

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	N/A	Valid
	FEP-02/364/2009	21 Apr 2010	N/A	Valid
Notification of Works Under APCO	313088	6 Jan 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	PP-RS0045-11	16 Dec 2010	21 Dec 2010 to 20 Jun 2011	Valid
	GW-RS0107-11	8 Feb 2011	16 Mar 2011 to 15 Sep 2011	Valid
	GW-RS0111-11	11 Feb 2011	28 Feb 2011 to 31 Aug 2011	Valid
	GW-RS0384-11	29 Apr 2011	27 May 2011 to 26 Nov 2011	Valid
	GW-RS0421-11	9 May 2011	11 May 2011 to 10 Nov 2011	Valid
	GW-RS0450-11	20 May 2010	9 Jun 2010 to 8 Dec 2011	Valid
Discharge Licence	WT00006220-2010	18 Mar 2010	31 Mar 2015	Valid
Billing account under Waste Disposal Ordinance	7010069	21 Jan 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-134-C3585-01	21 Jan 2010	N/A	Valid

Table 3.7 Summary of submission status under FEP-02/364/2009

EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	18 May 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	18 May 2011
Special Conditions, Clause 2.6	Commencement Date of Works	25 Jun 2011
Special Conditions, Clause 2.9	Noise Management Plan	9 Jun 2011

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-01/364/2009 for contract no. HK/2009/02 are shown in **Table 3.8** and **Table 3.9**.

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	N/A	Valid
	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	PP-RS0011-11	27 April 2011	1 June 2011 to 30 Nov 2011	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0033-11	19 Jan 2011	1 Feb 2011 to 31 Jul 2011	Valid
	GW-RS0074-11	28 Jan 2011	1 Feb 2011 to 7 Jun 2011	Expire
	GW-RS0093-11	2 Feb 2011	17 Feb 2011 to 16 Jul 2011	Valid
	GW-RS0280-11	30 Mar 2011	31 Mar 2011 to 30 Sept 2011	Valid
	GW-RS0343-11	11 April 2011	25 Apr 2011 to 10 Oct 2011	Valid
	GW-RS0369-11	21 April 2011	1 May 2011 to 31 Oct 2011	Valid

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
	GW-RS0377-11	27 April 2011	1 May 2011 to 31 Oct 2011	Valid
	GW-RE0311-11	4 May 2011	5 May 2011 to 31 Oct 2011	Valid
	GW-RS0401-11	3 May 2011	18 May 2011 to 17 Nov 2011	Valid
	GW-RS0414-11	3 May 2011	9 May 2011 to 8 Nov 2011	Valid
	GW-RS0423-11	9 May 2011	22 May 2011 to 21 Nov 2011	Valid
	GW-RS0430-11	9 May 2011	16 May 2011 to 15 Nov 2011	Valid
	GW-RS0453-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0458-11	17 May 2011	21 May 2011 to 20 Nov 2011	Valid
	GW-RS0461-11	19 May 2011	23 May 2011 to 22 Nov 2011	Valid
	GW-RS0473-11	27 May 2011	01 May 2011 to 30 Nov 2011	Valid
	GW-RS0496-11	31 May 2011	07 Jun 2011 to 06 Dec 2011	Valid
	GW-RS0502-11	8 Jun 2011	13 Jun 2011 to 12 Dec 2011	Valid
	GW-RS1154-10	8 Dec 2010	8 Jan 2011 to 7 June 2011	Expire
Discharge Licence	WT00006249-2010	22 Mar 2010	31 Mar 2015	Valid
	WT00006436-2010	15 Apr 2010	30 Apr 2015	Valid
	WT00006673-2010	14 May 2010	31 Mar 2015	Valid
	WT00006757-2010	28 May 2010	31 May 2015	Valid
	WT00007129-2010	28 July 2010	31 Jul 2015	Valid
	WT00008982-2011	26 April 2011	30 April 2016	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid

Table 3.9 Summary of submission status under FEP-01/364/2009

EP Condition	Submission	Date of Submission
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EP Condition	Submission	Date of Submission
Special Conditions, Clause 2.7 & 2.8	Works Schedule and Location Plan	14 Jun 2011
Special Conditions, Clause 2.6	Environmental Management Organization Chart	14 Jun 2011
Special Conditions, Clause 2.6	Commencement Date of Works	21 Jun 2011
Special Conditions, Clause 2.9	Noise Management Plan	28 Jun 2011

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-05/364/2009A for contract no. HY/2009/18 are shown in Table 3.10 and Table 3.11.

Table 3.10 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/18

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	N/A	Valid
Notification of Works Under APCO	322293	07 Oct 2010	N/A	Valid
Discharge Licence	WT00008229-2011	13 Jan 2011	31 Jan 2016	Valid
Billing Account under Waste Disposal Ordinance	7011587	11-Oct-10	N/A	Valid
Registration as a Waste Producer	WPN: 8335-121-L1048-04	17 Dec 2010	N/A	Valid
Construction Noise Permit (CNP) for non-piling equipment	GW-RS0275-11	24 Mar 2011	22 Apr 2011 20:00 – 2 June 2011 06:00	Expired

Table 3.11 Summary of submission status under FEP-05/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	01-Mar-11

EP Condition	Submission	Date of Submission
Condition 2.10	Landscape Plan	26 Jan 2011

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 3.1.8. Summary of the current status on licences and/or permits on environmental protection pertinent and submission under FEP-06/364/2009/A for contract no. HY/2009/15 are shown in **Table 3.12** and **Table 3.13**

Table 3.12 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
	FEP-06/364/2009/A	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid
Water Discharge Licence (Discharge at Portion VII)	WT00008780-2011	22 Mar 2011	22 Mar 2011 to 31 Mar 2016	Valid
Water Discharge Licence (Discharge at Hung Hing Road)	WT00008905-2011	11 Apr 2011	11 Apr 2011 to 30 Apr 2016	Valid

Table 3.13 Summary of submission status under FEP-06/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.6	Management Organization of Main Construction Companies	11 Mar 2011
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule	15 Mar 2011
Condition 2.8	Location Plan	15 Mar 2011
Condition 2.23	Noise Management Plan	6 May 2010

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

- 3.1.9. The current status on licences and/or permits on environmental protection pertinent and submission under FEP-07/364/2009/A for contract no. HY/2009/19 are shown in **Table 3.14** and **Table 3.15**.

Table 3.14 Cumulative Summary of Valid Licences and Permits under Contract no. HY/2009/19

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/364/2009/A	25 Feb 2011	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Registration as a Waste Producer	7012306	10 Feb 2011	N/A	Valid
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	Valid

Table 3.15 Summary of submission status under FEP-07/364/2009/A

EP Condition	Submission	Date of Submission
Condition 2.9	Noise Management Plan	02 Jun 2011

4. Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

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

Table 4.1 Noise Monitoring Stations

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
M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)

REAL TIME NOISE MONITORING STATIONS

4.1.2. The 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.

Table 4.2 Real Time Noise Monitoring Stations

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

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

4.1.3. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq(30\text{ minutes})}$ shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq(5\text{ minutes})}$ shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.

4.1.4. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial

guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:

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

4.1.5. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:

- One set of measurements between 0700 and 1900 hours on normal weekdays.
- One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
- One set of measurements between 2300 and 0700 hours on next day on everyday.

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

MONITORING EQUIPMENT

4.1.7. As referred to in the Technical Memorandum TM 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 June be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

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

4.1.9. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements June be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.

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 Stations

Station ID	Monitoring Location	Description
CMA1b	Oil Street Community Liaison Centre	North Point
CMA2a	Causeway Bay Community Centre	Causeway Bay

Station ID	Monitoring Location	Description
CMA3a	CWB PRE Site Office *	Causeway Bay
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai
CMA5a	Children Garden opposite to Pedestrian Plaza	Wan Chai
MA1e	International Finance Centre (Eastern End of Podium)	Central
MA1w	International Finance Centre (western End of Podium)	Central

* Remarks: As per the ENPC meeting in March 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade was 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. Filter paper of size 8" x 10" shall be labeled 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.

4.2.9. 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.

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

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

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. HY/2009/17 - Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009
- Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A
- Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009
- Contract no. HK/2009/02 Wan Chai Development Phase II – Central-Wan Chai Bypass at Wan Chai East

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. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

5.1.1. The proposed division of noise monitoring stations for Contract no. HY/2009/17 are summarized in **Table 5.1** below:

Table 5.1 Noise Monitoring Stations for Contract no. HY/2009/17

Station	Description
M4b	Victoria Centre

5.1.2. No action and limit level exceedance was recorded during day time and restricted hour period in the reporting month. 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. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

5.1.3. Construction activity under contract no. 04/HY/2006 was completed, no noise monitoring for the contract was conducted. Noise monitoring for the Central Interchange works under

contract no. HY/2009/18 was commenced on 22 April 2011. The proposed division of noise monitoring stations for Contract no. HY/2009/18 and 04/HY/2006 are summarized in **Table 5.2** below:

Table 5.2 Noise Monitoring Stations for Contract no. HY/2009/18 and 04/HY/2006

Station	Description
M7e	International Finance Centre (Eastern End of Podium)
M7w	International Finance Centre (Western End of Podium)

- 5.1.4. No action and limit level exceedance was recorded during day time in the reporting month. 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. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009 and Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 5.1.5. The commencement of construction works for Contract no. HK/2009/01 under FEP-02/364/2009 is pending and HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.3** below.

Table 5.3 Noise Monitoring Station for Contract nos. HK/2009/01 and HK/2009/02

Station	Description
M1a	Harbour Road Sports Centre

- 5.1.6. Daytime and evening period noise monitoring was conducted at the Harbour Road Sport Centre in the reporting month.
- 5.1.7. Four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on [2, 8, 14 and 24 June 2011](#) during restricted hour. Major noise source was contributed from Tonnochy Road and water sport competition at Wan Chai Training Swimming Pool.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

- 5.1.8. The commencement of construction works for Contract no. HY/2009/15 under FEP-06/364/2009/A is pending. The proposed division of noise monitoring stations are summarized in **Table 5.4** below.

Table 5.4 Noise Monitoring Stations for Contract no. HY/2009/15

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

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

- 5.1.9. Noise monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 24 April 2011. The proposed division of noise monitoring stations are summarized in **Table 5.5** below.

Table 5.5 Noise Monitoring Stations for Contract no. HY/2009/19

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

- 5.1.10. **Three limit level** exceedances were recorded at M6 - HK Baptist Church Henrietta Secondary School on **2, 8, 14 June 2011** during day time of examination period. After checking contractor's work schedules and investigation found that only minor works was conducted during monitoring and traffic noises in IECL as major noise sources contributed in the noise monitoring. It was considered the exceedances were not related to the Project. 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 Results

- 5.2.1. No construction activity with valid Construction Noise Permit was conducted during night time period (2300 to 0700) in this reporting month.

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009 and Contract no. HY/2009/19 - Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link under FEP-07/364/2009/A

- 5.2.2. The proposed division of noise monitoring stations are summarized in **Table 5.6** below. Real time noise monitoring for the piling works under contract no. HY/2009/17 was commenced on 5 October 2010

Table 5.6 Real Time Noise Monitoring Stations for Contract no. HY/2009/17

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitefield Depot

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

- 5.2.3. No project related action and limit level exceedance were recorded in the reporting period. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4**.

5.2.4. The proposed division of noise monitoring stations are summarized in **Table 5.7** below. Real time noise monitoring for major construction works under contract no. HY/2009/19 was commenced on 24 April 2011.

Table 5.7 Real Time Noise Monitoring Stations for Contract no. HY/2009/19

Location ID	District	Description
RTN1	Tin Hau	FEHD Hong Kong Transport Section Whitefield Depot
RTN2	North Point	Oil Street Community Liaison Center

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

5.2.5. No project related action and limit level exceedance were recorded in the reporting period. Real time noise monitoring results measured in this reporting period are reviewed and summarized. Details of real time noise monitoring results and graphical presentation can be referred to **Appendix 5.4**.

5.3 Air Monitoring Results

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

5.3.1. The proposed division of air monitoring stations are summarized in **Table 5.8** below. Air monitoring for the piling works under contract no. HY/2009/17 was commenced on 8 October 2010.

Table 5.8 Air Monitoring Station for Contract no. HY/2009/17

Station	Description
CMA2a	Causeway Bay Community Centre

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

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A and Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

5.3.3. Construction activity under contract no. 04/HY/2006 was completed, no air monitoring for the contract was conducted. Air monitoring for the Central Interchange works under contract no. HY/2009/18 was commenced on 21 April 2011. The proposed division of air monitoring stations are summarized in **Table 5.9** below.

Table 5.9 Air Monitoring Stations for Contract no. HY/2009/18

Station	Description
MA1e	International Finance Centre (Eastern End of Podium)
MA1w	International Finance Centre (Western End of Podium)

5.3.4. Due to lack of electricity supply at station MA1w, 24 hr and 1 hr TSP were rescheduled to conduct on 22 June 2011 and 23 June 2011, respectively.

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

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

5.3.6. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HK/2009/01 under FEP-02/364/2009. The proposed division of air monitoring stations are summarized in **Table 5.10** below.

Table 5.10 Air Monitoring Station for Contract no. HK/2009/01

Station	Description
CMA5a	Children Playgrounds opposite to Pedestrian Plaza

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

5.3.7. The commencement of construction works for HK/2009/02 under FEP-01/364/2009 is on 26 April 2011. The proposed division of air monitoring stations are summarized in **Table 5.11** below.

Table 5.11 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

5.3.8. 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/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

5.3.9. Air quality monitoring will be commenced depending on the commencement of work for Contract no. HY/2009/15 under FEP-06/364/2009/A. The proposed division of air monitoring stations are summarized in **Table 5.12** below.

Table 5.12 Air Monitoring Station for Contract no. HY/2009/15

Station	Description
CMA3a	CWB PRE Site Office

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

5.3.10. The proposed division of air monitoring stations are summarized in **Table 5.13** below. Air monitoring for the tunnel works under contract no. HY/2009/19 was commenced on 26 April 2011.

Table 5.13 Air Monitoring Stations for Contract no. HY/2009/19

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

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 Waste Monitoring Results

Contract no. HY/2009/17 –Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

5.4.1. No Inert C&D waste was recycled in the reporting month. Details of the waste flow table are summarized in **Table 5.14**

Table 5.14 Details of Waste Disposal for Contract no. HY/2009/17

Waste Type	Quantity this month, m ³	Cumulative Quantity-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	1354.82	N/A
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	N/A	N/A	N/A

Contract no. 04/HY/2006 - Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

5.4.2. No inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.15**.

Table 5.15 Details of Waste Disposal for Contract no. 04/HY/2006

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	1288.5	Chai Wan and T.K.O. 137
Inert C&D materials	NIL	NIL	N/A

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
recycled			
Non-inert C&D materials disposed	NIL	NIL	N/A
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

Contract nos. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

- 5.4.3. No inert and non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.16**.

Table 5.16 Details of Waste Disposal for Contract no. HK/2009/01

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

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

- 5.4.4. Inert C&D and Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.17**.

Table 5.17 Details of Waste Disposal for Contract no. HK/2009/02

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	11,535	12,896	TKO137
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	24	42	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	1,104	1,104	N/A

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

5.4.5. Inert C&D and Non-inert C&D waste was disposed of in this reporting month. Details of the waste flow table are summarized in **Table 5.18**.

Table 5.18 Details of Waste Disposal for Contract no. HY/2009/18

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	1997.3	3946.5	T.K.O. 137
Inert C&D materials recycled	58.5	58.5	N/A
Non-inert C&D materials disposed	3.7	139.0	SENT Landfill
Non-inert C&D materials recycled	0	0	N/A
Chemical waste disposed	0	0	N/A

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

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

Table 5.19 Details of Waste Disposal for Contract no. HY/2009/15

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

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

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

Table 5.20 Details of Waste Disposal for Contract no. HY/2009/19

Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
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Waste Type*	Quantity this month, m ³	Cumulative-to-Date, m ³	Disposal / Dumping Grounds
Inert C&D materials disposed	NIL	NIL	N/A
Inert C&D materials recycled	NIL	NIL	N/A
Non-inert C&D materials disposed	2.11	2.11	SENT Landfill
Non-inert C&D materials recycled	NIL	NIL	N/A
Chemical waste disposed	NIL	NIL	N/A

6. Compliance Audit

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

6.1 Noise Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

6.1.1. No exceedance was recorded in the reporting month.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

6.1.2. No noise monitoring was undertaken in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.1.3. No exceedance was recorded in the reporting month.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention Exhibition Centre - Tunnel Works under FEP-02/364/2009

6.1.4. No noise monitoring was undertaken in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.1.5. Four limit level exceedances were recorded at M1a - Harbour Road Sports Centre on **2, 8, 14 and 24 June 2011** during restricted hour. Investigation found that major traffic noise was contributed in the noise monitoring and not related to the Project.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) under FEP-06/364/2009/A

6.1.6. No noise monitoring was undertaken in the reporting month.

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

6.1.7. Three limit level exceedances were recorded at M6 - HK Baptist Church Henrietta Secondary School on **2, 8, 14 June 2011** during day time of examination period. After checking contractor's work schedules and investigation found that only minor works was conducted during monitoring and traffic noises in IECL as major noise sources contributed in the noise monitoring. It was considered the exceedances were not related to the Project.

6.2 Real Time Noise Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

6.2.1 No exceedance was recorded in the reporting month.

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

6.2.2 No exceedance was recorded in the reporting month.

6.3 Air Monitoring

Contract no. HY/2009/17 – Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling works under FEP-03/364/2009

6.3.1. No exceedance was recorded in the reporting month.

Contract no. 04/HY/2006 – Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street under FEP-04/364/2009/A

6.3.2. No air quality monitoring was undertaken in the reporting month.

Contract no. HY/2009/18 - Central - Wan Chai Bypass (CWB) – Central Interchange under FEP-05/364/2009/A

6.3.3. No exceedance was recorded in the reporting month.

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Hong Kong Convention and Exhibition Centre - Tunnel Works under FEP-02/364/2009

6.3.4. No air quality monitoring was undertaken in the reporting month.

Contract no. HK/2009/02 - Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel) under FEP-01/364/2009

6.3.5. No exceedance was recorded in the reporting month.

Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section) FEP-06/364/2009/A

6.3.6. No air quality monitoring was undertaken in the reporting month.

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

6.3.1 No exceedance was recorded in the reporting month.

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

6.3.1. 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.

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

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

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

7. Cumulative Construction Impact due to the Concurrent Projects

7.0.1. According to Condition 3.4 of the EP-364/2009/A, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East (CWB Tunnel).

7.0.2. From the Monthly EM&A report (June 2011) of Central Reclamation Phase III the key works in June 2011 are as follows:

- Type A filling in FRAW and FRAE above +2.5mPD
- General filling works above +2.5mPD in IRAE
- Surcharging in FRAW and FRAE
- Construction of cantilever slab at caisson
- Construction of storm and foul drainage and gullies in hinterlands for Road P2 and Road D9
- Construction of GPO boundary wall
- Construction of PLA boundary wall and entrance
- Construction of Promenade enhancement works
- Construction of buildings at PLA berth
- Road P2 Underpass ramp structures
- Precasting for retaining wall (offsite)
- Installation of cooling mains discharge pipes in FRAE and FRAW
- Construction of CWB structure
- Backfilling of CWB structure
- Importation of fill material
- Strengthening of Man Yiu Street Footbridge

7.0.3. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activity under Wan Chai Development Phase II was the filling at Temporary Causeway Bay Reclamation 1 East (TCPR1E) and Temporary Public Cargo Working Area Reclamation (TPCWA), dredging works at Temporary Causeway Bay Reclamation 1 West (TCPR1W), dredging and filling works at Wan Chai Reclamation Stage 1(WCR1), Advanced piling works at FEHD Whitfield Depot, Central Interchange, cross-harbour water mains and marine pre-drilling in the reporting month. The major environmental impact was water quality impact at Causeway Bay and Wan Chai. Land-based construction activity was only advanced piling works at FEHD Whitfield Depot, sheet piling and pre-drilling works at Central, marine pre-drilling at North Point in the reporting month and tunnel works at Wan Chai East.

7.0.4. The major environmental impacts generated from the Central Reclamation Phase III were located along the coastline of Central and Admiralty while advanced piling works at FEHD Whitfield Depot were undertaken and sheet piling, pre-drilling works at Central and tunnel works at Wan Chai East in the reporting month. No significant air, noise impact were anticipated in the reporting month. Besides, no environmental monitoring exceedance was



recorded from the Project in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Wan Chai Development Phase II and Central Reclamation Phase III was insignificant.

8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HY/2009/17, HY/2009/18, HY/2009/19 and HK/2009/02. No non-conformance was identified during the site audits.
- 8.0.2. Four site inspections for Contract no. HY/2009/17 were carried out during this reporting period. No observation was recorded in this reporting month.
- 8.0.3. Four site inspections for Contract no. HY/2009/18 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.1**.

Table 8.1 Summary of Environmental Inspections for Contract no. HY/2009/18

Item	Date	Observations	Action taken by Contractor	Outcome
110602_01	02-Jun-11	Sand bags, for protecting gully, should be replaced.	Replace new sandbags for gully protection	Completion as observed on 9-June - 2011

- 8.0.4. Four site inspections for Contract no. HY/2009/19 was carried out during this reporting period. No observation was recorded in this reporting month.
- 8.0.5. Major construction works were completed and Engineer's confirmation for completion of work is under processing in this reporting month. No site inspection for Contract no. 04/HY/2006 was carried out during this reporting period.
- 8.0.6. Four site inspections for Contract no. HK/2009/02 was carried out during this reporting period. The results of these inspections and outcomes are summarized in **Table 8.3**.

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

Item	Date	Observations	Action taken by Contractor	Outcome
110609_01	09-Jun-11	Uncovered waste oil container without drip tray was located next to chemical waste storage cabinet. Contractor needs to place it properly and dispose it regularly by register collector.	Place was oil container properly and dispose it regularly by register collector	Completion as observed on 16-June -11
110616_01	16-Jun-11	Drip tray shall be provided to the oil container near the site entrance.	Provided drip tray to the oil container	Completion as observed on 23-June -11
110623_02	23-Jun-11	Drip tray shall be provided underneath the air compressor at ex-Pet Garden.	Provided drip tray to the air compressor	Completion as observed on 30-June-11
110623_03	23-Jun-11	Stockpile of C&D material shall be covered after daily work.	Covered stockpile of C&D material after daily work	Completion as observed on 30-June-11
110623_04	23-Jun-11	Silt screen and silt curtain shall be checked and maintained after adverse weather.	Check and maintain silt screen and silt curtain after adverse weather.	Completion as observed on 30-June-11

9. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

9.0.1. No complaint, notification of summons and prosecution was received in the reporting month. The details of cumulative complaint log and updated summary of complaints are presented in ***Appendix 9.1.***

9.0.2. 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
June 2011	0
Sep 10 to May 11	0

Table 9.2 Cumulative Statistics on Successful Prosecutions

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

10. CONCLUSION

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

10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in **Table 10.1**. The construction programmes of individual contracts are provided in **Appendix 10.1**.

Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

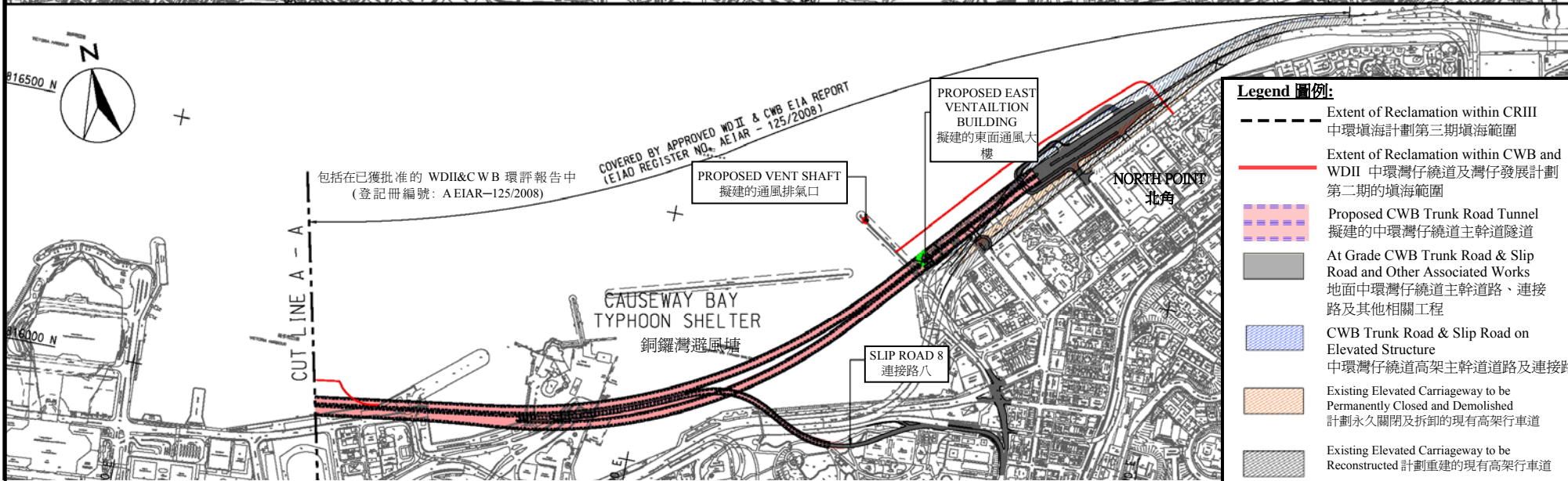
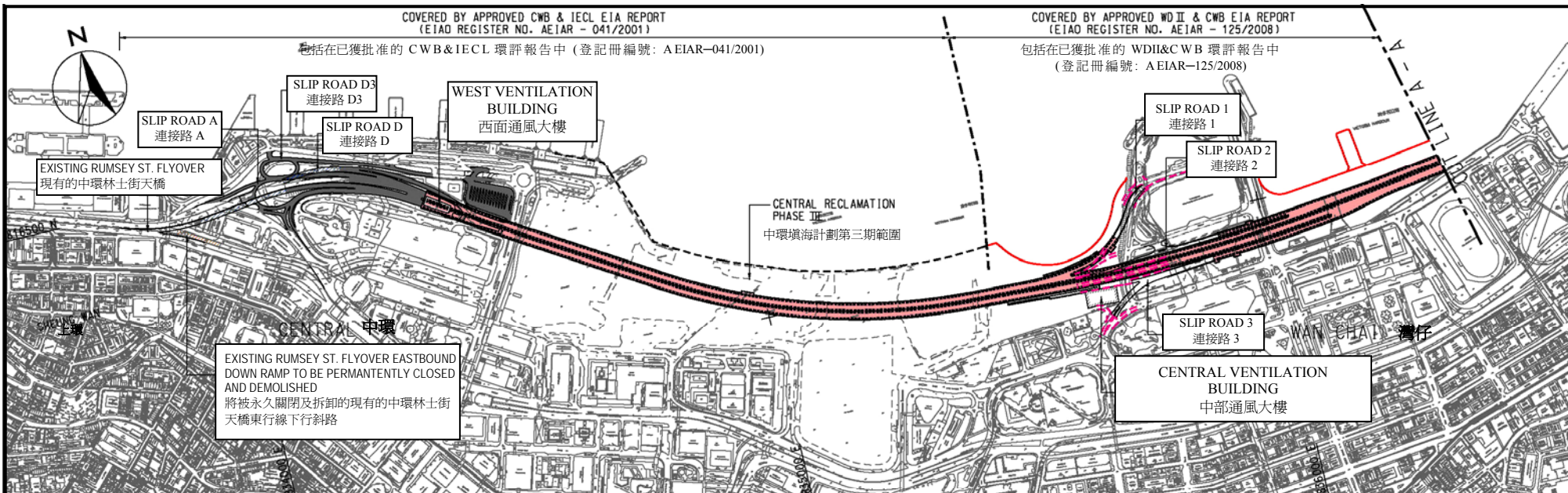
Contract No.	Key Construction Works	Recommended Mitigation Measures
HY/2009/17	<ul style="list-style-type: none"> • Pile cap construction 	<ul style="list-style-type: none"> • Noise barrier shall be implemented; and • Watering any dust generating activities
HY/2009/18	<ul style="list-style-type: none"> • Instrumentation Manholes and Intake Culvert Survey • Excavation of trial pit • Hoarding erection • Tree transplanting • Installation of coupler in CR3 • Drainage diversion works • Site investigation and pre-drilling works • Excavation in Trough B • Man Kwong Street Gate 1 & 2 setup • Sheet piling • Retaining wall 	<ul style="list-style-type: none"> • Idle stockpile shall be covered well. • Water spraying shall be conducted more frequently; and • Noise level shall be controlled by reducing drilling rate.
HY2009/19	<ul style="list-style-type: none"> • Steel fabrication of temporary platform • Erection of platform to enable marine pre-drilling • Marine Pre-drilling 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing drilling rate.
HK2009/02	<ul style="list-style-type: none"> • Tunnel bored pile works. • Guide wall construction for diaphragm wall construction. • Pre-treatment for diaphragm wall construction. 	<ul style="list-style-type: none"> • Noise level shall be controlled by reducing pilling rate. • Watering any dust generating activities

10.0.3. Major construction works for Contract no. 04/HY/2006 were completed and Engineer's confirmation for completion of work is under processing in this reporting month.



Figure 2.1

Project Layout



Legend 圖例:

- Extent of Reclamation within CR/III 中環填海計劃第三期填海範圍
- Extent of Reclamation within CWB and WDII 中環灣仔繞道及灣仔發展計劃第二期的填海範圍
- Proposed CWB Trunk Road Tunnel 擬建的中環灣仔繞道主幹道隧道
- At Grade CWB Trunk Road & Slip Road and Other Associated Works 地面中環灣仔繞道主幹道路、連接路及其他相關工程
- CWB Trunk Road & Slip Road on Elevated Structure 中環灣仔繞道高架主幹道路及連接路
- Existing Elevated Carriageway to be Permanently Closed and Demolished 計劃永久關閉及拆卸的現有高架行車道
- Existing Elevated Carriageway to be Reconstructed 計劃重建的現有高架行車道

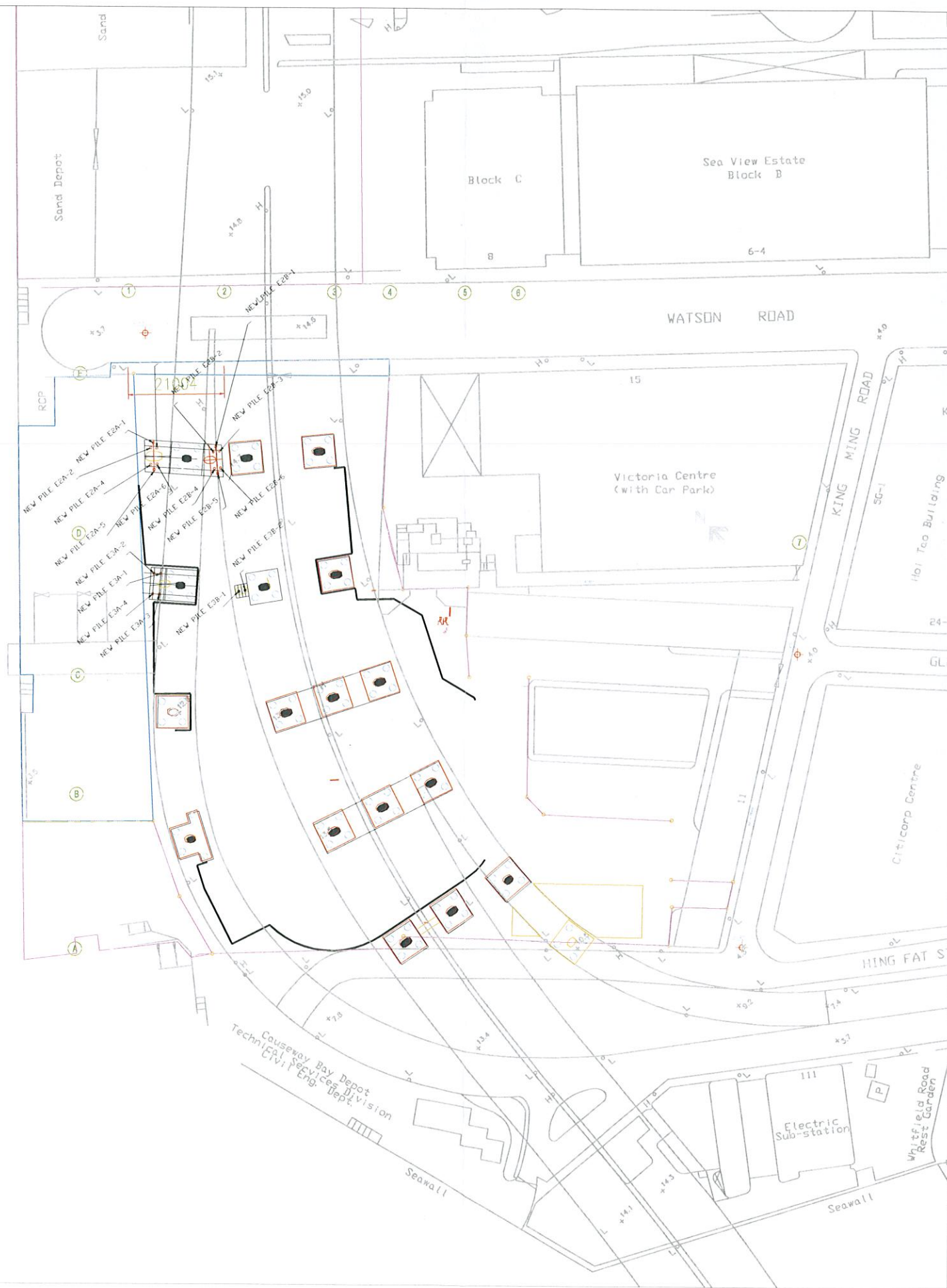


Project Title: Central-Wanchai Bypass (CWB) Including Its Road Tunnel and Slip Roads
 工程項目名稱: 中環灣仔繞道包括其行車隧道及連接路

Environmental Permit No.: EP-364/2009/A
 環境許可證編號: EP-364/2009/A

Figure 1: Location of the Project
 圖 1: 工程項目位置

(This figure was prepared on Figure 1.1 of the Application for Environmental Permit (Application No.: AEP-364/2009))
 (本圖是根據環境許可證的申請(申請書編號 AEP-364/2009 圖 1.1 編製)



1 Co-ordinates are relative to Hong Kong Metric Grid (1980)

Legend:

REV.	DATE	DESCRIPTION	CHK.BY	AUTH.BY

Highways Department 路政署
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LIN

PWP ITEM NO. 579 TH K
計劃項目編號

Project:
CENTRAL - WAN CHAI BYPASS - FEH WHITFIELD DEPOT RE-PROVISIONING WORKS



Drawing Title
PILING PLAN FOR MODIFIED ICE BRIDGE

Contractor
LAM WOO & COMPANY LIMITED

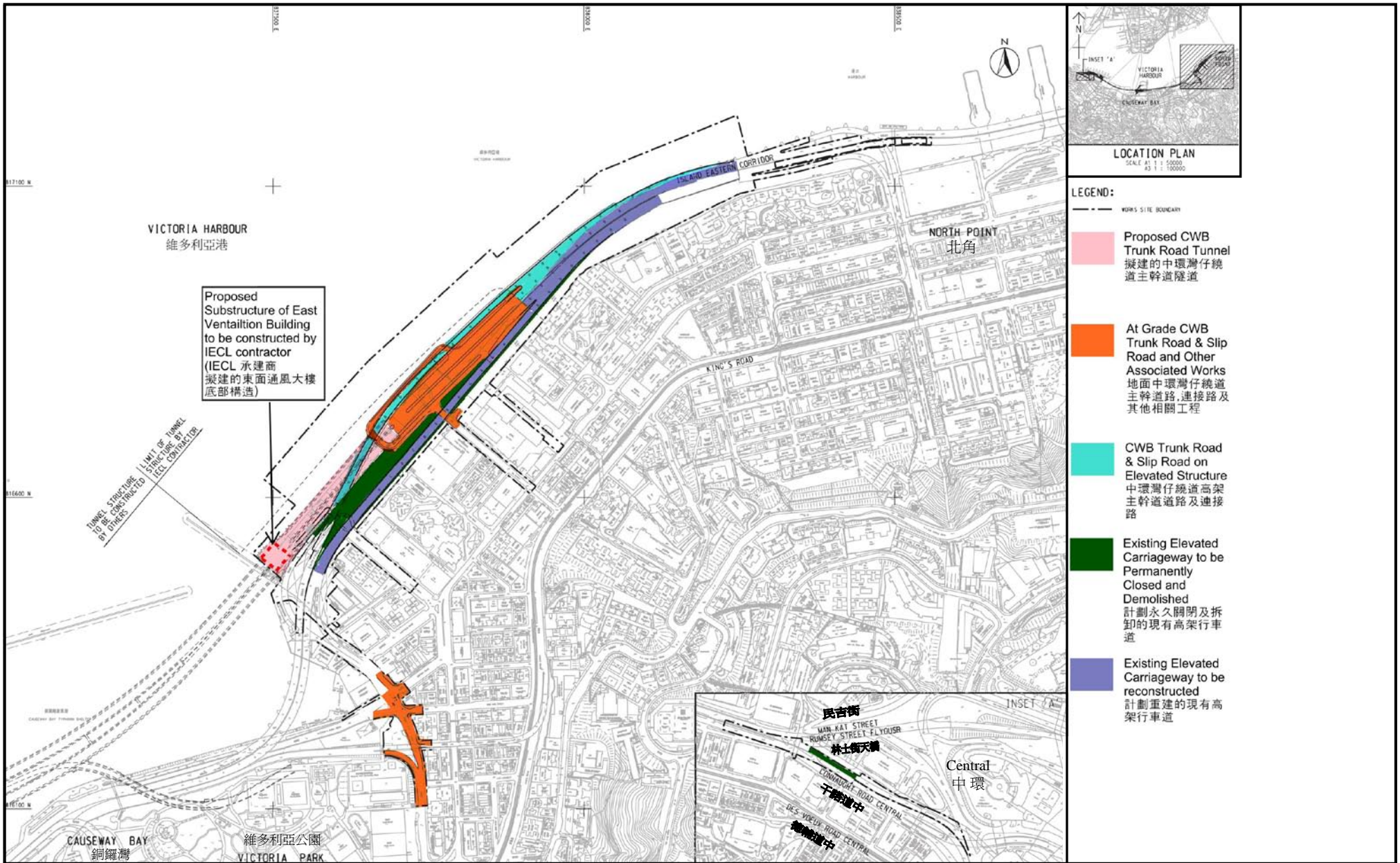
DRAWING NO. 0020

SURVEY DATE 12-06-2010

DRAWN BY KENG

CHECKED BY

SCALE 1:1000 SHEET 1



Project Title: Central-Wanchai Bypass (CWB) – Tunnel (North Point Section) and Island Eastern Corridor Link
 工程項目名稱：中環灣仔繞道—北角段隧道及東區走廊連接路
 Environmental Permit No. : FEP-07-364/2009/A
 環境許可證編號 : FEP-07-364/2009/A

Figure 1b: General Layout Plan
 圖 1b: 工程項目佈局圖

(This figure was prepared based on Sketch No.60095653/IEC/DF0006 of Application for Further Environmental Permit (Application No.: FEP-120/2011)
 (本圖是根據申請新的環境許可證 (申請書編號 FEP-120/2011) 圖 60095653/IEC/DF0006 編製)



Figure 2.2

Project Organization Chart



Project Organization Chart

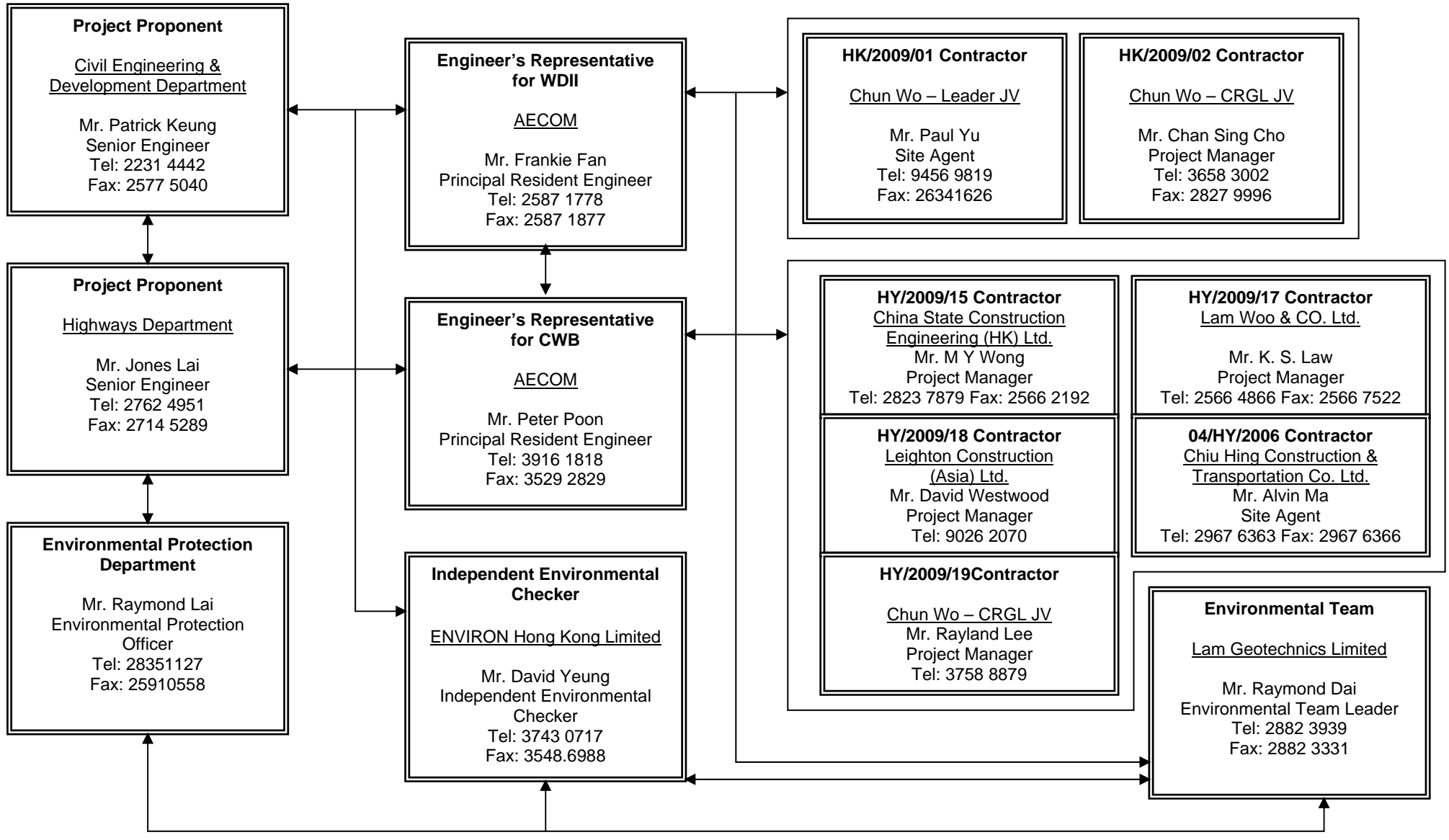
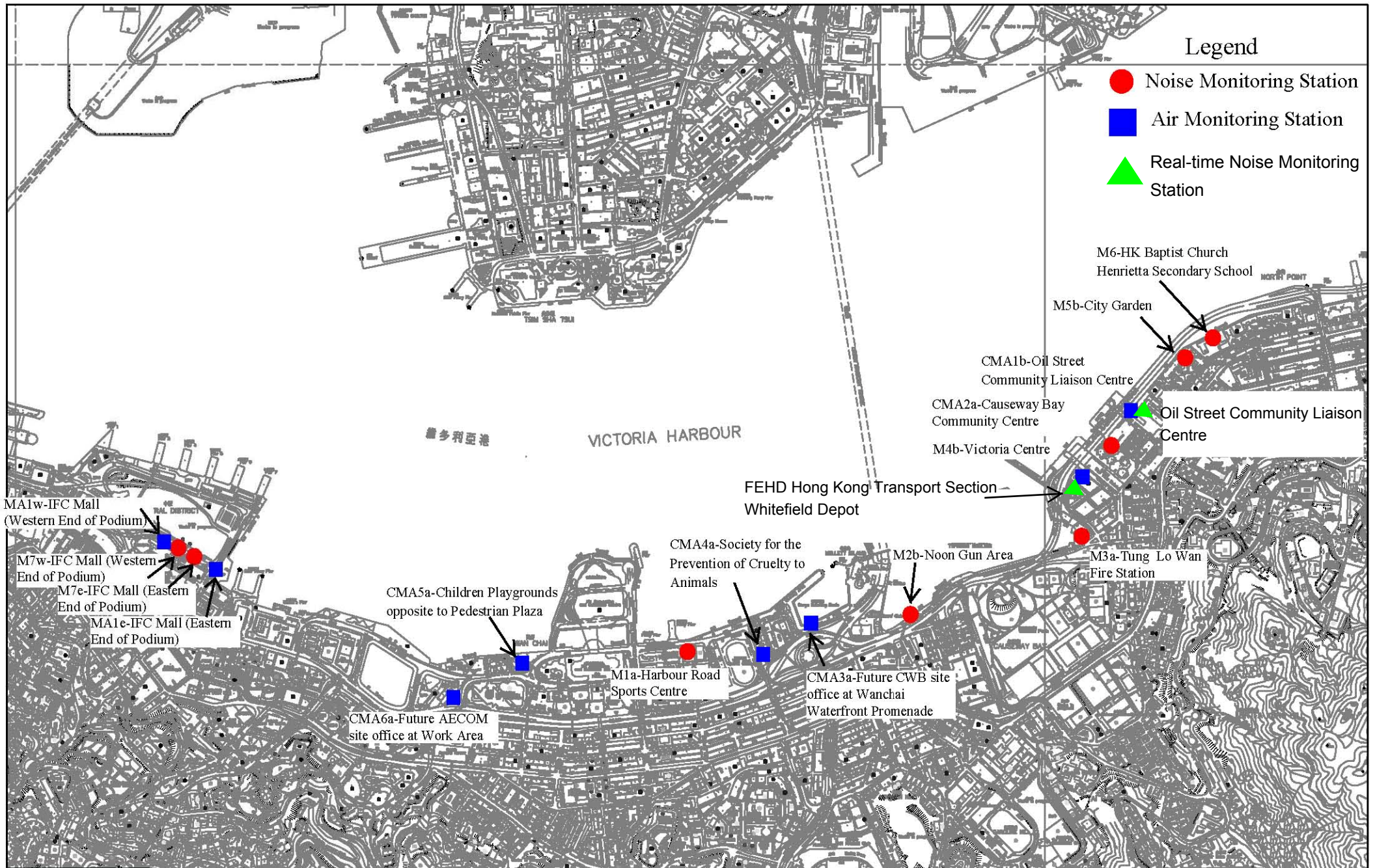




Figure 4.1

Locations of Monitoring Stations



Location plan of Environmental Monitoring Stations



Appendix 3.1

Environmental Mitigation Implementation Schedule

IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

Table A.1 Implementation Schedule for Air Quality Control

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
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. <ul style="list-style-type: none"> 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		√			
Operational Phase								
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 of Volume 1 of the WDII & CWB EIA Report.	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 A.2 Implementation Schedule for Noise Control

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S4.9.3	<p>Good Site Practice:</p> <ul style="list-style-type: none"> 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
S4.8.1 – S4.8.11	<p>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</p> <ul style="list-style-type: none"> Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill 	Work Sites / During Construction	Contractor		√			EIAO-TM, NCO

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<ul style="list-style-type: none"> Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC <p>Use of PME grouping for the following tasks:</p> <ul style="list-style-type: none"> At-grade road construction Substructure for IECL connection 							
Operation Phase								
S4.8.12 – S4.8.23	<p>For Existing NSRs</p> <ul style="list-style-type: none"> 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 4.5m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC (amended under EP-364/2009/A) 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

WDH & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
	<p>For Future/Planned NSRs</p> <ul style="list-style-type: none"> • about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC • 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. 	<p>In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.</p> <p>Near Causeway Bay Fire Station / During detailed design of the re-provisioned Tin Hau Temple</p>	<p>HyD</p> <p>Project Proponent for the re-provisioned Tin Hau Temple</p>	√	√ #			

* 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 A.4 Implementation Schedule for Waste Management

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
S6.5.14	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 D9.3.	Work site / During the construction period	Contractor		√			
S6.6.1	Good Site Practices Recommendations for good site practices during the construction activities include: <ul style="list-style-type: none"> • 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)

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.2	<p><i>Waste Reduction Measures</i></p> <p>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:</p> <ul style="list-style-type: none"> • 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	√	√			

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.4	<p><i>General Refuse</i></p> <p>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.</p> <p>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.</p>	Work site / During the construction period	Contractor		√			Public Health and Municipal Services Ordinance (Cap. 132)
S6.6.5	<p><i>Chemical Wastes</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			<p>Waste Disposal (Chemical Waste) (General) Regulation</p> <p>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</p>
S6.6.6	<p><i>Construction and Demolition Material</i></p> <p>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.</p>	Work site / During the construction period	Contractor		√			ETWB TCW No. 33/2002, 31/2004, 19/2005

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
S6.6.7	In order to monitor the disposal of public fill and C&D waste at public fill reception 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
S6.6.8	<p><i>Bentonite Slurry</i></p> <p>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:</p> <ul style="list-style-type: none"> • 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 A.5 Implementation Schedule for Land Contamination

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction and Operation Phase								
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-					-

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

Table A.7 Implementation Schedule for Landscape and Visual

WDII & CWB EIA Report Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
				Des	C	O	Dec	
Construction Phase								
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
Operation Phase								
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	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

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



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)/ 70 dB(A)/ 65 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 $\mu\text{g}/\text{m}^3$		24-hour TSP Level in $\mu\text{g}/\text{m}^3$	
	Action Level	Limit Level	Action Level	Limit Level
CMA1b	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3 _a	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5 _a	332.0	500	181.0	260
MA1e	325.1	500	173.4	260
MA1w	325.1	500	173.4	260



Appendix 4.2

Copies of Calibration Certificates



Calibration Certificate

Certificate No. **03250A**

Page 1 of 3 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q01282

Date of receipt : 14-Jun-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ONO SOKKI

Model : LA-5110

Serial No. : 72302293

Test Conditions

Date of Test : 21-Jun-10

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

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

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

Main Test equipment used:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017	Multi-Function Generator	C101623	SCL-HKSAR
S024	Sound Level Calibrator	93758	NIM-PRC & SCL-HKSAR

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

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

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

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8646

Date: 8-Oct-10



Calibration Certificate

Certificate No. **03250A**

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UUT Setting		Frequency Weighting	Dynamic Characteristic	Applied Value (dB)	UUT Reading (dB)
Level Range	Filter				
40 - 100 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	94.03	94.0
			SLOW		94.0
		C	FAST		94.0
60 - 120 dB	OFF	A	FAST	113.97	113.9
			SLOW		113.9
		C	FAST		113.9

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

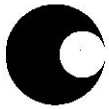
Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
130	114.0	114.1	+0.1	± 0.7 dB
130	104.0	104.1	+0.1	
120	94.0	94.0 (Ref.)	--	
110	84.0	84.0	0.0	
100	74.0	74.1	+0.1	
90	64.0	64.1	+0.1	
80	54.0	54.0	0.0	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 03250A

Page 3 of 3 Pages

3.2 Differential level linearity

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

Uncertainty : ± 0.1 dB

4. Frequency Weighting A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-40.5	- 39.4 dB, ± 1.5 dB
63 Hz	-26.9	- 26.2 dB, ± 1.5 dB
125 Hz	-16.9	- 16.1 dB, ± 1 dB
250 Hz	-9.1	- 8.6 dB, ± 1 dB
500 Hz	-3.5	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+1.5	+ 1.2 dB, ± 1 dB
5 kHz	+1.2	+ 1.0 dB, ± 1 dB
8 kHz	-1.0	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	-7.0	- 6.6 dB, + 3 dB ~ ∞

Uncertainty : ± 0.1 dB

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	40.0	± 0.5 dB
1/10 ²	40.0	40.0	
1/10 ³	40.0	40.1	± 1.0 dB
1/10 ⁴	40.0	39.9	

Uncertainty : ± 0.1 dB

Remarks : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 1 000 hPa.

4. This certificate is supersede our former certificate no. 03250.

----- END -----



Calibration Certificate

Certificate No. **03445**

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q01282

Date of receipt : 14-Jun-10

Item Tested

Description : Sound Level Calibrator (EL078)

Manufacturer : ONO SOKKI

Model : SC-2110

Serial No. : 00393

Test Conditions

Date of Test : 21-Jun-10

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z02.

Test Results

All results were within the IEC 942 Class 2 specification.

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

Main Test equipment used:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S024	Sound Level Calibrator	93758	16-Jul-10	NIM-PRC & SCL-HKSAR
S041	Universal Counter	94005	6-Aug-10	SCL-HKSAR

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

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

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

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

This Certificate is issued by:

Hong Kong Calibration Ltd.

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

Tel: 2425 8801 Fax: 2425 8846

Date: 25-Jun-10



Calibration Certificate

Certificate No. 03445

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 2 Spec.
94	94.05	± 0.5 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 942 Class 2 Spec.
1	0.998	± 4 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

IEC 942 Class 2 Spec. : ± 1.2 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 1.2 %

IEC 942 Class 1 Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The above measured values are the mean of 3 measurements.

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

4. Atmospheric Pressure : 1 000 hPa.

----- END -----



Calibration Certificate

Certificate No. **06680**

Page 1 of 4 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q02553

Date of receipt : 18-Nov-10

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : ACO

Model : Type 6224

Serial No. : 050112

Test Conditions

Date of Test : 19-Nov-10

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^\circ\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01.

Test Results

All results were within the IEC 651 Type 1 & 804 Type I Specification.


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


Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S017A	Multi-Function Generator	00804	SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR

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

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

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

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

Date: 23-Nov-10



Calibration Certificate

Certificate No. 06680

Page 2 of 4 Pages

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Time Const.		
20 – 100	L _A	Fast	94.0	94.3
		Slow		94.3
	L _C	Fast		94.3
30 – 120	L _A	Fast	94.0	94.4
		Slow		94.4
	L _C	Fast		94.4
30 – 120	L _A	Fast	114.0	94.3
		Slow		94.3
	L _C	Fast		94.3

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.1 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB

3. Linearity

3.1 Level Linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec. (Primary Indicator Range)
140	114.0	114.5	+0.1	± 0.7 dB
130	104.0	104.4	0.0	
120	94.0	94.4 (Ref.)	--	
110	84.0	84.1	-0.3	
100	74.0	74.2	-0.2	
90	64.0	64.1	-0.3	
80	54.0	54.1	-0.3	

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. **06680**

Page 3 of 4 Pages

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Rdg (dB)	Variation (dB)	IEC 651 Type 1 Spec.
120	84.0	84.1	-0.3	± 0.4
	94.0	94.4 (Ref.)	- -	
	95.0	95.4	0.0	± 0.2

Uncertainty : ± 0.1 dB

4. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	-39.3	- 39.4 dB, ± 1.5 dB
63 Hz	-26.2	- 26.2 dB, ± 1.5 dB
125 Hz	-16.1	- 16.1 dB, ± 1 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref)	0 dB, ± 1 dB
2 kHz	+1.3	+ 1.2 dB, ± 1 dB
4 kHz	+0.9	+ 1.0 dB, ± 1 dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -3 dB
16 kHz	-5.8	- 6.6 dB, + 3 dB ~ - ∞

Uncertainty : ± 0.1 dB



Calibration Certificate

Certificate No. 06680

Page 4 of 4 Pages

4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.9	± 0.5 dB
1/10 ²	40.0	39.9	
1/10 ³	40.0	40.3	± 1.0 dB
1/10 ⁴	40.0	40.3	

Uncertainty : ± 0.1 dB

- Remark : 1. UUT : Unit-Under-Test
2. The uncertainty claimed is for a confidence probability of not less than 95%.
3. Atmospheric Pressure : 1 009 hPa.

----- END -----



Calibration Certificate

Certificate No. **06681**

Page 1 of 2 Pages

Customer : Lam Geotechnics Limited

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

Order No. : Q02553

Date of receipt : 18-Nov-10

Item Tested

Description : Sound Level Calibrator (EL469)

Manufacturer : ACO

Model : --

Serial No. : 050213

Test Conditions

Date of Test : 19-Nov-10

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^{\circ}\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02.

Test Results

All results were within the IEC 942 Class 1 specification.

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

Main Test equipment used:


<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	03926	NIM-PRC & SCL-HKSAR
S024	Sound Level Calibrator	04062	NIM-PRC & SCL-HKSAR
S041	Universal Counter	04461	SCL-HKSAR
S206	Sound Level Meter	04462	SCL-HKSAR

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

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

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

Calibrated by : 
P. F. Wong

Approved by : 
Dorothy Cheuk

Date: 23-Nov-10



Calibration Certificate

Certificate No. 06681

Page 2 of 2 Pages

Results :

1. Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.22	± 0.3 dB

The above measured values are the mean of 3 measurements.

Uncertainty : ± 0.1 dB

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	0.9834 kHz	± 2 %

Uncertainty : ± 3.6 x 10⁻⁶

3. Level Stability : 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.2 %

IEC 942 Class 1 Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

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

3. Atmospheric Pressure : 1 009 hPa.

----- END -----



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

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 28, 2010 Rootsometer S/N 9833620 Ta (K) - 298
 Operator Tisch Orifice I.D. - 0005 Pa (mm) - 745.49

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3860	3.2	2.00
2	NA	NA	1.00	0.9740	6.4	4.00
3	NA	NA	1.00	0.8730	7.9	5.00
4	NA	NA	1.00	0.8320	8.8	5.50
5	NA	NA	1.00	0.6850	12.7	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9767	0.7047	1.4006	0.9957	0.7184	0.8941
0.9725	0.9985	1.9808	0.9914	1.0179	1.2645
0.9704	1.1116	2.2146	0.9893	1.1332	1.4137
0.9693	1.1650	2.3227	0.9882	1.1877	1.4828
0.9641	1.4075	2.8013	0.9829	1.4349	1.7883
Qstd slope (m) = 1.99628			Qa slope (m) = 1.25003		
intercept (b) = -0.00699			intercept (b) = -0.00446		
coefficient (r) = 0.99995			coefficient (r) = 0.99995		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

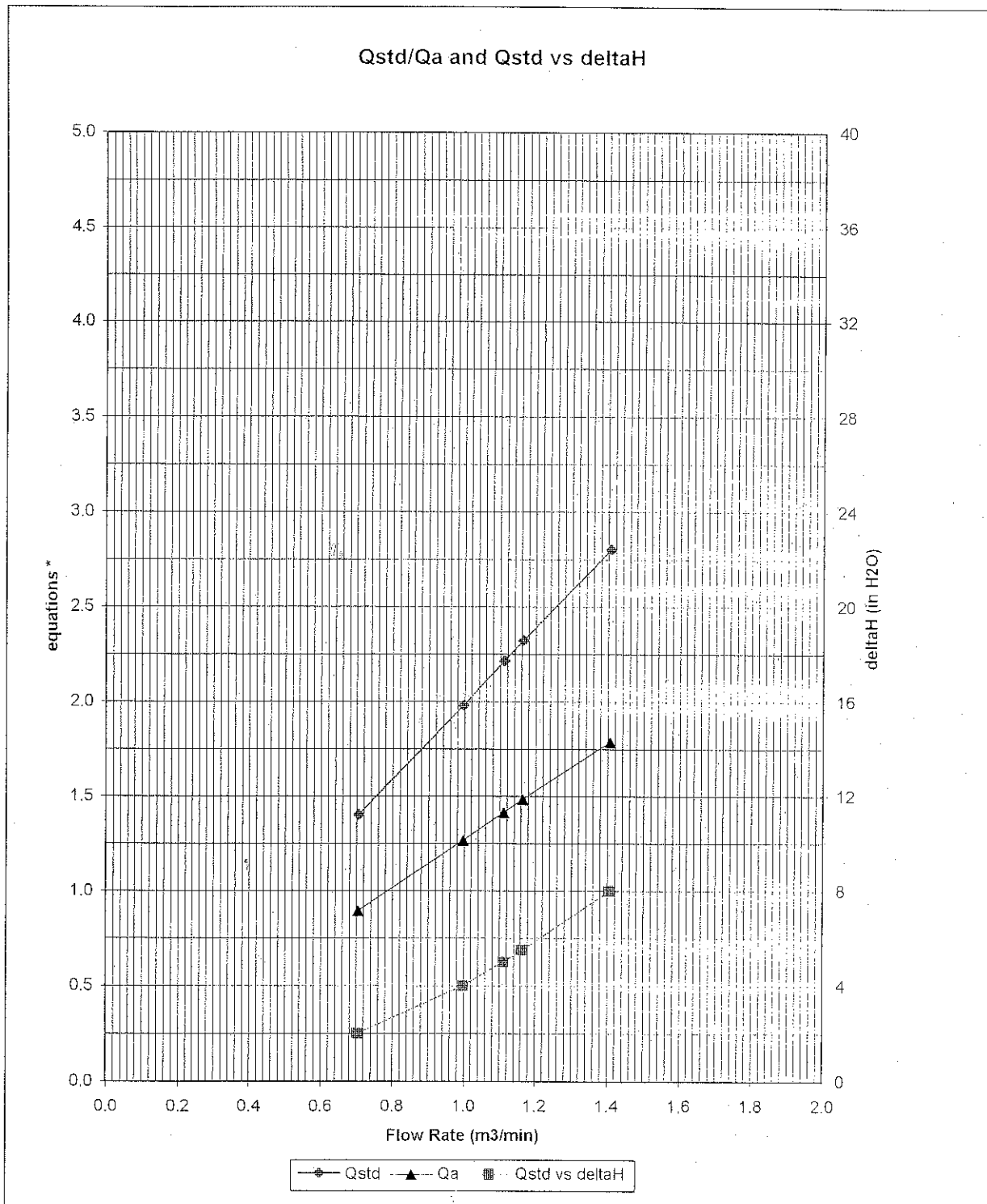
$$Qstd = 1/m \{ [\text{SQRT}(H2O(Pa/760)(298/Ta))] - b \}$$

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



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AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:
$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:
$$\sqrt{(\Delta H (T_a / P_a))}$$

#0005



CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-7

Page 1 of 2

Calibration of :

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2722310		2698702

Client :

Lam Geotechnics Limited
11/F, Centre Point
181-185 Gloucester Road
Wanchai
Hong Kong

Calibration Conditions :

Air Temperature :	23	°C
Air Pressure :	101.9	kPa
Relative Humidity :	62	%

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.


Date of Calibration : 22 July, 2010

Calibrated By :

Certificate issued : 22 July, 2010

Approved signatory :


Dai Bin


Jacky Leung

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CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100612-7

Page 2 of 2

Results :

List of performed (sub) test with test status:

“OK” Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

“ - ” Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Brüel & Kjær's Sound Level Meter Calibration System	B&K 9600	CAL2238A	Ver.25.10.1999	
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCS (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : *Dar R M*
Date : 22 July 2010

Checked By : *[Signature]*
Date : 22 July, 2010

CERTIFICATE OF CALIBRATION**Certificate No. :** 2KS100705-2**Page 1 of 2****Calibration of :**

Description :	Sound Level Meter	,	Microphone
Manufacture :	Brüel & Kjær		
Type No. :	2250	,	4950
Serial No. :	2722311		2698703

Client :

Lam Geotechnics Limited
11/F, Centre Point
181-185 Gloucester Road
Wanchai
Hong Kong

Calibration Conditions :

Air Temperature :	23	°C
Air Pressure :	101.9	kPa
Relative Humidity :	62	%

Test Specifications :

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of :
Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999
The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result :

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration : 03 Aug, 2010

Certificate issued : 03 Aug, 2010

Calibrated By :

Approved signatory :


Dai Bin
Jacky Leung

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CERTIFICATE OF CALIBRATION

Certificate No. : 2KS100705-2

Page 2 of 2

Results :

List of performed (sub) test with test status:

“OK” Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

“ - ” Means the result of the (sub)test is Outside these tolerances.

Test :	Subtest :	Status :
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment :

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999

Description :	Make & Model :	Serial No. :	Last Cal. Date :	Traceable to:
Digital Multi-meter	Datron 1281	27361	30 Sept, 2009	HKSCS (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1843103	11 Aug 2009	NPL via B&K (DANAK)

Calibrated By : *Dai & M*
Date : 03 Aug 2010

Checked By : *Janly*
Date : 03 Aug, 2010



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : IFC-E
 Equipment no. : EL455

Calibration Date : 29-Apr-11
 Calibration Due Date : 29-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	290	Kelvin	Pressure, P _a
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.00300	Intercept, b _c	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading H (inches of water)			Q _{std} (m ³ / min.) X-axis	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31) Y-axis
	(up)	(down)	(difference)			
1	6.2	6.2	12.4	1.7896	61	62.0093
2	4.9	4.9	9.8	1.5913	53	53.8770
3	3.8	3.8	7.6	1.4016	45	45.7446
4	2.4	2.4	4.8	1.1144	33	33.5460
5	1.5	1.5	3.0	0.8815	25	25.4137

By Linear Regression of Y on X

Slope, m = 40.7543 Intercept, b = -11.1320
 Correlation Coefficient* = 0.9994
 Calibration Accepted = Yes/Ne**

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

** Delete as appropriate.

Remarks :

Calibrated by : Derek Lo
 Date : 29-Apr-11

Checked by : Cherry Mak
 Date : 29-Apr-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : IFC-W
 Equipment no. : EL080

Calibration Date : 29-Apr-11
 Calibration Due Date : 29-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T_a	290	Kelvin	Pressure, P_a
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m_c	2.00300	Intercept, b_c	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q_{std} ($m^3 / min.$) X-axis	Continuous Flow Recorder, W (CFM)	IC ($(W \times P_a / 1013.3 \times 298 / T_a)^{1/2} / 35.31$) Y-axis
	(up)	(down)	(difference)			
1	5.9	5.9	11.8	1.7459	54	54.8935
2	4.7	4.7	9.4	1.5585	48	48.7942
3	3.7	3.7	7.4	1.3831	41	41.6784
4	2.4	2.4	4.8	1.1144	30	30.4964
5	1.4	1.4	2.8	0.8517	22	22.3640

By Linear Regression of Y on X

Slope, m = 37.3161 Intercept, b = -10.0117
 Correlation Coefficient* = 0.9986
 Calibration Accepted = Yes/Ne**

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

** Delete as appropriate.

Remarks :			
Calibrated by	: Derek Lo	Checked by	: Cherry Mak
Date	: 29-Apr-11	Date	: 29-Apr-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA1b
 Equipment no. : EL452

Calibration Date : 04-May-11
 Calibration Due Date : 04-Jul-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	290	Kelvin	Pressure, P _a
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.00300	Intercept, b _c	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			Q _{std} (m ³ / min.)	Continuous Flow Recorder, W (CFM)	IC (W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)			
1	6.4	6.4	12.8	1.8182	62	63.0259
2	5.0	5.0	10.0	1.6074	53	53.8770
3	3.9	3.9	7.8	1.4199	46	46.7611
4	2.5	2.5	5	1.1373	35	35.5791
5	1.6	1.6	3.2	0.9104	25	25.4137

By Linear Regression of Y on X

Slope, m = 40.9169 Intercept, b = -11.4784
 Correlation Coefficient* = 0.9997
 Calibration Accepted = Yes/Ne**

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

** Delete as appropriate.

Remarks :

Calibrated by : Derek Lo
 Date : 04-May-11

Checked by : Cherry Mak
 Date : 04-May-11



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location : CMA2a
 Equipment no. : EL449

Calibration Date : 29-Apr-11
 Calibration Due Date : 29-Jun-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	290	Kelvin	Pressure, P _a
			1019 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.00300	Intercept, b _c	-0.00500
Last Calibration Date	28-Jun-10	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			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
	(up)	(down)	(difference)			
1	6.5	6.5	13	1.8324	51	51.8439
2	5.3	5.3	10.6	1.6548	45	45.7446
3	4.1	4.1	8.2	1.4558	38	38.6288
4	2.6	2.6	5.2	1.1598	27	27.4468
5	1.7	1.7	3.4	0.9383	15	15.2482

By Linear Regression of Y on X

Slope, m = 40.1984 Intercept, b = -20.8256
 Correlation Coefficient* = 0.9957
 Calibration Accepted = Yes/Ne**

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

** Delete as appropriate.

Remarks :			
Calibrated by : <u>Derek Lo</u>		Checked by : <u>Cherry Mak</u>	
Date : <u>29-Apr-11</u>		Date : <u>29-Apr-11</u>	



Lam Geotechnics Limited

Calibration Data for High Volume Sampler (TSP Sampler)

Location	CMA4a	Calibration Date	04-May-11
Equipment no.	EL390	Calibration Due Date	04-Jul-11

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition			
Temperature, T _a	293	Kelvin	Pressure, P _a 1016 mmHg

Orifice Transfer Standard Information					
Equipment No.	EL086	Slope, m _c	2.00300	Intercept, b _c	-0.00500
Last Calibration Date	28-Jun-10	$\left(\frac{H \times P_a}{1013.3 \times 298 / T_a} \right)^{1/2}$ $= m_c \times Q_{std} + b_c$			
Next Calibration Date	28-Jun-11				

Calibration of RSP						
Calibration Point	Manometer Reading			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
	(up)	(down)	(difference)			
1	6	6	12	1.7490	56	56.5510
2	4.7	4.7	9.4	1.5482	49	49.4821
3	3.7	3.7	7.4	1.3740	42	42.4132
4	2.4	2.4	4.8	1.1071	34	34.3345
5	1.5	1.5	3.0	0.8757	23	23.2263

By Linear Regression of Y on X

Slope, m	=	37.3850	Intercept, b	=	-8.5502
Correlation Coefficient*	=	0.9975			
Calibration Accepted	=	Yes/Ne**			

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

** Delete as appropriate.

Remarks :			
Calibrated by	: <u>Derek Lo</u>	Checked by	: <u>Cherry Mak</u>
Date	: <u>04-May-11</u>	Date	: <u>04-May-11</u>



Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
June 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						28-May
29-May	30-May 24hr TSP	31-May 1hr TSP x 3	1-Jun	2-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	3-Jun 24hr TSP	4-Jun 1hr TSP x 3
5-Jun	6-Jun	7-Jun	8-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	9-Jun 24hr TSP	10-Jun 1hr TSP x 3	11-Jun
12-Jun	13-Jun	14-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	15-Jun 24hr TSP	16-Jun 1hr TSP x 3	17-Jun	18-Jun
19-Jun	20-Jun Noise (Day time)	21-Jun 24hr TSP	22-Jun 1hr TSP x 3	23-Jun	24-Jun Noise (Restricted hr) 1900-2300	25-Jun
26-Jun	27-Jun 24hr TSP					

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
July 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-Jun	27-Jun 24hr TSP	28-Jun 1hr TSP x 3	29-Jun Noise (Day time) Noise (Restricted hr) 1900-2300	30-Jun	1-Jul	2-Jul 24hr TSP
3-Jul	4-Jul	5-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	6-Jul	7-Jul	8-Jul 24hr TSP	9-Jul 1hr TSP x 3
10-Jul	11-Jul	12-Jul	13-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	14-Jul 24hr TSP	15-Jul 1hr TSP x 3	16-Jul
17-Jul	18-Jul	19-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	20-Jul 24hr TSP	21-Jul 1hr TSP x 3	22-Jul	23-Jul
24-Jul	25-Jul Noise (Day time) Noise (Restricted hr) 1900-2300	26-Jul 24hr TSP	27-Jul 1hr TSP x 3	28-Jul	29-Jul	30-Jul

Contract No. HK/2009/05
Wan Chai Development Phase II and Central-Wan Chai Bypass
Sampling, Field Measurement and Testing Works (Stage 1)
Tentative Environmental Monitoring Schedule
Aug-11

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				28-Jul	29-Jul	30-Jul
31-Jul	01-Aug 24hr TSP	02-Aug 1hr TSP x 3	03-Aug	04-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	05-Aug	06-Aug 24hr TSP
07-Aug	08-Aug 1hr TSP x 3	09-Aug	10-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	11-Aug	12-Aug 24hr TSP	13-Aug 1hr TSP x 3
14-Aug	15-Aug	16-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	17-Aug	18-Aug 24hr TSP	19-Aug 1hr TSP x 3	20-Aug
21-Aug	22-Aug Noise (Day time) Noise (Restricted hr) 1900-2000	23-Aug	24-Aug 24hr TSP	25-Aug 1hr TSP x 3	26-Aug	27-Aug

Remarks (Air)

1. Cut-off date is at the 27th of each reporting month
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Air Quality Monitoring Stations corresponding to active contracts are sub-divided below
 - Contract 04/HY/2006: MA1e and MA1w (major works were compelled, no monitoring was conducted)
 - Contract HK/2009/01: CMA5a (To be commenced when commencement of major works under FEP-02/364/2009 begun)
 - Contract HK/2009/02: CMA4a
 - Contract HY/2009/15: CMA3a (To be commenced when commencement of major works under FEP-06/364/209/A begun)
 - Contract HY/2009/17: CMA2a
 - Contract HY/2009/18: MA1e and MA1w
 - Contract HY/2009/19: CMA1b and CMA2a '

Remarks (Noise)

1. Cut-off date is at the 27th of each reporting month.
2. Actual monitoring will subject to change due to any safety concern or adverse weather condition.
3. Noise Monitoring Stations corresponding to active contracts are sub-divided below:
 - Contract HK/2009/01 M1a (To be commenced when commencement of major works under FEP-06/364/209/A begun)
 - Contract HK/2009/02: M1a
 - Contract HY/2009/15: M2b (Contract to be commenced in Oct 2010)
 - Contract HY/2009/17: M4b (To be commenced in Oct 2010)
 - Contract HY/2009/19: M3a, M4b, M5b, M6 (Contract to be commenced in Nov 2010)
 - Contract 04/HY/2006: M7e, M7w (major works were compelled, no monitoring was conducted)
 - Contract HY/2009/19: M3a, M4b M5b, M6
4. Day time noise will be monitored for Leq(30min) during the period between 07:00 and 19:00 for active contract(s).



Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M7e - International Finance Centre (Eastern End of Podium)

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
02/06/11	08:45	Fine	70.3	72.7	68.5	-	70	75
08/06/11	16:35	Fine	69.2	70.7	66.0	-	69	75
14/06/11	08:25	Cloudy	68.1	71.0	62.0	-	68	75
20/06/11	14:25	Sunny	68.7	72.0	64.0	-	69	75

Location: M7w - International Finance Centre (Western End of Podium)

Date	Time	Weather	Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq
Unit: dB(A), (30-min)								
02/06/11	09:22	Fine	70.3	71.7	68.1	-	70	75
08/06/11	17:15	Fine	68.9	70.7	62.3	-	69	75
14/06/11	09:04	Cloudy	69.9	73.5	64.5	-	70	75
20/06/11	13:46	Sunny	69.5	70.5	67.0	-	70	75



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)								
02/06/11	16:27	Fine	72.9	75.0	69.6	69.2	70	75
08/06/11	10:23	Fine	75.8	79.3	69.3	69.2	75	75
14/06/11	10:17	Cloudy	72.6	75.5	68.5	69.2	70	75
20/06/11	09:50	Sunny	74.0	76.0	70.0	69.2	72	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)								
02/06/11	13:00	Fine	70.3	71.0	67.3	-	70	75
08/06/11	13:00	Sunny	67.5	69.8	65.2	-	68	75
14/06/11	13:00	Cloudy	66.9	68.5	64.0	-	67	75
20/06/11	11:30	Sunny	67.7	69.5	65.0	-	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)								
02/06/11	14:40	Fine	71.2	74.0	67.5	-	71	75
08/06/11	14:00	Cloudy	74.6	76.9	70.8	-	75	75
14/06/11	13:49	Cloudy	73.8	75.0	69.5	-	74	75
20/06/11	10:47	Sunny	72.4	73.5	69.5	-	72	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)								
02/06/11	11:02	Fine	69.5	70.6	67.8	-	70	75
08/06/11	15:42	Sunny	67.1	68.0	65.9	-	67	75
14/06/11	15:28	Fine	68.5	73.5	60.5	-	69	75
20/06/11	16:50	Sunny	68.3	70.0	65.5	-	68	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)								
02/06/11	15:35	Fine	72.0	73.4	70.0	70.7	66	65
08/06/11	15:00	Sunny	72.2	74.5	69.8	70.7	67	65
14/06/11	14:45	Fine	72.4	73.5	70.5	70.7	68	65
20/06/11	16:10	Sunny	72.2	73.5	70.0	70.7	67	70

* Bolded results are limit level exceedance as the noise monitoring conducted during examination



Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)

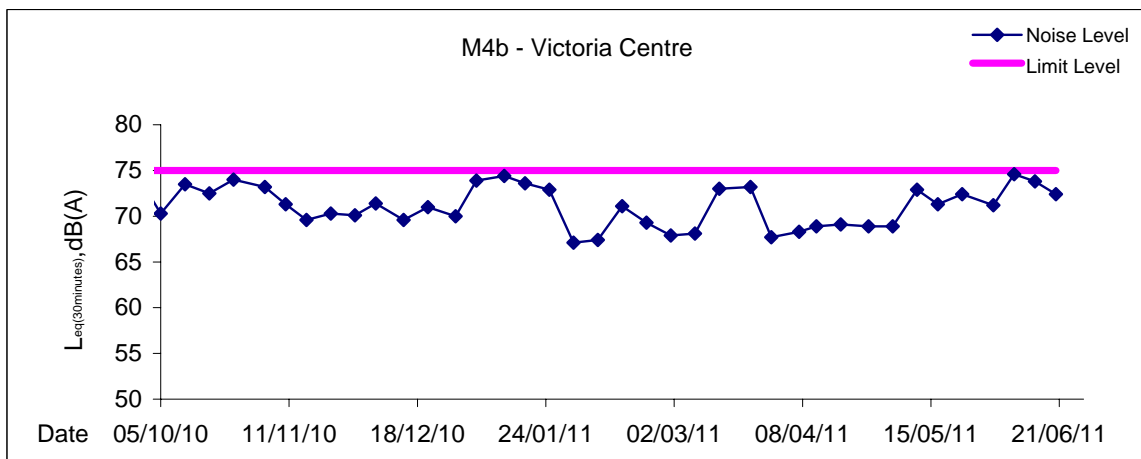
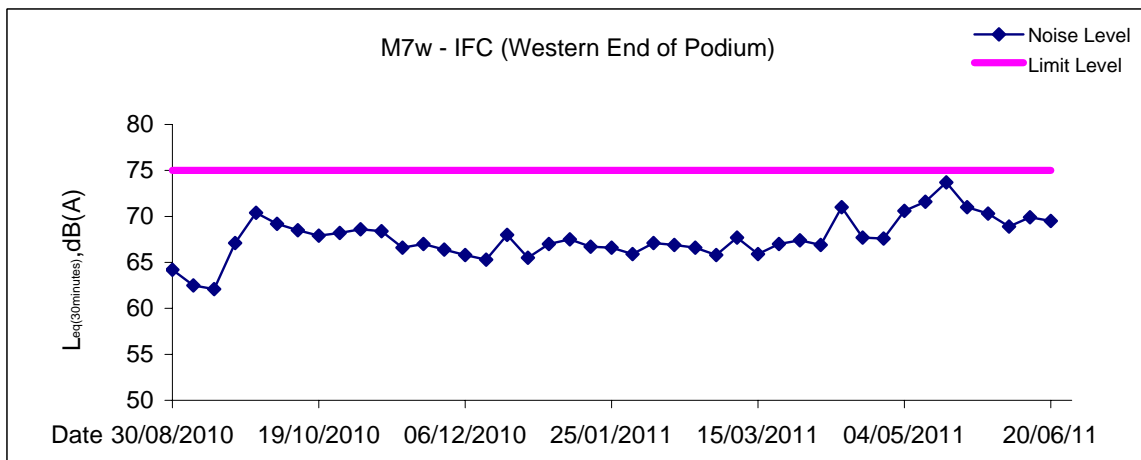
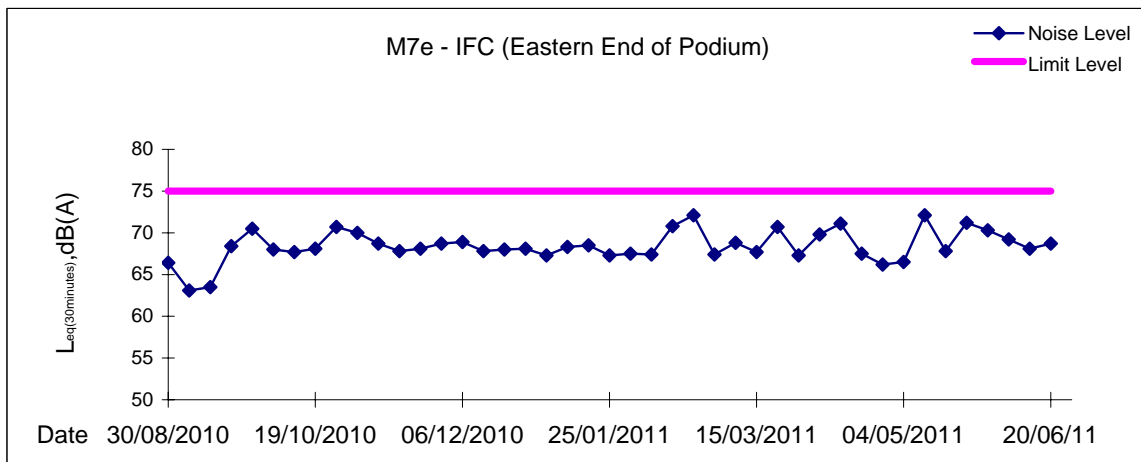
Location: M1a - Harbour Road Sports Center

Date	Time	Weather	Measurement Noise Level			Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
			Leq	L10	L90	Leq	Leq	Leq	Leq
Unit: dB(A), (5-min)									
02/06/11	19:07	Fine	71.9	74.1	67.5	72.5	61.1	72	70
	19:23		73.8	74.9	72.0				
	19:31		71.9	74.9	66.9				
08/06/11	19:33	Fine	72.8	76.0	68.0	72.2	61.1	72	70
	19:39		71.3	73.0	67.5				
	19:45		72.6	74.5	68.5				
14/06/11	19:03	Cloudy	72.4	75.0	68.0	71.5	61.1	71	70
	19:09		71.5	74.0	66.5				
	19:15		70.5	72.5	66.5				
24/06/11	22:23	Fine	73.2	75.5	72.9	71.9	61.1	71	70
	22:28		69.5	72.6	62.5				
	22:35		72.9	75.8	64.9				



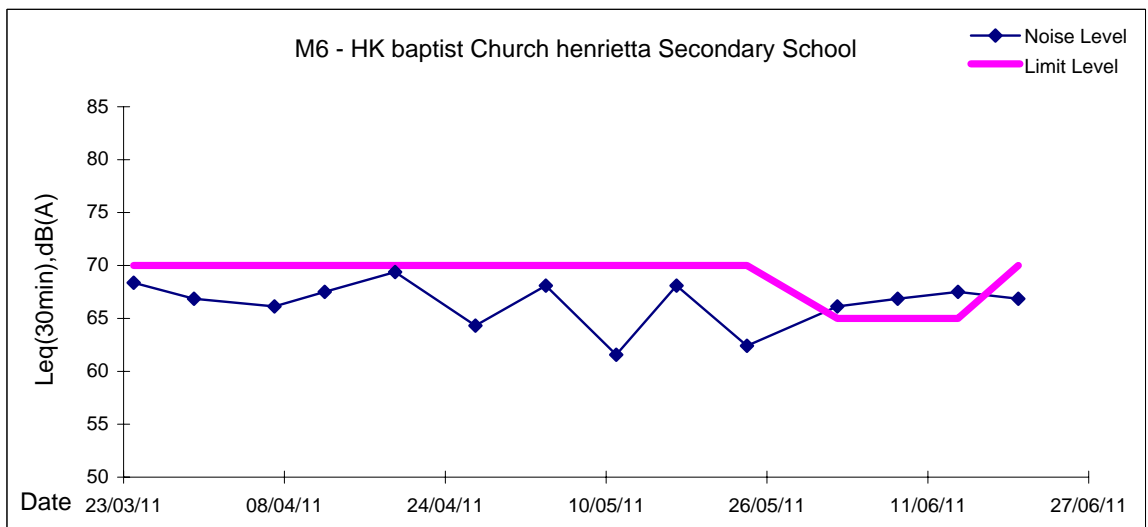
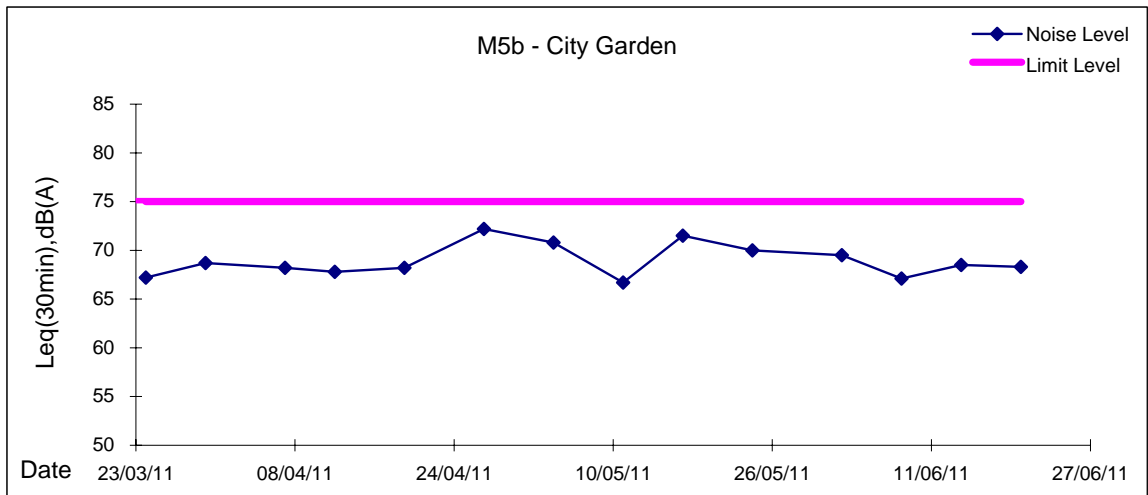
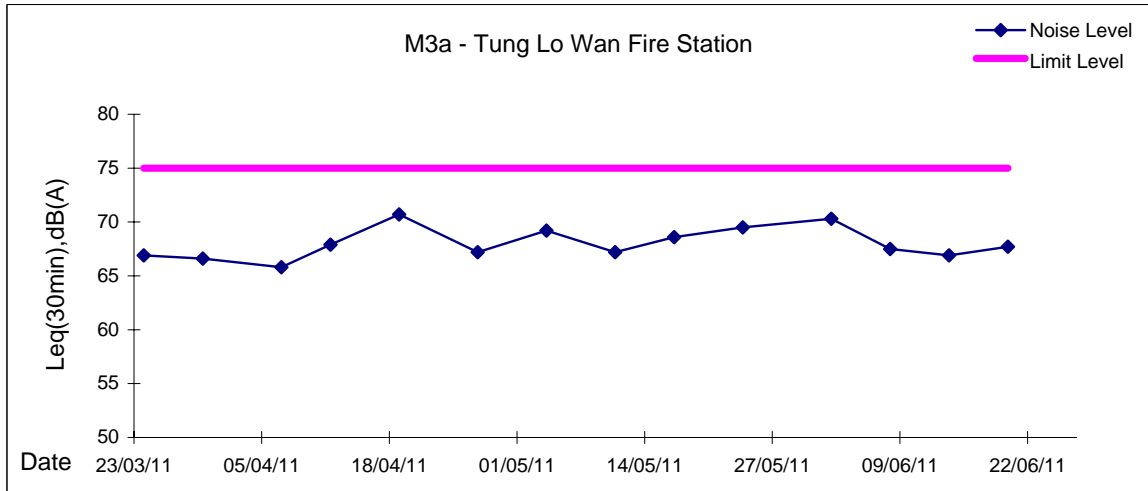
Graphic Presentation of Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)





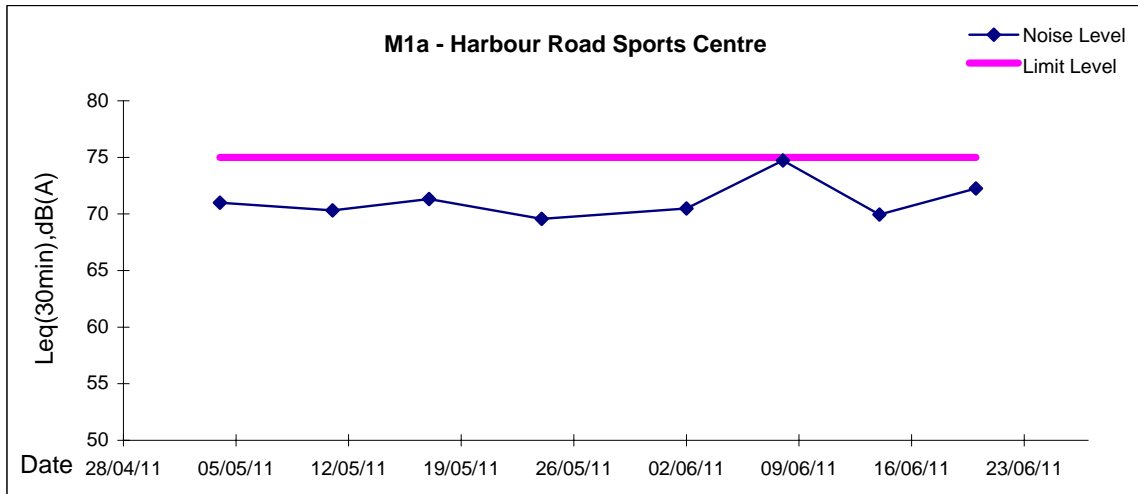
Graphic Presentation of Noise Monitoring Result
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

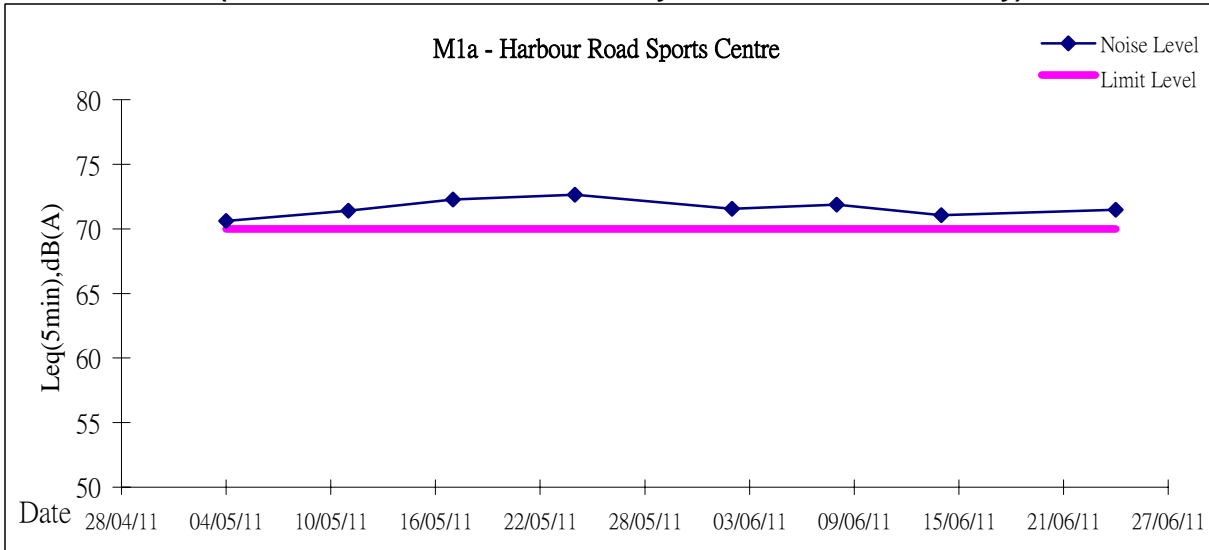
Day Time (0700 - 1900hrs on normal weekdays)





Graphic Presentation of Noise Monitoring Result

Restricted Time (1900 - 2300 hrs on normal weekdays and 0700-2300 on holiday)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: MA1w - International Finance Centre (Western Wing)

Report on 24-hour TSP monitoring
 Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
 Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-May-11	08:00	Sunny	000415	2.7476	2.8484	10068.29	10092.29	24.00	1.29	1.29	1.29	1857	54
03-Jun-11	08:00	Fine	000613	2.7812	2.8944	10095.29	10119.29	24.00	1.29	1.29	1.29	1852	61
09-Jun-11	08:00	Sunny	000545	2.7787	2.8319	10122.29	10146.29	24.00	1.28	1.28	1.28	1845	29
15-Jun-11	08:00	Fine	000663	2.8177	2.8640	10149.29	10173.29	24.00	1.30	1.30	1.30	1872	25
22-Jun-11	08:00	Fine	000464	2.7353	2.8054	10176.29	10200.29	24.00	1.23	1.23	1.23	1770	40
27-Jun-11	08:00	Cloudy	000750	2.8093	2.9084	10203.28	10227.28	24.00	1.28	1.28	1.28	1846	54

Report on 1-hour TSP monitoring
 Action Level ($\mu\text{g}/\text{m}^3$) - 325.1
 Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-May-11	09:33	Sunny	000462	2.7667	2.7811	10092.29	10093.29	1.00	1.19	1.19	1.19	71	202
31-May-11	13:00	Sunny	000456	2.7700	2.7854	10093.29	10094.29	1.00	1.19	1.19	1.19	71	216
31-May-11	14:55	Sunny	000454	2.7583	2.7724	10094.29	10095.29	1.00	1.19	1.19	1.19	71	198
04-Jun-11	08:34	Sunny	000537	2.8060	2.8138	10119.29	10120.29	1.00	1.18	1.18	1.18	71	110
04-Jun-11	09:43	Sunny	000539	2.7855	2.7916	10120.29	10121.29	1.00	1.18	1.18	1.18	71	86
04-Jun-11	11:00	Sunny	000542	2.7968	2.8043	10121.29	10122.29	1.00	1.18	1.18	1.18	71	106
10-Jun-11	08:25	Sunny	000549	2.8052	2.8135	10146.29	10147.29	1.00	1.18	1.18	1.18	71	117
10-Jun-11	09:38	Sunny	000669	2.8077	2.8132	10147.29	10148.29	1.00	1.18	1.18	1.18	71	78
10-Jun-11	10:50	Sunny	000667	2.8018	2.8072	10148.29	10149.29	1.00	1.18	1.18	1.18	71	76
16-Jun-11	10:00	Fine	000525	2.7744	2.7834	10173.29	10174.29	1.00	1.20	1.20	1.20	72	125
16-Jun-11	11:00	Fine	000527	2.8028	2.8093	10174.29	10175.29	1.00	1.20	1.20	1.20	72	91
16-Jun-11	13:56	Fine	000428	2.7418	2.7460	10175.29	10176.29	1.00	1.20	1.20	1.20	72	59
23-Jun-11	10:00	Cloudy	000571	2.7838	2.7955	10200.29	10201.29	1.00	1.18	1.18	1.18	71	165
23-Jun-11	11:00	Cloudy	000582	2.7938	2.8017	10201.29	10202.29	1.00	1.18	1.18	1.18	71	111
23-Jun-11	13:00	Cloudy	000610	2.7646	2.7715	10202.29	10203.29	1.00	1.18	1.18	1.18	71	97

Due to lack of electricity supply on 21 June 2011. 1-hr and 24-hr TSP monitoring were rescheduled on 22 and 23 June 2011.



Location: MA1e - International Finance Centre (Eastern Wing)

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 173.4
 Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-May-11	08:00	Sunny	000416	2.7609	2.9062	6894.61	6918.61	24.00	1.35	1.35	1.35	1942	75
03-Jun-11	08:00	Fine	000614	2.7912	2.9180	6921.61	6945.61	24.00	1.35	1.35	1.35	1937	65
09-Jun-11	08:00	Sunny	000544	2.7937	2.8477	6948.61	6972.61	24.00	1.34	1.34	1.34	1929	28
15-Jun-11	08:00	Fine	000664	2.8367	2.8911	6975.61	6999.61	24.00	1.38	1.36	1.37	1974	28
21-Jun-11	08:00	Cloudy	000654	2.8274	2.9015	7002.61	7026.61	24.00	1.34	1.37	1.35	1947	38
27-Jun-11	08:00	Cloudy	000750	2.8093	2.9084	7029.60	7053.60	24.00	1.34	1.37	1.35	1947	51

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 325.1
 Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-May-11	09:25	Sunny	000461	2.7629	2.7786	6918.61	6919.61	1.00	1.35	1.35	1.35	81	194
31-May-11	13:00	Sunny	000455	2.7812	2.7970	6919.61	6920.61	1.00	1.35	1.35	1.35	81	195
31-May-11	15:05	Sunny	000453	2.7736	2.7880	6920.61	6921.61	1.00	1.35	1.35	1.35	81	178
04-Jun-11	08:26	Sunny	000536	2.7832	2.7889	6945.61	6946.61	1.00	1.35	1.35	1.35	81	71
04-Jun-11	09:35	Sunny	000538	2.7895	2.7965	6946.61	6947.61	1.00	1.35	1.35	1.35	81	87
04-Jun-11	11:00	Sunny	000543	2.7928	2.7989	6947.61	6948.61	1.00	1.35	1.35	1.35	81	76
10-Jun-11	08:15	Sunny	000548	2.8074	2.8179	6972.61	6973.61	1.00	1.34	1.34	1.34	80	131
10-Jun-11	09:32	Sunny	000670	2.8057	2.8126	6973.61	6974.61	1.00	1.34	1.34	1.34	80	86
10-Jun-11	10:40	Sunny	000668	2.8266	2.8329	6974.61	6975.61	1.00	1.34	1.34	1.34	80	78
16-Jun-11	09:00	Fine	000524	2.7941	2.8016	6999.61	7000.61	1.00	1.17	1.17	1.17	70	107
16-Jun-11	10:00	Fine	000526	2.8151	2.8209	7000.61	7001.61	1.00	1.36	1.36	1.36	81	71
16-Jun-11	13:50	Fine	000255	2.7214	2.7257	7001.61	7002.61	1.00	1.36	1.36	1.36	81	53
22-Jun-11	08:25	Cloudy	000584	2.7695	2.7741	7026.61	7027.61	1.00	1.30	1.30	1.30	78	59
22-Jun-11	09:30	Cloudy	000587	2.7806	2.7868	7027.61	7028.61	1.00	1.34	1.34	1.34	81	77
22-Jun-11	10:40	Cloudy	000583	2.7894	2.7934	7028.61	7029.61	1.00	1.34	1.34	1.34	81	50



Location: CMA1b - Oil St Community Liaison Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 176.7

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{di}	Final, Q_{df}	Average		
30-May-11	08:00	Sunny	000575	2.7908	2.9548	9347.63	9371.63	24.00	1.21	1.21	1.21	1745	94
03-Jun-11	08:00	Fine	000487	2.7850	2.9701	9374.63	9398.63	24.00	1.19	1.19	1.19	1707	108
09-Jun-11	08:00	Sunny	000515	2.7713	2.8694	9401.63	9425.63	24.00	1.18	1.18	1.18	1701	58
15-Jun-11	08:00	Fine	000603	2.7542	2.8704	9428.63	9452.63	24.00	1.20	1.20	1.20	1725	67
21-Jun-11	08:00	Cloudy	000421	2.7724	2.8879	9455.63	9479.63	24.00	1.20	1.21	1.20	1735	67
27-Jun-11	08:00	Fine	000729	2.7905	2.9272	9482.73	9506.73	24.00	1.16	1.16	1.16	1670	82

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 320.1

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{di}	Final, Q_{df}	Average		
31-May-11	09:00	Sunny	000481	2.8135	2.8263	9371.63	9372.63	1.00	1.21	1.21	1.21	73	176
31-May-11	10:00	Sunny	000485	2.7786	2.7968	9372.63	9373.63	1.00	1.21	1.21	1.21	73	250
31-May-11	13:00	Sunny	000504	2.8156	2.8284	9373.63	9374.63	1.00	1.21	1.21	1.21	73	176
04-Jun-11	08:25	Sunny	000679	2.8066	2.8130	9398.63	9399.63	1.00	1.21	1.21	1.21	73	88
04-Jun-11	09:32	Sunny	000677	2.8145	2.8215	9399.63	9400.63	1.00	1.21	1.21	1.21	73	97
04-Jun-11	10:40	Sunny	000675	2.8033	2.8132	9400.63	9401.63	1.00	1.21	1.21	1.21	73	136
10-Jun-11	09:00	Sunny	000608	2.7618	2.7657	9425.63	9426.63	1.00	1.20	1.20	1.20	72	54
10-Jun-11	10:00	Sunny	000605	2.7794	2.7842	9426.63	9427.63	1.00	1.20	1.20	1.20	72	66
10-Jun-11	11:00	Sunny	000606	2.7722	2.7773	9427.63	9428.63	1.00	1.20	1.20	1.20	72	71
16-Jun-11	08:30	Fine	000637	2.7646	2.7734	9452.63	9453.63	1.00	1.20	1.20	1.20	72	123
16-Jun-11	09:55	Fine	000516	2.7912	2.7975	9453.63	9454.63	1.00	1.22	1.20	1.21	73	87
16-Jun-11	13:00	Fine	000517	2.7829	2.7892	9454.63	9455.63	1.00	1.22	1.20	1.21	73	87
22-Jun-11	08:55	Cloudy	000723	2.8110	2.8238	9479.63	9480.63	1.00	1.21	1.18	1.20	72	179
22-Jun-11	10:00	Cloudy	000727	2.8067	2.8119	9480.63	9481.63	1.00	1.21	1.16	1.18	71	73
22-Jun-11	13:00	Cloudy	000731	2.7984	2.8071	9481.63	9482.63	1.00	1.18	1.16	1.17	70	124

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 169.5

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-May-11	08:00	Sunny	000474	2.7821	2.9493	13825.89	13849.89	24.00	1.51	1.51	1.51	2180	77
03-Jun-11	08:00	Fine	000506	2.8018	2.9383	13852.89	13876.89	24.00	1.49	1.49	1.49	2141	64
09-Jun-11	08:00	Sunny	000674	2.8172	2.8741	13879.89	13903.89	24.00	1.48	1.48	1.48	2134	27
15-Jun-11	08:00	Fine	000604	2.7766	2.8340	13906.89	13930.89	24.00	1.52	1.52	1.52	2194	26
21-Jun-11	08:00	Cloudy	000519	2.7845	2.8664	13933.89	13957.89	24.00	1.46	1.46	1.46	2101	39
27-Jun-11	08:00	Fine	000788	2.8191	2.8789	13960.90	13984.90	24.00	1.46	1.46	1.46	2098	29

Report on 1-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 323.4

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-May-11	09:15	Sunny	000482	2.7859	2.7982	13849.89	13850.89	1.00	1.51	1.51	1.51	91	135
31-May-11	10:25	Sunny	000458	2.7702	2.7863	13850.89	13851.89	1.00	1.51	1.51	1.51	91	177
31-May-11	13:00	Sunny	000514	2.7867	2.8016	13851.89	13852.89	1.00	1.51	1.51	1.51	91	164
04-Jun-11	08:35	Fine	000680	2.8097	2.8172	13876.89	13877.89	1.00	1.51	1.51	1.51	91	83
04-Jun-11	09:40	Fine	000678	2.7781	2.7837	13877.89	13878.89	1.00	1.51	1.51	1.51	91	62
04-Jun-11	11:00	Fine	000676	2.8096	2.8148	13878.89	13879.89	1.00	1.51	1.51	1.51	91	57
10-Jun-11	09:10	Fine	000607	2.7735	2.7775	13903.89	13904.89	1.00	1.51	1.51	1.51	90	44
10-Jun-11	10:10	Fine	000596	2.7907	2.7958	13904.89	13905.89	1.00	1.51	1.51	1.51	90	56
10-Jun-11	13:00	Fine	000595	2.7695	2.7731	13905.89	13906.89	1.00	1.51	1.51	1.51	90	40
16-Jun-11	08:20	Fine	000588	2.7629	2.7678	13930.89	13931.89	1.00	1.28	1.28	1.28	77	64
16-Jun-11	09:45	Fine	000554	2.7742	2.7817	13931.89	13932.89	1.00	1.47	1.50	1.49	89	84
16-Jun-11	13:00	Fine	000673	2.8170	2.8219	13932.89	13933.89	1.00	1.38	1.43	1.40	84	58
22-Jun-11	09:15	Cloudy	000725	2.7976	2.8029	13957.89	13958.89	1.00	1.56	1.56	1.56	93	57
22-Jun-11	11:00	Cloudy	000730	2.7883	2.7939	13958.89	13959.89	1.00	1.46	1.48	1.47	88	63
22-Jun-11	13:00	Cloudy	000724	2.8258	2.8309	13959.89	13960.89	1.00	1.46	1.48	1.47	88	58



Location: CMA4a - SPCA

Report on 24-hour TSP monitoring

Action Level ($\mu\text{g}/\text{m}^3$) - 171.2

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
30-May-11	08:00	Sunny	000417	2.7520	2.8889	13213.52	13237.52	24.00	1.15	1.15	1.15	1651	83
03-Jun-11	08:00	Fine	000612	2.7785	2.8989	13240.52	13264.52	24.00	1.09	1.09	1.09	1574	77
09-Jun-11	08:00	Sunny	000546	2.7989	2.8493	13267.52	13291.52	24.00	1.09	1.09	1.09	1567	32
15-Jun-11	08:00	Fine	000662	2.7876	2.8737	13294.52	13318.52	24.00	1.10	1.10	1.10	1590	54
21-Jun-11	08:00	Cloudy	000652	2.8151	2.8813	13321.52	13345.52	24.00	1.09	1.09	1.09	1569	42
27-Jun-11	08:00	Cloudy	000713	2.7740	2.8933	13348.50	13372.50	24.00	1.09	1.09	1.09	1569	76

Report on 1-hour TSP monitoring

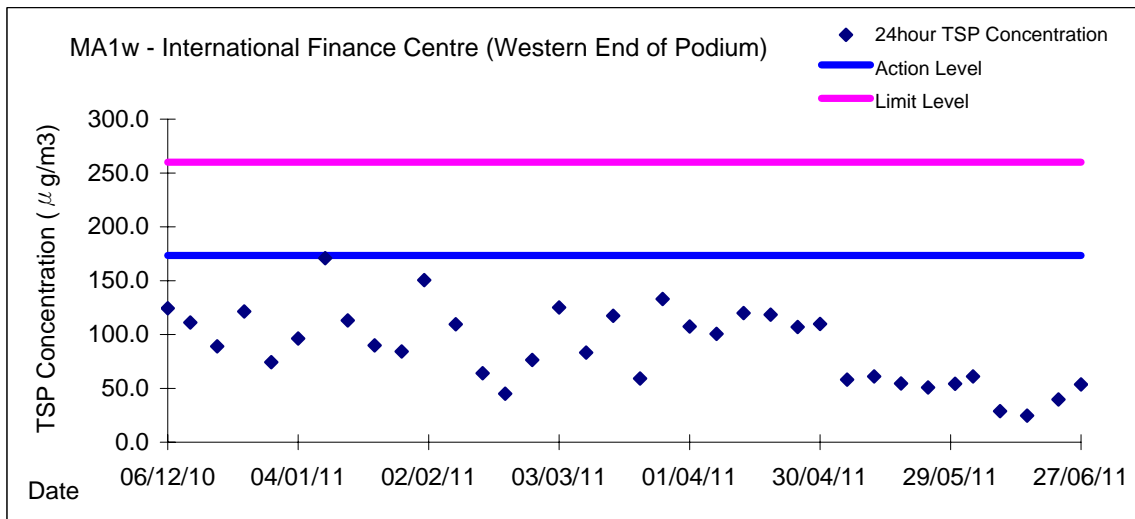
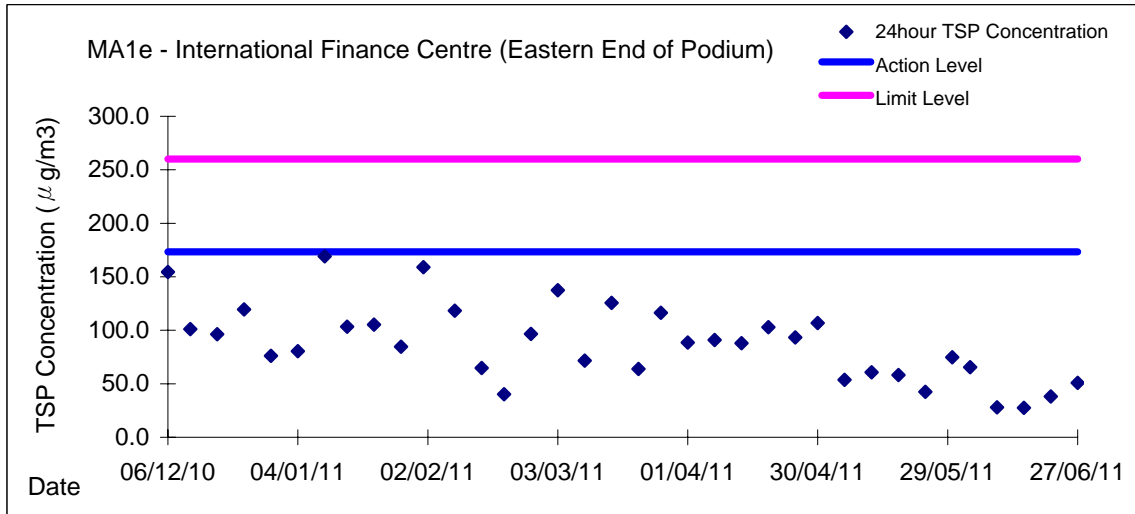
Action Level ($\mu\text{g}/\text{m}^3$) - 312.5

Limit Level ($\mu\text{g}/\text{m}^3$) - 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, $\mu\text{g}/\text{m}^3$
				Initial	Final	Initial	Final		Initial, Q_{si}	Final, Q_{sf}	Average		
31-May-11	08:35	Sunny	000479	2.8146	2.8227	13237.52	13238.52	1.00	1.15	1.15	1.15	69	118
31-May-11	09:50	Sunny	000480	2.8138	2.8255	13238.52	13239.52	1.00	1.15	1.15	1.15	69	170
31-May-11	11:00	Sunny	000457	2.7733	2.7866	13239.52	13240.52	1.00	1.15	1.15	1.15	69	193
04-Jun-11	09:15	Sunny	000484	2.7992	2.8080	13264.52	13265.52	1.00	1.09	1.09	1.09	66	134
04-Jun-11	10:20	Sunny	000540	2.7856	2.7926	13265.52	13266.52	1.00	1.09	1.09	1.09	66	107
04-Jun-11	13:00	Sunny	000622	2.7930	2.7974	13266.52	13267.52	1.00	1.09	1.09	1.09	66	67
10-Jun-11	08:55	Sunny	000628	2.7864	2.7905	13291.52	13292.52	1.00	1.09	1.09	1.09	65	63
10-Jun-11	10:05	Sunny	000632	2.7847	2.7919	13292.52	13293.52	1.00	1.09	1.09	1.09	65	110
10-Jun-11	13:00	Sunny	000666	2.8133	2.8170	13293.52	13294.52	1.00	1.09	1.09	1.09	65	57
16-Jun-11	09:12	Fine	000659	2.8120	2.8184	13318.52	13319.52	1.00	1.26	1.26	1.26	75	85
16-Jun-11	13:00	Fine	000657	2.8169	2.8229	13319.52	13320.52	1.00	1.26	1.26	1.26	75	80
16-Jun-11	14:38	Fine	000656	2.7863	2.7888	13320.52	13321.52	1.00	1.26	1.26	1.26	75	33
22-Jun-11	10:20	Cloudy	000717	2.7887	2.7925	13345.52	13346.52	1.00	1.14	1.12	1.13	68	56
22-Jun-11	13:00	Cloudy	000709	2.7654	2.7700	13346.52	13347.52	1.00	1.09	1.09	1.09	65	70
22-Jun-11	14:28	Cloudy	000716	2.7572	2.7615	13347.52	13348.52	1.00	1.04	1.04	1.04	62	69

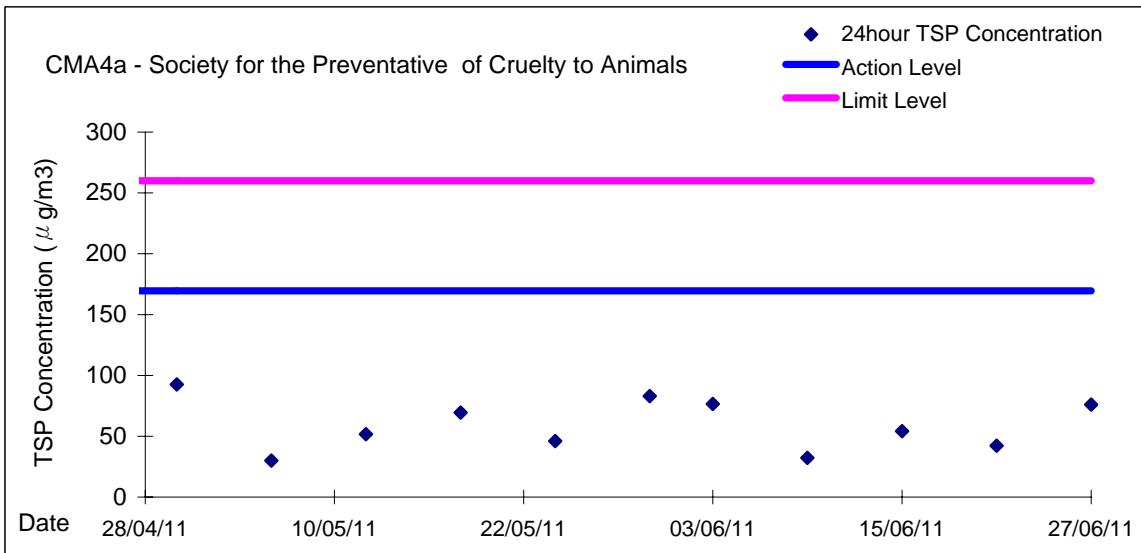
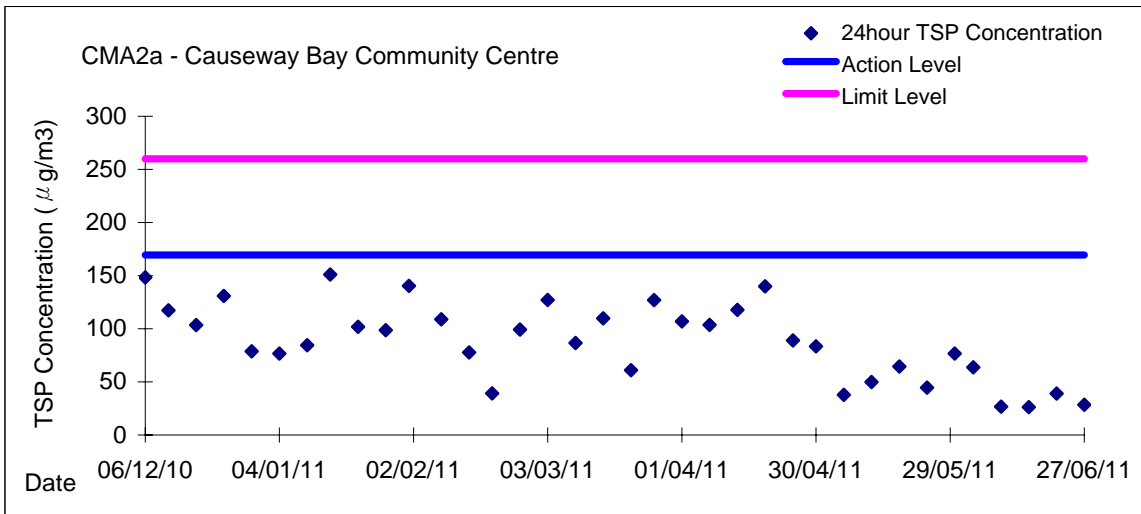
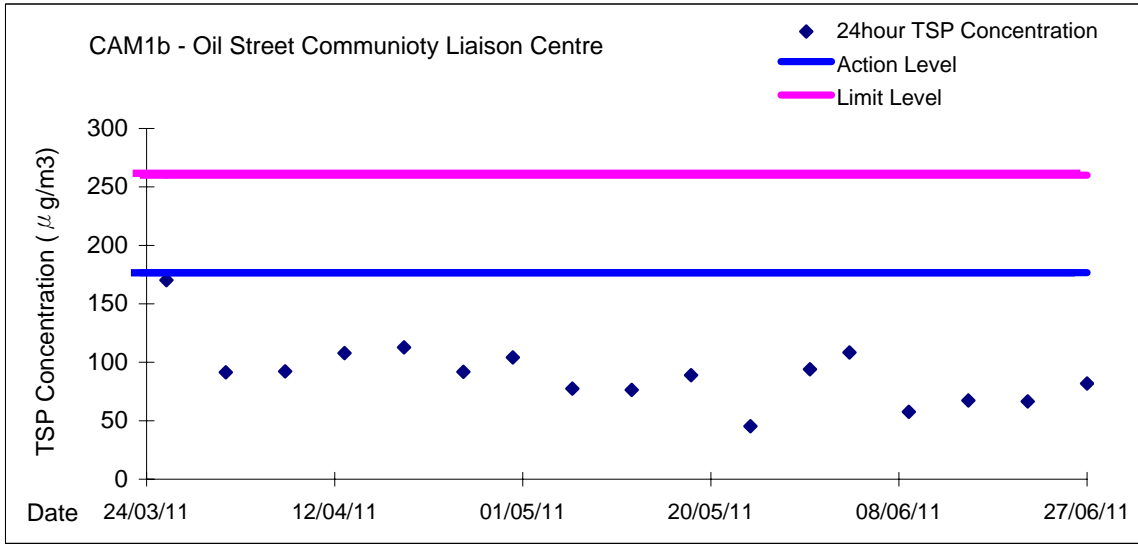


Graphic Presentation of 24 hour TSP Result



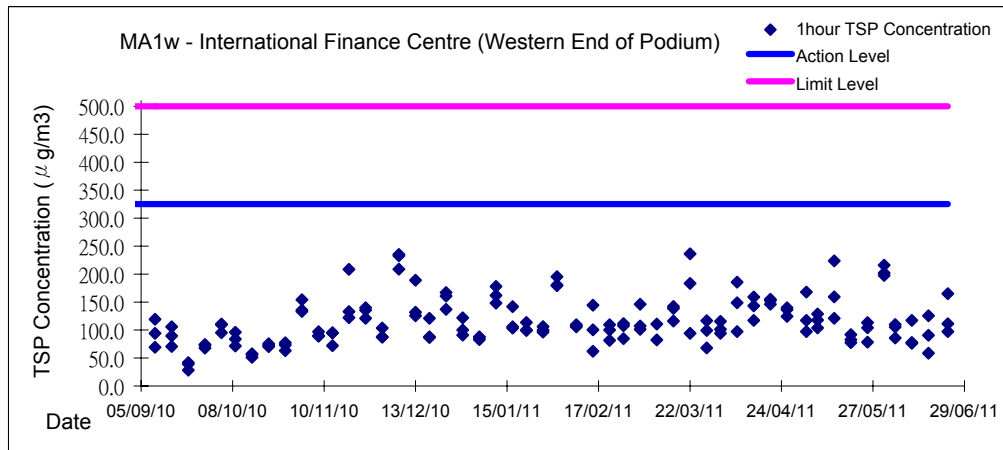
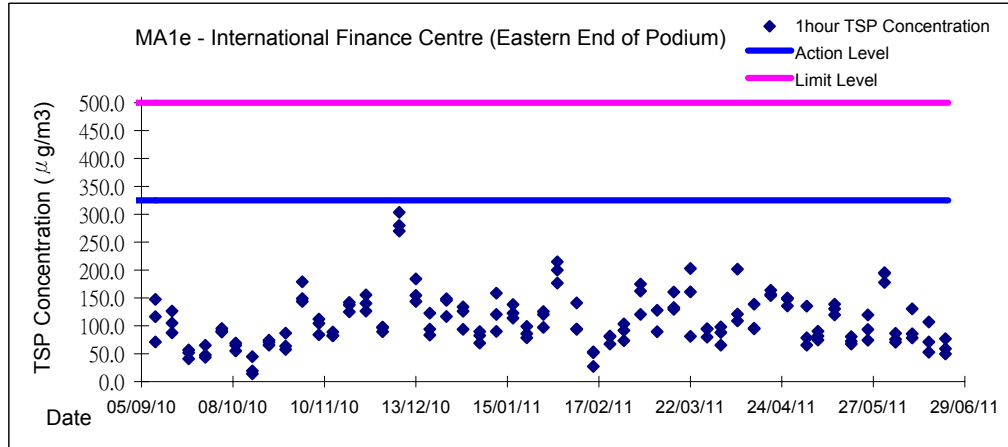


Graphic Presentation of 24 hour TSP Result



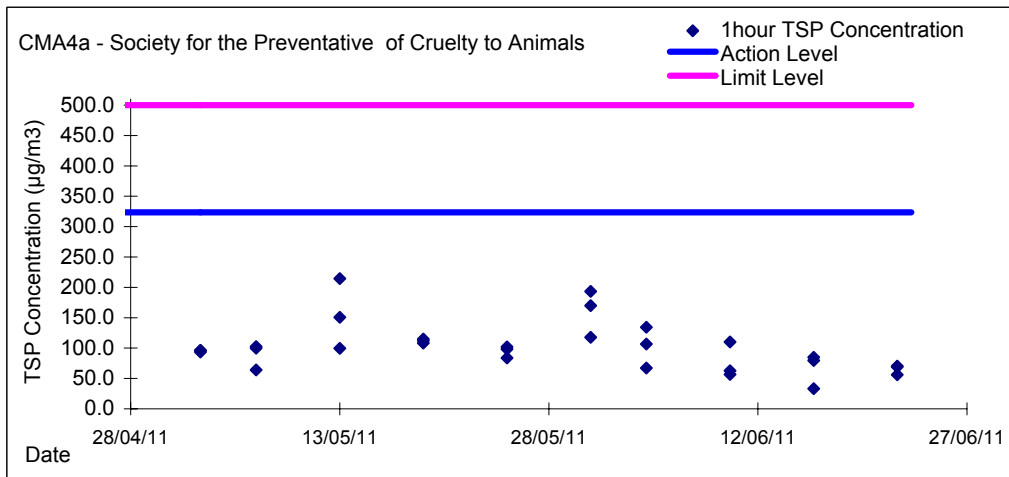
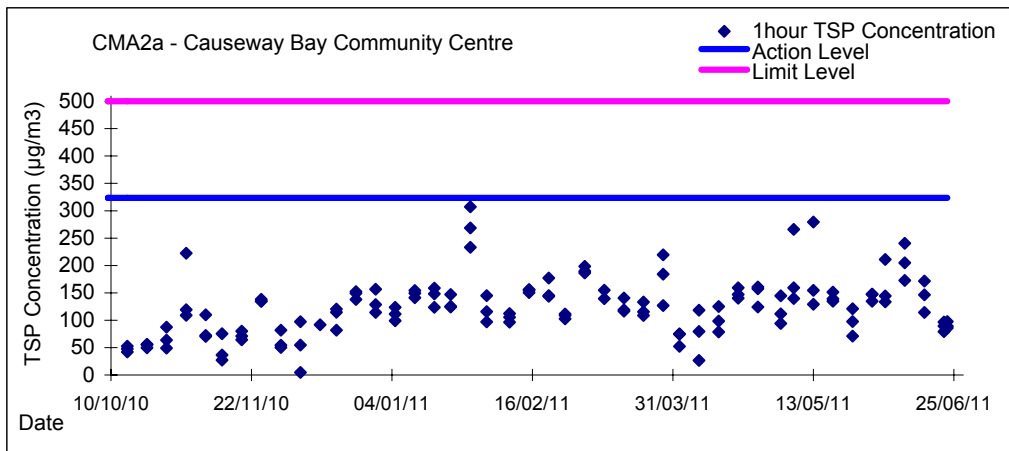
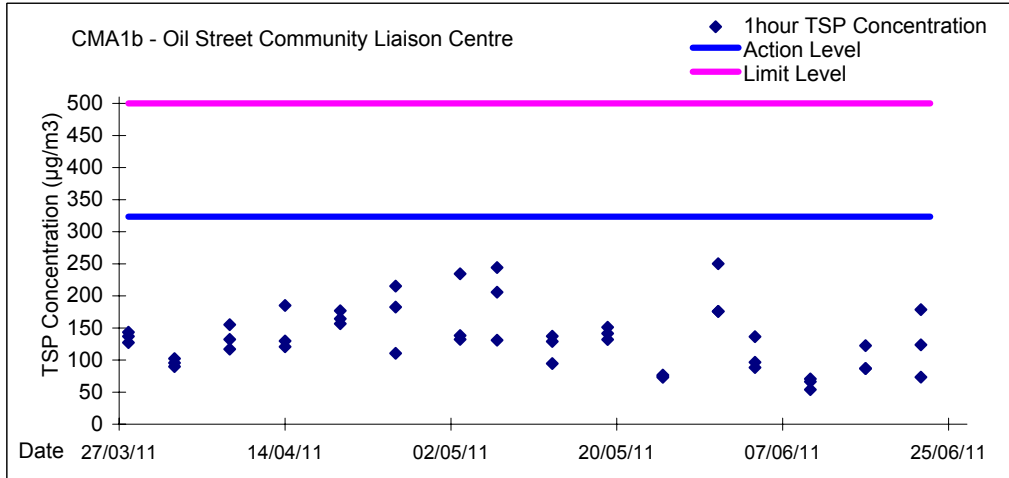


Graphic Presentation of 1 hour TSP Result





Graphic Presentation of 1 hour TSP Result





Appendix 5.4
Real Time Noise Monitoring Results and Graphical Presentations

Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

Normal Day 07:00-19:00

28/05/2011 07:02 64.6
28/05/2011 07:32 65.4
28/05/2011 08:02 67.6
28/05/2011 08:32 67.8
28/05/2011 09:02 66.8
28/05/2011 09:32 65.9
28/05/2011 10:02 65.8
28/05/2011 10:32 65.8
28/05/2011 11:02 66.7
28/05/2011 11:32 65.2
28/05/2011 12:02 64.7
28/05/2011 12:32 64.6
28/05/2011 13:02 66.9
28/05/2011 13:32 65.8
28/05/2011 14:02 66.3
28/05/2011 14:32 65.8
28/05/2011 15:02 65.7
28/05/2011 15:32 64.7
28/05/2011 16:02 65.9
28/05/2011 16:32 65.3
28/05/2011 17:02 65.0
28/05/2011 17:32 65.7
28/05/2011 18:02 65.3
28/05/2011 18:32 63.7
30/05/2011 07:02 65.0
30/05/2011 07:32 66.1
30/05/2011 08:02 64.9
30/05/2011 08:32 65.6
30/05/2011 09:02 66.1
30/05/2011 09:32 68.3
30/05/2011 10:02 67.1
30/05/2011 10:32 66.5
30/05/2011 11:02 65.3
30/05/2011 11:32 65.6
30/05/2011 12:02 66.1
30/05/2011 12:32 65.6
30/05/2011 13:02 66.8
30/05/2011 13:32 67.2
30/05/2011 14:02 66.1
30/05/2011 14:32 65.5
30/05/2011 15:02 66.4
30/05/2011 15:32 66.0
30/05/2011 16:02 65.8
30/05/2011 16:32 67.3
30/05/2011 17:02 66.9
30/05/2011 17:32 67.3
30/05/2011 18:02 67.5
30/05/2011 18:32 66.6
31/05/2011 07:02 64.1
31/05/2011 07:32 65.1
31/05/2011 08:02 63.7
31/05/2011 08:32 69.3
31/05/2011 09:02 70.0
31/05/2011 09:32 70.8
31/05/2011 10:02 69.4
31/05/2011 10:32 69.7
31/05/2011 11:02 69.3
31/05/2011 11:32 65.1
31/05/2011 12:02 63.2
31/05/2011 12:32 62.4
31/05/2011 13:02 65.5
31/05/2011 13:32 68.6
31/05/2011 14:02 69.2
31/05/2011 14:32 67.8
31/05/2011 15:02 70.2
31/05/2011 15:32 70.2
31/05/2011 16:02 65.3
31/05/2011 16:32 66.7
31/05/2011 17:02 63.8
31/05/2011 17:32 64.4
31/05/2011 18:02 63.4
31/05/2011 18:32 63.8
01/06/2011 07:02 64.8
01/06/2011 07:32 64.2
01/06/2011 08:02 65.0
01/06/2011 08:32 65.3
01/06/2011 09:02 66.8
01/06/2011 09:32 66.7
01/06/2011 10:02 67.3
01/06/2011 10:32 67.9
01/06/2011 11:02 69.7
01/06/2011 11:32 67.3
01/06/2011 12:02 65.4
01/06/2011 12:32 64.7
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01/06/2011 13:32 66.1
01/06/2011 14:02 65.5
01/06/2011 14:32 65.5
01/06/2011 15:02 66.0
01/06/2011 15:32 65.2
01/06/2011 16:02 65.9
01/06/2011 16:32 67.3
01/06/2011 17:02 66.6
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01/06/2011 18:02 65.5
01/06/2011 18:32 64.8
02/06/2011 07:02 64.1
02/06/2011 07:32 64.7
02/06/2011 08:02 64.1
02/06/2011 08:32 68.3
02/06/2011 09:02 70.3
02/06/2011 09:32 70.6
02/06/2011 10:02 69.6
02/06/2011 10:32 69.1
02/06/2011 11:02 69.2
02/06/2011 11:32 66.8
02/06/2011 12:02 62.4
02/06/2011 12:32 63.2
02/06/2011 13:02 65.2

02/06/2011 13:32 68.2
02/06/2011 14:02 69.6
02/06/2011 14:32 68.1
02/06/2011 15:02 70.1
02/06/2011 15:32 70.9
02/06/2011 16:02 67.1
02/06/2011 16:32 67.2
02/06/2011 17:02 64.2
02/06/2011 17:32 63.7
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02/06/2011 18:32 63.7
03/06/2011 07:02 64.5
03/06/2011 07:32 65.0
03/06/2011 08:02 63.9
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03/06/2011 09:32 70.7
03/06/2011 10:02 69.0
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03/06/2011 11:02 69.2
03/06/2011 11:32 66.0
03/06/2011 12:02 63.5
03/06/2011 12:32 62.7
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03/06/2011 14:32 71.1
03/06/2011 15:02 67.4
03/06/2011 15:32 63.8
03/06/2011 16:02 65.4
03/06/2011 16:32 67.0
03/06/2011 17:02 70.2
03/06/2011 17:32 65.8
04/06/2011 07:02 59.3
04/06/2011 07:32 59.2
04/06/2011 08:02 67.8
04/06/2011 08:32 70.7
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04/06/2011 09:32 63.9
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04/06/2011 12:02 64.2
04/06/2011 12:32 64.3
04/06/2011 13:02 70.2
04/06/2011 13:32 69.6
04/06/2011 14:02 71.0
04/06/2011 14:32 71.8
04/06/2011 15:02 69.4
04/06/2011 15:32 65.9
04/06/2011 16:02 69.1
04/06/2011 16:32 72.7
04/06/2011 17:02 71.8
04/06/2011 17:32 73.3
04/06/2011 18:02 64.9
04/06/2011 18:32 64.6
07/06/2011 07:02 64.5
07/06/2011 07:32 65.2
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07/06/2011 10:02 65.3
07/06/2011 10:32 63.9
07/06/2011 11:02 66.4
07/06/2011 11:32 66.5
07/06/2011 12:02 67.7
07/06/2011 12:32 67.0
07/06/2011 13:02 66.6
07/06/2011 13:32 66.2
07/06/2011 14:02 69.7
07/06/2011 14:32 71.5
07/06/2011 15:02 65.7
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07/06/2011 16:32 55.6
07/06/2011 17:02 72.2
07/06/2011 17:32 72.5
07/06/2011 18:02 70.3
07/06/2011 18:32 68.5
08/06/2011 07:02 58.5
08/06/2011 07:32 59.4
08/06/2011 08:02 60.0
08/06/2011 08:32 61.6
08/06/2011 09:02 63.5
08/06/2011 09:32 64.4
08/06/2011 10:02 64.6
08/06/2011 10:32 64.6
08/06/2011 11:02 67.9
08/06/2011 11:32 67.9
08/06/2011 12:02 68.2
08/06/2011 12:32 70.4
08/06/2011 13:02 69.2
08/06/2011 13:32 68.2
08/06/2011 14:02 67.0
08/06/2011 14:32 72.4
08/06/2011 15:02 64.9
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08/06/2011 18:32 64.0
09/06/2011 07:02 62.8
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09/06/2011 10:32 67.0
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11/06/2011 17:02 69.3
11/06/2011 17:32 66.4
11/06/2011 18:02 64.0
11/06/2011 18:32 64.6
13/06/2011 07:02 64.7
13/06/2011 08:02 65.8
13/06/2011 08:32 68.4
13/06/2011 09:02 68.4
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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29/05/2011 13:32 64.6	29/05/2011 22:42 62.9	01/06/2011 19:52 64.0	03/06/2011 21:02 64.5	05/06/2011 10:12 63.9	05/06/2011 19:22 64.3
29/05/2011 13:37 64.1	29/05/2011 22:47 63.4	01/06/2011 19:57 64.4	03/06/2011 21:07 64.4	05/06/2011 10:17 64.5	05/06/2011 19:27 63.6
29/05/2011 13:42 63.6	29/05/2011 22:52 63.0	01/06/2011 20:02 64.6	03/06/2011 21:12 64.3	05/06/2011 10:22 64.6	05/06/2011 19:32 63.7
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29/05/2011 13:52 64.0	30/05/2011 19:02 65.1	01/06/2011 20:12 63.3	03/06/2011 21:22 64.4	05/06/2011 10:32 63.9	05/06/2011 19:42 63.9
29/05/2011 13:57 63.8	30/05/2011 19:07 65.5	01/06/2011 20:17 64.0	03/06/2011 21:27 64.2	05/06/2011 10:37 63.4	05/06/2011 19:47 64.0
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

05/06/2011 22:42 63.4	06/06/2011 15:52 63.5	07/06/2011 21:02 64.5	09/06/2011 22:12 61.9	12/06/2011 07:22 63.1	12/06/2011 16:32 62.8
05/06/2011 22:47 63.1	06/06/2011 15:57 64.2	07/06/2011 21:07 64.3	09/06/2011 22:17 61.7	12/06/2011 07:27 63.1	12/06/2011 16:37 64.3
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06/06/2011 11:27 64.3	06/06/2011 20:37 63.2	08/06/2011 21:47 63.6	10/06/2011 22:57 61.9	12/06/2011 12:07 68.0	12/06/2011 21:17 63.9
06/06/2011 11:32 65.1	06/06/2011 20:42 63.2	08/06/2011 21:52 63.9	11/06/2011 19:02 64.1	12/06/2011 12:12 67.3	12/06/2011 21:22 63.7
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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

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Real-time Noise Data RTN1 / FEHD Hong Kong Transport Section Whitefield Depot

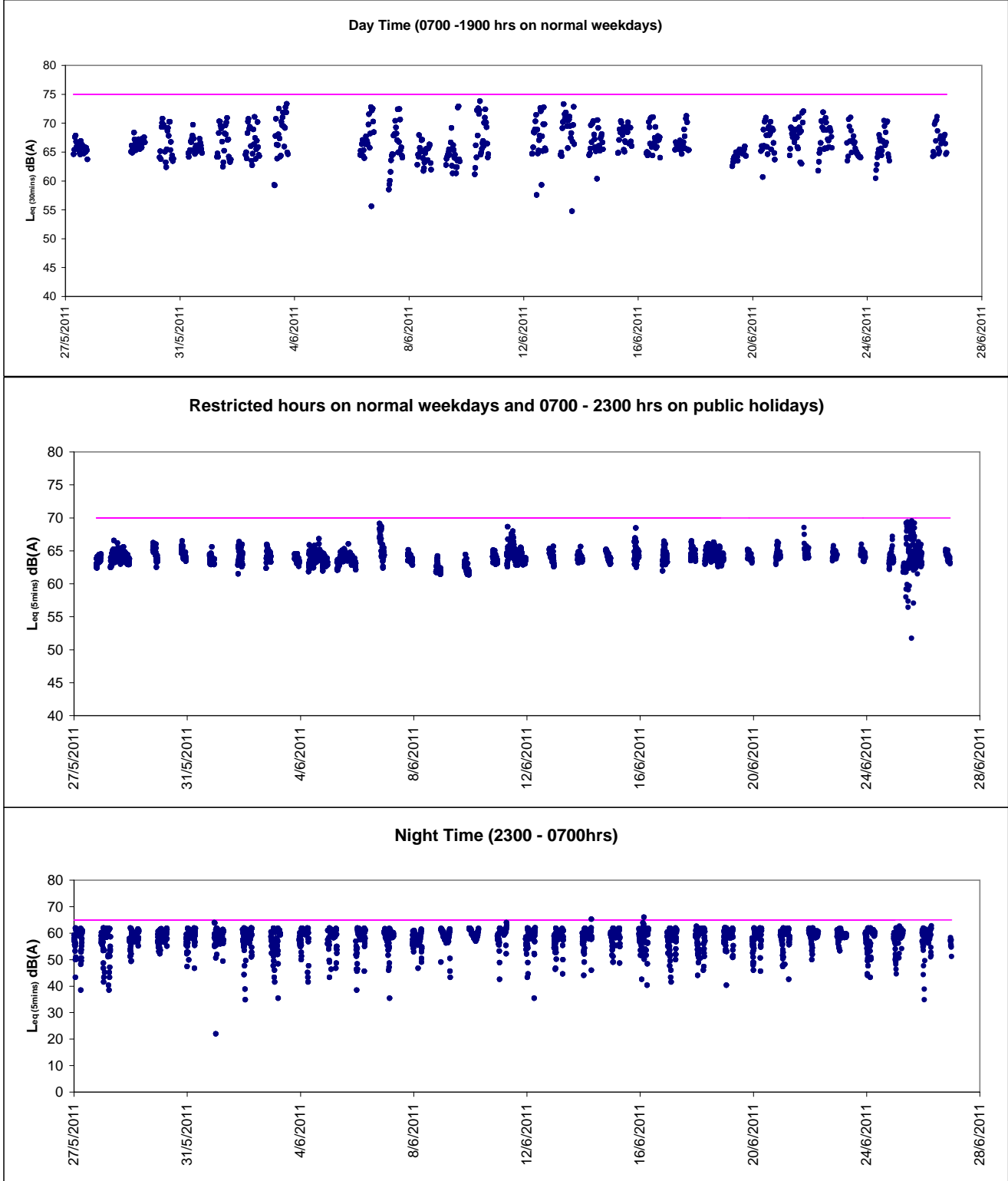
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08/06/2011 01:47 58.0	09/06/2011 02:57 57.3	10/06/2011 04:07 57.3	11/06/2011 05:17 58.4	12/06/2011 06:27 61.4	13/06/2011 23:37 58.2
08/06/2011 01:52 58.0	09/06/2011 03:02 56.8	1			

Real-time Noise Data RTN2 (Oil Street Community Liaison Centre)

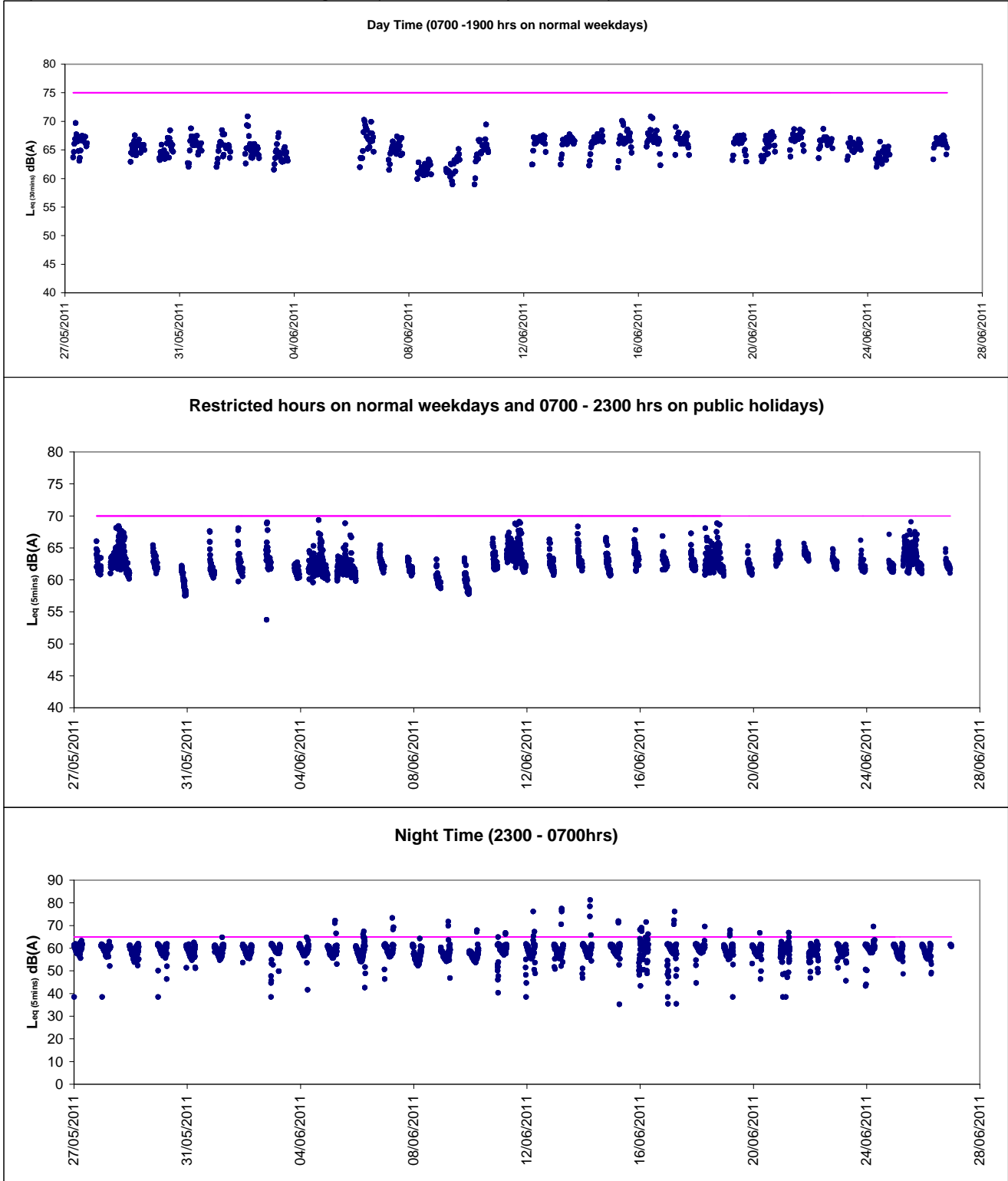
Table with 14 columns representing time and date entries for noise data. The data is organized into three sections: 'Normal Day 07:00-19:00', 'Normal Day 19:00-23:00', and 'Sunday & Holiday 07:00-23:00'. Each section contains 14 columns of time and date pairs.



Graphic Presentation of Real Time Noise Monitoring Result (Food and Environmental Hygiene Department Depot)



Graphic Presentation of Real Time Noise Monitoring Result (Oil Street Community Liaison Centre)





Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none">1. Submit noise mitigation proposals to IEC and ER;2. Implement noise mitigation proposals. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>



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. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 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	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
LIMIT LEVEL				
1. Exceedance for one sample	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)	<ol style="list-style-type: none"> Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Appendix 9.1

Complaint Log



Environmental Complaints Log

No environmental complaint was received in the reporting month.

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
-	-	-	-	-	-	-



Appendix 10.1

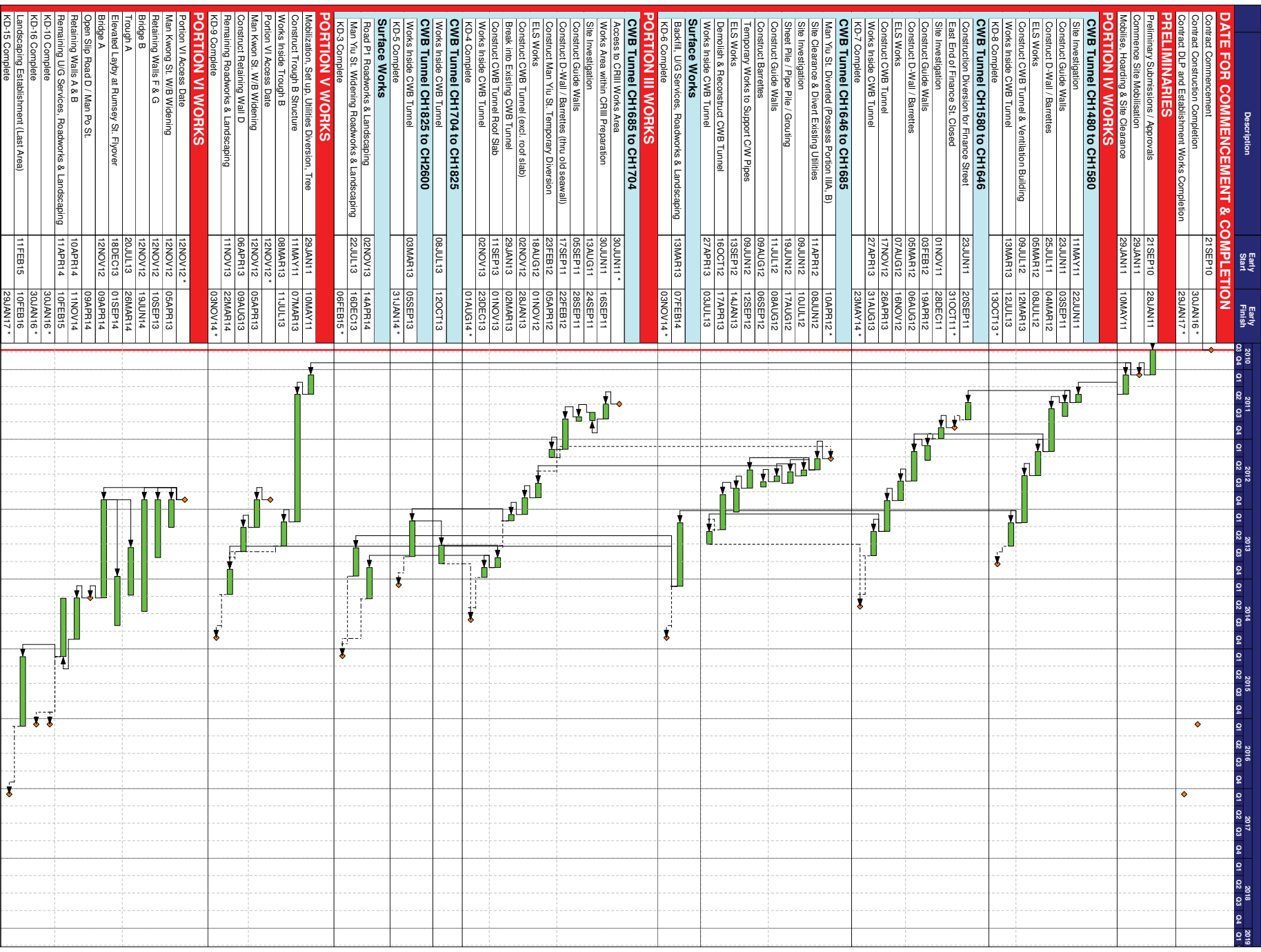
Construction Programme of Individual Contracts

Contract no. HY/2009/17

Contract Title : Central - Wan Chai Bypass - FEHD Whitfield Depot Re-provisioning Works

Works Schedule for the Advance Piling Works

ACTIVITY	Duration	START	FINISH	2010							2011
				July	August	September	October	November	December	January	
<u>Submissions before Commencement of Piling Works</u>											
Notification of Commencement Date of Construction	1	16/7/2010	16/7/2010	◆							
Organization Chart of Environmental Management Team	1	16/7/2010	16/7/2010	◆							
Works Schedule	1	16/7/2010	16/7/2010	◆							
Location and Layout Plan	1	31/8/2010	31/8/2010			◆					
Construction Noise Management Plan	1	31/8/2010	31/8/2010			◆					
<u>Installation of Piles</u>											
Plants Set-up	7	24/9/2010	30/9/2010				■				
Installation of pipes E3b	70	2/10/2010	10/12/2010				■				
Installation of pipes E3a	60	2/10/2010	30/11/2010				■				
Installation of pipes E2a	60	12/10/2010	10/12/2010				■				
Installation of pipes E2b	70	14/10/2010	22/12/2010				■				
Testing	14	23/12/2010	6/1/2011							■	



Leighton Contractors (Asia) Limited
 High Level Programme
 (Initial Works Programme IWP0)

Activity ID	Activity Name	Rem Dur	Start	Finish	2011																	
					February					March					April				May			
					23	30	06	13	20	27	06	13	20	27	03	10	17	24	01	08	15	
3MRP - Feb 2011 to Mar 2011																						
1 - CONTRACT DATES																						
1.1 - Conditions																						
1100010	Commencement of the Contract	0	20-Jan-11 A		Commencement of the Contract																	
1.2 - Possession of Site																						
1200010	Possession to Portion VI	0	20-Jan-11 A		Possession to Portion VI																	
2 - PRE-CONSTRUCTION WORKS																						
2.1 - Permit & Licence Application																						
2100010	Application for XP from HyD - Prepare & Submit to Engineer	0	20-Jan-11 A	02-Feb-11	Application for XP from HyD - Prepare & Submit to Engineer																	
2100011	Application for XP from HyD - Engineer Review & Comment	0	03-Feb-11 A	14-Feb-11	Application for XP from HyD - Engineer Review & Comment																	
2100012	Application for XP from HyD - Resubmission	1	15-Feb-11 A	21-Feb-11	Application for XP from HyD - Resubmission																	
2100013	Application for XP from HyD - Engineer Submit to HyD	90	22-Feb-11	22-May-11	Application for XP from HyD - Engineer Submit to HyD																	
2100025	Co-ordination with UU & other XP Permittee	25	15-Mar-11	08-Apr-11	Co-ordination with UU & other XP Permittee																	
2100028	TTMS Approval by TMLG members	60	09-Apr-11	07-Jun-11	TTMS Approval by TMLG members																	
2100041	Dumping Permit from EPD - Engineer Review & Comment	12	11-Mar-11	22-Mar-11	Dumping Permit from EPD - Engineer Review & Comment																	
2100042	Dumping Permit from EPD - Resubmission	7	23-Mar-11	29-Mar-11	Dumping Permit from EPD - Resubmission																	
2100043	Dumping Permit from EPD - Engineer Submit to EPD	177	30-Mar-11	22-Sep-11	Dumping Permit from EPD - Engineer Submit to EPD																	
2100050	Apply for Marine Notice	18	19-Feb-11 A	10-Mar-11	Apply for Marine Notice																	
2.2 - Contractor's Submission																						
2200010	Site Safety Plan - Prepare & Submit	0	14-Jan-11 A	20-Jan-11	Site Safety Plan - Prepare & Submit																	
2200011	Site Safety Plan - Engineer Review & Comment	0	21-Jan-11 A	17-Feb-11	Site Safety Plan - Engineer Review & Comment																	
2200013	Site Safety Plan - Engineer 2nd Review & Comment	14	26-Mar-11	08-Apr-11	Site Safety Plan - Engineer 2nd Review & Comment																	
2200014	Site Safety Plan - Final Submission	7	09-Apr-11	15-Apr-11	Site Safety Plan - Final Submission																	
2200015	Site Safety Plan - Engineer Approval	14	16-Apr-11	29-Apr-11	Site Safety Plan - Engineer Approval																	
2200020	Environmental Management Plan - Prepare & Submit	0	14-Jan-11 A	20-Jan-11	Environmental Management Plan - Prepare & Submit																	
2200021	Environmental Management Plan - Engineer Review & Comment	5	21-Jan-11 A	25-Feb-11	Environmental Management Plan - Engineer Review & Comment																	
2200022	Environmental Management Plan - Resubmission	28	26-Feb-11	25-Mar-11	Environmental Management Plan - Resubmission																	
2200023	Environmental Management Plan - Engineer Approval	28	26-Mar-11	22-Apr-11	Environmental Management Plan - Engineer Approval																	
2200030	Initial Works Programme Preparation	0	20-Jan-11 A	21-Jan-11	Initial Works Programme Preparation																	
2200031	Initial Works Programme - Review & Comment by ER	0	24-Jan-11 A	09-Feb-11	Initial Works Programme - Review & Comment by ER																	
2200033	Initial Works Programme - Approval from ER	28	22-Mar-11	18-Apr-11	Initial Works Programme - Approval from ER																	
2200041	Detailed Works Programme Preparation	60	19-Apr-11	17-Jun-11	Detailed Works Programme Preparation																	
2200060	Concrete Ready Mix/Design Mix - Submission	14	02-May-11*	15-May-11	Concrete Ready Mix/Design Mix - Submission																	
2200061	Concrete Ready Mix/Design Mix - ER Review & Comment	14	16-May-11	29-May-11	Concrete Ready Mix/Design Mix - ER Review & Comment																	
2200070	D-Wall Construction Materials - Submission	21	02-May-11	22-May-11	D-Wall Construction Materials - Submission																	
2200080	Bored Piles/H-piles Materials - Submission	28	10-May-11	06-Jun-11	Bored Piles/H-piles Materials - Submission																	
2200100	Temp. Drainage management Plan - Submission	28	20-Apr-11	17-May-11	Temp. Drainage management Plan - Submission																	
2200110	Temp. Drainage management Plan - ER Review & Comment	28	18-May-11	14-Jun-11	Temp. Drainage management Plan - ER Review & Comment																	
2.3 - Method Statement / Shop Drawings																						
2300010	MS Preparation for Independent Hydrographic Survey (IHS)	0	27-Jan-11 A	02-Feb-11	MS Preparation for Independent Hydrographic Survey (IHS)																	
2300011	MS for IHS - Review & Comment by ER	0	03-Feb-11 A	16-Feb-11	MS for IHS - Review & Comment by ER																	
2300012	Revise MS for IHS	0	17-Feb-11 A	19-Feb-11	Revise MS for IHS																	
2300013	MS for IHS - Approval from ER	6	21-Feb-11	26-Feb-11	MS for IHS - Approval from ER																	
2300020	MS Marine Pre-drill Platform - Prepare & Submit	19	21-Feb-11	11-Mar-11	MS Marine Pre-drill Platform - Prepare & Submit																	
2300021	MS Marine Pre-drill Platform - Engineer Review & Comment	7	12-Mar-11	18-Mar-11	MS Marine Pre-drill Platform - Engineer Review & Comment																	
2300022	MS Marine Pre-drill Platform - Resubmission	10	19-Mar-11	28-Mar-11	MS Marine Pre-drill Platform - Resubmission																	
2300023	MS Marine Pre-drill Platform - Engineer Approval	7	29-Mar-11	04-Apr-11	MS Marine Pre-drill Platform - Engineer Approval																	
2.4 - Contractor's Design and Build Items																						
<ul style="list-style-type: none"> Actual Work Remaining Work ◆ Milestone 					Contract HY/2009/19													3MRP				
					Three Month Rolling Programme (21 Feb - 20 May 2011)													3MRP - Feb 2011 to Mar 2011				
																		Page 1 of 2				

Activity ID	Activity Name	Rem Dur	Start	Finish	2011																
					February					March				April				May			
					23	30	06	13	20	27	06	13	20	27	03	10	17	24	01	08	15
2400010	Marine Pre-drilling Platform Design - Prep & Submit	36	21-Feb-11	28-Mar-11	Marine Pre-drilling Platform Design - Prep & Submit																
2400011	Marine Pre-drilling Platform Design - ER review & comment	7	29-Mar-11	04-Apr-11	Marine Pre-drilling Platform Design - ER review & comment																
2400012	Marine Pre-drilling Platform Design - Resubmission	7	02-Apr-11	08-Apr-11	Marine Pre-drilling Platform Design - Resubmission																
2400013	Marine Pre-drilling Platform Design - ER Approval	9	09-Apr-11	17-Apr-11	Marine Pre-drilling Platform Design - ER Approval																
3 - CONSTRUCTION WORKS																					
3.1 - Site Set-up																					
3.1.1 - General																					
3010010	Site mobilization - Contractor's Temporary Office	25	20-Jan-11 A	21-Mar-11	Site mobilization - Contractor's Temporary Office																
3010015	Site mobilization - Initial Surveys & Photographs	0	20-Jan-11 A	20-Feb-11	Site mobilization - Initial Surveys & Photographs																
3010020	Site mobilization - Engineer's Equipment & Services	25	20-Jan-11 A	21-Mar-11	Site mobilization - Engineer's Equipment & Services																
3010025	Site mobilization - Contractor's Staff & Equipments	25	20-Jan-11 A	21-Mar-11	Site mobilization - Contractor's Staff & Equipments																
3010120	Independent hydrographic survey	12	21-Feb-11	05-Mar-11	Independent hydrographic survey																
3.9 - Section X Works																					
3.9.1 - Bridge - Eastbound - Pier F3-F15																					
3910010	Mobilization of Crane Barge & Self Propelled Derick	3	24-Mar-11	26-Mar-11	Mobilization of Crane Barge & Self Propelled Derick																
3910011	Pre-drilling Platform Material Delivery	3	28-Mar-11	30-Mar-11	Pre-drilling Platform Material Delivery																
3910020	Marine pre-drilling platform - Type 3 Deck Fabrication (2 nos.)	12	31-Mar-11	14-Apr-11	Marine pre-drilling platform - Type 3 Deck Fabrication																
3910022	Marine pre-drilling platform - Type 2 Deck Fabrication	9	15-Apr-11	27-Apr-11	Marine pre-drilling platform - Type 2 Deck Fabrication																
3910024	Marine pre-drilling platform - Type 1 Deck Fabrication	9	28-Apr-11	07-May-11	Marine pre-drilling platform - Type 1 Deck Fabrication																
3910026	Marine pre-drilling platform - Drive H-pile for F6 & F3 Caps	12	15-Apr-11	30-Apr-11	Marine pre-drilling platform - Drive H-pile for F6 & F3 Caps																
3910030	Marine pre-drilling platform - Install Type 3 Deck at F9	12	15-Apr-11	30-Apr-11	Marine pre-drilling platform - Install Type 3 Deck at F9																
3910035	Marine pre-drilling platform - Install Type 3 Deck at F12	9	02-May-11	11-May-11	Marine pre-drilling platform - Install Type 3 Deck at F12																
3910040	Marine pre-drilling platform - Install Type 2 Deck at F6	9	12-May-11	21-May-11	Marine pre-drilling platform - Install Type 2 Deck at F6																
3910055	Mobilise & Set-up for Marine Pre-drilling	5	12-May-11	17-May-11	Mobilise & Set-up for Marine Pre-drilling																
3910060	Marine bored pile - Predrilling at F9 Cap (2 of 2)	12	18-May-11	31-May-11	Marine bored pile - Predrilling at F9 Cap (2 of 2)																
3910070	Marine bored pile - Predrilling at F9 Dolphin (2 of 6)	12	18-May-11	31-May-11	Marine bored pile - Predrilling at F9 Dolphin (2 of 6)																

- Actual Work
- Remaining Work
- Milestone

Contract HY/2009/19

Three Month Rolling Programme (21 Feb - 20 May 2011)

3MRP

3MRP - Feb 2011 to Mar 2011

Page 2 of 2

Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East CONTRACT HK/2009/02

CHUN WO - CRGL JV

Activity ID	Activity Name	OD	Start	Finish	% Complete	Timeline											
						2011	2012	2013	2014	2015	2016						
Wan Chai Development Phase II - Central - Wan Chai Bypass at Wan Chai East																	
Expanded and More Detailed Initial Works Programme																	
Section IX B Works - Central - Wan Chai Bypass Tunnel Structure from chainage 3400 to eastern tunnel																	
Tunnel Portion 1																	
S9B-T1-0005	Tunnel portion 1 Predrill & guide wall	10	18-Feb-11	13-Apr-11	40%	Tunnel portion 1 Predrill & guide wall											
S9B-T1-0007	Tunnel Portion 1 Bored Piling works	105	09-Feb-11	08-Aug-11	0%	Tunnel Portion 1 Bored Piling works											
S9B-T1-0010	Tunnel portion 1 diaphragm wall works	105	25-Apr-11	27-Aug-11	0%	Tunnel portion 1 diaphragm wall works											
S9B-T1-0015	Tunnel portion 1 Pump Test and demobilization of Silos equipments	35	20-Aug-11	30-Sep-11	0%	Tunnel portion 1 Pump Test and demobilization of Silos equipments											
S9B-T1-0020	Tunnel portion 1 ELSW excavation	130	03-Oct-11	07-Mar-12	0%	Tunnel portion 1 ELSW excavation											
S9B-T1-0030	Tunnel portion 1 structure construction	100	08-Mar-12	09-Jul-12	0%	Tunnel portion 1 structure construction											
S9B-T1-0040	Tunnel portion 1 backfilling and ELSW removal	54	10-Jul-12	10-Sep-12	0%	Tunnel portion 1 backfilling and ELSW removal											
Tunnel Portion 2																	
S9B-T1-0105	Tunnel portion 2 Predrill & guide wall	10	02-Aug-12	13-Aug-12	0%	Tunnel portion 2 Predrill & guide wall											
S9B-T2-0010	Tunnel portion 2 diaphragm wall and bored pile works	100	14-Aug-12	10-Dec-12	0%	Tunnel portion 2 diaphragm wall and bored pile works											
S9B-T2-0015	Tunnel portion 2 Pump Test	14	03-Dec-12	18-Dec-12	0%	Tunnel portion 2 Pump Test											
S9B-T2-0020	Tunnel portion 2 ELSW excavation	80	11-Dec-12	19-Mar-13	0%	Tunnel portion 2 ELSW excavation											
S9B-T2-0030	Tunnel portion 2 structure construction	100	20-Mar-13	22-Jul-13	0%	Tunnel portion 2 structure construction											
S9B-T2-0040	Tunnel portion 2 backfilling and ELSW removal	80	23-Jul-13	25-Oct-13	0%	Tunnel portion 2 backfilling and ELSW removal											
Tunnel Portion 3																	
S9B-T3-0005	HEC 132kv diversion at Wan Shing Street Completed	0	01-Apr-12*		0%	HEC 132kv diversion at Wan Shing Street Completed											
S9B-T3-0008	Tunnel portion 3 Predrill & guide wall	20	02-Oct-12	25-Oct-12	0%	Tunnel portion 3 Predrill & guide wall											
S9B-T3-0010	Remaining diaphragm wall, bored piles and temporary pipe pile wall at tunnel portion 3	50	26-Oct-12	22-Dec-12	0%	Remaining diaphragm wall, bored piles and temporary pipe pile wall at tunnel portion 3											
S9B-T3-0015	Tunnel portion 3 Pump Test	30	15-Dec-12	22-Jan-13	0%	Tunnel portion 3 Pump Test											
S9B-T3-0020	Tunnel portion 3 ELSW excavation	30	15-Jan-13	20-Feb-13	0%	Tunnel portion 3 ELSW excavation											
S9B-T3-0030	Tunnel portion 3 structure construction	60	21-Feb-13	06-May-13	0%	Tunnel portion 3 structure construction											
S9B-T3-0040	Tunnel portion 3 backfilling and ELSW removal	30	07-May-13	11-Jun-13	0%	Tunnel portion 3 backfilling and ELSW removal											
Tunnel Portion 4																	
S9B-T4-0005	Tunnel portion 4 Predrill & guide wall for section not at approach ramp	21	30-Aug-12	22-Sep-12	0%	Tunnel portion 4 Predrill & guide wall for section not at approach ramp											
S9B-T4-0010	Diaphragm wall and bored pile for steel bridge no.1 above tunnel portion 4	40	24-Sep-12	10-Nov-12	0%	Diaphragm wall and bored pile for steel bridge no.1 above tunnel portion 4											
S9B-T4-0020	Diaphragm wall & bored pile works at tunnel portion 4 (section not at approach ramp)	420	11-Sep-12	06-Feb-14	0%	Diaphragm wall & bored pile works at tunnel portion 4 (section not at approach ramp)											
S9B-T4-0025	Tunnel portion 4 Predrill & guide wall (for section at approach ramp)	5	23-Dec-13	30-Dec-13	0%	Tunnel portion 4 Predrill & guide wall (for section at approach ramp)											
S9B-T4-0030	Diaphragm wall works for remaining area of tunnel portion 4 (for section at approach ramp)	30	31-Dec-13	06-Feb-14	0%	Diaphragm wall works for remaining area of tunnel portion 4 (for section at approach ramp)											
S9B-T4-0035	Tunnel portion 4 Pump Test	14	28-Jan-14	14-Feb-14	0%	Tunnel portion 4 Pump Test											
S9B-T4-0040	Tunnel portion 4 ELSW excavation	60	07-Feb-14	19-Apr-14	0%	Tunnel portion 4 ELSW excavation											
S9B-T4-0050	Tunnel portion 4 structure construction	110	22-Apr-14	01-Sep-14	0%	Tunnel portion 4 structure construction											
S9B-T4-0060	Tunnel portion 4 backfilling and ELSW removal	60	02-Sep-14	13-Nov-14	0%	Tunnel portion 4 backfilling and ELSW removal											
Section X Works - Central - Wan Chai Bypass Tunnel Structure from western tunnel to chainage 3400																	
Tunnel Portion 5																	
S10-T5-0005	Tunnel portion 5 Predrill & guide	21	23-Dec-14	19-Jan-15	0%	Tunnel portion 5 Predrill & guide											
S10-T5-0010	Tunnel portion 5 diaphragm wall & bored pile works	110	20-Jan-15	04-Jun-15	0%	Tunnel portion 5 diaphragm wall & bored pile works											
S10-T5-0015	Tunnel portion 5 pump test	14	13-Jun-15	30-Jun-15	0%	Tunnel portion 5 pump test											
S10-T5-0020	Tunnel portion 5 tunnel ELSW excavation	45	04-Jul-15	25-Aug-15	0%	Tunnel portion 5 tunnel ELSW excavation											
S10-T5-0030	Tunnel portion 5 tunnel structure construction	90	26-Aug-15	11-Dec-15	0%	Tunnel portion 5 tunnel structure construction											
Tunnel Portion 6																	
S10-T6-0040	Tunnel portion 6 Predrill & guide	12	24-Apr-15	08-May-15	0%	Tunnel portion 6 Predrill & guide											
S10-T6-0050	Tunnel portion 6 diaphragm wall & bored pile works at Area 10	45	09-May-15	03-Jul-15	0%	Tunnel portion 6 diaphragm wall & bored pile works at Area 10											
S10-T6-0055	Tunnel portion 6 pump test	14	25-Jun-15	11-Jul-15	0%	Tunnel portion 6 pump test											
S10-T6-0060	Tunnel portion 6 tunnel ELSW excavation at Area 10	45	04-Jul-15	25-Aug-15	0%	Tunnel portion 6 tunnel ELSW excavation at Area 10											
S10-T6-0070	Tunnel portion 6 tunnel structure construction at Area 10	58	26-Aug-15	04-Nov-15	0%	Tunnel portion 6 tunnel structure construction at Area 10											

<p>俊和 - 中國中鐵聯營 CHUN WO - CRGL JOINT VENTURE</p>	<p>Remaining Level of Effort</p> <p>Actual Level of Effort</p> <p>Actual Work</p> <p>Remaining Work</p> <p>Critical Remaining Work</p>	<p>Milestone</p> <p>Summary</p>	<p>CEDD CONTRACT NO. HK/2009/02</p> <p>Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai East (Contract 2)</p> <p>Revised Programme dated 7 April 2011</p>				Date	Revision	Checked	Approved
			07-Apr-11		KT	KY				